'Fishing Down' the Food Ch
Is a Catch-22, Study Warn

By William K. Stevens
New York Times

New York

As overfishing depletes prized species like snapper, tuna, cod and swordfish, the commercial fishing industry is moving farther down oceanic food webs in search of a catch, a new study has found. If this quest is pursued to its logical end, scientists warn, it will lead to a wholesale collapse of marine ecosystems.

One symptom of this practice of "fishing down" the food chain is that second-level creatures normally preyed upon by the fish at the top of the chain are increasingly appearing on restaurant menus, said David Pauly, a fisheries biologist at the University of British Columbia in Vancouver, who is the study's chief author. One example is squid. "Americans wouldn't eat squid before," he said. "It was used as bait, and now Americans are eating bait. It has all kinds of fancy Asian names, but it's bait."

The downward shift is global, according to the study, published in the current issue of the journal Science. Fisheries experts have believed for some time on the basis of anecdotal evidence that the shift was taking place, but the new study is thought to be the first that has tried to document it systematically and statistically.

Pauly and four colleagues, one in British Columbia and three at the International Center for Living Aquatic Resources Management, in the Philippines, combined two sets of data to reach their conclusions. One was worldwide fisheries statistics compiled by the United Nations' Food and Agricultural Organization. The other was an analysis of the food web derived from models of marine ecosystems.

Predators to Algae

The analysis assigned each marine species to one of four different levels in the food web; scientists call them trophic levels. On level four are top predators like sharks, tuna and swordfish. On level one, at the bottom, are grass, detritus and algae.

The trophic levels are not sharply demarcated, said Pauly, because many sea creatures have "ecumenical tastes" and feed at more than one level. The model sorted out species according to their feeding habits and placed them on the 1-to-4 scale accordingly. Alaskan pollock near the top of the food web have a trophic level of 3.8, for instance, while the anchovy's level is 2.2.

By combining the model analysis with U.N. statistics on worldwide catches of fish, the scientists calculated that the overall global trophic level of fish catches has declined to about 3.4 from 3.7 since the 1950s. The actual decline is probably greater than that, said Pauly, because statistics from the tropics are sketchy and show a weak decline, while there is an abundance of individual reports from the tropics of fishing lower on the food web.

If the rate of decline suggested by the study continues, Pauly said, many marine food webs will be "collapsing in on themselves" in three or four decades.

And because fish suitable for human consumption fall between about 2.5 and 4 on the trophic scale, he said, "the space available for the fishery to move is quite limited." A simple and particularly stark example of this is the cod fishery off eastern Canada, Pauly said. With the collapse of that fishery, he said, fishermen have begun concentrating on the cod's prey, which are shrimp. Shrimp feed on bottom detritus, the very lowest trophic level. "It's mud," Pauly said, "and that's when you hit the wall," beyond which the fishery has no more commercial value.

Advice for Fisheries

The researchers offered no detailed prescription for a remedy, but they did suggest that in the next decades, fishery managers must emphasize the rebuilding of fish populations within large "no take" marine protected areas.

The statistical analysis showed that once fishermen concentrate on a lower trophic level, total seafood catches go up for a while and then decline again. But at some point, Pauly said, "you've got to hit the bottom." Even before the bottom is reached, the researchers wrote in Science, fisheries would effectively be depleted: Zooplankton, microscopic animals found at

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Along with squid and shrimp, dining tables and supermarkets contain other evidence of fishing lower on the food web, he said. One example is ersatz crab meat, which is made of the ground-up and processed flesh of second-level fish like menhaden, a herring-like fish that is normally fare for top predators. Another example is an increased European harvest of herring, once considered a trash fish.

Marine Ecosystems

Even short of an outright collapse, fishing down the food web can have untoward effects on marine ecosystems, Pauly said. The study cited an especially striking example from the North Sea.

There, cod have been so depleted that fishermen have concentrated on a second-level prey species of the cod, the Norway pout. The pout in turn preys on tiny organisms yet another level down, called copepods and krill. But krill also eat copepods, and if pout are removed the krill population expands — at the expense of the copepods, whose numbers are drasti-

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San Francisco Chronicle

FRIDAY, FEBRUARY 13, 1998

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The statistical analysis showed that once fishermen concentrate on a lower trophic level, total seafood catches go up for a while and then decline again. But at some point, Pauly said, "you've got to hit the bottom." Even before the bottom is reached, the researchers wrote in Science, fisheries would effectively be depleted: Zooplankton, microscopic animals found at trophic level 2, are "not going to be reaching our dinner plates any time soon." Nor, said Pauly, do most people want to eat survivors like jellyfish. Some other species, like the lantern fish, are suitable to eat but are too scattered to be caught commercially.

The study sends "a clear message and an important one," said Dr. Paul Dayton, a marine ecologist at the Scripps Institution of Oceanography, in San Diego. "This is the very best data set in the world," said Dayton, who added that Pauly "is a genius at getting huge amounts of data and synthesizing them."

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Aquaculture is not necessarily an answer, he said. For instance, now that Atlantic salmon are depleted, they are being reared for the table in offshore pens, both in Europe and the United States. But they are being fed with meal made from second-level marine fish, products of fishing down the food web.

Researchers Believe Char Extinct on McCloud River

Ten years of fisheries research on the McCloud River has revealed some sad but not unexpected news for one of The Nature Conservancy's most scenic and popular preserves: The only California population of Dolly Varden char, *Salvelinus confluentus,* is most likely extinct.

Preserve Manager Tom Hesseldenz, who led numerous teams of college interns in an unfruitful search for the western char last observed there in 1975, will summarize his findings in a forthcoming report on the status of the McCloud River fishery since construction of Shasta and McCloud dams.

S. confluentus is a relict species, a living fossil better adapted to the glacial run-off of the Pleistocene than the warmer environment of the present. One of the reasons it survived only on the McCloud River in California is the cold water of Big Springs blasting forth from the base of Mt. Shasta, Hesseldenz explained. Further downstream, Mud Creek contributes its silt- and ash-laden waters, giving the McCloud River its unique turquoise-gray color.

Remnant populations of *S. confluentus* hang on in the isolated headwaters of rivers and streams in the Pacific Northwest and British Columbia. The inland species is often confused with an anadromous cousin, *Salvelinus malma*, whose range extends throughout the north Pacific. In the right circumstances, the Dolly Varden char has shown a great deal of ecological flexibility. On the Flathead river near Glacial National Park, for instance, the fish adapted to life in Hungry Horse Reservoir by spending most of its life cycle in the lake and migrating upstream to spawn.

But in the southernmost extent of the species' range on the McCloud, Dolly Varden encountered a combination of environmental pressures that proved too much for its continued survival. By the turn of the century, the McCloud River had earned a well-deserved reputation as a premier sport fishery for its distinctive strain of brightly colored rainbow trout, *Salmo gairdneri*. The "Shasta rainbow," prized for the vivid crimson stripe that graces its sides, has been used to establish many populations of the species throughout the world.

S.confluentus, on the other hand, wasn't held in the same esteem. "A lot of people considered Dolly Varden to be an undesirable species – a trash fish – especially since it preyed on the rainbows," Hesseldenz said. Consequently, Dolly Varden routinely were thrown up on the banks to rot in the sun. But the species survived.

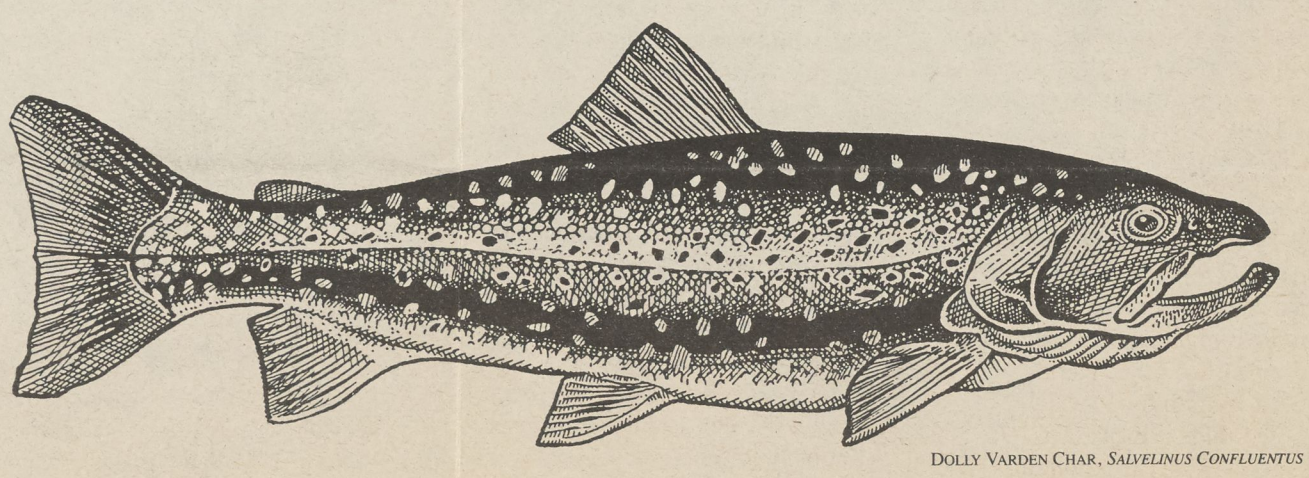
In 1925 sportsmen introduced a European game fish to the river: brown trout, *Salmo trutta*, which occupy a nearly identical niche to that of Dolly Varden. Both fish are carnivorous bottom-dwellers that spawn in the fall. Initially, the browns didn't proliferate to any great extent in the icy water better suited to *S. confluentus*. The browns languished in relative ecological obscurity until the dam builders created Lake Shasta in the mid-1940s.

The immediate impact of Shasta Dam was to cut off the Dollys' primary food source, explained Dr. Peter Moyle, a professor at the University of California, Davis, who studied the McCloud fishery and is one of the foremost authorities on the state's native fish. "There were tremendous runs of spring chinook salmon in the McCloud who'd spend the whole summer there, then lay their eggs in the fall," he noted. The salmonid migration brought "an enormous influx of energy" into the ecosystem, and there is some evidence to suggest that the Dolly Varden charnot only fed on the eggs and fry of salmon and steelhead, but on the spent carcasses of the annual run, as well.

Hesseldenz observed "a more subtle effect" of Lake Shasta was to establish a new habitat for browns – the lake. "It's hard to say just to what extent," Hesseldenz added, "but browns undoubtedly had a greater foothold in the Dolly Varden world as a result."

The final nail in the coffin, Hesseldenz believes, was construction of the McCloud Dam in the mid-1960s. It not only cut off upstream spawning grounds, but also severely reduced the flow of the McCloud River to one-fifth of its historic levels. The reduced velocity of the river raised the maximum water temperature from the 50-degree range to the 60-degree range and thereby lowered the level of life-sustaining dissolved oxygen. The browns thrived in the transformed regime, but the Dollys' numbers continued to dwindle.

The McCloud River Club generously donated the 2,300-acre preserve downstream a few miles from the McCloud Reservoir and upstream from two private fishing clubs in 1973. With a grant from Trout Unlimited, Moyle set out in 1974 with some graduate students to search for the elusive fish. "We only saw two," Moyle recalled. The first was an 18-inch specimen hooked and quickly released by one of Moyle's graduate students. The other fish was caught by an angler who, although unaware of Dolly Varden's threatened nature, had the presence of mind to recognize an unusual fish and took it to the local fish and game warden. The last of the Dollys is preserved in the California Department of Fish and Game's collection in Rancho Cordova.



DOLLY VARDEN CHAR, *SALVELINUS CONFLUENTUS*

Moyle also noted "a total absence of young Dolly Varden."

The scope of Moyle's study was to assess the status of the native rainbows, the Dolly Varden, the brown trout and to recommend some management options. In 1975, acting on his findings, the state declared a section of the McCloud, including the preserve, a wild trout stream and opened it to limited fishing. In 1976 the Conservancy opened the preserve to catch and release fishing with a limit of 10 anglers at any one time.

"When I started in 1978," Hesseldenz said, "I felt it was a pretty high priority to find out the status of the Dolly Varden." In a cooperative effort with Fish & Game biologists, 10 years of research by creel census, angling, snorkeling, electroshocking and gill netting yielded "lots of rainbows, some browns and no Dolly Vardens."

Dolly Varden had also disappeared from the upstream section of the river above the McCloud River. "I don't think the browns wiped out the Dollys in the upper river," Hesseldenz said. "There's really no clear-cut reason why they went extinct in the upper river."

One influence may have been the "massive stocking" of brook trout, *Salvelinus fontinalis*, in the McCloud Reservoir after its construction in the mid-1960s, Hesseldenz speculates. Brook trout will hybridize with Dolly Varden and create sterile offspring.

"The absence of salmon in the upper river may have affected the fish," Moyle added. "It's harder to explain, but it did have a big population of Dolly Varden." In fact, a large deep pool at Big Springs was once known as the "Dolly Hole."

The prognosis: "I think at this stage with all the work they've done up there you can say that it's gone," Moyle concluded. "I'm 99.9 percent certain that it's gone. I'd be quite surprised if it wasn't."

While the Department of Fish and Game is considering restocking the upper river with Dolly Varden char, Hesseldenz doubts there will ever be an attempt to resurrect a population of *S. confluentus* below McCloud Reservoir. "I think they needed this whole river," Hesseldenz said. "But there's no point in trying it in the lower river because it's no longer Dolly Varden habitat."

Moyle agrees. "Whatever the problem is that caused them to go extinct is still there."

John Stumbos

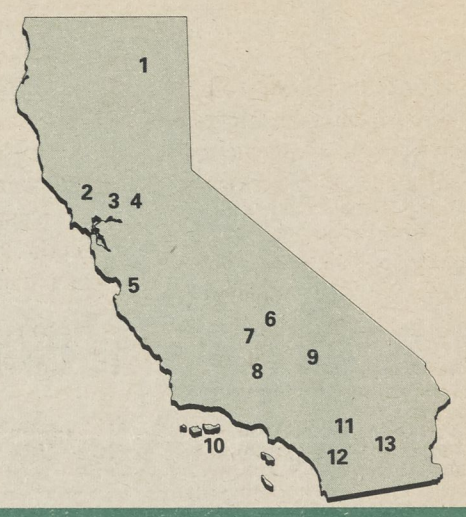
John Stumbos is an environmental writer based in Sacramento, California. Illustration by Harry S. Robins.

Landowners Protect Rare Lily

Greene's mariposa lily, *Calochortus greenei*, has an attractive, lavender and yellow flower with large petals surrounding a center of pale, fine hairs. Its habitat is restricted to extreme northern California and southern Oregon with only seven sites remaining in California.

Attractive to collectors and palatable to cattle, Greene's mariposa lily is vulnerable to damage and disturbance. For reasons that are not yet understood, typical populations of the lily are extremely small, a factor which increases their vulnerability.

Thanks to landowners Bryce and Pat Martin, who entered into a voluntary protection agreement with The Nature Conservancy, one of the largest populations of Greene's mariposa lily is now protected in Siskiyou County.



December, January and February
Preserve Field Trips and News

Northern California

5 Elkhorn Slough Preserve
Monterey County

December 5, Saturday
Kayak Expeditions

Take advantage of extreme high and low tides to view shorebirds, herons, egrets, otters, harbor seals and more. No previous kayaking experience is needed to join this exciting tour of California's second largest salt marsh. A fee of $55/person covers rental of an ocean-going kayak, safety gear, kayak training and expert tour guidance.

A morning and an afternoon expedition will be offered. Moderately strenuous, the trips last for about four hours. The preserve is near Moss Landing, about a two-hour drive from the Bay Area.

For information about this trip and other kayaking trips at Elkhorn Slough, contact the Elkhorn Slough Foundation listed in the Directory.

How to Reserve Space on Field Trips

Send your reservation form to the person or office indicated with SASE. Directions and confirmation will be sent to you. To sign up for more than one field trip, please make copies of this form. For family day hikes, indicate ages of children attending.
Reservations must be received 10 days prior to the trip unless otherwise specified.
For trips requiring a donation, write checks to The Nature Conservancy.
Important: If you must cancel, please let the trip coordinator or a Conservancy office know as soon as possible.
Most trips have waiting lists.

Name _____

Address _____

City/Zip _____

Day Phone _____

Evening Phone _____

Reserve space for _____ *person/s on trip to* _____

on _____

☐ *Send carpooling information*

☐ *I can take riders.* ☐ *I need a ride.*

2 Fairfield Osborn Preserve
Sonoma County

December 6, Sunday
Friends of Fairfield Osborn Day Hike

The preserve is primarily oak woodlands, but an eventful geological history has resulted in a varied substrate supporting many different biotic communities. Hiking down and around the slopes of Sonoma Mountain, you may tour mixed evergreen forest, grassland, chaparral, freshwater marsh, ponds, freshwater seeps, a vernal pool and riparian woodland.

The hike begins at 10:00 a.m. The pace will depend on the hikers' abilities; there can be steep changes in elevation. The preserve is located about 60 miles north of San Francisco, east of Cotati. For reservations and information, write Tim Henke at the Preserve. See Directory.

1 McCloud River Preserve
Shasta County

January 2-3, Weekend
Cross Country Ski Trek

Snow will probably close off access to the McCloud River Preserve by December. Start off your new year with a great adventure by joining our cross country ski trek into this northernmost of our state preserves. Naturalist Will Murray will lead you on a 14-to-24 mile (depending on snow conditions) ski expedition over hilly (and we hope, very snowy) terrain.

You will stay in cabins at the preserve and pot luck arrangements for food will be made. You must be in excellent condition and an intermediate-to-advanced cross country skier, able to provide your own equipment.

Reservations: Debra Cope, 1130 Mission Ave, San Rafael, CA 94901.

8 Carrizo Plain
San Luis Obispo County

January 9, Saturday
Winter Birding Day Hike

Home to some of the rarest plants and animals in California, the Carrizo Plain provides habitat for over 25 percent of the state's wintering sandhill cranes. Raptors such as peregrine falcons, golden eagles, American kestrels and burrowing owls frequent the plain.

Naturalist John Roser will guide this hike over level terrain. Be prepared for cold, windy weather. The plain is located about two hours west of Bakersfield. Send reservation form to John Roser, 5359 Barrenda Ave., Atascadero, CA 93422.

4 Cosumnes River Preserve
Sacramento County

January 17, Sunday
Birding Day Hike

Sandhill cranes and tundra swans migrate each winter to the Cosumnes River, the newest of Conservancy preserves. Come tour the Valley oak riparian woodland and observe these fascinating birds with avian experts Steve Cochrane and Lisa Frost. Pace will be leisurely.

The preserve is located two hours from the Bay Area, between Stockton and Sacramento. Reservations: Lisa Frost, 15 Park Ave., Mill Valley, CA 94941.

3 Jepson Prairie Preserve
Solano County

The Jepson Prairie area is renowned among ecologists as the best remnant stand of native prairie in the Central Valley. Weekly field trips will begin on Sunday, February 28th. Meet at 11:00 a.m. at the entrance to the preserve on Cook Lane. Bring a warm jacket, binoculars, waterproof shoes and lunch.

Volunteers are needed during the months of January and February to lend a hand in a reforestation project. If you are interested in helping us restore Jepson Prairie riparian habitat by planting cottonwood trees, please send a postcard with your name and address to Tom Griggs, 7100 Desmond Road, Galt, CA 95632.

San Joaquin Valley

6 Kaweah Oaks Preserve
Tulare County

December 27, Sunday
Christmas Bird Count

(See description for Creighton Ranch New Year Bird Count.)

7 Creighton Ranch Preserve
Tulare County

January 3, Sunday
New Year's Bird Count

Sponsored by the National Audubon Society, these hikes are perfect occasions to test your avian knowledge or learn the ABC's of birding from experts. Be prepared for wet or foggy weather, muddy terrain and views of wood ducks, red shouldered hawks, shorebirds, raptors and waterfowl (depending on which trip you attend).

Hikes begin at 7:00 a.m. Bring lunch, binoculars and a $3 donation to Audubon. For more information, send a postcard with your name and mailing address to Preserve Manager Rob Hansen at the Creighton Ranch Preserve address listed in the Directory.

9 Kern River Preserve
Kern County

January 30 and 31, Weekend
Preserve Workdays

Help out the yellow-billed cuckoo by restoring riparian habitat along the Kern River. We will be planting cottonwood and willow trees to provide nesting and foraging habitat for this state-listed bird. For more information, contact Preserve Manager Rick Hewett at the Kern River Preserve address listed in the Directory.

Southern California

12 Santa Rosa Plateau Preserve
Riverside County

During the winter months the vernal pools are a resting and feeding stop for Canada geese and other waterfowl. Come tour the preserve's three rare southern California plant communities: Engelmann oak woodland, upland bunchgrass prairie and vernal pools.

Birdwalks will be offered on November 10, December 15, January 12 and February 9 (all Tuesdays), and on Sunday, January 10, by birding expert Isabel Ludlum. Meet at the preserve gate at 7:30 a.m.

Guided nature walks begin at 9:30 a.m., and are offered on the following Saturdays: November 7, December 5, January 2 and February 6.

13 Coachella Valley Preserve
Riverside County

December 12, Saturday
Tamarisk Bash

Bring gloves, saws and a will to work. While this is fairly strenuous, volunteer help is critical in our effort to remove alien tamarisk from the palm oases. The day begins at 9:30 a.m. at 1000 Palms Oasis.

January 23, Saturday
Colorado Deserts Animals and Plants

This easy hike will give you a general introduction to the natural history of the desert. Bring lunch and water. The day trip begins at 10:00 at 1000 Palms Oasis. For more information, call Preserve Director Cameron Barrows at (619) 343-1234.

11 Big Bear Valley
San Bernardino County

January-February,
Saturdays and Sundays
Bald Eagle Tours

This preserve in the San Bernardino Mountains will again sponsor tours to view the wintering bald eagles. After an introductory slide show, you will caravan throughout the Big Bear Valley to see these majestic birds in person. A donation of $5 is requested, which also makes you a Big Bear Valley Preserve member for the year.

Reservations are mandatory! For information, call Sondra Haile at (714) 585-3159 or write to the preserve at the address listed in the directory.

back and forth over the female when she is resting near the bottom of the nest, or he will nudge her in the side with his snout. Spawning occurs in the nest, the eggs and milt being shed at the same instant.

At one time the greatest of all sockeye salmon streams was the Fraser River of British Columbia. The main part of the catch by Puget Sound fishermen was made as these fish were migrating to this magnificent salmon stream. But in 1913 and 1914 heavy slides occurred while a railroad was being built, blocking the migration of the sockeye to their spawning grounds. Up to the present the sockeye have not regained their former abundance in this river, even though the obstructions to their migration have been removed.

To remedy the lack of rebuilding of the sockeye salmon stock in the Fraser River, the United States and Canada, on July 28, 1937, ratified a treaty for the study of this species.

Pink, or Humpback, Salmon

(Oncorhynchus gorbuscha)

Though pink, or humpback, salmon are found from northern Japan to Alaska and southward to central California, they are taken commercially in large quantities only from Puget Sound northward. Throughout their range they pass part of their life cycle in the sea and part in streams (Color Plate X).

In southeastern Alaska these fish begin their migration from the sea in late June and continue until late September, but do not migrate far upstream to deposit their eggs. They usually spawn in the smaller streams not far above tidewater, or in the smaller tributaries near the mouths of the larger rivers.

Spawning does not begin in the streams until the middle of August, and the fry remain all winter, emerging from the gravel of their nest the next March or April, when they migrate directly to the sea at a length of about one inch. They remain in the sea for a year and a half and return to spawn at two years of age.

While at sea they grow to an average of three to eight pounds. An 11-pound pink salmon is considered record size. Thus the species is the smallest of the Pacific coast salmons.

It differs from the other species of salmon in having very small scales, even smaller than those found on the steelhead trout.

The name "humpback" is derived from the hump found on the back of the male while on its spawning grounds. A hooked snout, too, develops on the male as soon as it enters freshwater streams for spawning. The humpback is caused by the sudden formation of cartilaginous tissues between the back of the head and the beginning of the dorsal fin. The hooked snout results from rapid elongation of bones in its upper part.

For these and other salmon to be of commercial value they must be caught while on their way to the stream mouths before they enter fresh water. Their flesh loses its best flavor by the time the humpback and hooked snout have developed.

Only about 200,000 pounds of pink salmon were caught in the Pacific Coast States in 1934; nearly 300 million pounds were landed in Alaska that year. The fish is taken commercially in purse seines, haul seines, and traps. Since it does not take the hook like the silver and chinook salmon, it is not considered a game fish.

Chum, or Dog, Salmon

(Oncorhynchus keta)

The chum, or dog, salmon occurs from northern Japan to Alaska and southward to the Sacramento River (Color Plate XI).

Like fry of the pink salmon, the young go down to the sea immediately after they emerge from their nests and remain there until maturity. In their third to sixth year they return to the fresh-water streams of their birth to spawn and die. This migration occurs in Alaska from June to November.

At spawning time they have attained a length of from two to three feet and a weight of from 5 to 12 pounds, never more than 16 pounds.

The careful observer has little difficulty in distinguishing the sexes of breeding salmon and trout, for the breeding male is usually more highly colored than his mate and his body is compressed (sides flattened), while that of the female is more rounded. Usually the snout is somewhat hooked or arched in the male; that of the female is normal.

Experienced fish culturists are able to tell the sex of spawning salmonids by feeling them with their hands, the males having on the underside of the abdomen two hard ridges.

The chum salmon builds nests on gravel riffles of streams and deposits its eggs in a manner similar to that of other species of salmon and trout. Eggs and milt are discharged at the same time, and Nature has so beautifully co-ordinated each step in the breeding activities that the eggs, or ova, are fertilized the instant they are shed. Otherwise they would probably not be fertilized at all, for the current would carry the sperm downstream from the nest.

The chum salmon is not sought by sportsmen, since it does not take artificial lures or bait. The commercial catch is taken in traps, purse seines, and other nets.

The flesh is pale pink and, when canned, rather light yellowish. It is especially good for freezing, salting, and smoking, but is of an inferior quality when canned. In former years the chum salmon was not taken very extensively for commercial purposes, but in more recent times, for example in 1934, more than 73 million pounds were caught in Alaska and nearly 11 million in the States.

Photograph from Art French, Seattle Post-Intelligencer

LIVE FISH PERFORM A SUCCESSFUL PARACHUTE JUMP

To test the stocking of remote lakes by airplane, baby trout were dropped into Lake Washington, Seattle. Hatchery officials found that none was killed. Those recovered were uninjured. Subsequently, cans of fish were parachuted into an isolated mountain lake from heights of 150 to 1,000 feet. Strapped to boards "quilted" with cushions, the containers overturned when they struck the water and the fish swam free.

Dolly Varden Trout

(*Salvelinus malma*)

Like its nearest relative, the eastern brook trout, the Dolly Varden belongs to the charrs. These two species differ from other trout (*Salmo*) in having light spots on a darker background instead of black spots on a lighter background. Also they have on the sides of the body a few scarlet spots, which are never present in rainbows, cutthroats, or salmon (Color Plate XII).

Dolly Vardens occur from northern Japan to Alaska and southward to northern California. Throughout this vast area they inhabit the coastal streams, often going to sea as "steelhead Dolly Vardens" and growing to large size. In most Alaskan streams they occur in schools. They are found as far up as the headwaters of the Flathead River in Glacier National Park, and I have also taken them in the headwaters of the Saskatchewan River.

Fish measuring two and a half feet and weighing from 8 to 10 pounds are common, and some reach a weight of 20 pounds or more. Voracious feeders, they strike almost anything that moves in the water, living mostly on small fish such as salmon and trout. Because they prey on young trout and salmon, they are out of favor with sportsmen.

They will take lures, such as artificial minnows and spinners, and will rise to a fly. The flesh, which is delicious when properly cooked, is often of a pale pink color similar to that of the Yellowstone black-spotted trout (Plate IV). Thus both of these species are known in some localities as "salmon trout."

The Dolly Varden trout is an autumn spawner. The adults pair off over gravel riffles and build saucer-shaped nests in which the eggs and milt are deposited at the same instant. These are then covered, and hatching occurs some weeks later. After spawning, the large adults usually go back downstream to lakes or to deeper holes of larger streams and remain most of the year. The young, found in the streams in summer, feed on aquatic insects, worms, copepods, and other small animal organisms.

In the sea they feed voraciously on herring, anchovies, and other marine animals. They are caught in traps, purse seines, haul seines, gill nets, and by trolling. The total commercial catch for this species along the coasts of the three Pacific Coast States averages some 33 million pounds annually, with a value of $1,500,000 to $2,500,000.

King salmon are caught on spoons, spinners, dead whole herring or sardines, and other small fishes fixed on large hooks attached to wire leaders with sinkers that will carry the lure to considerable depths as it is trolled behind a boat.

Silver, or Coho, Salmon

(*Oncorhynchus kisutch*)

Along the coastal regions of the North Pacific, from Japan to Alaska and southward to Monterey Bay, the silver, or coho, salmon, average weight five to eight pounds, is taken commercially by trolling and in haul seines, purse seines, gill nets, and traps (Plate VIII).

The flesh, which varies from pinkish to deep salmon red, is canned extensively. About 20 million pounds are taken annually in the United States, the value of the catch ranging from a half million to nearly a million dollars.

Large quantities of the fish caught are quick-frozen and glazed, then stored in modern refrigerator plants, where I have seen them piled up like cordwood. As the market will absorb them, they are shipped to the East. Some coho salmon is smoked, or kippered, making a delicious product. Eggs or roe of this species are used in making salmon caviar.

Although the silver salmon does not grow so large as the king salmon, it is a little more gamy when caught on hook and line, usually making several long, swift runs and two or more leaps from the water. The king salmon does most of its fighting under water.

The life history of the silver salmon is much like that of the other Pacific salmons. Spawning occurs in fresh-water streams in late summer and autumn, the time varying according to latitude from August to December. In Alaska the migrations occur in summer. After a year or two in fresh-water streams, the fingerlings, then from two to four inches in length, migrate to sea, where they remain from one to three years. They come back in their fourth or fifth year to spawn.

The ages of these salmon, as of the other species, can be read with fair accuracy from their scales. During the growth of the scale permanent concentric rings are laid down in the material of which it is formed. In seasons of rapid growth these rings are spaced farther apart, but in winter months, when growth is slow or at a standstill, they are closer together and irregularly spaced. Thus each season leaves its record in the scale rings, much as the age of a tree is recorded by rings of annual growth.

Red, or Sockeye, Salmon

(*Oncorhynchus nerka*)

The red, or sockeye, salmon, also known as blueback salmon, is similar to the other Pacific salmons, occurring from northern Japan to Alaska and southward to San Francisco Bay, California. It averages about five pounds, with a maximum of twelve pounds, and a length of about three feet (Plate IX).

It is taken commercially in purse seines, haul seines, traps, and other nets, but not by trolling, since it rarely strikes bait. The flesh is deep red and, when canned, is of excellent flavor. Annually in the United States from 7,000,000 to 25,000,000 pounds are taken, with a market value of $500,000 to $1,500,000.

The sockeye differs from other Pacific salmons, in that its eggs are usually laid in streams tributary to lakes. The young, after emerging, descend to a lake where they live from one to three years, or occasionally four years, before migrating to sea.

In the lake they feed upon plankton, mostly copepods and cladocerans, and do not grow fast unless there is an abundance of food. They migrate to sea at a size of from two to seven inches and continue to feed on the animal organisms making up the oceanic plankton. Usually they stay two to three years in the sea and return to spawn in fresh-water streams in their fourth to seventh year.

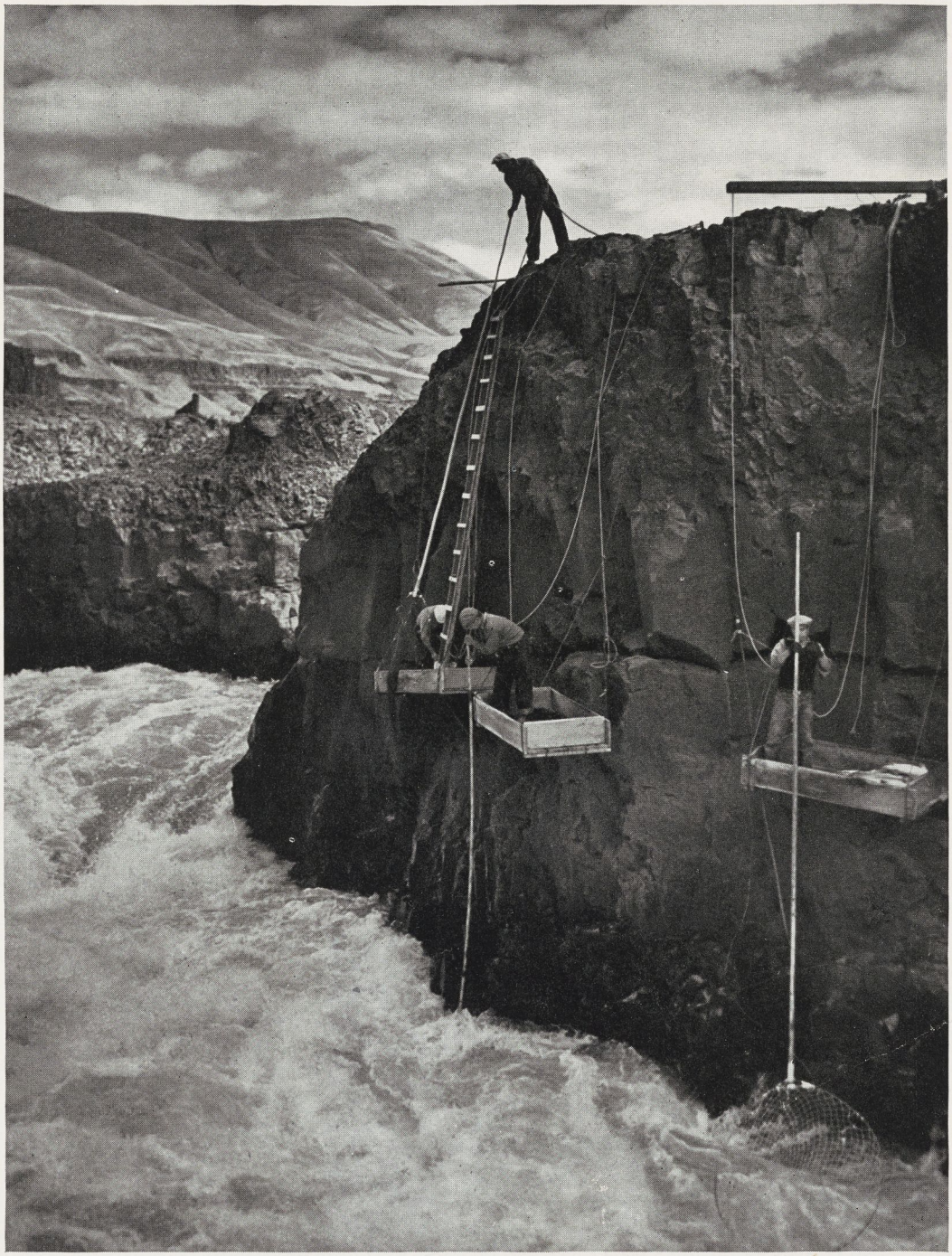
Some of the red salmon are landlocked in lakes, never going to sea, although they could. These landlocked red salmon, or redfish, just like their larger seagoing brothers and sisters, engage in normal nest building when unmolested by other fish.

The nests are continually changing, because after the female deposits a portion of her eggs she covers them with gravel, and, as she progressively excavates one or more new nests upstream, some of the excavated material of the new locations covers the eggs in the older nests—a real conservation of energy.

Both male and female defend the nest against invading fishes. Sometimes when an unwelcome male approaches, he is escorted away by the male owner of the nest. The defender will swim slowly toward the invader and, when a foot or so away, turn nearly parallel to him. The two then proceed slowly upstream for a few yards, before the invader either goes his own way or makes a dash for the nest. Should the latter happen, the escorting act may occur again.

If the invading male can drive away the original owner, he takes possession. Several males usually pair off with the female owner of a nest before she has laid all her eggs.

Courtship activities occur, too, as part of the breeding behavior of redfish. The male will often touch his head or snout to the female's body or move his body toward and against hers. Frequently the male will swim



Photograph from Three Lions

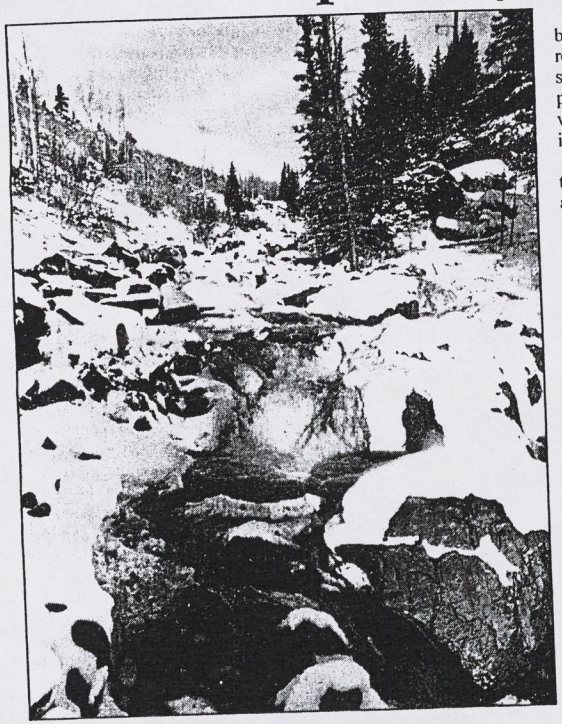
ROPED FOR SAFETY, INDIANS LIFT SALMON FROM THE ROARING COLUMBIA

The wide-mouthed dipnet is repeatedly swept down with the current until an upward-bound salmon is caught. Then the net is hauled up hand-over-hand to the fisherman's stand, firmly moored to the rocks. A big, fighting salmon sometimes upsets a fisherman's balance and would tumble him into the rapids were he not protected by ropes attached to his belt. The man silhouetted against the sky has let down a ladder to one platform and is about to pull up a catch. Several fat salmon lie in the box at the right.

TELLURIDE TIMES-JOURNAL
Telluride, CO
(San Miguel County)
Thu, 3,419
Colorado Press Clipping Service

85

Fisheries expert says hydro may help trout habitat



RIVER OF CONTROVERSY—This stretch of the San Miguel River that marks the beginning of Keystone Falls would be affected by construction of the much-debated hydro plant.
Times-Journal photo/Rob Huber

A Colorado State University fish biologist who has done extensive research on the San Miguel River says that a proposed hydroelectric power facility on Keystone Hill won't necessarily hurt fish habitat in the river.

In fact, Bob Behmke, a 28-year tenured professor of fishery biology at CSU in Fort Collins, says that the facility could actually improve fish habitat along the river's steeply-graded stretch at Keystone Hill.

"If you divert the water during the spring runoff, you can get quite good habitat for fish," Behmke explained in an interview this week. "Trout habitat can be greatly improved by controlling the stream flow."

Behmke was an expert witness on river biology during the settlement of the Superfund clean-up case against Idarado Mining Company, centered on tailings waste in the San Miguel River Valley. Local fly fisherman and Scott Fly Rod owner Steve Phinny has described Behmke as a "world-famous genius" and "well-known writer" on trout habitat.

This week, Behmke cited several hydroelectric projects on the Front Range that have been credited with increasing fish numbers by reducing stream flow during heavy spring runoff periods. The heavy flows are often too much for the fish to bear, Behmke said, but by reducing the streams' flow during spring, the hydro facilities have actually improved existing, and created new, habitat for fish.

Behmke said that there isn't much viable trout habitat on the upper reaches of the San Miguel River anyway. Aside from certain river stretches adjacent to the Town of Telluride — "The big meadow by town (the Valley Floor) is the best habitat," Behmke said — the San Miguel River doesn't provide any high-quality trout habitat until it reaches Placerville, where the Colorado Division of Wildlife maintains a stocked fishery and habitat area.

"The habitat deteriorates significantly on Keystone Falls because of the high gradient of the stream," Behmke said, "and the South Fork (Howard's Fork) has lots of sediment, so it's no good either."

Behmke discredited the claims of a CSU fishery biology graduate student interviewed by the *Telluride Daily Planet* last week; Don Proebstel, who studies biology under Behmke at CSU, told the newspaper that the proposed hydro facility could devastate "the entire San Miguel River aquatic ecosystem." Behmke said that Proebstel's statements have "no scientific basis whatsoever."

"There's no way to make accurate scientific predictions of what will or will not happen if the hydro project is built," Behmke said. "It's not a question of whether you will impact viable habitat, because that could be mitigated. It's a question of people's personal attitudes toward the project."

On Monday, Proebstel acknowledged that "the best trout habitat is along the town," but added that there are currently trout that live in the pools on Keystone Falls. Proebstel said that he and local fly rod company owner Steve Phinny caught several trout in Keystone Falls while fishing there last summer.

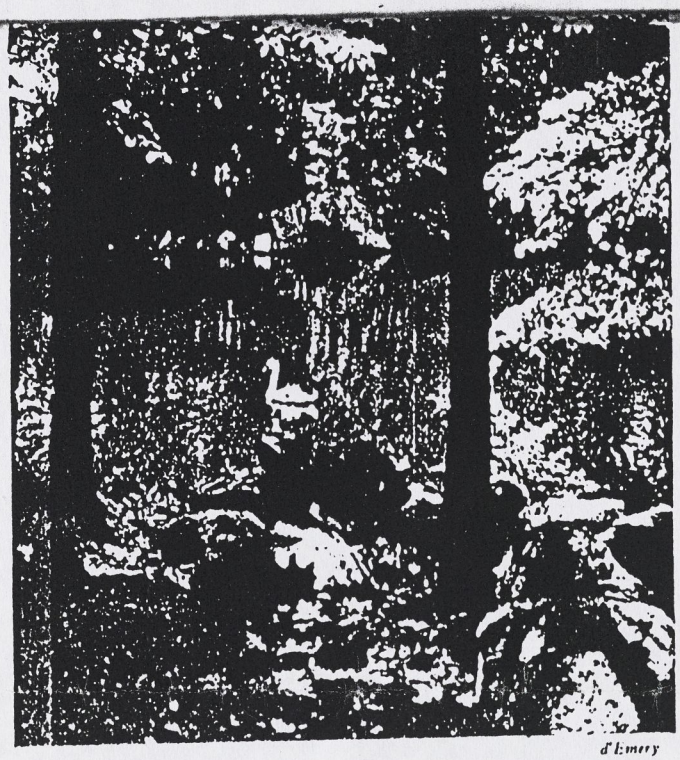
For Proebstel, however, the central issue surrounding the hydro plant is one of river conservation and aesthetics. "My real concern is what the valley looks like in 20 to 30 years," Proebstel said. "The important thing is to save the river. That's as big an issue as the power plant."

But Behmke says that opponents of the hydro project have an air of hypocrisy about them.

"It seems like there are a lot of fair-weather environmentalists in Telluride, like I've seen in Aspen," Behmke said. "They're saying, 'I don't want a power plant in my beautiful valley.'

"You've got a polarized situation in Telluride," he continued. "People get so emotionally involved, it's no longer a scientific matter."

— by Matt Lewis



d'Emery

Pigs to Paradise

Cecile Hulse Matschat

This is the story of a house in which guinea pigs once lived. Row upon row across the rooms, their cages lined the walls. In the kitchen bees hummed and buzzed—busy at homemaking. Chickens, large and small, occupied the cellar. Shabby and weatherbeaten, the shanty stared through tiny, dirty windows across an old weed-grown garden, the only living flower a Persian lilac placed there years and years ago. Below the weedy garden to the west lay a chain of lovely lakes; to the north and east the woods rose steeply toward the encircling hills. That was "Old Hickory" when Mr. and Mrs. G. Frederick Thompson discovered it fourteen years ago.

The Long Ridge section of Stamford, Connecticut, may boast of many beautiful estates, but of none with a more fascinating history. The house was built some time previous to 1770 and apparently had been deserted as a residence long since by the original owners. The last occupant, the almost centenarian wife of a Civil War veteran, lived there alone from choice, she said, with dozens of squealing, beady-eyed guinea pigs because "they are so much company." Through the years the wilderness had crept, unchecked, almost to the very door. There the wild birds nested in security and swans mated and raised their young on the lakes.

Mr. and Mrs. Thompson fell so much in love with the natural beauty of the place that they decided to buy it without regard to the condition of the house. They determined to restore it with a minimum of alteration, and use it for a summer home only. But as time went on and each season brought discoveries of new beauties their length of occupancy increased, until eventually the town house was abandoned and "Old Hickory" became the permanent home. Inside, both upstairs and down, partitions were removed between some of the smaller rooms; a fireplace was built of field-stone, using as a key-arch a magnificent stone found on the place. The kitchen was enlarged, a dinette and a den added. Electricity, water, and a furnace were installed. Windows which occupy two thirds of the front wall space were cut in. New underpinnings and new paint were necessary. But such things as wide old pine and oak floor boards, batten doors, and hand-hewn rafters were restored to their original beauty. New screened sleeping and living porches were built; and the exterior finished with stained shingles. Then the real work began.

[*Please turn to page 263-m*]

From the kitchen one steps to a tiny flagged terrace between the house proper and a high retaining wall built against the steep hillside, beyond which is a forest of oak, maple, evergreens, white birch, elm, ash, tulip, and the hickory trees which lend their name to the estate. Dorothy Perkins roses, spiraea, and weeping forsythia are trained to form lacy patterns over the gray wall; beds of gay annuals are at its feet. In a shaded spot beneath the windows a large bed of lilies-of-the-valley perfume the air.

Looking back toward the house from a narrow strip of land which lies between the high cliff and the water, we glimpse amid the trees a smaller, modern building which houses the chauffeur's quarters and the cars. Green lawns slope gently toward the lake, its shores heavily fringed with trees and flowering shrubs. More than five hundred of the latter are grouped about the grounds—a far cry from the lone lilac of yesteryear. A magnificent purple beech casts flickering shadows on the grass. Dogwoods, Japanese crabs and cherries, weigelas, and Hugonis roses flank the drive, vying with each other in pleasing bursts of bloom. Reminiscent of New England days, the old stone walls which form the boundary—now all too seldom seen—add an air of peace and seclusion.

We follow the little winding path along the lake shore and soon come upon a veritable blaze of color—a rock garden whose fame brings visitors from far and near. This is Mrs. Thompson's own personal interest, designed and planted by herself. A little farther down the woods road may be seen another rock garden, where tones of rose, gold, and green blend softly into cool gray rocks with evergreens for accent. A friendly rivalry exists between husband and wife, as this is Mr. Thompson's pride and joy. But to return to our colorful garden. As in the famous quarry gardens of Bermuda, the cliff, rising to a height of about thirty feet, has been used as a natural base for the rockeries. Mrs. Thompson has planted annuals among the alpines, so that mid-summer and autumn bloom are as colorful as that of spring. The interstices of the cliff are filled with saxifraga, sedums, cactus, and other plants of like type. A winding border of purple and white iris, and scarlet, pink, yellow, white, purple, and lilac tulips edge the rock garden and path to the forest. Weeping forsythia, white lilacs, and kal-

LORI'S HOUSE
1 MILE
WATER FALL
STREAM

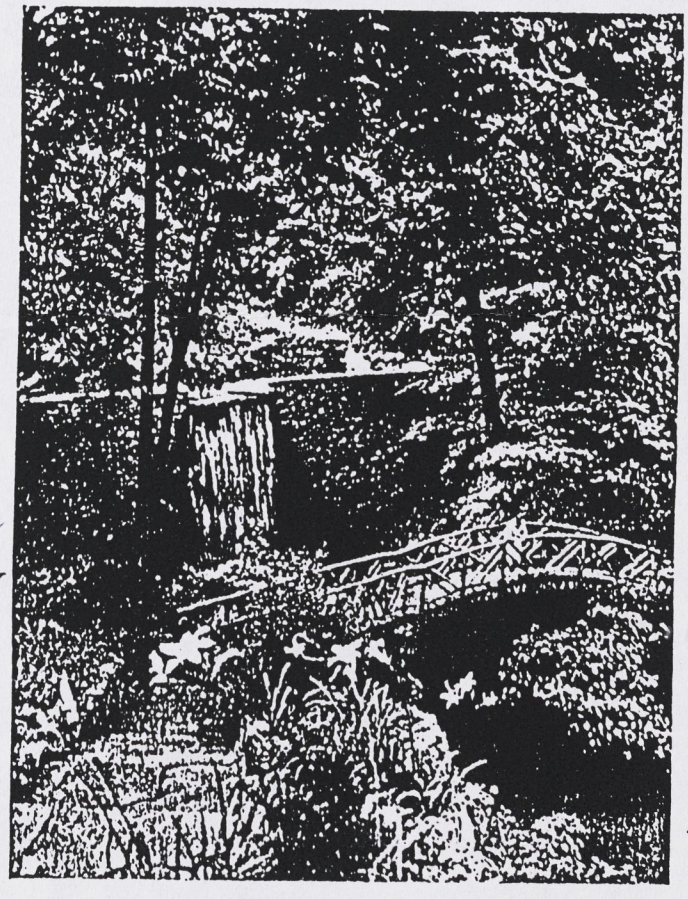
A far cry from the original "old hickory" is the present dwelling above. Below: the dam and rustic bridge over the lower pond

mia are planted on the cliff top, and wild flowers, including native orchids, are scattered through the woods. Stepping stones lead down the face of the ledge to the green and gold garden.

Beyond the green garden is a tiny cabin, originally the chicken house, which is used as a household retreat.

The woods path continues along the shore of the lake and then on through the woods of the adjoining property. The lack of visible boundary lines adds much to the natural beauty.

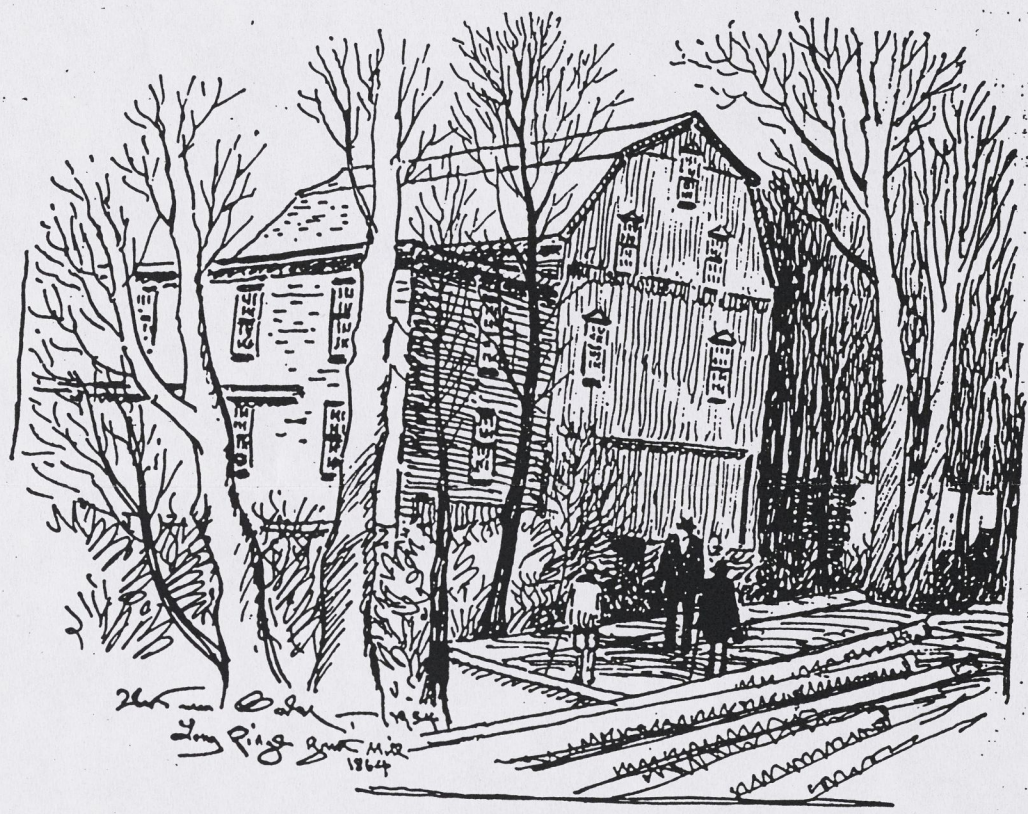
Mr. Thompson, as well as his neighbor, has planted more than a hundred baby pines and weeping willows along the water front. Rustic tables and benches have been built for use in outdoor picnics. This section of the grounds overlooks an old mill, still in its original state, on the neighboring place; below the dam a rustic bridge has been thrown across the lower pond. To one standing here, or on the spillway, and looking up the lakes, nothing meets the eye but an ever-narrowing vista of trees, sky, and placid water.



The bad thing is since it used to be one property — they have to share the driveway in picture But own about an acre + 1/2 long ways — up a steep Rock Hill —

this is Also Lori's it's still in good shape the real estate Agent called it a guest house

Old Grist Mill At Long Ridge



The Stamford Advocate, drawing from its files of pen cil sketches by the late Artist-Historian Whitman Bailey, is republishing Mr. Bailey's sketches together with the historical background written by Mr. Bailey.

March 20, 1954.

One of the most interesting old grist mills standing today in this section of Connecticut is that at Long Ridge, built by Aaron T. Smith, in 1864.

It is now situated on the present property of Mr. and Mrs. Anthony Anable whose charming home of early date stands close by. The Anables have taken delight in the preservation of the historic mill so that it can be a meeting place for historians and community organizations. History states that the builder of the mill, Aaron T. Smith, had two sons who shared the business with him up to the year 1887 when both the mill and property were sold to F. S. Cook, and later to Daniel Fallon.

It is said that George Dutcher was next to follow, and who had a rather quaint wagon drawn by two mules, one being black and the other white. On his various trips about the countryside, photographers would always wait for a close snapshot of Dutcher and his two mules, as an interesting subject for exhibition pictures.

Even to this day one can see the waters of "Branch Brook" as it is called still tumbling over the old dam, which is noted in the artist's sketch on the extreme right of the picture. The entire scene recalls that early simple New England life now gone forever.

Whitman Bailey

Chapel shared life with woman

OUR PEOPLE

ANGELA CARELLA

Olive Behnke remembers Stamford's South End as few people can.

She was born there in 1901, when her father worked at Yale & Towne Manufacturing Co. and was a volunteer at the South End Firehouse. She remembers the fire bell in her family's kitchen and the horses that pulled the fire engine.

"There was a great big loft upstairs in the firehouse where they kept the hay," said Olive, now 89 and still living in Stamford. "Many a time I slid down the pole. And they had shoeshine chairs there. I went every Saturday to have my shoes polished for church on Sunday."

She remembers the trolley cars that ran down Pacific Street and what a danger they could be to the chickens her family kept in the yard.

"Every now and then a chicken would get out and get hit by a trolley car," Olive said.

Her father worked at Yale & Towne — "the only place you *could* work then" — and struggled to make his wages feed and house his wife and six children. He couldn't afford to buy a house so the family rented apartments.

"We lived in an apartment that had no bathroom," said Olive, who was the oldest child. "It was my job to see that everyone went to the outhouse. My mother would say, 'Take the children outside before it gets too dark.' In the outhouse there were holes — different sizes for different bottoms," she said, laughing.

She remembers being a student at Henry Street School and having as her classmates the children of immigrants — German, Polish, Greek, Russian, Hungarian and English — who'd come to Stamford to work at Yale & Towne. She remembers "a wonderful bakery around the corner — you could smell it everywhere," and "the Wild West circus that would come and set up in a lot on South Pacific Street."

Most of all, she remembers the Chapel of St. Luke, which was the center of her neighborhood and the center of her life as she grew up in the South End just after the turn of the century.

St. Luke's began as an outreach program of St. John's Episcopal Church to serve the families of Yale & Towne workers. Its purpose was to "care for the aged, sick, infirm, homeless and orphans." This year St. Luke's celebrates its 100th year and Olive Behnke her 90th. Their histories intertwine.

Olive was baptized in St. Luke's and confirmed there in the Episcopal faith. She attended Sunday School there, joined the Girls Friendly Society and sang in the choir. When her family needed a place to live, St. Luke's put them up in the Ferguson Memorial Building for six months while her father searched for a new apartment. From the Ferguson building, St. Luke's provided hospital services and neighborhood programs for anyone who needed them, regardless of religion or nationality.

John Gastaldo/Staff photo

Olive Behnke, 89, remembers the events in her life as they relate to The Chapel of St. Luke in the South End.

"It was used by people who had no place to go," Olive said. "There was a girls' home and a place for elderly people. A nurse from St. Luke's used to visit and find out who was sick in the neighborhood. And, I remember, during the Russian Revolution some of the refugee dukes and duchesses were there. The little chapel on South Pacific Street was always full."

Many in St. Luke's congregation were new to Stamford. They'd come to the United States looking for work and found it in the large manufacturing plant on the city's South End.

"I remember when Yale & Towne brought a lot of chain makers from England, and they all settled on Ludlow Street," Olive said. "All the families knew each other — grandmothers, grandfathers and kids. We were friends."

Downstairs in St. Luke's Ferguson building "there was a big gymnasium — all the boys would meet and play basketball. There was a room upstairs with a pool table that was a men's club. There was an auditorium with a stage and we would have all kinds of theatricals."

Some of the memories still make her laugh.

"One day, when I was in the choir, the boy that pumped the organ fell asleep," Olive said. "There was no wind in the pipes. So when the organist started to play, nothing happened."

In 1923, at age 22, Olive married and she and her husband moved to the Bull's Head section of Stamford. She had three children and took bookkeeping jobs at Yale & Towne and then at Angevine's Furniture. But she kept her ties to St. Luke's, teaching Sunday School there and remaining active in the Women's Auxiliary.

When her mother died in 1955, Olive took over her work of caring for the altar in the chapel. And it was while peeling potatoes for the Auxiliary's annual Christmas dinner that Olive learned President Kennedy had been killed.

About that time, 1963, St. Luke's closed. The old families of the South End, once the city's immigrants, were gone.

"There weren't enough people coming any more," Olive said. "The whole community had changed."

But St. Luke's soon changed with it. In 1966, it opened a summer youth program. In 1972, an ecumenical program, St. Luke's Community Center, was established. In 1977, it started a program for Spanish-speaking people, the South End's new immigrants. In 1986, it opened a shelter for homeless families, a summer camp, a meal program and after-school programs. Since then it has begun to serve persons who suffer from mental illness and persons with AIDS.

Olive Behnke, now a widow with six grandchildren and three great-grandchildren, still comes to her old neighborhood in the South End every Friday to share a fish dinner with friends at St. Luke's. She said she misses going to church there but she's proud that it still serves people who need help, no matter their race or creed.

She still keeps the medal she got for attendance in St. Luke's Sunday School, and the one she got at age 12 from the Girls Friendly Society that reads "Bear Ye One Another's Burdens."

"St Luke's has been my whole life," Olive said.

□□□

If you have a friend, neighbor or relative who has an interesting story, drop a note to Angela Carella, The Advocate, 75 Tresser Blvd., P.O. Box 9307, Stamford, 06904 or call her at 964-2296. Carella's column appears every Monday in Panorama.

Value/**Georgette (7)**

rnie Bernie	1-6-1	H. Filion	4-1
azing Dayan	1-1-4	J. Clouser	6-1
rivate Account	2-5-1	B. Berlanger	6-1
hanas Action	7-3-8	R. Ringler	10-1
hocking Blue	8-1-4	E. Hart	10-1
xfrd Hill Jff	2-1-3	R. Cormier	AE
Romeo Lxmnt	2-2-1	D. Jacobs	AE

TH: Conditioned Pace. Purse $6,000.

Georgette	1-1-7	K. Lare	7-2
Sues Misty	5-5-4	D. Dancer	5-1
Sapphire Leebrk	1-2-1	T. Wing	3-1
Hey Dais	2-2-2	G. Mosher	8-1
Liz Dahrlin	1-5-3	H. Filion	4-1
Yankee Rose	1-3-2	R. Cormier	6-1
Teddy Alert	8-4-3	W. Case Jr.	12-1
Cerrys Frtne	8-3-1	R. Wojcio	10-1
Defs Sweethrt	2-6-6	No Driver	AE
Trnquil Irnstne	4-3-3	S. King Jr.	AE

Conditioned Pace. Purse $5,000.

Secretariat	2-1-1	W. Case Jr.	3-1
I Beeline	1-1-5	D. Daley	4-1
a Scoot	5-3-3	B. Borden	6-1
Braces Stick	3-2-4	J. Ricco Jr.	8-1
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st Coincidnce	6-6-8	R. Wojcio	10-1
e Day	2-2-3	J. Marsh Jr.	6-1
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onditioned Pace. Purse $4,000.

oopdjr Bluegrss	3-7-1	J. Marsh Jr.	4-1
lectric Fran	7-1-1	M. Forte	5-2
ermuda High	3-1-1	V. Fusco Jr.	10-1
nne Armor	2-3-6	R. Schnittker	6-1
hats Nu	4-4-3	H. Filion	6-1
lices Wonder	5-2-6	D. Daley	8-1
ane O	2-1-3	T. Wing	5-1
Deep Trouble	10-9-9	D. Dancer	10-1
Dottys Flame	7-5-8	J. Ricco Jr.	AE

Conditioned Pace. Purse $6,000.

Fill The Pckts	9-8-7	J. Tremblay	6-1
Father Foley	2-1-1	F. Weinkauff	5-1
Brock Hnvr	2-2-2	R. Wojcio	3-1
Thinkikan	6-2-3	R. Greco	8-1
Expeditor	5-2-3	K. Lare	6-1
Persian Lobell	3-5-7	W. Case Jr.	5-2
Dangifino	6-5-7	R. Ringler	8-1
Carrollcade	7-8-8	B. Belanger	10-1

NTH: $10,000 Claiming Pace. Purse $3,500.

Phillip Roger	8-2-4	R. Wojcio	4-1
Patoot	5-4-3	R. Poulin	5-1
Crackshot Matt	6-2-3	D. Irvine Jr.	3-1
Bye Bye Romeo A	7-3-4	J. Guarino Jr.	8-1
Ir Magic	4-3-6	H. Filion	10-1
imJam Mgc Man	2-3-3	W. Palmer	5-1
Apatnthebck	7-7-6	W. Case Jr.	4-1
Freds Mr Ed	7-3-8	G. Mosher	8-1
Saint James	4-6-7	J. Grasso	AE
Say Say Say	6-3-4	C. Abbatiello	AE

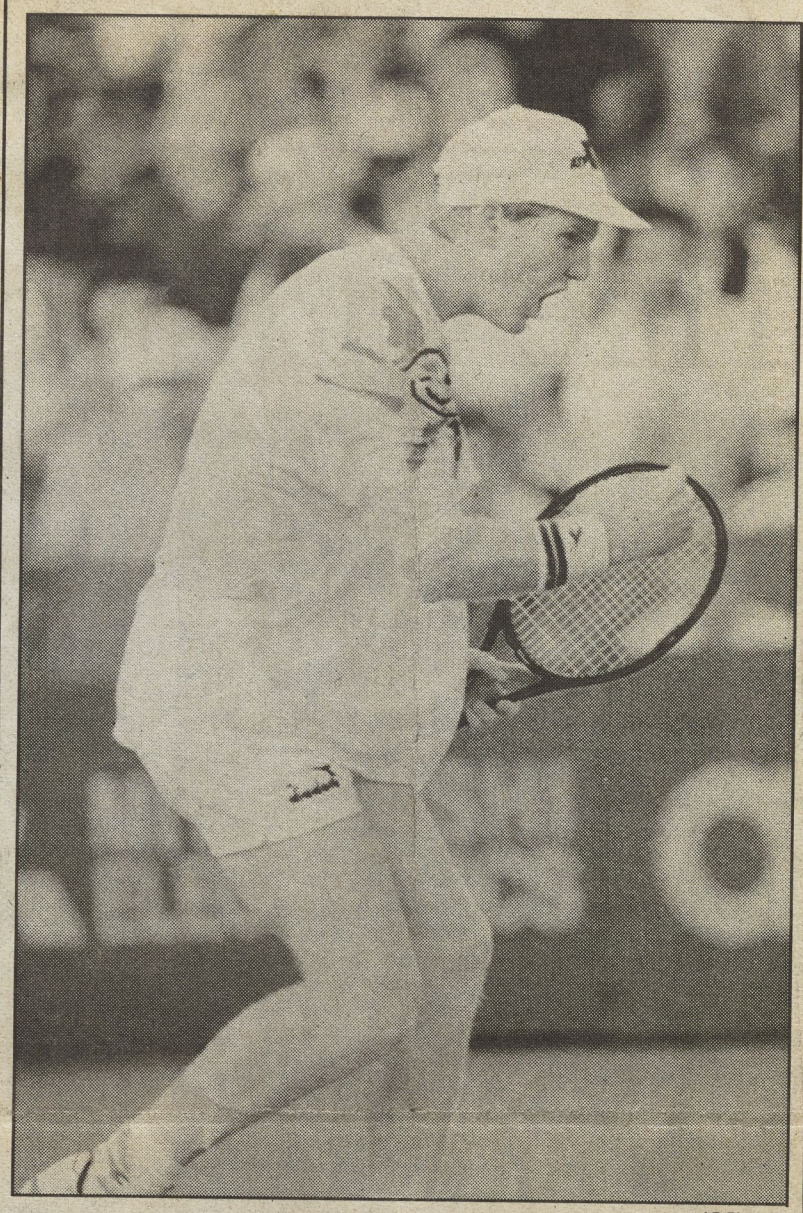
t Value/**Mamora Bay (6)**

well for hot barn; well-suited to one pen-company maiden claimer and dily. **My Mother Was** turned in ens in latest, and would need some **ausin Confusion** recovered from inst an extreme speed bias in debut. es closely here at a shorter distance. d to imagine that she'll carry it 7 on 2-of-last-3 at this grade and has to be close; needs careful rating. ring surface in latest and will be in RACE: **Mamora Bay** ships in vithout Lasix. **Morning Workout** nd distance over the track. **Down** ed to second pick in latest.FIFTH and last was best closing against the mile suits. **Aly Chic** is a well-bred . **Avian Eden** displayed improve- al distance.SIXTH RACE: **Code** the distance; might do with today's to conditioned claimers. **Sweet** e on best. SEVENTH RACE: **Mr.** nce stretching out to routes over the placing in one-turn mile. **Scared** training smartly and could upset if rack last out and missed to top pick ing better in Maryland and ships in fter smart win over the track with after facing top local competi- digree and meets a weak field of ing steadily; should benefit from t Gulfstream, but could figure in

Chic	ACrdro	121	10-1
lvation	J A Krone	121	4-1
incess Serenity	ALGlpi	114	4-1
orld Change	JRVlzqz	121	4-1
cknntreat	JLSamyn	121	6-1
ian Eden	ALGlpi	114	4-1
nk Noise	MESmith	121	2-1

e. F&M. 4YO & Up. Clmg. L $25,000-$20,000. 00.

untiful Pleasure	NJ	113	8-1
sserida	J Chavez	113	3-1
ofight	A Dentici	108	10-1
ode Three	MESmith	117	2-1
weet Virtue	ALGlpi	106	6-1
annie's Thunder	ACrdro	113	6-1



AP Photo

Jim Courier roots himself to a 4-6, 6-3, 6-4 win over David Wheaton in the finals of the Players International Tennis Championship yesterday.

Courier captures Players' final

By Jim Martz
Knight-Ridder Newspapers

KEY BISCAYNE, Fla. — With the force of numerous 110-miles-per-hour serves, Jim Courier demonstrated again yesterday that he belongs in the wave of young American players bashing their way to the top of men's tennis.

Andre Who? Pete Whatever? Michael What's His Name?

And David Wheaton showed he may be only a step behind.

With Andre Agassi, Pete Sampras and Michael Chang long gone from the tournament, longtime pals Courier and Wheaton pounded away for 2 hours 9 minutes of slam, bam tennis before Courier pulled out a 4-6, 6-3, 6-4 victory to win the Lipton men's championship before a sold-out 12,614 at the International Tennis Center.

For Courier, the title was his second consecutive on the IBM/ATP Tour as he extended his winning streak to 12 matches. In today's new computer rankings, he will jump to No. 9 from 18. Agassi is fifth, Sampras sixth and Chang 12th.

"I've known I could do it all along," said Courier, a 20-year-old from the small town of Dade City near Tampa. "It's just all coming together now. I can't explain why."

Winner of $130,785 at Indian Wells, Courier pocketed another $179,000 to boost his career earnings past $1 million.

And what will he do with it?

"Put it in the bank and let it roll over," he said.

For Wheaton, a 21-year-old from Minnesota, the loss was a bittersweet end to a remarkable week that will move his ranking from 46 to 23.

He entered the tournament 0-4 for 1991 with losses to Andrei Cherkasov, Brad Gilbert, Mats Wilander and Martin Jaite. At Lipton, he upended third-seeded and defending champion Agassi, 6-0, 7-5, and top-ranked Stefan Edberg, 6-2, 7-6 (8-6).

"There's a lot of pain in my stomach after a loss like this," Wheaton said. "But I did have a great week."

He said received a bigger shock than

Knights drenched in rainy WLAF opener

By John Jeansonne
Newsday

BARCELONA, Spain — The rain in Spain fell mainly on the World League of American Football's cultural experiment last night.

Pouring, drenching, biblical rain; unyielding cats-and-dogs rain. It was cold, too. A windy, raw, 40-degree cold.

Yet the WLAF somehow got 19,223 to come out to Estadi Olimpic de Montjuic, and a 19-7 victory by the home team Barcelona Dragons, over the New York-New Jersey Knights, had them chanting, singing and asking if their Dragons (they pronounce it "Dra-gones") might win the first league championship, now only 11 games away.

"One at a time," Dragons coach Jack Bicknell, the former Boston College coach, was quick to inform the locals.

That American cliche translates as *una a una*. But Bicknell's players, every bit as American as the Knights' players, were giddy over their reception on opening night, adjourning to their locker room raucously singing what they had just picked up from the chanting crowd.

"We got it down," said the Dragons' Bruce Clark, the onetime Penn State and New Orleans defensive lineman. "Ole, ole-ole-ole, O-le, O-le. . . ."

The football? Middle-level college, early-season bumble. But it was monsooning, after all.

And former Rutgers quarterback Scott Erney did throw a lovely 43-yard touchdown pass to former Fresno State receiver Gene Taylor for Barcelona in the second quarter. The scene? European-soccer boisterous, rock-concert curious. With a lot of empty seats. But it was storming to beat the band.

Ah, yes; the band. The WLAF brought over 80 of the 180 members of Central State University of Ohio's Marching Marauders — that's all the new league could afford — and the swaying, prancing, jiving, high-stepping, jazz-and-funk show was what made the price of admission worth it to the locals. At $10 to $15 a ticket, the band alone was a bargain, compared to going prices of $45 for soccer games here, and $25 for basketball.

One of the WLAF's ballyhooed breakthroughs — the quarterback's helmet-implanted radio receiver that would allow him to hear his coach call plays and eliminate arm-waving signals — "didn't work from the get-go," Bicknell said. "I don't know if it was the weather or what. I hate to be a guy who doesn't believe in modern things, but we had our signals ready, just in case."

Anyway, the crowd, huddled under umbrellas and the Montjuic upper-deck overhang, did not know or care about helmet radios. They got free Dragons-vs.-Knights posters just by walking in the gates, plus the promise of a free ticket to the next Dragons' home game, against Orlando in two weeks.

They bought sausages and Coke and beer and bottled water and cigarettes at the concession stands, as well as the first game programs ever produced in Spain.

Anyway, there was no soccer in town last night. Both F.C. Barcelona, which would have drawn from 80,000 to 90,000 in such a rainstorm, and Espanola, the city's other first-division professional soccer team, were playing on the road, their action available only on pay TV.

So, with nothing else for this young sports crowd to do in the early evening — the game was over before 10 p.m., plenty early to still go out to dinner in this late-night city — they came to see American football and its trappings. They added, themselves, a few flares in the stands, as soccer crowds traditionally do.

Funny. With all that rain, the only guy who left looking like a drowned rat was Mouse Davis, the Knights' coach who lamented the "conditions" that hampered his "run and shoot" offense. That fit. In Spanish, there is no word for mouse. The closest thing is raton — rat.

Woosman captures USF&G Golf Classic crown in playoff

By Bob Green
Associated Press

NEW ORLEANS — For a moment, Ian Woosnam said, he had visions of a replay from last year.

"I thought the same thing was going to happen to me that happened to Greg (Norman)," he said.

But the 5-foot, 4½-inch Welshman ducked Jim Hallet and went on to gain his first American PGA title in a two-hole sudden death playoff yesterday.

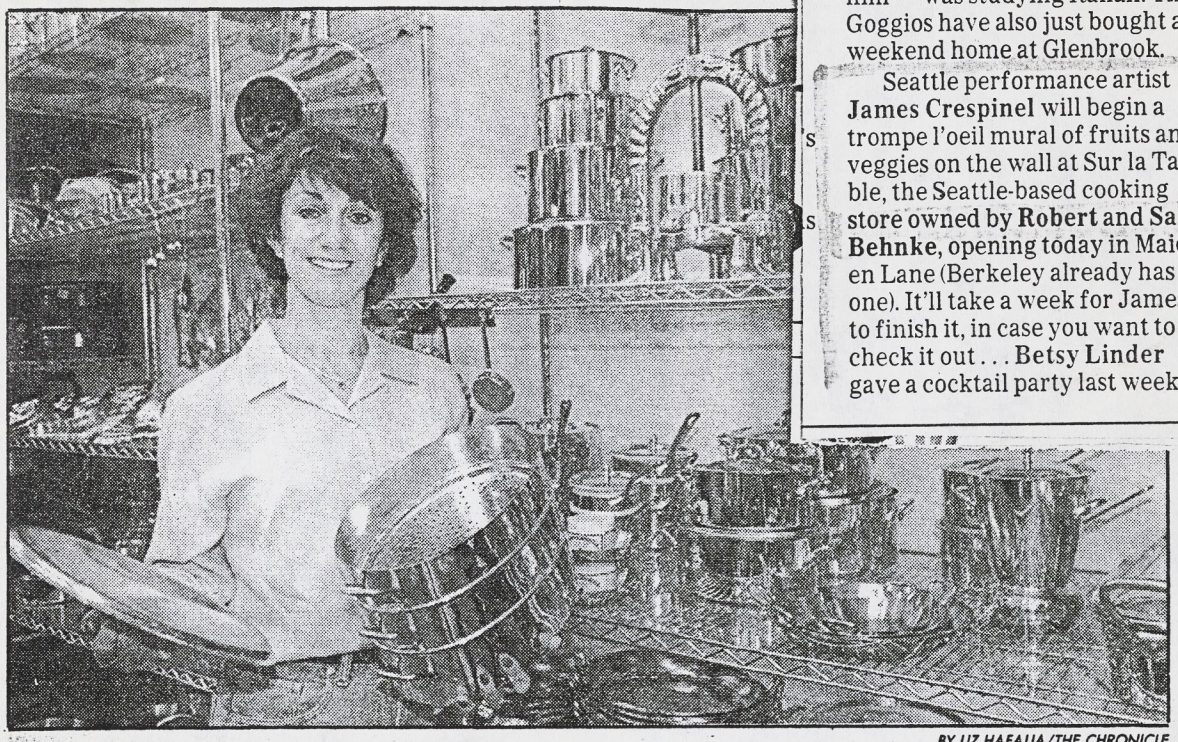
Woosnam, a relatively unknown quantity to the casual American golf fan but a bone fide world-class player of the first rank, said the victory should help him toward his ultimate goal — recognition as the best player

WED. DEC. 4, 1996

★★★

months at a villa in Florence. The Goggios were joined by ex-local **Vincent Friia**, who — in case you wondered what happened to him — was studying Italian. The Goggios have also just bought a weekend home at Glenbrook.

Seattle performance artist **James Crespinel** will begin a trompe l'oeil mural of fruits and veggies on the wall at Sur la Table, the Seattle-based cooking store owned by **Robert** and **Sally Behnke**, opening today in Maiden Lane (Berkeley already has one). It'll take a week for James to finish it, in case you want to check it out . . . **Betsy Linder** gave a cocktail party last week-



BY LIZ HAFALIA/THE CHRONICLE

COOKING WITH COPPER: Renee Behnke will open the San Francisco Sur la Table tomorrow

Table Is Set in Maiden Lane

Adults need toys, too, and for many serious cooks there's no better toyland than a store brimming with pots and pans, knives and kettles, ricers and ramekins.

So the opening tomorrow of Sur La Table on Maiden Lane couldn't be better timed than this week, the first of the holiday entertaining season.

This high-end cookware store, which originated in Seattle's Pike's Market, first expanded south with the opening a little over a year ago of Sur la Table in Berkeley's Fourth Street shopping hub. The downtown San Francisco branch is the fourth (a Kirkland, Wash. store was launched this summer) in a planned expansion of two or three new stores a year.

Displaying a staggering 12,000 items (they say so — we didn't count them), the two-level store also boasts a 800-square-foot cooking-school area with green-washed cabinets and exposed brick, equipped for television filming.

On the main floor, a shimmering display of the store's signature copperware is centered by a stunning thousand-dollar duck press.

Sur la Table owner Renee Behnke suspects that people buy these presses as decoration rather than for actual use. But the store also stocks fine table linens, pans and molds for baking, and just about every utensil for the hands-on cook, from stocking-stuffer sugar dredgers and crab crackers to decorative cornichon slicers. There are exquisitely crafted Swiss Springerle plaques, an aluminum couscoussière, electric raclette irons and a state-of-the-art, $495 Magic Mill mixer by Electrolux (as in vacuum cleaners).

This Swedish import, which can handle up to 10 pounds of flour in a dough, will be featured in upcoming demonstrations.

Sur La Table, 77 Maiden Lane (second block off Union Square); (415) 632-7900. Open 10 a.m. to 7 p.m. weekdays, starting tomorrow, noon to 6 p.m. Sunday.

— KAROLA SAEKEL

Study of rare, endangered trout conducted by biologist at CSU

By CARL WALTER
Of The Coloradoan
(Last of two parts

Agriculturalists have learned to develop crop strains adapted to different environments.

The same thing happens in nature.

Populations of the same species, living under different conditions, evolve differently. They adapt to their environments, forming subspecies, says Robert Behnke, associate professor of fisheries biology at Colorado State University.

BEHNKE IS associated with the Colorado Cooperative Fisheries Unit at CSU and is employed by the U.S. Bureau of Sport Fisheries.

His duties are to find, study and classify rare and endangered species and subspecies of trout. He also provides information about the fish to government agencies concerned with their protection.

"A very slight difference can result in a very big difference as far as fisheries management goes.

"Among the cutthroat you get a tremendous amount of diversity" — examples of "intraspecific variability."

THE USE of these diverse strains, or the development of new strains, could become an effective method in fisheries management, he said.

Failure to recognize intraspecific variability spelled disaster for the Lahontan cutthroats of Pyramid Lake, Nev.

Probably the largest trout native to western North America, the Lahontans probably reached maximum sizes of 40 to 60 pounds, says Behnke. In 1938 — the last year of its existence in Pyramid Lake — the average weight was 20 pounds.

The Pyramid Lake subspecies became extinct during the late 1930s after its spawning stream was dammed.

"ABSOLUTELY no effort was made to save that subspecies."

There was another population of what people believed were Lahontan trout in Heenan Lake, Calif. These fish were stocked in Pyramid Lake after the original population died out.

... But the maximum size trout caught in Pyramid Lake today is about 19 pounds — less than the average weight caught in 1936.

An unnoticed hereditary difference between the original Lahontans and the Heenan Lake fish made the difference, says Behnke.

NATIVE TROUT in the other western states, including Colorado, have faded or disappeared along with those in Pyramid Lake.

"I'd say 99.999 per cent of all the trout in Colorado are transplants."

Four cutthroat subspecies were found in Colorado when the pioneers came west. They were the greenback cutthroat — once dominant in the Poudre River — the Rio Grande cutthroat, the Colorado River cutthroat and the Yellowfin cutthroat of Twin Lakes.

OF THOSE native subspecies, one is extinct and the other three are "extremely rare."

The Yellowfin of Twin Lakes was wiped out by 1906.

"On the whole Eastern Slope, there is only one stream where you can get native trout, and nobody fishes that stream."

The stream is a tributary of the Poudre. The fish are greenbacks, once native to the South Platte and Arkansas rivers and the Poudre from its headwaters to Greeley.

GREENBACKS WERE once thought to be extinct. Then, in 1969, a pure population of about 100 greenbacks was discovered in an unnamed tributary of North Boulder Creek of Boulder County.

The stream drops 500 feet in half a mile before joining North Boulder Creek. Behnke believes the stream's drop and swiftness created natural barriers, isolating the greenbacks from other trout.

The greenbacks were introduced into the Poudre River tributary, located up Poudre Canyon, in 1970 after a population of stunted brook trout was poisoned out.

BEHNKE SAID later observations indicated the transplanted greenbacks are doing well in their new home.

Recently, the U.S. National Park Service began consideration of plans to restore greenbacks in part of the Fall River or Hidden Valley in Rocky Mountain National Park.

However, the greenback is a "fragile" fish and would not survive if left to mingle with other fish, says Behnke. It has difficulty competing and hybridizes easily with other trout.

"BY NO stretch of the imagination would I try to 'push' the greenback."

One fish Behnke would 'push,' however, is the native Snake River cutthroat found in the Snake below Jackson, Wyo., to the Idaho border.

Colorado's native greenback cutthroat trout

Despite massive introductions of non-native trouts into its waters, the Snake River cutthroat is the only interior cutthroat to remain dominant in its native range.

AT ONE POINT, where the cutthroat's territory meets the territory of a second native cutthroat, the fish continues to maintain its separateness — refusing to interbreed with the second subspecies.

In 1968, about 26,000 Pikes Peak cutthroat and 24,000 Snake River cutthroat were introduced into North Michigan Lake, Jackson County, Colo.

However, last year the Snake River subspecies totaled 86 per cent of the cutthroat caught in North Michigan Lake.

DESPITE THE higher catches of the Snake River cutthroat, net samples from the lake indicated the Snake River population was increasing.

And the Snake River cutthroat's ability to survive extends to poorer habitat, noted Behnke, who described the fish as "very adaptable."

Six lakes on Indian reservations in New Mexico and Utah were stocked by the U.S. Bureau of Sport Fisheries and Wildlife with the Snake River cutthroat and rainbows.

THE LAKES are warm and shallow, reaching a high temperature of 78 degrees. However, samples from the lakes showed the cutthroats have a "strikingly higher survival advantage" over the rainbows, says Behnke.

The Snake River cutthroat's ability to adapt and survive is an indication of the uses native trout can be put to in fisheries management.

The "intraspecific variability" of native trout must be preserved as a "dwindling natural resource," says Behnke.

ONCE NATIVE populations are found and identified, "the greatest threat to their survival centers on land use practices," noted Behnke in recent publication.

"I have observed many examples where native trout have held their own in virgin habitat only to be completely replaced by non-native trouts after habitat degradation."

The effects of mining, logging or grazing can be pollution, loss of cover, erosion, siltation and rise in water temperatures, destroying native fish if not properly controlled, Behnke said.

FOUND. Black male Poodle, no collar or tags. Vicinity: 647 South College. 482-3525; 493-3837 evenings.

LOST: IRISH Setter, male, 5 months old. Lost January 24. Reward! 484-9201

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Robert Behnke measures cutthroat trout

Explains fishery biologist

Variances of species important to fishermen

By CARL WALTER
Of the Coloradoan
(First of two)

"A rose may be a rose to most people," but not to a rose hobbyist.

And most fishermen would rather mouth fried trout than the words "intraspecific variability."

So what do roses and an 11-syllable tongue twister have to do with fish?

PLENTY, if you're a fisherman and would like to catch more fish, or maybe catch them in places they've never been caught before.

. . . Or a conservationist and want to preserve the remnant populations of truly native cutthroat trout in the Western United States.

. . . Or a fishery biologist interested in improving methods of fisheries management.

"Intraspecific variability" is important to all three interests, says Robert Behnke, associate professor of fishery biology at Colorado State University.

WHAT IS IT?

The phrase is used to designate inherited differences — variances — within a species of plants or animals.

For instance, rose hobbyists recognize a wide variety of sizes, shapes and colors based on hereditary differences, noted Behnke in a recent article.

Similarly, a large variety of separate cutthroat populations — "subspecies" — at one time lived in the American West.

CONSERVATIVELY estimated, 99 per cent of the original cutthroat populations in the interior United States are gone, says Behnke.

. . . And only a handful of Colorado fishermen has caught a truly native Colorado trout.

Cutthroat found today usually are mixtures — hybrids — of the original stocks.

Rainbow trout, brought here in 1881 from California to a Denver fish hatchery, also bred with the cutthroat and were the major factor in "mongrelizing" the fish.

BROOK TROUT were the first to be transplanted here and were brought in from the East in 1870. Brown trout were imported from Europe in 1880.

The loss of cutthroat subspecies has meant the loss, not only of some beautiful fish, but also of hereditary differences that could be used in fisheries management, says Behnke.

Behnke is associated with the Colorado Cooperative Fisheries Unit at CSU and is employed by the Division of Research of the U.S. Bureau of Sport Fisheries and Wildlife.

HIS DUTIES are to find, study and classify rare and endangered species and subspecies of trout and to inform government agencies of their status.

So far his searches have taken him from Colorado to California and from the Southwest to Oregon. He has studied several isolated cutthroat subspecies and three possibly new species of trout.

One strain of what may be a new species — red banded trout — lives in a desert basin stream in Northern Nevada, where the water gets as warm as 83 degrees.

A SUBSPECIES of cutthroat on the Humboldt River drainage near Elko, Nev., lives in fluctuating water temperatures as high as 78 degrees.

Behnke said some of the streams where the fish lives were turgid and sluggish — "not trout habitat" — but some got up to seven or eight pounds.

Cutthroat usually are considered a high country fish that can survive only in pure, cold water. Most fisheries management practices in the Rocky Mountains are based on that assumption, says Behnke.

But one subspecies also can survive at lower elevations, in silted water at high temperatures.

BEHNKE BELIEVES it might be possible to introduce these fish at lower elevations where competition is too stiff for domesticated rainbows.

Hatchery - raised rainbows, used to stock most lakes and reservoirs, have difficulty competing with the wild fish already there.

Behnke likened the stocking of hatchery rainbows to turning domestic livestock loose in the mountains as game animals.

But wild trout — rare species and subspecies able to survive at lower elevations — might be better equipped to compete, he said.

"I DO THINK there is some application here, or some potential," he remarked.

Rare subspecies of cutthroat Behnke has researched include:

—Rio Grande cutthroat of the upper Rio Grande and Pecos River drainages of Colorado and New Mexico. The subspecies — one of four that were originally native of Colorado — has been almost completely replaced by non-native trouts and hybrids.

Behnke discovered the fish on some streams on the Trichera Ranch in Colorado and in isolated streams in New Mexico.

Transplants were made to establish a brood stock. There are plans to restore the trout in the Santa Fe and Carson National Forests of New Mexico.

—COLORADO RIVER cutthroat of the Green and Colorado River basin above the Grand Canyon in Wyoming, Utah and Colorado. Populations were discovered in four small Wyoming and Utah streams. This subspecies also was native to Colorado.

—Utah cutthroat of the Bonneville basin of Utah, Idaho, Wyoming and Nevada. Once believed extinct, a pure population was found in a tributary of the Virgin River basin.

—Mt. Wheeler cutthroat, once native to the Snake Valley of the western Bonneville basin. The trout now lives as a transplant in Pine Creek on Mt. Wheeler. Two other populations were started from the Pine Creek fish.

—PIUTE cutthroat of Silver King Creek, Alpine County, Calif. The population there bred with rainbow and other cutthroat trout, but a pure strain was started in another stream.

—Alvord cutthroat of the Alvord desert of northern Nevada and southern Oregon. The subspecies is found in Willow and Whitehorse creeks.

The trout's habitat deteriorated from overgrazing by livestock. The U.S. Bureau of Land Management is trying to improve the fish's habitat. "I think we've got this fish saved."

—Montana western cutthroat of the Columbia River basin in western Montana and eastern Idaho. Behnke described the Montana western as extremely variable.

ALONG with cutthroat subspecies, Behnke also has researched three trout believed to be new species.

The red banded trout is native to southern Oregon and the McC'oud River in northern California. Behnke described it as having "quite a few primative features" and a red, orange or yellow band along its sides.

The Apache trout is purplish-olive in color and has a yellowish "cutthroat" mark, but it is not a cutthroat, Behnke said. It is found today only on the White River Apache Indian Reservation in Arizona.

The Apache originally was native to the Black and White rivers of the upper Salt River drainage "and probably to the headwaters of the Little Colorado River."

A COUPLE of transplants have been made to its former range, but the Apache hybridizes easily with other trout, Behnke noted.

The Gila trout, native to the upper Gila River of New Mexico, is found in Main Diamond Creek, South Diamond Creek, Spruce Creek and McKenna Creek.

Like the Apache, the Gila is "delicate," offering little to fisheries managers in terms of inherited ability to survive with other fish.

Behnke said the main reason for preserving either species is their esthetic qualities — their rareness and beauty.

Friday Scoreboard

By THE ASSOCIATED PRESS

College basketball

EAST

Penn 76, Yale 56
Brown at Princeton, ppd.
Columbia 84, Dartmouth 57
Lowell Tech 78, Suffolk 69
Glassboro 60, Wm. Patterson 54
Quinnipiac 94, Newark Engineering 72
Beloit 85, Monmouth 52
N. Carolina A&T 66, Del. St. 64
Boston U. 79, Catholic U. 73
Coast Guard 72, Bowdoin 55
Harvard 78, Cornell 72
Assumption 97, Siena 91

SOUTH

Howard 85, S. Carolina St. 73
Va. St. 92, Campbell 79
Chris. Newport 72, UNC-Charlotte 68
Shepherd 76, Alderson-Broaddus 71
Wash. & Lee 82, Bridgewater, Va. 56
Glenville 99, Davis & Elkins 47
Fisk 70, Savannah St. 67
Albany St., Ga. 84, Knoxville Col. 93
Armstrong St. 95, Oglethorpe 70
Christ. Bros. 88, Bethel 64
Md.-East. Shore 100, N.C. Central 80
La. Tech. 91, LSU-New Orleans 73

FAR WEST

Rocky Mt. 103, Carroll, Mont. 79
Idaho 100, Mont. St. 71
Washington 58, Wash. St. 51
Weber St. 91, Boise St. 60
Ore. St. 68, Oregon 56
Lewis and Clark 86, Linfield 80
LA Loyola 97, St. Mary's, Tex. 94
UC Davis 82, Sacramento St. 66
Hayward St. 80, Humboldt St. 68
Cal-Riverside 66, Azusa Pacific 65
USIU 82, Chapman 52
Occidental 78, Fresno Pacific 67
Westmont 95, Pasadena 69
Northridge St. 87, Cal Lutheran 63
Cal Baptist 81, Pacific Christian 67
Bakersfield St. 98, Cal-San Diego 57
Idaho St. 67, No. Ariz. 59

Prep wrestling

Fort Morgan 30, Greeley West 14
Greeley Central 33, Longmont 22
Englewood 51, Heritage 0
Douglas County 42, Evergreen 15
Widefield 41, Mullen 8
Littleton 36, Aurora Central 21
Farmington, N.M. 36, Cortez 26
Grand Junction 31, Durango 14
Montrose 26, Grand Junction Central 14
Fort Lupton 30, Greeley West 14

College wrestling

Prep basketball

Denver East 65, Denver West 57
Denver South 77, Denver Kennedy 55
Pueblo County 78, Canon City Abbey 41
Merino 109, Briggsdale 39
Greeley West 77, Fort Morgan 50
Iliff 76, Prairie 54
Silver State Baptist 47, Denver Country Day 38
Wray 84, Akron 53
Plainview 55, Karval 54
Crowley County 55, Manitou Springs 46
Yuma 63, Julesburg 53
Kiowa 62, Strausburg 46
Limon 61, High Plains 37
Haxtun 79, Brush 65
Longmont 74, Greeley Central 65
Sterling 60, Loveland 56
University High 79, Ault Highland 66
Pueblo South 70, Colo. Springs Coronado 60
Colo. Springs Mitchell 92, Pueblo Central 70
Wasson 48, Colo. Springs Palmer 46
Widefield 69, St. Mary 51
Harrison 96, Canon City 58
Lyons 88, Lookout Mountain 55
Agate 66, Bennett 57
Alameda 50, Arvada West 40
Otis 65, Liberty 55
Aurora Central 59, Littleton 58
Heritage 74, Englewood 59
Brighton 65, Thornton 53
Mullen 79, Cheyenne Mountain 76
Cherry Creek 56, Aurora Hinkley 42
Deer Trail 65, Elizabeth 57
Wheat Ridge 77, Golden 56
Stratton 89, Bethune 70
Cripple Creek-Victor 93, Cotopaxi 55
Pueblo East 62, Pueblo Centennial 46
Trinidad 85, Alamosa 73
Branson 71, Trinidad Catholic 69
Walsh 76, Campo 55
Harrison 96, Canon City 58
Cheraw 60, Manzanola 54
Creede 68, Sierra Grande 60
Holly 109, Swink 50
Hugo 44, Arapahoe 42
La Junta 59, Lamar 47
La Veta 75, Rye 61
Wiley 69, McClave 53
Primero 73, Aguilar 57
South Park 64, Platte Canyon 48
Mancos 85, Bayfield 43
Dove Creek 40, Dolores 34
Fruita 87, Delta 49
Durango 60, Grand Junction 55
Montrose 52, Grand Junction Central 51
Basalt 101, Grand Valley 61
Plateau Valley 57, Eagle Valley 46
Bear Creek 81, Jefferson 64
Denver Manual 79, Denver North 63
Pritchett 60, Vilas 54
Ranum 64, Highland 63
Regis 61, Adams City 51
Arapahoe 91, Boulder 74
Platte Valley 63, Valley 53
Weld Central 68, Erie 62
Roosevelt 89, Fort Lupton 47
Pawnee 58, Peetz 54

ABA

New York 106, Dallas 93
Carolina 113, Denver 105
Kentucky 118, San Diego 106
Memphis 114, Utah 110

NBA

Atlanta 100, Boston 99
Milwaukee 114, Buffalo 108
Detroit 114, Philadelphia 104
Baltimore 89, New York 77

Convict to attend Lyle-Quarry fight

COLUMBIA, S.C. (AP) — Bobby Lee Hunter, South Carolina prison inmate who barely missed making the Olympic boxing team, will go to New York City next week to see his friend, former convict Ron Lyle, fight in Madison Square Garden.

Lyle, who will meet heavyweight Jerry Quarry Friday night, Feb. 9, has invited the 22-year-old Hunter to be his guest, along with Ray Satterfield, the corrections officer who accompanies Hunter on his boxing trips.

Prison officials said the two will leave Thursday, Feb. 8, and return Feb. 10. They said Lyle has sent the airline tickets, and the two will stay at Lyle's New York headquarters.

Lyle is coached by Bobby Lewis, who coached the Olympic aspirants, including Hunter.

Hunter, convicted on a charge of manslaughter that occurred in a scuffle at a Charleston nightspot, is due for parole consideration in June. The current national AAU flyweight champion, he plans a career in professional boxing.

Spurs triumph, 5-1; break 7-game streak

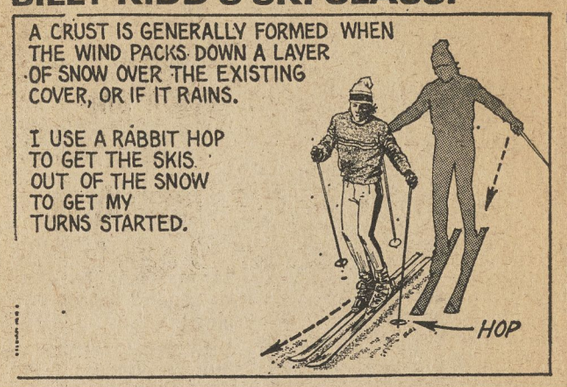
DENVER (AP) — The Denver Spurs of the Western Hockey League broke a seven-game losing streak Friday night, defeating Omaha of the Central Hockey League 5-1 in an interleague hockey game.

Don Borgeson scored twice for the Spurs, once in the second period and again in the third with Norm Dennis, Milan Marcetta and Joe Noris each picking up a goal apiece for Denver.

Couttet takes lead

CORTINA D'AMPEZZO, Italy (AP) — Martine Couttet of France won the Max Mara giant slalom event Saturday and took the lead in the women's European ski cup from her teammate Martine Ducroz.

BILLY KIDD'S SKI CLASS:



THE BREAKABLE CRUST

Falcon skaters win

AIR FORCE ACADEMY, Colo. (AP) — Gerry Micheletti scored two goals and was credited with two assists to lead the Air Force Academy to an easy 7-0 victory over Gustavus Adolphus College in a non-conference college hockey game Friday night.

The game was close throughout the first period until a Falcon scoring flurry with less than a minute to go in the period gave the Cadets a 3-0 advantage at the end of the period.

Also scoring for the Air Force were Dave Bunker, Mike Henehan, Kevin Pederson, Fred Whitican and Marlow Mellum.

The win was the 351st for Air Force coach Vic Heylinger and moved him into third place among college hockey coaches behind Boston College's Snooks Kelly and Denver University's Murray Armstrong.

Carolina rallies to down Rockets

GREENSBORO, N. C. (AP) — The Carolina Cougars rallied in the second half to score a 113-105 American Basketball Association victory over Denver Friday night.

Joe Caldwell and Billy Cunningham had 21 points each, leading the Cougars to their 20th victory in their last 23 outings and their 14th victory in a row at home.

Ralph Simpson had a game-high 26 points for the Rockets. Warren Jabali added 24 and Dave Robisch 23.

Denver pulled ahead 33-29 at the end of the first period and led 63-58 at the half. Carolina trailed 74-64 early in the third period but pulled even at 79-79 on a basket by Mack Calvin, who wound up with 18 points.

The Cougars went ahead 91-90 at the end of three quarters and outscored the Rockets 22-15 in the fourth period, including one streak of eight straight points.

Bears win, 77-70

GREELEY, Colo. (AP) — Guard Tim Scully scored 22 points as Northern Colorado climbed above the .500 mark Friday night with a 77-70 verdict over Fort Hays State in Great Plains Athletic Conference basketball action.

Bob Eaks added 18 points for the Bears, who boosted their over-all mark to 9-8 and conference record to 3-4.

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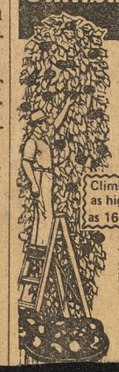

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June 3

Anyone would have done it, say men who pulled pair from river

By JENN FARRELL
The Coloradoan

While Todd Anderson might not think he and his friend Robert Beahnke did anything extraordinary, they always will be heroes to the 20-year-old woman and 12-day-old infant the pair pulled out of a car that had driven into the Poudre River.

Anderson and Beahnke were heading up Poudre Canyon to ride their surfing-style boogie boards when they saw the car in front of them go off the road into the river, Anderson said Wednesday, one day after he and Beahnke rescued Jessica Folger and her daughter, Jasmyne Star Stewart, from the overturned vehicle.

Folger was returning to her Poudre Park home from Fort Collins around 5 p.m. when her 1983 Buick Riviera went out of control. Folger said she fell asleep.

Anderson, a 23-year-old engineer for Advanced Energy and a Loveland resident, and Beahnke, who works with Anderson and lives in Windsor, watched as the car began skidding, turned almost to the point where its front end was facing theirs and then went over the edge of the road into the river.

"The next thing we saw there was just a bunch o dirt going into the air and then the car was not there," Anderson said.

Then he and his frien saw the car in the river o its hood, the wheels stickin into the air.

"That's when my hea dropped down into m stomach," Anderson said.

It probably wasn't mo than 10 seconds before t duo reached Folger's car, said. He said he could he water rushing into the c Folger yelled from the d ver's seat window that th was a baby in the back se

While Anderson ran b up the embankment to road to flag down someone to

See RIVER, Page A2

River

Continued from Page A1

get help, Beahnke kicked at the windows to help get the baby's car seat unstrapped and get the baby upright.

Anderson and Beahnke helped Folger and her baby escape. By then, a crowd had started to gather and Anderson said it was obvious that both mother and daughter were going to be OK, so the pair left and went boogie-boarding so close to the scene that they were able to see the ambulance arrive.

On Wednesday, both mother and daughter were doing fine. A doctor's visit earlier in the day reaffirmed that Jasmyne didn't even receive a scratch in the crash.

"I believe it was a complete miracle that it wasn't worse than it was," Anderson said. "The 12-day-old baby was just so fragile, and there was not a single scratch on that baby."

Anderson said he didn't want to contribute to the congestion and confusion at the incident.

Anderson said he doesn't consider himself or his friend to be heroes. "(Anyone) would have done the same thing," he said.

But to Folger, the pair who disappeared before she could thank them did something heroic.

"They're heroes to me. I just really thank God they were there to help me get the baby out," she said. "There's no way I would have been able to get the baby without help.

"They might not think they're heroes, but they're heroes to me."

Strangers pull mom, infant from river

By DAVID RUISARD
The Coloradoan

A Poudre Park woman and her 12-day old daughter were saved by two anonymous strangers Tuesday after their car plunged into the Poudre River.

Jessica Folger, 20, was traveling home from Fort Collins with her new born daughter — Jasmyne Star Stewart — at 5 p.m. when she drove her 1983 Buick Riviera into the Poudre River about six miles west of Ted's Place.

She was traveling on Colorado Highway 14 when she fell asleep at the wheel and woke up in her overturned car to the sound of water rushing in through the driver's window and Jasmyne crying from her baby seat, Folger said.

Two passing motorists went into the ankle-deep water to remove Folger and her baby from the wreckage.

"I couldn't have gotten to her," Folger said.

"Her window was up and the door was jammed. If those people wouldn't have been there, I don't know what would have happened."

In the confusion of the swirling ambulance and state trooper lights that followed the anonymous rescue, Folger said the men who helped her slipped away before she could thank them or get their names.

"They were wearing shorts and sandals," Folger said. "One was wearing glasses and had blonde hair and the other one had brown hair. Everybody was showing up — the ambulances and everything — and I didn't see them again. I would just like to say thank you.

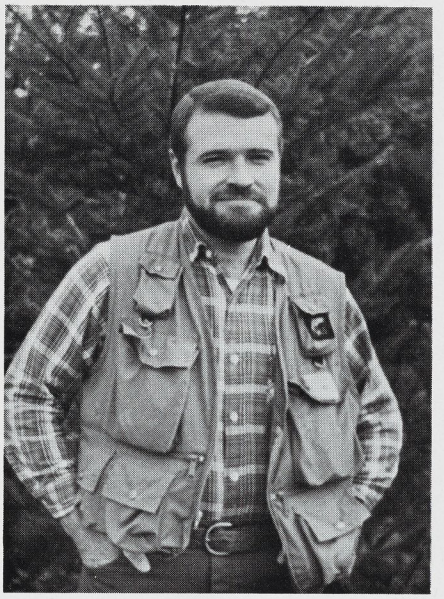
"I don't think that we would be here right now if they hadn't gotten us out of the car."

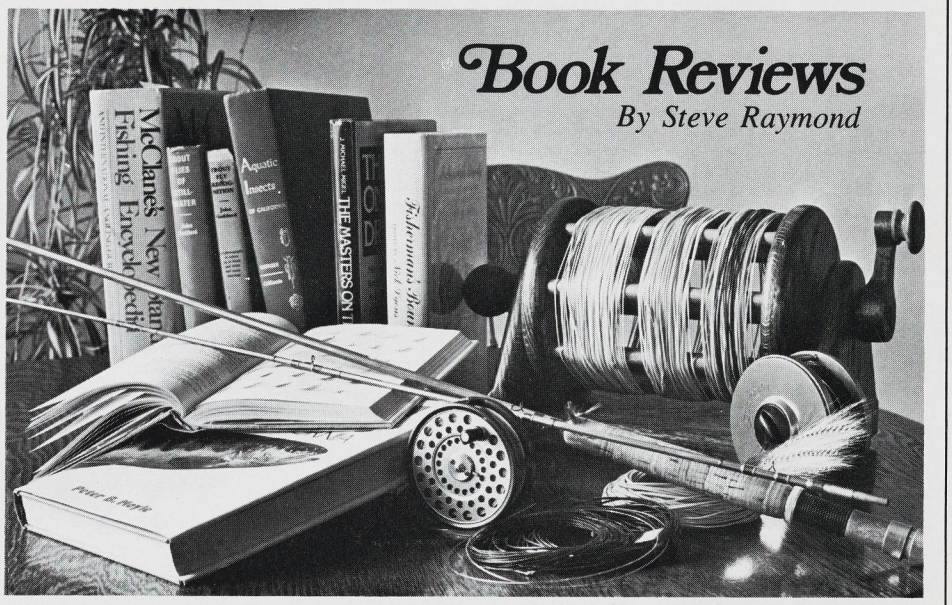
Folger said she was returning from a trip to Fort Collins where she saw her doctor and shopped for baby clothes with her mother and grandmother when the accident happened.

The baby was delivered by Caesarian section, and Folger has been on medication since the surgery.

Folger said she was ticketed by the state patrol for "failure to drive in a single lane."

Fort Collins Coloradoan June 2 1999





Book Reviews

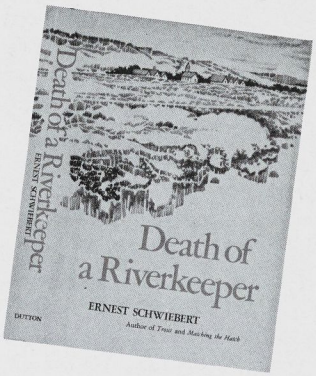
By Steve Raymond

If Walter Mitty were a fisherman, he'd dream of fishing the waters Ernest Schwiebert fishes. Wherever trout and salmon go, from the roaring torrests of the Rockies to the dark rivers flowing softly past the walls of Irish castles, there, it seems, Schwiebert has gone also. And ever so often, when he has a batch of exotic angling adventures saved up to tell, he writes a book so that the rest of us can sit at home and drool over it.

But his latest book, *Death of a Riverkeeper* (E.P. Dutton, New York, N.Y.), is nearly as gloomy as its title. You could count on one hand the number of smiles in its 287 pages and still have enough fingers left over to measure a healthy dose of bourbon—which might not be such a bad idea.

Death of a Riverkeeper is a collection of 14 stories, most of them culled from articles Schwiebert has published previously in various magazines (including this one) and revised or enlarged for use in book form. Most are accounts of angling experiences on an enviable list of waters—the Michigan streams he has fished as boy and man, Idaho's Silver Creek, the rich waters of the Yellowstone-Big Hole country, England's legendary Test and Ireland's Maigue, Colorado's Gunnison, Oregon's North Umpqua, Norway's Aroy and Iceland's salmon rivers, Alaska's Kashiagemuit and the bonefish flats of the Bahamas. He shares these waters, and the book, with a number of well-known angling personalities.

You'd think someone privileged to fish so many fine waters in such famous company would have some marvelous tales to tell. And Schwiebert does; it's just that he



sometimes has trouble telling them. He bogs down frequently in a torrent of excessive verbiage and descriptive detail. He strives so hard to create atmosphere that all he gets is fog. It's hard to fault an author for excessive effort, but Schwiebert tries too hard, and consequently some of his stories get lost in the telling. And always he is serious, so serious, as if the whole weight of the world were bearing down on his weary shoulders.

For all that, there is still some good fishing in these pages, and Schwiebert's writing is best when he is one-on-one with a fish. Then the remembered excitement seeps through and the fat prose becomes lean, the details fresh and sparkling. If only the wait between fish weren't so long!

Two tales stand out above the others. "Where Flows the Umpqua," an account of summer steelhead fishing on the North Umpqua, is a readable and sometimes amusing piece, which contains the only real humor in the book. "The Fly Book," originally published in *The Flyfisher*, is a well written, touching story of memories triggered by the patterns left in a fly book by an old angler who has gone on to his reward. And there are some other stories that come close to the standard set by these two.

But, to be brutally honest about it, portions of the book are just plain dull. Good fishing stories must contain bits of local lore, color, history and tradition, but here there is simply too much, and too often it is offered up in confusing order with no logical transitions to link the bits together. The stories are as much about people as about fishing, but even here Schwiebert's angling companions sometimes emerge as wooden, one-dimensional characters who are often victims of inane, stilted dialogue.

The title of the book comes from its final entry, a long piece about salmon fishing in Iceland and the death of Steingrimur Baldvinsson, a noted riverkeeper who fished with Schwiebert. It's a dark, depressing tale, weighted with a too-heavy dose of Icelandic history, and it leaves the reader feeling grim.

Despite the flaws, there is still enough here to rekindle the dreams of the Walter Mittys among us. With the rising cost of almost everything putting the world's last angling frontiers beyond the economic reach of most fishermen, we should be properly grateful for any glimpse we get of waters overseas. What's more, all of Schwiebert's stories are about fly fishing, and any story about fly fishing is better than any story that isn't.

Ten years ago, George F. Grant wrote a slim little volume called *The Art of Weaving Hair Hackles for Trout Flies*, a book that wasn't very much longer than its title. He published it himself because,

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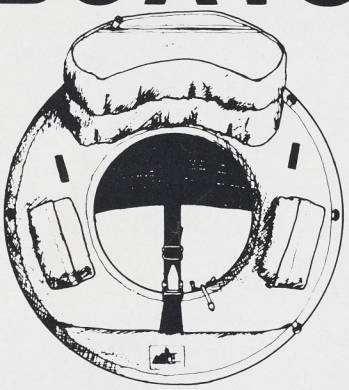

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he says, "I could not induce any publisher to risk his capital on my behalf...I typed the text...on a second-hand typewriter with poorly-aligned letters; fashioned crude drawings to minimize space so as to keep the number of pages within the bid of a 'poor man's printer, and limited the first edition to one hundred copies, which I estimated was the total number of copies that I could reasonably expect to sell."

To Grant's amazement, he sold thousands of copies, and the little book helped establish his reputation as one of the most innovative fly tyers of his time.

Now there is a handsome, expanded new edition of Grant's work *The Master Fly Weaver* (Champoeg Press, Portland, Ore). It's a limited edition of 1,950 numbered copies, which won't be enough if it's as well received as the original.

There's no reason why it shouldn't be. Even though the subject matter—weaving hair hackles—is very specialized, Grant is the reigning authority, and there are many more fly tyers now than there were when his little original was published.

This new, large-format edition incorporates much of the material from the original, but it also has been updated and greatly expanded. Much of the success of the book is due to Harvey Eckert's illustrations, scattered generously through the volume, which are enormous aids to understanding the complicated mechanics of Grant's weaving and tying methods.

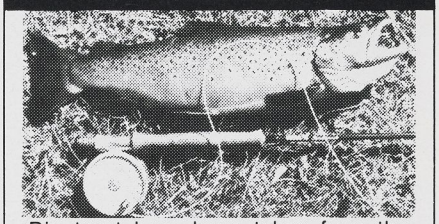
After a short autobiographical opening, Grant's second chapter states his fly-tying philosophy, a plea for creativity. He also explains his unconventional theory that stiff fibers used in woven-hair hackles give a more lifelike action in swift Western rivers than the soft hackles used on most wet flies. The reason, Grant says, is that stiff hair fibers have more resistance to the current.

After three more brief chapters, he gets down to the real business at hand, describing the tools necessary to tie his patterns, how to set up for weaving, how to sort hair, the mechanics of weaving, and how to attach woven hackles to completed bodies. Other chapters deal with special materials, nymphs, woven-hair-hackle dry flies, use of wool as a weaving material, minnow imitations and a list of sources for the unusual materials Grant uses—such as soft brass wire and ox-ear hair.

The proof of Grant's artistry and innovation is evident in a portfolio of color photos of his fly patterns in the back of the book. The photos are by Mike Fong.

This is a book for someone who likes

TASMANIA
NEW TROUT FISHING FRONTIER



Big trout have been taken from the Tasmanian Central Plateau for years, but few Americans knew of it. There are few guides and fewer facilities in the fishing area, but the lakes and rivers produce large takes of rainbows and browns averaging 3-7 lbs., with 20 pounders caught annually. Most fishing is with dries and nymphs.

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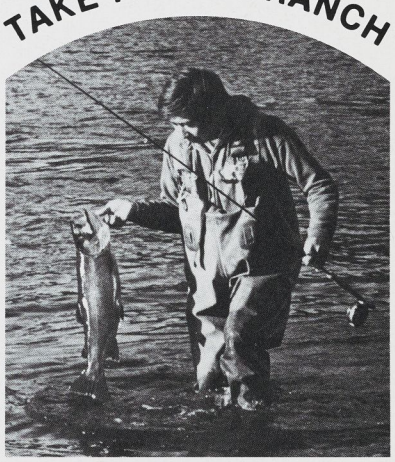

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Orvis News
Jan. 1977

WEST YELLOWSTONE FALLS 1873

Post-Bicentennial Note

by Austin Hogan, Curator
The Museum of American Fly Fishing

With the great Bicentennial year having drawn to a close, there is no doubt but that the closer look at history has reawakened our pride in the past. Orvis can be justifiably proud of its own contributions to the national prosperity being the oldest manufacturer of fishing tackle in this country.

Charles F. Orvis started making quality rods a hundred and twenty-one years ago in a little stone building still standing on the Main Street of old Manchester. By 1875, both the solid wood rod of lancewood and the new split bamboo were being mail ordered to customers from all parts of the nation. It was a period when the American fly rod was essentially being field tested by adventurous sportsmen, who having conquered the wild places in the east, were then exploring western rivers, particularly those of the Rocky Mountains which included the new acquired Yellowstone National Park.

At that time, control of Yellowstone had become a controversial issue with various commercial interests and those who might be termed early environmentalists, pressuring Congress to settle the issue. Political strife makes strange bedfellows and among the government agencies interested was the United States Army. What seems especially strange, after a group of the highest ranking Generals had actually visited the Park, the Army advocated the cause of the environmentalists. Undoubtedly, Charles F. Orvis was pleased to learn of the Army's position (he was continually scrapping with the Vermont legislature in relation to proper stream management) and probably even more pleased to learn that General William Emerson Strong (who kept a journal) had carried an Orvis rod into the Yellowstone wilderness.

The military Board of Inquiry was headed by Secretary of War, General William Belknap, and included four other Generals. of these, Generals Strong, Randolph B. Marcy and J. W. Forsythe were noted sportsmen. In addition, 29 enlisted men did the work. The most warmly remembered seems to have been General Marcy, after whom an Adirondack peak is named.

VIP's get special treatment. Each western population center they visited, just before entering the Park entertained them lavishly, the local residents welcoming them with silver cornet bands and loaded banquet tables. They entered Yellowstone in the best conveyances the Army had available - two mule drawn ambulances. They were met at Soda Mountain by a pack train and so, the high adventure began. For 11 glorious days, the expedition viewed the scenery, hunted and caught a ton and a half of Yellowstone trout.

July 29th, 1875, General Strong noted in his journal, he was casting his flies to the fish of Black-Tail Creek observing the trout were small. His first from the Yellowstone came on August 1st. "Selecting my lightest fly rod, my line and reel were soon attached, and I put on a six foot leader and three flies - a Grey Professor and two Brown Hackles –."

The Yellowstone River, the General and the Orvis rod performed nobly that day, for he took 15 trout on the light equipment, the largest over 5 lbs. General Marcy fishing further upstream came in with a string "equally large, if not larger."

During the expedition, Strong reported, when the trout refused the fly and with so many mouths to feed, they switched to grasshoppers which were plentiful and customary food for the fish.

Strong, who apparently had a great deal of expertise, was amazed he could land such large trout on such light tackle in such swift currents.

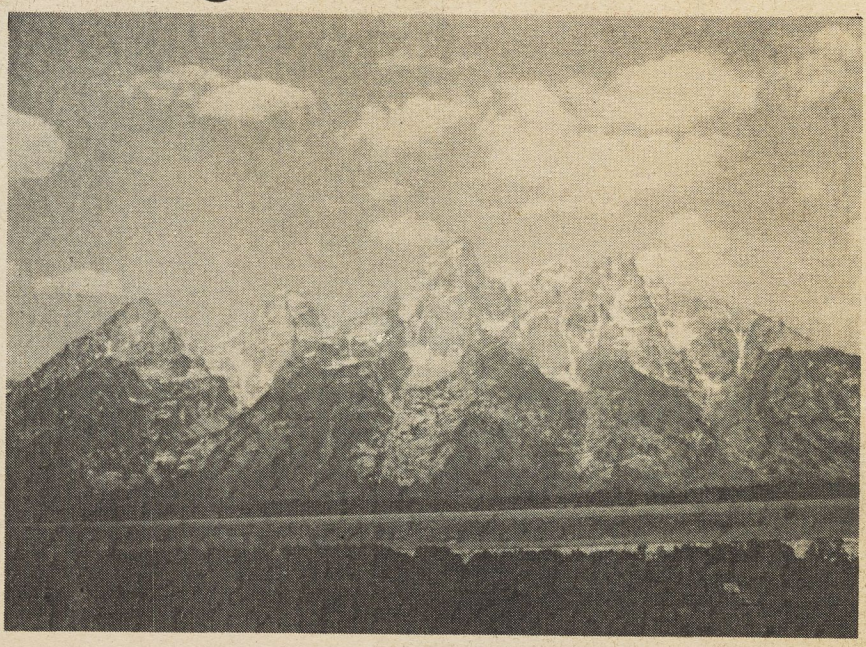
Again he mentions the versatility of his equipment when after crossing the Firehole River, climbing the divide and camping at the Mud Volcano, he wrote: "The men who left camp yesterday morning to bring up the supplies from Yellowstone Lake, saw four grizzlies while passing over the Divide, and after a sharp fight killed one of them. We found the fishing here as fine as before, and caught magnificent strings. Forsythe used my light Orvis rod, and though he had great success in striking the fish, it took time and careful management to land them with such delicate tackle and in such rapid water. Nearly half the men were fishing with short, stiff rods and strong cord, and all had extraordinary luck, so that the pile of trout brought into camp was enormous."

Unfortunately, no Orvis catalogue of that early date is available to determine the specifications of the Strong fly rod. An educated guess suggests it was a split bamboo, probably of about 11 feet, had loose ring guides, weighed about 7 ounces and was carried in a hinged wooden box, the rod wrapped in a soft material. The rod box would be more practical than the common grooved wooden casing slipped into a linen or leather sock.

The Generals left the park on August 12th, convinced the Yellowstone lands and waters should be preserved for recreational purposes. All told, the party took over 3,000 trout and of these, Strong took 489.

Many thanks to Mr. Robert Couvillion for noting to us that General Strong's Orvis was the first "light" rod to be used in the Yellowstone National Park. References are drawn from General W. E. Strong's journal, " A Trip to the Yellowstone National Park in July, August and September, 1875." University of Oklahoma Press, 1968.

ıt Fishing Season of



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Howard Tanner holds a big chinook, the legacy of his program to stock the Great Lakes with Pacific salmon.
PAUL WENDLER/ Special to the Free Press

THE SILVER YEARS

25 years later, Tanner's salmon are gold mine

ERIC SHARP
Outdoors

LANSING — On April 2, fishermen throughout Michigan should find some way to mark the silver anniversary of the golden bucket. It seems as if it was only yesterday, but April 2 is the 25th anniversary of the day in 1966 when 700,000 baby Pacific salmon were released in the Platte River and Bear Creek to start a phenomenal new sport fishery.

What makes this story even more remarkable is that with the change in environmental thinking, the salmon project probably would be rejected as biologically unsound if someone proposed it today.

If there ever was any doubt that Howard Tanner had a fully developed plan in mind when he came home to Michigan to run the Department of Natural Resources fisheries division, consider the following: He arrived from Colorado to become division chief in September 1964. The first shipment of Pacific salmon eggs arrived at a state hatchery two months later.

There were two salmon programs going on. One sought to establish the small, plankton-eating kokanee (a landlocked form of sockeye) in some inland lakes. The other set out to populate the Great Lakes with spectacular, silver cohos from the Columbia River on the West Coast.

The kokanee plan flopped. A few might still be in Higgins and a couple of other lakes, but no one has reported catching one of these three-pound fish for a decade or so. But that failure was instantly forgotten in the spectacular Coho Madness of the summer of 1967, when thousands of anglers caught huge numbers of big fish a year after they were introduced to Lake Michigan.

"You have to remember that this was in a day when catching a 10-pound fish in Michigan would get you on Mort Neff's television show" ("Michigan Outdoors"), Tanner says. "And all of a sudden people were catching four and six and eight fish that size a day."

A 10-pound salmon is on the small side today. In addition to cohos, which reach about 20 pounds, chinooks roam the lower lakes, feeding voraciously on alewives and other baitfish and growing to more than 30 pounds.

The final success of the great experiment might not yet be determined. Cohos are doing well, but chinooks have declined in Lake Michigan, and Tanner expects the same will happen in Lakes Huron and Ontario.

The apparent cause is BKD (bacterial kidney disease), which is also ravaging salmon raised in West Coast hatcheries. Fish that reproduce naturally in rivers such as the Pere Marquette and Little Manistee are not affected by BKD, indicating that it might be a hatchery problem.

Tanner, who was DNR director from 1975 until 1983, believes the BKD problem is a temporary setback.

"Now we have a lot of people saying, 'See! Salmon can't live in the Great Lakes!' " he says. "We've been working with these fish less than 30 years. The problem is principally with chinooks and principally in Lake Michigan. I think that given time, this problem will be solved too."

Tanner has fought obstacles to his salmon program from the day he proposed it. First there was the federal government, which was committed to restoring a dying commercial fishery for lake trout and whitefish.

"We made two decisions before we tried to bring in the salmon, and I think they were even more important than the salmon," Tanner says. "First, Michigan had allowed the federal government to manage its Great Lakes waters. First, I decided that Michigan should take over management of its Great Lakes waters from the feds. And second, I decided we should manage the Great Lakes waters as a sport fishery, not for commercial fishermen. We literally decided to shut down most commercial fishing.

"Until then, sport fishing for lake trout in the Great Lakes meant wire lines and trolling weights that weighed pounds, and every now and then you wound it in to see if you had a fish on. It wasn't much fun, and you'd be lucky to average one fish a day. It just didn't make any sense to me to waste a lot of resources on such a slow-growing species that wasn't all that much fun to catch anyway."

Michigan was full of hatcheries producing adult trout for a put-and-take fishery. Tanner needed $500,000 to fund the salmon project, and he got much of it by ending the practice of stocking adult trout and closing small, inefficient hatcheries. The rest had to come from the legislature.

"Joe Mack (the once-powerful state senator from Ironwood who resigned last year after pleading no-contest to expense account fraud) extracted his pound of flesh," Tanner says. "He said he'd support the salmon program if we put some in Lake Superior. That was the price of getting the appropriation through the Senate."

Tanner dropped 150,000 smolts into the chilly waters of Lake Superior, where their descendants still carry on some natural reproduction. He put the rest into the Platte River and Bear Creek, a tributary of the Manistee, pouring the first out of a golden bucket.

Then he sat back and waited.

"I remember telling my wife, 'I'm either going to be a big hero or a big bum, and right now I don't know which," Tanner says.

The answer was beyond his wildest hopes. Instead of returning in 18 months, the first fish came home as half-grown jacks in the fall of 1966. But where a Washington or Oregon jack coho would be about three pounds at that age, Michigan jacks were six to eight pounds.

At least 35 attempts to plant salmon failed earlier, probably because the wrong-sized fish were used in insufficient numbers, Tanner believes. But he thinks he couldn't repeat the experiment today, because people are concerned about introducing exotic species. The present party line among environmentalists "is that the very best thing to do is restore (the lake) to its pre-European condition," a goal Tanner thinks is naive and impossible.

"You can't simply re-introduce a species and call that restoration," he says. "What about the other changes? In Lake Michigan, five species of chubs have disappeared. Are you going to restore those, too? And a lot of other species have been introduced. Are you going to wipe them out?"

Tanner points to the smelt, which he calls "the most unfortunate introduction ever in the Great Lakes." Although they provide a sport and commercial fishery, Tanner says these small predators introduced early in this century do far more damage by preying on juvenile lake trout.

"Ask yourself who ever got into serious difficulties by introducing a species of trout or salmon," Tanner says. "There were a few poor examples — brook trout in the Rockies (where they crowded out native cutthroats) and rainbows in Lake Titicaca (they wiped out valuable small food fish in the Bolivian lake) — but the results are almost always good."

Tanner is being considered by Gov. John Engler for appointment to the Natural Resources Commission. Also being considered are former DNR bureau chief Pete Petoskey and former commission member Dave Olsen.

Not only would Howard Tanner do it all over again, he believes Pacific salmon are here to stay. And anyone who doubts his wisdom need only read a quotation that hangs on the wall of his office in the basement of the Natural Resources Building at Michigan State, where he is a graduate adviser:

"I have always found that reasonable people tend to agree with me.
H. Tanner."

IN THE KITCHEN

Muskrat special

Ingredients

1 muskrat
1 tsp. salt
⅛ tsp. pepper
½ medium onion, sliced
½ tsp. Worcestershire sauce
1 cup ketchup
½ cup of cooking fat

Directions

Soak cleaned muskrat (call it a marsh rabbit if your guests are squeamish types) overnight in salted water (1 tbs. salt per quart of water). Cut into pieces. Put meat in deep pan with 1 quart water, salt, pepper, onion and simmer 1 hour. Melt fat in skillet. Drain meat, fry in fat until brown on one side. Turn meat and immediately pour ketchup and Worcestershire sauce over meat. Add enough water to almost cover. Simmer until ketchup gravy thickens (about 30 minutes). (Department of Natural Resources.)

CALENDAR

Events

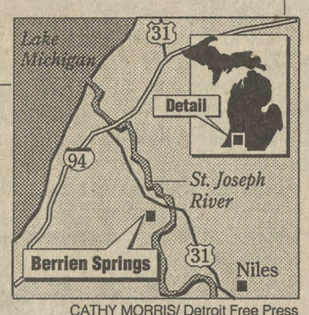
■ **MIDWEST FLY FISHING EXPOSITION:** Saturday (10 a.m.-7 p.m.) and Sunday (10 a.m.-6 p.m.), Southfield Civic Center, 26000 Evergreen Road. Benefits Michigan Fly Fishing Club programs. Tickets: $6 (under-12, $1). Call Rick Caldwell, 422-4308.

■ **ANTIQUE ARMS AND PIONEER CRAFTS SHOW:** Saturday (9 a.m.-5 p.m.) and Sunday (9 a.m.-4 p.m.), Kalamazoo County Fairgrounds, 2900 Lake St., Kalamazoo. Sponsored by Yankee Doodle Muzzle Loaders. Tickets: $3 (under-12 free). Call 616-327-4557.

■ **HUNTING TEST:** Sunday, 8 a.m., Highland Recreation Area barn course. Sponsored by German Shorthaired Pointer Club of Michigan. Trial open to all pointing breeds. Fee: $6. Call Bob Hoffmeyer, 625-6886 (after 6 p.m.).

(Send notice of your event to Outdoor Calendar, Detroit Free Press, 321 W. Lafayette, Detroit 48226.)

FISHING REPORT



CATHY MORRIS/ Detroit Free Press

Hot spot

With most ice deteriorating, many Michigan anglers turned their attention to steelhead.

The best results were on the St. Joseph River at Berrien Springs, where anglers reported very good numbers of steelhead were taking spawn and hardware.

Elsewhere

SOUTHEASTERN MICHIGAN

■ **DETROIT RIVER:** Handliners were taking walleye on Rapalas tipped with minnows at the Sturgeon Hole.
■ **SAGINAW BAY:** The cuts and canals at Sebewaing were good for 8- to 9-inch perch.

LOWER PENINSULA

■ **ST. JOSEPH RIVER:** Very good for steelhead at Berrien Springs with spawn or hardware.
■ **KALAMAZOO and RABBIT RIVERS:** Steelhead were taking spawn.
■ **MUSKEGON LAKE:** Good for perch.
■ **TAWAS LAKE:** Yellow perch were hitting wigglers and Russian Hooks.
■ **AU SABLE RIVER:** Lower stretches were good for steelhead on spawn, spoons and wigglers.
■ **HOUGHTON LAKE:** Good for bluegill on wax worms.
■ **HIGGINS LAKE:** Excellent for lake trout on minnows, good for perch on wigglers, wax worms and mousies.
■ **GRAND TRAVERSE BAY:** Good for brown trout and steelhead at the mouth of the Boardman River. Rapalas and Bombers worked best.

UPPER PENINSULA

■ **EMERSON BAY:** Good for whitefish.

DNR FISHING UPDATES: 517-373-0908.

SKI REPORT

Downhill

Skyline	6"
Timber Creek	10"

WESTERN MICH.	BASE
Boyne Highlands	80"
Boyne Mountain	80"
Caberfae	48"
Cannonsburg	25"
Crystal Mountain	35-58"
Michaywe	15-20"
Mt. Holiday	12"
Mt. McSauba	12-18"
Nub's Nob	24-80"
Schuss Mountain	60"
Shanty Creek	24"
Sugar Loaf	52"
Treetops-Sylvan	24-38"

UPPER PENINSULA	BASE
Big Powderhorn	30"
Blackjack	26"
Indianhead-Bear Cr.	26-50"
Marquette Mountain	25-30"
Pine Mountain	15-40"
Porcupine Mountain	8-16"
Ski Brule-Homestead	20-55"

Cross-country

Conditions were icy. Trails generally were bare south of Houghton Lake.

LOWER PENINSULA	BASE
Alpena	8"
Cadillac	4"
Grayling	6"
Higgins Lake	3"
Indian River	4"
Petoskey	6"
Traverse City	5"

UPPER PENINSULA	BASE
Copper Harbor	16"
Grand Marais	8"
Munising	12"
Watersmeet	12"
Ontonagon	8"
Sault Ste. Marie	6-14"

Yelps, clucks are turkey hunters' calling cards

BY ERIC SHARP
Free Press Outdoors Writer

Dick Kirby says a lot of people start out nicely when they're calling turkeys.

"If you can do a good hen yelp and a cluck, that's all you really need to call turkeys in spring or fall," says Kirby, whose Quaker Boy Co. in Orchard Park, N.Y., is the world's leading manufacturer of turkey calls.

"You want to start out with some single yelps, sort of soft and slow. The first call you make is usually good enough to get a turkey coming in to you. But when the turkey answers, the old adrenaline starts to flow and people start yelping and clucking so loud and fast, they scare the birds away."

There will be a lot of yelping, clucking and gobbling in the woods this spring as successful entrants in the spring turkey lottery try to fill their tickets. The state expected to issue nearly 40,000 permits for the spring hunt, which is for gobblers only.

Each permit allows the hunter to kill a gobbler in one of 20 areas in the Lower Peninsula and three in the UP. Most of the permits are for Lower Peninsula counties north of a line from Bay City to Montague.

The number of permits in each area range from 30 in Unit R, which covers parts of Clinton and Shiawassee counties, to 9,000 in Unit K, which covers much of the northwestern quarter of the Lower Peninsula. Because turkey hunters use full camouflage — usually including guns, hands and faces — the DNR tries to reduce the risk of accidental shootings by issuing limited permits in most units, ranging from one week to 34 days. The season opens April 22 and ends May 26.

Hunters who apply for an area they know well might be assigned a permit for an area hundreds of miles away. That's why successful hunters usually make two or three scouting trips, looking for turkey habitat and trees where the gobblers roost. Another sign is strutting grounds, where the gobblers leave two or three parallel scrapes with their wing tips on either side of their footprints as they spread their wings and strut for females.

A superb guide is "Hunting the Wild Turkey in Michigan," written by a highly experienced turkey hunter, Denny Geurink, and published by the Michigan Wild Turkey Federation. That organization has been instrumental in persuading and assisting the Department of Natural Resources to reestablish these magnificent birds in Michigan.

Anyone learning to call turkeys will find this book invaluable, because it explains why turkeys make different calls and when the hunter should use them. Geurink also describes the different hunting units, explains their potential and offers tips as to where the best opportunities will be found. There are also numerous excellent photographs, many of them by the DNR's David Kenyon, one of the nation's top wildlife photographers. To obtain a copy, send $6.95 plus $1.50 postage and handling to Michigan Turkey Book, 11500 60th Ave., Allendale 49401.

In addition, the DNR, Michigan Wild Turkey Federation and other sportsmen's groups are offering a series of turkey hunting workshops around the state through April. Dates and locations are available in the 1991 gobbler season license application and at DNR offices.

Hunters using turkey calls for the first time should start with a box call, a hand-operated, mechanical device that produces realistic basic calls in even the most inexperienced hands. Slates can be mastered in a few days, at least well enough to fool a turkey with basic clucks and putts. The toughest calls to master are the mouth-operated diaphragms, but they are also the most versatile.

Kirby says inexperienced turkey hunters should learn a couple of basic, easy calls, then concentrate on avoiding the temptation to call too much and on staying still until the bird gets within 30 yards.

"I don't know how they measured it, but one study I saw said a turkey's eyesight is 10 times better than a man's," Kirby says. "And they are so fast that people who haven't seen it can't believe it. We were hunting in New Mexico, where you could take two birds, and the guy I was with took the first bird at about 15 yards. He swung the gun and shot the second one right away. We had it on film, so we were able to determine that the time between the two shots was 1.3 seconds. In that time, the second turkey was able to take off, flap its wings three times and get about 12 yards away before it was hit."

Kirby lauds Michigan for its efforts to restore turkeys, saying, "Hunting is only part of it. I spend about two months a year hunting turkeys. I spend the other 10 months working to support and re-establish them. And every place I go where this is happening, it's being done by the sportsmen. Their money is what's bringing the turkey back."

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Free admission for everyone!

Saturday
MARCH 16
CASH GIVEAWAY
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BASEBALL

EXHIBITION STANDINGS

American League

	W	L	PCT	GB
Minnesota	6	1	.857	—
New York	6	2	.750	½
Seattle	5	2	.714	1
Boston	5	3	.625	1½
Chicago	5	3	.625	1½
Cleveland	4	3	.571	2
Baltimore	4	4	.500	2½
Texas	4	4	.500	2½
California	3	4	.429	3
Toronto	3	4	.429	3
Detroit	**2**	**5**	**.286**	**4**
Oakland	2	5	.286	4
K. City	1	5	.167	4½
Milwaukee	1	7	.125	5½

THURSDAY'S RESULTS

Houston (ss) 10, **Detroit** 6
Atlanta 12, Los Angeles 2
Boston (ss) 4, Kansas City (ss) 2
California 5, Seattle 3
Cleveland 14, Oakland 4
Minnesota 7, White Sox (ss) 5
NY Mets 8, Cincinnati (ss) 6
NY Yankees (ss) 8, Montreal 7
Philadelphia 4, Pittsburgh 2
San Diego 8, Chicago Cubs 6
San Francisco 9, Milwaukee 8
St. Louis 6, Texas 1
Toronto 12, Boston (ss) 3
White Sox (ss) 8, Balt. 7 (11)
Yankees (ss) 13, Cinc. (ss) 11

National League

	W	L	PCT	GB
San Diego	6	1	.857	—
Houston	5	1	.833	½
New York	5	1	.833	½
Chicago	5	2	.714	1
St. Louis	4	2	.667	1½
Atlanta	3	4	.429	3
Phila.	3	4	.429	3
San Fran.	3	5	.375	3½
Pittsburgh	2	4	.333	3½
Cincinnati	2	5	.286	4
Los Ang.	2	5	.286	4
Montreal	1	6	.143	5

Split-squad games count in standings; ties do not.

WEDNESDAY'S RESULTS

Wh. Sox 4, **Detroit** 3 (4½, rain)
Atlanta 6, Montreal 4
Boston 16, Baltimore 7
California 8, Milwaukee 4
Cubs 8, San Francisco 4
Kan. City 10, Cincinnati 1 (5½)
Minnesota 3, Pittsburgh 3 (6½)
NY Mets 10, Houston 5
NY Yankees 13, Los Angeles 9
Philadelphia 13, Toronto 8
San Diego 4, Cleveland 2
Seattle, 15, Oakland 9
Texas 4, St. Louis 3

SPRING SUMMARIES

Mets 8, Reds 6

LEADING HITTERS

Cincinnati	ab	r	h	bi	NY Mets	ab	r	h	bi
Hatcher lf	3	0	1	0	Boston cf	4	0	1	3
Larkin ss	3	1	1	1	Hundley c	3	1	2	2
Jefferson 1b	1	1	1	2	Johnson ss	3	0	1	1
Totals	34	6	8	6	Totals	34	8	13	8

Cincinnati (ss) 001 001 130—6
NY Mets 120 200 30x—8

E: Winningham, Darling, Quinones. HR: Larkin (1), Jefferson (1). SB: Boston (3).

	IP	H	R	ER	BB	SO
Cincinnati						
Scudder (L 0-1)	3	5	3	3	2	1
Layana	2	2	2	1	2	2
Brown	12-3	5	3	3	0	0
Minutelli	1-3	0	0	0	0	0
Gross	1	1	0	0	1	0
New York						
Gooden (W 2-0)	4	3	1	1	0	2
Darling	3	3	2	1	1	0
Pena	2	2	3	3	2	1

Giants 9, Brewers 8

LEADING HITTERS

Milwaukee	ab	r	h	bi	San Francisco	ab	r	h	bi
Castillo 3b	5	2	2	4	McGee cf	3	0	1	1
Randlph 2b	5	1	2	1	Leonard rf	2	1	2	3
Maldndo lf	2	1	2	2	Leach ph	1	0	1	1
Brantly rf	4	0	2	0	Clark 1b	4	1	2	1
Totals	37	8	11	8	Totals	35	9	13	8

Milwaukee 000 012 401—8
San Francisco 000 114 03x—9

E: Felder, Litton, George, Anderson. HR: Maldonado (1), Castillo (1). SB: Santana (2), Litton (2).

	IP	H	R	ER	BB	SO
Milwaukee						
Navarro	5	5	2	2	1	2
Machado	1	5	4	4	0	1
Crim	1	1	0	0	0	0
George (L 0-1)	1	2	3	0	1	0
San Francisco						
LaCoss	5	3	1	1	1	3
Ard	1	3	2	2	0	0
Oliveras	1	2	4	3	1	0
Segura (W 1-0)	1	2	0	0	0	1
Righetti (S 1)	1	1	1	0	0	0

Padres 8, Cubs 6

LEADING HITTERS

San Diego	ab	r	h	bi	Chicago	ab	r	h	bi
Roberts 2b	4	1	3	2	Dascenzo cf	5	1	1	1
Santiago c	3	2	3	2	Grace 1b	3	1	2	3
Garner 1b	4	0	2	2	DwSmith rf	3	1	1	1
Vatcher cf	3	1	2	0	Salazar 3b	3	1	2	0
Totals	40	8	15	7	Totals	36	6	9	6

San Diego 100 301 300—8
Chicago Cubs 011 130 000—6

E: Grace, Boskie, Sandberg, Roberts, Bell, Vizcaino. HR: DwSmith (2), Grace (1), Santiago (2), Roberts. SB: Fernandez, Howard.

	IP	H	R	ER	BB	SO
San Diego						
Benes	3	3	2	2	1	1
DiMichele	2	5	4	4	1	1
Clemnts (W 1-0)	3	1	0	0	1	5
Sierra (S 1)	1	0	0	0	1	0
Chicago						
Boskie	4	6	4	3	0	0
Wilson (L 1-1)	3	7	4	3	0	4
Williams	2	2	0	0	0	2

Yankees 13, Reds 11

LEADING HITTERS

NY Yankees	ab	r	h	bi	Cincinnati	ab	r	h	bi
Wlwnder ss	4	1	2	0	Sanders cf	5	1	1	2
Leyritz c	4	1	1	2	Sutko c	3	1	2	1
Maas 1b	5	2	2	0	Oliver ph	3	2	1	1
Meulens lf	5	2	2	3	Jones lf	4	2	3	4
Humphry rf	1	2	1	3					
DSax c	2	1	1	2					
Totals	38	13	10	11	Totals	39	11	13	10

NY Yankees (ss) 005 050 030—13
Cincinnati (ss) 102 200 402—11

E: Leyritz 2, Lonigro 2, Wilson. HR: Leyritz (1), Humphreys (2), Sanders (1), Sutko (1), Jones 2 (2), Meulens (2), Oliver (1), DSax (1). SB: Walewander 2 (4).

	IP	H	R	ER	BB	SO
New York						
Witt	3	3	3	3	4	2
Taylor (W 1-0)	32-3	6	6	3	1	3
Monteleone	11-3	1	0	0	0	2
Gardella	1	3	2	2	2	2
Cincinnati						
Hammond	2	0	0	0	3	2
Sanford	1	4	5	5	1	1
Foster (L 0-1)	12-3	3	5	3	2	4
Powell	11-3	0	0	0	2	2
Risley	1	0	0	0	1	0
Hill	1	2	3	3	1	1
Dibble	1	1	0	0	1	2

Angels 5, Mariners 3

LEADING HITTERS

California	ab	r	h	bi	Seattle	ab	r	h	bi
Winfild dh	4	1	1	4	Jones lf	4	0	1	1
Totals	31	5	5	5	Totals	34	3	6	2

California 000 050 000—5
Seattle 000 000 111—3

E: Valle, Stevens, Anderson, CJackson. HR: Winfield (1). SB: Stevens (1).

	IP	H	R	ER	BB	SO
California						
Abbott	3	2	0	0	0	4
Lewis (W 1-0)	3	0	0	0	1	3
Bannister	2	2	2	1	1	2
Keough	1	2	1	1	0	0
Seattle						
Johnson	4	0	0	0	2	2
MJackson (L 0-1)	2	3	5	5	1	1
Krueger	2	1	0	0	1	0
Harris	1	1	0	0	0	0

Indians 14, Athletics 4

LEADING HITTERS

Cleveland	ab	r	h	bi	Oakland	ab	r	h	bi
Cole cf	4	0	0	0	Howitt lf	4	1	2	2
Kirby cf	1	1	1	1	Steinbach c	3	1	2	1
Browne 2b	4	2	2	1	DHenderson cf	3	0	2	1
Allred rf	2	2	1	2					
Ward rf	1	2	1	1					
Kittle dh	4	2	2	3					
Belle lf	4	2	3	5					
Totals	40	14	13	13	Totals	30	4	7	4

Cleveland 302 000 450—14
Oakland 100 000 300— 4

E: Komminsk. HR: Kittle (1), Belle 2 (2), Allred (1), Howitt (2), Steinbach (1).

	IP	H	R	ER	BB	SO
Cleveland						
Blair (W 1-0)	3	3	1	1	0	1
Nagy	3	1	0	0	2	1
Wickander	2	2	3	3	2	2
Jones	1	1	0	0	0	1
Oakland						
Moore (L 0-1)	3	5	5	5	2	3
Van Poppel	3	0	0	0	1	0
Honeycutt	1	5	4	4	0	0
Chitren	2	3	5	5	2	1

Red Sox 4, Royals 2

LEADING HITTERS

Kansas City	ab	r	h	bi	Boston	ab	r	h	bi
Pecota ss	4	1	1	1	Burks cf	4	1	2	0
					Panmkovitz 2b	4	1	1	1
					Plantier lf	3	1	1	1
					Quintana 1b	4	0	2	0
Totals	31	2	5	2	Totals	30	4	9	3

Kansas City (ss) 000 000 110—2
Boston (ss) 003 000 01x—4

E: Ryan. HR: Pecota (2). SB: Thurman 2 (2), Brumfield, Burks.

	IP	H	R	ER	BB	SO
Kansas City						
Wagner (L 0-1)	3	5	3	3	2	2
Corbin	2	1	0	0	1	1
Smith	1	1	0	0	0	0
Encarnacion	1	1	0	0	0	0
Johnston	1	1	1	0	0	1
Boston						
Kiecker (W 1-0)	4	0	0	0	2	5
Lamp	3	3	1	1	0	0
Irvine	1	2	1	1	0	0
Fossas S, 1	1	0	0	0	0	0

Blue Jays 12, Red Sox 3

LEADING HITTERS

Boston	ab	r	h	bi	Toronto	ab	r	h	bi
Reed 2b	3	1	1	1	White cf	3	1	3	3
Romine rf	3	1	1	1	Carter rf	4	2	3	2
Moses cf	4	1	2	0	Mulliniks dh	2	0	2	1
Vaughn 1b	4	0	2	0	Tabler 1b	3	1	2	0
					Williams cf	1	1	1	1
					Gruber 3b	4	2	2	1
Totals	35	3	8	3	Totals	37	12	16	11

Boston (ss) 012 000 000— 3
Toronto 211 051 20x—12

E: Naehring. HR: Romine (1), Carter (2). SB: White.

	IP	H	R	ER	BB	SO
Boston						
Manzanll (L 0-1)	3	6	4	4	1	1
Fischer	2	5	5	0	1	0
Livernois	2	4	3	3	1	4
Gray	1	1	0	0	0	0
Toronto						
Stottlemyre	3	5	3	3	2	3
Fraser (W 1-0)	2	2	0	0	0	0
Acker	1	0	0	0	0	0
Sanchez	2	1	0	0	2	1
Ward	1	0	0	0	1	2

Yankees 8, Expos 7

LEADING HITTERS

Montreal	ab	r	h	bi	New York	ab	r	h	bi
DeShlds 2b	2	1	1	0	Sheridn cf	3	0	1	1
DMrtnz cf	3	1	1	1	Mtngly 1b	3	1	2	0
Caldern lf	4	1	1	2	Hall lf	4	1	1	3
Hassey 1b	3	1	1	1	Balboni dh	4	0	0	0
Bullock rf	4	1	1	1	Velarde 3b	4	2	3	0
Barberi 3b	4	1	2	0	PKelly 2b	3	1	1	1
Reyes c	4	1	2	0					
Totals	37	7	12	6	Totals	31	8	8	7

Montreal 007 000 000—7
NY Yankees (ss) 005 200 10x—8

E: Hassey, Barberie, Riesgo, PKelly. DP: Montreal 3, New York 3. LOB: Montreal 5, New York 4. 2B: DaMartinez, Calderon, Owen. 3B: PKelly. HR: Hall (2). SB: Walker, Bullock (2), Barberie. S: PKelly.

	IP	H	R	ER	BB	SO
Montreal						
Nabholz	3	5	5	5	2	0
Mahler	3	2	2	2	2	2
Long (L 0-1)	2	1	1	0	0	2
New York						
Eiland	3	9	7	7	0	0
Kamienieckl	3	1	0	0	1	1
Guettrmn W,1-0	1	0	0	0	1	0
Farr (S 1)	2	2	0	0	0	0

Phillies 4, Pirates 2

LEADING HITTERS

Phila	ab	r	h	bi	Pittsburgh	ab	r	h	bi
Kruk lf	4	1	2	1	Rirdsn ss	1	0	0	0
Chmbln lf	1	1	1	0	King 3b	4	0	1	0
Murphy rf	4	0	2	1	Bonilla rf	2	1	1	0
Longmr rf	1	0	1	1	Merced rf	2	0	1	0
CHayes 3b	4	0	0	0	Bonds lf	3	1	1	2
Jordan 1b	4	1	2	0	Martinz 1b	4	0	0	0
Thon ss	4	0	4	0	Slaught c	2	0	2	0
Totals	40	4	14	4	Totals	33	2	7	2

Philadelphia 001 000 111—4
Pittsburgh 000 020 000—2

E: Morandini. DP: Philadelphia 1. LOB: Philadelphia 12, Pittsburgh 9. 2B: Kruk. 3B: Kruk, Backman, Chamberlain. HR: Bonds (1).

	IP	H	R	ER	BB	SO
Philadelphia						
Greene	3	0	0	0	1	1
Grimsley	3	4	2	2	2	3
Akerfids (W 1-0)	1	1	0	0	0	0
McElroy (S 1)	2	2	0	0	2	0
Pittsburgh						
Drabek	3	4	1	1	1	2
Tomlin	2	3	0	0	1	1
Kipper	2	2	1	1	0	1
York (L 0-1)	2	5	2	2	1	3

Royals 3, Astros 3

LEADING HITTERS

Houston	ab	r	h	bi	Kansas City	ab	r	h	bi
Hunter cf	2	0	0	0	Gibson dh	3	0	2	0
Mota 2b	2	0	1	0	Brett 1b	4	1	2	0
Simms dh	3	1	1	2	Tartabl rf	4	0	1	1
Anthony rf	4	1	1	1	dlsSnts 3b	4	0	0	0
Bagwell 3b	5	0	2	0	Mcfrlne c	2	0	0	0
Cedeno ss	2	0	0	0	Howard ss	5	2	2	0
Totals	41	3	7	3	Totals	37	3	11	2

Houston (ss) 000 002 001 00—3
Kansas City (ss) 001 001 001 00—3

Game called after 11 innings, pitcher shortage.

E: Zuvella. HR: Simms (2), Anthony (1). S: Stillwell, Zuvella. SF: Tartabull.

	IP	H	R	ER	BB	SO
Houston						
Sebra	3	4	1	1	3	1
Kaiser	2	0	0	0	1	0
Cano	1	3	1	1	0	0
Tunnell	1	2	0	0	1	1
Coffman	1	0	0	0	1	1
Osuna	1-3	1	1	1	2	0
Meyer	22-3	1	0	0	2	1
Kansas City						
Appier	41-3	1	0	0	1	3
Schatzeder	22-3	2	2	2	1	1
Mathews	1	1	0	0	0	1
Maldonado	3	3	1	1	0	3

Cardinals 6, Rangers 1

LEADING HITTERS

Texas	ab	r	h	bi	St. Louis	ab	r	h	bi
Huson ss	3	1	1	0	Thmpsn rf	2	1	1	0
Petralli c	2	0	1	0	OSmith ss	4	1	2	1
Dghrty lf	4	0	1	1	Hudler cf	3	1	1	1
Totals	30	1	5	1	Totals	31	6	10	4

Texas 000 001 000—1
St. Louis 000 013 20x—6

E: Petralli. SB: Thompson 2 (2), Huson (1), Hudler (1), OSmith (1), Jones (1).

	IP	H	R	ER	BB	SO
Texas						
Barfield	3	2	0	0	1	0
Poole	1	0	0	0	0	1
Wells (L 0-1)	2	4	4	3	2	0
Kerfeld	1	2	2	2	1	1
Arnsberg	1	2	0	0	0	0
St. Louis						
Tewksbury	4	2	0	0	1	4
Perez	1	0	0	0	0	2
Olivares (W 1-0)	1	2	1	1	1	0
Terry	2	1	0	0	1	1
LSmith	1	0	0	0	0	2

Twins 7, White Sox 5

LEADING HITTERS

Chicago	ab	r	h	bi	Minnesota	ab	r	h	bi
Cangels cf	4	0	2	0	Howell cf	3	0	1	1
Sosa rf	3	1	1	0	Munoz lf	4	2	3	3
Hill rf	1	1	1	0	Davis dh	3	2	1	2
Lee lf	2	0	1	2	Sheaffer c	1	0	0	0
Merullo c	5	1	3	1	Hrbek 1b	3	0	1	0
Totals	37	5	12	5	Totals	31	7	9	6

White Sox (ss) 000 101 012—5
Minnesota 004 030 00x—7

E: Merullo, Nelson, Grebeck, Lyons 2. HR: Davis (1), Munoz (1). SB: Sosa (1), Cangelosi (2), Meacham (1).

	IP	H	R	ER	BB	SO
Chicago						
Drees (L 0-1)	3	4	4	1	1	1
Hernandez	1	1	0	0	0	0
WAlvarez	1	3	3	2	1	0
Brito	1	0	0	0	0	0
Drahman	1	0	0	0	1	0
Patterson	1	1	0	0	0	1
Minnesota						
Andersn (W 1-0)	3	3	0	0	0	2
Aguilera	2	3	1	1	0	0
Edens	2	4	1	1	2	1
Casian	1	1	1	1	0	0
Drummond	1	1	2	2	2	0

Brogna awaiting one more key date

TIGERS, from Page 1C

He asked his girlfriend, Melissa, for a walk. But it wasn't through the snowy New England woods of Robert Frost.

Rico proposed in a parking lot.

"I wanted to make it romantic, but I was too nervous," he said, laughing. "I kind of wanted to get it over with as quickly as possible.

"It was a cold night. I told her I had a gift to give her. I think she thought, 'It's freezing out here. Give me the gift. I want to get back in.'

"I wanted to get down on a knee, very badly. I swear I was going to do it. But I didn't, because I was too nervous. I wanted to get it over with."

■ Opening Day, Tiger Stadium, 1992. This likely will be the first time Brogna sees the green grass at Michigan and Trumbull.

"I was at Tiger Stadium last winter to get treatment on my back," he said. "It was the first time I had been to Detroit. I deliberately didn't want to look at the field.

"I don't want to look at it until I'm called up."

The Tigers plan for Brogna to enter their everyday lineup next season. He is a left-handed-hitting first baseman who has ascended through the minors since the Tigers made him their top draft pick three years ago. He will complete his minor-league education at Triple-A Toledo this season.

Brogna, 20, has swarthy good looks, a shy smile, and black, curly hair. He must have gotten those from his father, Joe, an Italian-American who grew up in Boston's North End rooting for Ted Williams.

He says he tends to be competitive to the point of stubbornness. His manners bespeak the care and devotion of his mom, Louise — a devotion that makes her yell so passionately for her son that he can pick out her voice in a stadium with 10,000 people in it.

He thinks sports is in his blood, because his dad was a semi-pro basketball player who turned into a teacher and prep school coach.

His nickname is Boomer, after Boomer Esiason, the Cincinnati Bengals' left-handed quarterback. Brogna, who was a southpaw quarterback at Watertown High, received more than 100 scholarship offers from coast to coast. (Michigan recruited him, but he didn't meet Bo Schembechler.)

Brogna signed a letter of intent to play both sports at Clemson. Then the Tigers drafted him No. 1, and he didn't agonize long before signing. He couldn't pass up the opportunity to play professionally in the sport he loved.

"My dream is to make the big leagues," he said.

Pause. The competitor in him was flaring.

"When I was in high school," Brogna said, one big-league scout told my dad that I would be in the big leagues, but I'd be in the crowd, that I wouldn't excel.

"That has stuck with me. I want to do well. My other dream is to play on a world championship team. That would be the ultimate."

The major league thrills already have started. He and a few other minor leaguers joined the Tigers for Wednesday's game at Sarasota, Fla., against the White Sox. When the Tigers walked into the field, there was the noble Fisk, Brogna's hero, taking batting practice.

At the minor-league clubhouse Thursday morning, Brogna thought about seeing Fisk and said, "That was a reality check. I was talking with some guys in the dugout about meeting him. I'd want do it if I was a little more established. I'd probably be a little too nervous right now."

Brogna hopes one of his thrills next year will be his first game at Fenway Park, where he has watched the Red Sox many times.

"It's not even a field," he said. "It's . . . "

For the next several seconds, he searched for the noun that would express his feeling. He couldn't summon one.

"It's Fenway Park," he finally said, as if only the name could describe the place. "It's so classic and traditional. I think of all the players who played there. My dad watched Ted Williams there. And then for him to get to see his son out there will be very special"

Suddenly, in his mind, Brogna was standing in a Tigers uniform in the same batter's box that Williams used, looking out at Fenway's 37-foot Green Monster in left.

"I hit the ball to left-center a lot," he said. "Maybe I can knock a few off The Wall."

STANDOUTS

■ **DANA KIECKER, Red Sox:** Pitched four hitless innings, striking out five, in a 4-2 win over Kansas City.

■ **DEVON WHITE, Blue Jays:** Had three hits and three RBIs in a 12-3 win over the Red Sox, as did **Joe Carter** (second homer).

■ **DICKIE THON, Phillies:** Went 4-for-4, raising his average to .688 (11-for-16), in a 4-2 win over the Pirates.

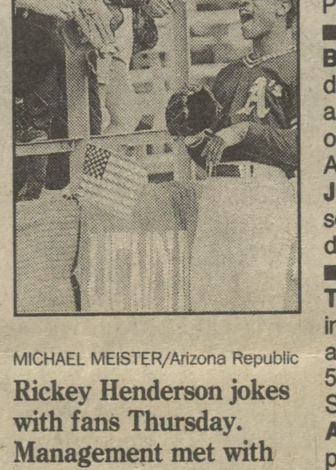
■ **RON GANT, Braves:** Singled, doubled and drove in a run in a 12-2 win over the Dodgers. Atlanta's **Dave Justice** hit his second homer and drove in three runs.

■ **PEDRO MUNOZ, Twins:** Was 3-for-4, including a homer and three RBIs, in a 7-5 win over the White Sox. Minnesota's **Allan Anderson** pitched three shutout innings.

■ **BENITO SANTIAGO, Padres:** Was 3-for-3 with a homer in the Padres' 8-6 win over the Cubs. San Diego's **Pat Clements** allowed one hit in three innings.

■ **KEVIN APPIER, Royals:** Pitched 4⅓ scoreless innings, allowing one hit, in a 3-3, 11-inning tie with the Astros.

■ **DAVE WINFIELD, Angels:** Hit a grand slam in a 5-3 win over the Mariners.



MICHAEL MEISTER/Arizona Republic

Rickey Henderson jokes with fans Thursday. Management met with the holdout outfielder — unhappy with his four-year, $12 million contract — and stressed that it will not be renegotiated.

TIGERS CORNER

Home games shaded in gray

Sun.	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.
10	11	12	13	14	15	16
Bos. 13, Det. 7	Det. 7, KC 5	Hou. 7, Det. 6 (11)	W. Sox 4, Det. 3 (4½, rain)	Hou. 10, Det. 6	KC 1:30	St.L. 1:05, TV
17	18	19	20	21	22	23
Tex. 1:30	Hou. 7:30	Bal/Bos 1:35, 7:30	Tor. 1:35	KC 1:30	Cin. 1:05	St.L. 1:30 TV
24	25	26	27	28	29	30
Min. 1:05	Tex. 1:30	KC 1:05	Tor. 1:30	Bos. 1:05	LA 1:30	Min. 1:30 TV

Cuyler makes gains; Lemon still has pain

By JOHN LOWE
Free Press Sports Writer

KISSIMMEE, Fla. — Milt Cuyler might already be gaining on Chet Lemon in the battle for the Tigers' centerfield job.

While Cuyler continues to do something noticeable almost daily, Lemon already is out with the kind of nagging injury that repeatedly made him unavailable last season.

Lemon didn't accompany the Tigers for Thursday night's game against Houston in Kissimmee. He missed his fourth straight game with a sore shoulder.

"I have no idea when he will play," Tigers manager Sparky Anderson said.

Anderson wouldn't say the injury is harming Lemon's chances of winning the job. But, perhaps significantly, he did depict the job as being open.

"What we do is up to Cuyler and is up to Chet," Anderson said.

In the Tigers' 10-6 loss to Houston, Cuyler went from first to third on a bunt single by pitcher John Cerutti. Houston shortstop Eric Yelding chased Cuyler for several feet toward unoccupied third base.

The other day, Cuyler scored from second base on a sacrifice fly.

Cuyler was 2-for-3 with a walk Thursday night. He's 6-for-14 with five walks this spring — an on-base percentage well over .500. Lemon is hitless in five at-bats.

Even if Cuyler wins the job in spring training, Anderson might not announce it until after the regular season starts. Anderson saw what happened when he anointed rookies Chris Pittaro and Torey Lovullo as starters entering a season. Under much scrutiny, they slumped from the outset.

"I'm probably not going to do that again," he said.

UGLY DEJA VU: Other than a grand slam, about the worst thing a left-handed pitcher can allow is a three-run homer to a left-handed batter.

That has been **Jerry Don Gleaton's** fate in both of his exhibition appearances this spring, in which he has given up a total of 10 earned runs in three innings.

Houston's **Jose Tolentino** lofted a three-run homer in the fifth inning, putting the Astros ahead for good.

True, a steady breeze was blowing out to right — and probably helped Tolentino's ball go out.

Gleaton allowed one homer to a left-handed hitter all last season.

NOTES: The crowd of 5,077 at Osceola County Stadium contained more Tigers fans than Astros fans. **Mickey Tettleton** earned a standing ovation for his grand slam that capped a five-run third. . . . **Cecil Fielder** put the crowd in a tizzy with a foul ball dozens of feet beyond the leftfield fence on his first swing of the night. . . . Anderson said third baseman **Travis Fryman** will play today. He has been out with a hamstring injury since playing in the spring opener eight days ago.

TODAY/ROYALS

■ **WHAT:** Tigers vs. Kansas City at Lakeland, Fla., 1:30 p.m.
■ **TV/RADIO:** WJR-AM (760).
■ **PITCHERS: Kansas City** — Storm Davis, Andy McGaffigan, Mark Davis, Daryl Smith. **Detroit** — Dan Petry, Dave Haas, Jose Ramos, Mike Dalton.

Parker to Angels for Bichette, 1 other

Free Press Wire Reports

CHANDLER, Ariz. — The Milwaukee Brewers traded Dave Parker to the California Angels Thursday for outfielder Dante Bichette and a player to be named, Brewers general manager Harry Dalton said.

Parker, 39, a 17-year veteran acquired by Milwaukee as a free agent in December 1989, batted .289 with 21 home runs and 92 RBIs in 157 games last season. He was named the American League's outstanding designated hitter of the year for a second consecutive year.

AROUND THE HORN

Bichette, 27, who joined the Angels organization as a 1984 draft pick and made his major league debut Sept. 5, 1989, hit .255 with 15 home runs and 53 RBIs in 109 games last season.

Parker became expendable with the spring performance of non-roster invitee Candy Maldonado (.500). If Maldonado makes the Brewers, he will be the team's designated hitter.

■ **CLEVELAND:** Centerfielder **Alex Cole** suffered a dislocated right shoulder Thursday when he tripped coming out of the batter's box during an exhibition game, and will be sidelined indefinitely. Cole, 25, stole 40 bases in 63 games last year as a rookie.

■ **KANSAS CITY:** Left-hander **Jim Campbell** was placed on waivers for the purpose of giving him unconditional release . . . Pitchers **Daryl Smith** and **Luis Encarnacion**, outfielder **Jacob Brumfield** and catcher **Colin Ryan** were sent to the team's minor league camp for reassignment.

■ **NY METS:** Catcher **Rick Cerone** suffered a fractured ring finger on his glove hand when trying to stop **Dwight Gooden's** fastball. He'll be out a couple days.

■ **PHILADELPHIA:** Right-hander **Ken Howell**, a Detroit native, underwent successful surgery to remove a bone spur from his shoulder. Dr. **Phillip Marone,** the Phillies team physician, said there were no complications and that Howell should be able to return to the Phillies in early June. Howell missed about half of last season because of tendinitis in his shoulder. Howell was 8-3 last season before reporting pain in his shoulder. He finished 8-7 with a 4.64 ERA.

RECREATION

ABC's big party belongs in Detroit

MATT FIORITO
Bowling

TOLEDO — As I entered the SeaGate Centre here to take a look at my first American Bowling Congress national tournament, my first thought was, "Wow, this is great."

A portable 40-lane bowling center has been assembled inside the cavernous convention hall, and it was filled with hundreds of people wearing bowling shirts from states from around the country. From the front, where flags of every state adorned the foyer, to the back, where a multimillion-dollar electronic baseball-style scoreboard kept frame-by-frame track of 200 bowlers, it was an impressive sight to a first-timer.

My second thought was, "Why doesn't Detroit do this?"

The tournament started Feb. 9 and will run to June 1. It will attract about 60,000 bowlers and visitors — about 500 a day for 110-115 days — who are expected to spend $25 million to $30 million.

And even though there are those who will say "there's nothing to do in Toledo," it has a lot to offer those willing to look around a little.

But — with perhaps one exception — Toledo doesn't have anything that Detroit doesn't. Toledo has fine restaurants and lots of hotel rooms downtown. Detroit has more restaurants, bigger hotels and attractions such as the People Mover, Greektown, the Renaissance Center and the pro sports.

Detroit has plenty to offer to offset the down side of its image. And most of all, it has the Cobo Convention Center, much expanded and improved since Detroit hosted the tournament in 1971. The new center is big enough to hold the tournament and still accommodate other functions.

But perhaps what Detroit doesn't have is someone with the vision and ambition to pursue such a spectacle. At least no one has stepped forth since 1971.

"You've got to be willing to spend money and you've got to be persistent," said Richard Nachazel, executive director of the Greater Toledo Office of Tourism and Conventions.

Five years before it received a penny in return, Toledo had to ante up a rights fee of $240,000, which was put in escrow in a Toledo bank. Although the city never recovers that money directly, the ABC uses it to pay the local labor force used to reconstruct the portable 40-lane center.

The persistence comes in trying to sell your city to the ABC delegates. Even though Toledo had hosted the ABC tournament six times previously (or perhaps because of that), "We lost three bids before this one was accepted," Nachazel said. "It also takes long-term planning. We've been working on this for seven years."

Next year's tournament will be in Corpus Christi, Texas. Then it goes to Tulsa, Okla., Mobile, Ala., Reno, Nev., and a site to be named this year. But how about Detroit in 1997 or '98 — or even 2001, making it an even 30 years?

The Greater Detroit Bowling Association would have to make the bid, but the impetus, says GDBA executive director Tom McKay, has to come from the city. "They're the ones that have to raise the money," he said. "But we'd certainly be glad to sit down and talk with anyone."

It's a talk that's long overdue.

NOTEBOOK: The highlights for Detroit-area ABC bowlers so far in March are **Bill Daniels'** 813, good for third place in singles, and **Bob Goike's** record-breaking 25-game 200 streak. Goike closed the 1989 tournament with seven games above 200, and was above 200 all nine games last year and this year. Goike, the 1984 all-events champ with 2,142, totaled 2,120 this year, not good enough for the top 10. A disappointment, although a mild one, was **Joe Norris'** failure to get the career total-pins record. Norris, 83, bowling his 62nd tournament, needed a 1,744 all-events total to beat the record of 109,398 set by the late **Bill Doerhman**. He got 1,703. His bid was hampered in the second frame of his first game, when his right shoe stuck on the approach and he banked the ball off his ankle into the gutter. He was limping noticeably for sometime afterward. But Norris, the first Stroh's team captain, retained his upbeat outlook. "I did that (missed the record) for you writers," he said. "It will give you something to write about next year."

GET UP AND GO

Aerobics

■ **Instructors workshops:** March 23, Franklin Racquet Club, 29350 Northwestern Highway, Southfield. 9 a.m.-noon with Scott Cole, 1-4 p.m. with Joan Wenson. Fee: $50 ($85 for both sessions, $55 and $95 at the door; group discounts). Call 352-8000.

Baseball

■ **Stan Musial Federation:** Experienced college or federation players, 19-older, needed for St. Clair Shores team. Call 294-0821 (6-6:30 p.m.).

■ **Spring break hitting camp:** April 1-4, 9:30 a.m.-1:30 p.m., Grand Slam USA, 42930 W. 10 Mile, Novi. Ages 7-17. Fee: $75. Call 348-8338.

Darts

■ **St. Patrick's Day Shoot-Out:** Sunday, 3 p.m., City Lites, 14200 Gratiot. Registration begins at 1 for mixed triple teams. Fee: $10. Call 526-8120.

Hockey

■ **Melvindale Easter clinic:** April 1-5, 6 p.m., Melvindale Ice Arena, 4300 S. Dearborn. Ages 6-14. Fee: $35. Call 928-1201.

Running

■ **St. Pat's run and pancake breakfast:** 1-, 3- and 5-mile runs, Saturday, Livonia Family YMCA, Stark Road. Fee: $11. Call 261-2161.

■ **Briarwood Run (5K, 10K, 20K):** April 14, 9 a.m., Briarwood Mall, Ann Arbor. Fee: $8 before April 8 ($11 race day; T-shirts extra). Call 769-9610 or 665-7052.

Soccer

■ **Metro American Soccer League:** Team and individual registration. Call 758-4497 (6-9 p.m.).

Softball

■ **Berkley:** Men's and coed registration. Fees: $255 for 12-game season, $360 for 20 games (due today). Call 546-2450.

■ **Softball City:** Men's, women's, coed leagues begin April 8. Call 368-1850.

■ **West Bloomfield:** Team registration for men's C (Monday, Wednesday nights), men's 35-over (Tuesdays, Thursdays), men's D (Fridays) and co-ed (Fridays). Team fees: $215-$325. Call 334-5660.

■ **Canton Softball Center:** Men's, women's, co-ed begin April 14. Team fee: $295. Call 483-5600, ext. 102.

■ **Macomb Christian Association:** Need church teams to play Monday nights. Call 776-4315.

Send notice of your event to Get Up and Go, Sports Department, Detroit Free Press, 321 W. Lafayette, Detroit 48226. Include phone number with times readers may call for information.

to recomm… …nity …that instructor. Woods, a 31-ye… …with a bright smile and an eve… more glowing perspective on fly fishing, teaches a series of summer classes through her own shop, Steamboat Lake Fishing Company.

To understand this Illinois native's le…

"Wo… more. Me… ready.

"A classic example is in casting. Men love to false cast and see how much line they can throw, even though the fish may be jumping at their feet."

women to be… like to chit-chat a litt… things through. I allo… pen."

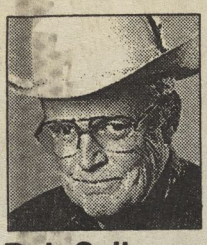
Otherwise, the instru… fairly standard: preli…

Endangered fish: money over dam?

Sitting in front of me as I write this is a pile of reports from the the U.S. Fish and Wildlife Service (USFWS).

The stack is 2 inches thick and the first thought that comes to mind is that some tree gave up its life for this. (Of course, you could say the same thing about your daily newspaper, but the question is, which is the better bargain?)

The sections in this imposing pile have titles such as, "Recovery Implementation Program for Endangered Fish Species in the Upper Colorado River Basin," "Nonnative Fishes in Natural Ecosystems and a Strategic Plan for Control of Nonnatives in the Upper Colorado River Basin," and "Relationship of Streamflow, Geomorphology, and Food Web Studies in Recovery of the Endangered Fishes in the Upper Colorado River Basin."



Bob Saile
Western Outdoors

The titles alone are enough to induce a coma. Much of it, in bureaucratic style, is repetitive. It's all an explanation for, and a justification of, the money and measures being expended to try to save four endangered species in the Colorado River system — the Colorado squawfish, humpback chub, razorback sucker and bonytail chub. All are native fish that were devastated by habitat changes (mainly dams) and competition from introduced, nonnative species.

One of the more revealing parts of this official manifesto is the cost of the program: A conservatively estimated $104 million will be spent over the next eight years. The reports didn't mention it, but at least $30 million to as much as $57 million already has been spent since the passage of the current version of the Endangered Species Act in 1973. (The lower figure is an official USFWS estimate; the higher one is from a private organization's audit of the program.)

The feds are the last of the big-time spenders when it comes to protecting endangered fish, including the costs of preparing reports and hiring outside consultants. Given a noble mission, a federal program is the governmental field of dreams: Build it and it will grow.

A fair amount of this money, and the time of USFWS employees, has been spent in fretting over what to do about the presence of nonnative sport fish that compete with the endangered native fish. Since the sport fish — bass, pike, catfish and others — are managed primarily by the Colorado Division of Wildlife and other state wildlife agencies, state fishery people have been dragged into the debate, along with the money and time they must spend on endangered species while trying to protect the interests of the license-buying angler.

And after five years of haggling, we still don't have a concrete policy on just which fish can be stocked where. USFWS has offered various options, most of them allowing trout stocking anywhere but restricting stocking of certain other, nonnative, sport-fish species to specific areas.

Meanwhile, USFWS takes measures detrimental to those who enjoy fishing for these nasty, nonnative sport fish that may eat a squawfish or a humpback chub. These measures include attempting to remove the offending sport fish — such as northern pike in the Yampa and Gunnison rivers and other species in riverside ponds. (I wonder how many squawfish have been eaten by bigger squawfish.)

The program also forces the release of high flows from dams such as Ruedi Dam on the Fryingpan River, to benefit the endangered species.

We have built and continue to build special hatcheries to hatch and raise the endangered species for replenishment of lost fish, but hundreds of thousands already have been stocked — and didn't survive. There is a serious question whether hatchery efforts may compromise the genetic integrity of the endangered fish.

Where has all this gotten us? Basically, we have helped sustain populations of Colorado squawfish and humpback chubs in a few areas, while the other two species are still in grave danger of extinction.

The Colorado River recovery program is close to the most expensive such program in the country, out of programs involving more than 300 endangered species.

Whose money is this? Well, large percentages come from federal income taxes and from revenues charged to hydroelectric power producers — the people who built and operate the dams. Other, smaller portions come from various water users and from state funds. If you pay for power produced hydroelectrically on the Colorado River system, part of your bill helps finance the recovery program.

I wonder if the public really understands that this much money is being spent to save fish that are in trouble primarily because of habitat changes that can't be reversed, short of blowing up dams.

From an ecological perspective, one fish is just as valuable and irreplaceable as another. But in the realities of economics and recreation, sport fish are MORE valuable. That fact seems to be lost in the eagerness to issue Endangered Species Act edicts that hurt sport fishermen.

Can we have any real hope of replicating river conditions for native fish that prevailed a century ago, before the dams were built? Or of ridding river systems of nonnative fish that have been established there for decades?

Or should we accept the fact that some sport-fish species, native or not, adapt best to habitat butchery and concentrate on strengthening them?

These are questions we have a right to ask. After all, we're paying the bill.

ENDANGERED FISH

Endangered fish recovery status:

- **Colorado squawfish:** Most numerous of the four species. Stabilized in some areas, including the Yampa River and Green River in Utah; fewer in the main Colorado River.
- **Humpback chub:** Stabilized in some areas, but relatively low numbers, including in the Colorado River near the Utah line, the Cataract Canyon area of the Colorado, and the Green River in Utah.
- **Bonytail chub:** Few, if any, left in natural environments. Hatcheries will produce about 1,000 fish from lower Colorado River stock to place in selected areas.
- **Razorback sucker:** Relatively few left in the wild, mostly older, adult fish. Young not surviving for lack of slack-water, wetland areas. Population in Green River estimated at 250-500. Some being stocked in Green and Gunnison rivers.

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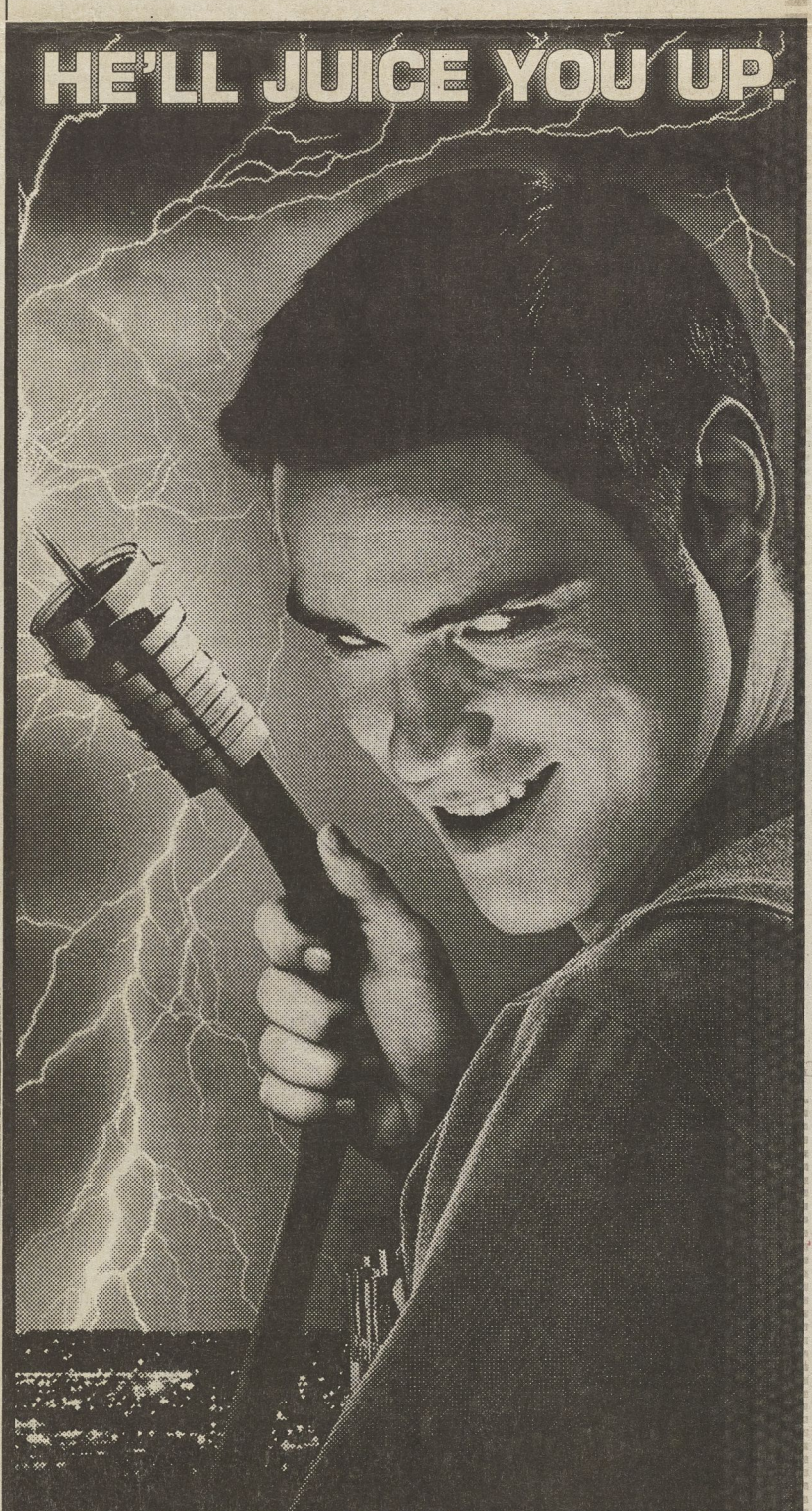

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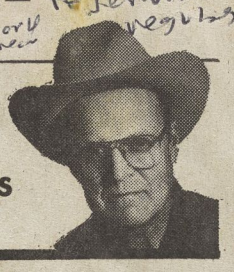
'Biodiversity' equals bureaucratic cop-out



BOB SAILE OUTDOORS

It is difficult for one who has chronicled 25 years of state-directed wildlife management successes in this country to get very enthusiastic about the concept of "biodiversity," otherwise known as "ecosystem management."

One problem is that I have yet to hear any federal or state agency, or any individual, for that matter, clearly define what these terms mean.

Apparently, though, they mean some sort of environmental utopia in which large tracts of land are "managed" only for species native to those areas.

Technically, under this approach, brown, brook and rainbow trout would be foreign to the entire state of Colorado, not to mention much of the rest of the country. In fact, browns wouldn't fit into any ecosystem in America because they came here from Europe.

Pheasants would be interlopers from China. The Rio Grande turkeys now along our eastern plains river bottoms would be *non grata* non-natives. We would have to send them back to Texas. Walleyes would be banished back east somewhere.

The 100,000 or so Canada geese that spend winter here now just wouldn't fit the criteria for "biodiversity." We would have to ask them to keep flying south.

All of the above species were established by wildlife managers in Colorado areas where they weren't native. And most of it was financed by money spent by hunters and anglers for licenses.

Therefore, this utopia now envisioned mostly by federal wildlife officials, backed up by private environmental groups, scares me.

As Eddie Kochman, state aquatic manager for the Colorado Division of Wildlife, puts it, there is "a growing challenge to state authority to manage wildlife . . . especially in relation to fish species that provide sport-fishing opportunity."

In a letter to a counterpart at the Idaho Fish and Game Department, Kochman vented some concerns:

"I now believe," he wrote, "that the current dialogue regarding biodiversity management has reached a point of being counterproductive. This belief is reinforced by such statements as, 'there is no place for non-native wildlife species on federal lands,' and 'federal agencies, not the states, should have primary responsibility for wildlife management decisions on federal lands.' I am frustrated by the amount of valuable resources that are going into defining what and who will undertake biodiversity management."

Hmmm. Maybe we're onto something here. Is this the main reason that three out of four times a telephone call is placed to a state wildlife official such as Kochman, that official is "in a meeting"?

Is this the reason it has taken two years just to come up with a trial procedure for deciding which fish the state can stock in what waters on the Western Slope in areas where native, endangered fish, such as the Colorado squawfish, live?

Doesn't anybody just make a decision anymore? Or is it wildlife management by committee? With copies of the committee minutes immediately faxed to the Sierra Club, or the Wilderness Society, or the Fund for Animals, or whoever currently is brandishing the ecosystem sword?

I am beginning to believe that the ecosystem management scheme, as it applies to decisions affecting wildlife species, is the ultimate bureaucratic cop-out. Under this approach, nobody can do anything, stock anything, introduce anything, change anything or confirm anything without a dozen agency meetings, a half dozen public hearings, a roomful of lawyers and 150 pounds of impact statements and correspondence.

This all puts in my mind something that happened over in the Piceance Basin maybe 30 years ago. An area DOW wildlife manager got wind of a landowner who had locked up a public, county road to prevent deer hunters from going through to public land.

This wildlife manager didn't call a meeting or hold a hearing or write a batch of memos. He made a phone call: To somebody who operated a bulldozer. Then he built his own road to circumvent the barrier.

This guy rose pretty high through the ranks before he finally did something that the bureaucracy deemed unforgiveable.

The wonder is that he lasted as long as he did.

s,	[illegible]	[illegible].00	1	0	0	0	0	1.0	2	[illegible]	[illegible]	0	0	1
, Ma	[illegible]	[illegible].52	29	1	0	0	15	41.1	32	8	7	1	15	34
o, Juan	17-6	2.37	26	26	5	2	0	174.2	142	56	46	16	38	161
Jake	0-3	2.89	7	0	0	0	0	9.1	7	7	3	0	7	13
za, Rod	13-2	3.11	21	19	4	2	0	121.2	120	53	42	2	22	54
neider, Phil	10-8	3.12	31	21	2	1	0	135.2	117	54	47	8	47	94
s, Dave	1-5	3.18	39	1	0	0	9	68.0	53	28	24	6	12	53
, Roger	7-9	3.38	23	23	1	1	0	149.1	153	69	56	8	52	105
er, Lloyd	9-8	3.58	22	20	3	2	1	123.1	105	58	49	7	35	116
ga, Ivan	8-9	3.59	26	23	2	0	0	143.0	119	72	57	13	68	98
ins, Jason	0-1	8.13	24	0	0	0	0	34.1	33	32	31	6	32	30
ord, Larry	0-1	9.00	6	0	0	0	0	8.0	12	8	8	0	7	6
Mike	0-0	27.00	1	0	0	0	0	1.0	4	3	3	0	0	0

BEND (A) 28-44

	Pos	Avg	G	AB	R	H	2B	3B	HR	RBI	BB	SO	SB	CS	E
s, Gary	2B	.278	43	144	23	40	3	1	1	12	21	14	9	2	15
hews, Jon	1B	.263	43	133	12	35	3	0	0	12	24	24	3	1	5
ver, Buford	3B	.262	33	122	12	32	2	0	2	21	13	18	2	4	18
s, Forry	1B	.261	35	115	19	30	8	0	1	13	23	28	9	1	10
Ronnie	OF	.252	63	218	39	55	8	3	6	29	27	60	24	10	7
n, Derrick	OF	.250	69	272	44	68	16	5	12	56	27	100	13	4	8
ba, Danny	2B	.244	46	119	15	29	10	0	2	11	20	44	7	6	13
Lincoln	SS	.239	70	264	29	63	11	0	0	15	22	42	4	4	22
, Jose	1B	.214	23	56	6	12	1	1	2	10	6	28	1	0	9
au, James	OF	.212	41	104	17	22	4	0	2	9	13	50	7	0	3
l, Chad	OF	.211	54	185	15	39	10	1	4	25	14	57	2	1	3
, Kyle	SS	.203	56	192	21	39	6	2	0	11	12	28	4	3	24
ter, M.	C	.202	31	84	7	17	3	0	3	8	6	23	0	0	3
Yohel	C	.190	41	126	13	24	8	0	0	13	6	19	0	0	10
uskas, J.	C	.146	20	48	8	7	1	0	1	2	4	19	1	0	1

	W-L	ERA	G	GS	CG	Sh	SV	IP	H	R	ER	HR	BB	SO
n, Doug	5-3	2.34	10	10	0	0	0	57.2	50	23	15	4	21	75
Brian	2-3	3.00	23	3	0	0	5	57.0	41	23	19	1	25	73
, John	1-5	4.14	8	8	0	0	0	45.2	55	35	21	2	10	31
bourg, S.	1-2	4.24	27	0	0	0	3	34.0	43	21	16	1	11	28
Michael	3-7	4.31	15	15	0	0	0	79.1	67	51	38	7	33	69
ms, Denny	2-2	4.35	21	5	0	0	2	49.2	49	34	24	5	24	40
er, Brent	3-4	4.59	12	8	0	0	0	49.0	62	35	25	2	23	41
rd, Chris	2-2	4.60	22	0	0	0	0	29.1	39	22	15	5	14	26
Bill	2-3	6.35	15	0	0	0	2	28.1	36	23	20	1	11	29
dez, F.	1-1	6.61	20	0	0	0	0	31.1	47	32	23	8	20	29
Jose	0-3	9.57	21	0	0	0	1	26.1	37	33	28	5	19	14

	W-L	ERA	G	GS	CG	Sh	SV	IP	H	R	ER	HR	BB	SO
[illegible]													1	5
[illegible]											[illegible]	0	0	3
[illegible]											7	5	1	2	17
Neier, Chris	1-0	2.63	18	0	0	0	4	27.1	26	9	8	1	3	22
Rekar, Bryan	6-5	3.50	21	18	0	0	0	105.1	111	48	41	3	30	83
Thomson, John	3-1	3.61	8	7	0	0	0	42.1	40	18	17	0	17	33
* Kotarski, Mike	1-2	3.84	40	1	0	0	2	61.0	68	38	26	7	29	56
Johnson, Jason	4-11	3.90	20	19	1	1	0	94.2	94	57	41	7	36	63
Sobkoviak, Jeff	4-0	4.55	34	0	0	0	0	59.1	66	36	30	7	22	51
Moore, Joel	10-8	4.79	24	23	0	0	0	126.0	145	78	67	8	61	81
Henderson, Chris	5-3	5.25	50	4	0	0	7	72.0	70	45	42	6	48	71
* Conley, Curt	4-7	5.32	55	0	0	0	3	69.1	75	43	41	5	48	57

ROCKIES (A) 23-32

Player	Pos	Avg	G	AB	R	H	2B	3B	HR	RBI	BB	SO	SB	CS	E
Jimenez, Elvis	OF	.267	42	161	21	43	10	5	1	15	6	36	5	3	5
Demark, Dominic	OF	.252	39	123	17	31	7	0	2	20	7	36	0	0	2
* Niles, David	1B	.245	35	98	8	24	2	0	0	4	24	35	3	2	8
Arias, Rogello	C	.234	45	158	13	37	3	1	0	15	6	12	3	3	8
Mayber, Chan	SS	.229	45	170	21	39	5	1	0	8	12	33	4	3	13
# Peña, Elvis	2B	.228	49	171	31	39	5	2	0	9	35	47	20	12	21
Myers, Aaron	3B	.213	43	150	11	32	5	1	4	20	10	46	0	1	10
Melendez, E.	1B	.208	37	130	16	27	5	1	1	5	7	43	0	1	10
Reynolds, Paul	3B	.193	35	114	8	22	4	1	0	11	8	40	2	2	12
* Hallead, John	OF	.188	28	80	8	15	1	0	0	2	4	34	6	0	2
Allamo, Efrain	OF	.167	23	54	3	9	1	0	0	1	1	16	1	2	4
Acevedo, Juan	OF	.167	21	54	2	9	0	1	0	2	1	21	3	1	1
Castro, Luis	2B	.154	21	52	5	8	2	0	0	7	6	18	5	1	2
Rushdan, R.	OF	.148	44	142	7	21	0	2	0	9	9	43	4	4	4
Hoover, Will	C	.119	25	59	2	7	0	0	1	2	5	25	0	0	0
* Rodriguez, Jose	2B	.000	1	4	0	0	0	0	0	0	0	0	0	0	0

Pitcher	W-L	ERA	G	GS	CG	Sh	SV	IP	H	R	ER	HR	BB	SO
* Eden, Bill	1-0	0.00	1	0	0	0	0	2.0	0	0	0	0	0	2
Brownson, Mark	4-1	1.66	19	4	0	0	3	54.1	48	18	10	2	6	72
Hackman, Luther	1-3	2.10	12	12	0	0	0	55.2	50	21	13	1	16	63
Colmenares, Luis	1-0	2.51	12	0	0	0	5	14.1	16	7	4	1	4	20
* Gonzalez, J.	1-4	2.54	20	0	0	0	3	28.1	25	14	8	0	12	31
Gooch, Arnold	2-4	2.64	15	9	0	0	0	58.0	45	28	17	2	16	66
* D'Allssndro, M.	2-6	3.78	14	14	1	0	0	66.2	71	39	28	0	27	72
Keehn, Andrew	2-0	4.15	19	0	0	0	0	30.1	35	17	14	1	20	30
Burdick, Morgan	3-6	4.32	10	9	0	0	0	50.0	48	29	24	1	18	35
Gonzalez, Laril	3-2	4.71	16	1	0	0	0	28.2	28	24	15	1	21	23
Gonzalez, Santos	1-3	5.61	18	0	0	0	0	25.2	16	17	16	1	23	26
Paz, Ivan	0-1	9.85	17	0	0	0	1	24.2	32	31	27	1	20	22

NOTE: statistics through Wednesday
* left-handed; # switch-hitter

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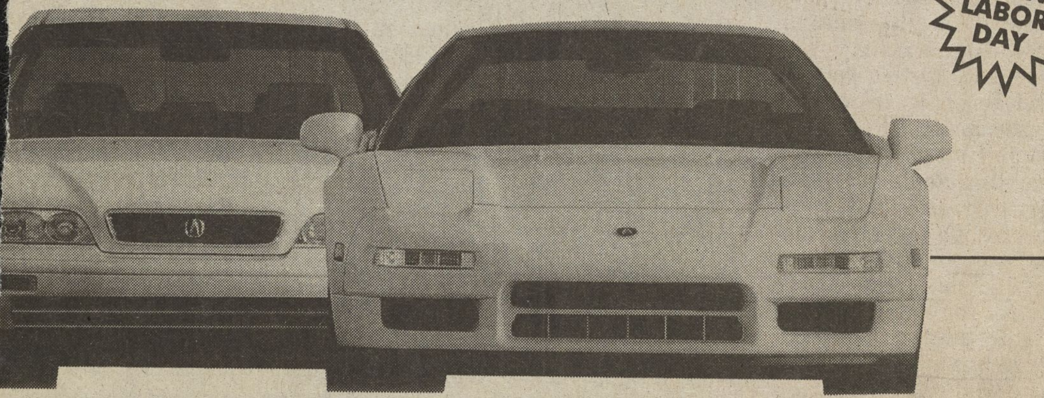

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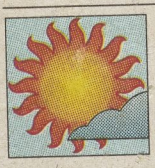

Fair to partly cloudy; warmer through Friday
High: 60
Low: 36
Details, Page A6

arch is out of step

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that no

agenda was set up," Gales said. "People were appointed to positions who shouldn't be there. They talk about reunification and bringing black men together. Everyone should have had input."

Many people have been turned off by Alvertis Simmons, executive director of the march, who

See MARCH, Page A6

Interested?

Million Man March activities were scheduled to begin at 10 a.m. today at the Stapleton Renaissance Center of the defunct Stapleton International Airport in Denver.

Speakers, including Nation of Islam minister Jamal Muhammad and march organizer Alvertis Simmons, are scheduled throughout the day.

For details, call (303) 830-1336.

nt

Outdoors

Reshuffling state DOW elicits fear

By MILES BLUMHARDT
The Coloradoan

A shift in the direction of the Colorado Division of Wildlife has sent shock waves of fear through the agency, sportsmen's groups and rural businesses.

Changes to hurt anglers, firms/A6

The Colorado Wildlife Commission, which oversees the DOW, has endorsed a reorganization plan that includes redirecting revenues from traditional hunting and fishing programs to fund endangered and nongame wildlife, habitat protection and wildlife-related education.

The commission hopes the plan — the result of a two-year, $2 million management review by a private company — will save the agency as much as $10 million. The savings, created by greater efficiency within the organization, would be used to help fund the an ambitious Long Range Plan, which charts the direction of the agency over the next 15 years.

Reaction to the plan has ranged from apprehension by DOW employees, to fear by business owners who rely on sportsmen's dollars, to hope by those who simply like to watch wildlife.

What's next

- Wednesday: The Colorado Wildlife Commission will review the five-year reorganization plan.
- May 8: The commission will finalize the reorganization structure of the Colorado Division of Wildlife.
- May 23: The commission will finalize five-year reorganization plan.

"There's a gamut of emotions running through the division," said Bruce Gill, a research leader with the agency's research unit in Fort Collins. "The most positive I've seen is the let's-wait-and-see-what-happens attitude. Then there's those who are extremely upset, not about losing their job, but the new responsibilities of

See DOW, Page A6

Fire in N.M. threatens

Nation

Clinton lifts oil export ban

WASHINGTON — President Clinton gave formal clearance Sunday for exporting Alaska's North Slope oil, ending a 23-year ban. The president also imposed additional safety requirements on tankers hauling the oil.

Alaska oil exports were permitted under a law the Congress passed last November, but oil companies couldn't begin carrying the crude abroad until a formal declaration from the president.

The export authority had been sought for years not only by Alaska officials but many in California — a key re-election campaign state for Clinton — where it is expected to boost a sagging oil industry by increasing demand.

Spanish architect wins 1996 Pritzker Prize

Jose Rafael Moneo, an architect and educator praised for his "tremendous range," has been selected to receive the 1996 Pritzker Architecture Prize. He is the 19th architect — and the first Spaniard — to be chosen for the prestigious international award.

Moneo, 58, has designed houses, apartment buildings, museums, banks, commercial office buildings, a railway station, a hotel and a city hall.

CLEANING UP: Justin Nichols, left, and Josh Bro... vage video tapes at Crown Video in Joplin, Mo., ...

In the... signed ... Davis M... ter at V...

World

U.S. destroyer saves fishermen

TOKYO — A U.S. warship Sunday rescued seven Japanese fishermen who had abandoned their blazing vessel in waters off Okinawa.

The destroyer USS O'Brien, based in Yokosuka, Japan, and in the area for training drills, saw smoke from the burning 20-ton Haka Maru shortly after dawn, Navy officials said.

The O'Brien plucked the crew members, who were in a small life craft, from near the blazing ship about 75 miles off Japan's southernmost island of Okinawa. There were no injuries, though the fishing boat was destroyed, the Navy said.

President Suharto's wife dies of heart attack

JAKARTA, Indonesia — Siti Hartinah Suharto, the wife of Indonesian President Suharto who steered clear of politics but strongly opposed the practice of allowing men more than one wife, died Sunday. She was 72.

Minister of Religion Tarmizi Tahir announced her death at the Istiqlal state mosque. She died of a heart attack at a military hospital in Jakarta, a spokesman for the presidential palace said. She had not been known to be ill.

She headed a women's organization which pushed for a law making it illegal for a Muslim man in Indonesia to marry a second time without the permission of his first wife.

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DOW

Continued from Page A1

their job. And there are those who are dysfunctional. Let's just hope this is short-lived."

DOW director John Mumma tried to calm those fears, saying no jobs will be lost and only about 100 of the agency's 700 full-time employees will have new jobs or have to move. The agency employs 80 people at its regional and research offices in Fort Collins.

The proposed plan calls for cutting in half the number of mid- to upper-level managers and reassigning those people mostly to field jobs or other programs.

Clait Braun, a research leader in Fort Collins and 27-year DOW employee, criticized the reorganization plan because he said it was not discussed with DOW employees. He said the plan also has caused rifts between departments and personnel.

"This is the worst case of communication concerning the people being affected in all my years here," Braun said. "It will be accomplished by a director saying this is what we've decided. People are fearful."

Business owners who cater to sportsmen also are fearful. They believe a reduction in funding of hunting and fishing programs will lead to a decrease in opportunities, leaving them with a loss of business.

"All I see from this is a lot of business going down the drain," said Jan Felker, owner of Poudre River Resort in the Poudre Canyon. "The Division is putting money where I don't think it should go. I think the sportsmen should be up in arms over this."

Rick Schroeder, president of the local chapter of the Audubon Society and a wildlife biologist at the National Biological Service, said he was pleased with the new direction the DOW was taking. He believes the plan includes something for all who value wildlife.

"People want wildlife to be viewed in a wider perspective than just for the hook and bullet people," Schroeder said. "The population base is much more urban, and I think they will back the new mission."

Michael Madrid/The Coloradoan

LOADING: Art Avalos, left, and Gary Guggenberger, both wildlife technicians with the Colorado Division of Wildlife, load small rainbow trout for a move within the Bellvue-Watson Fish Hatchery and Rearing Unit. Under a new proposal, fish production at the Watson unit will be cut in half and the Poudre Rearing Unit will be closed.

However, Schroeder and others say the $70 million question — the amount of additional funding needed to fully implement the Long Range Plan — remains unanswered. A number of sources have been touted, but no combination appears to come close to doubling the DOW's budget, which would be required to carry out the plan. The DOW now is primarily funded by hunting and fishing licenses. The agency receives no money from the state's general fund.

"I'm sure if you asked anyone in the division, they'd tell you the new programs are important," said Gene Schoonveld, a DOW senior biologist in Fort Collins. "But we can't ignore our bread-and-butter species, our game species, that mean megabucks to the agency. This still has to be our main thrust, at least until other revenue sources can be secured."

Lottery funds through Great Outdoors Colorado have contributed about $2 million per year to the DOW budget and are expected to increase to $10 million in 1999. A national initiative to place a tax on certain outdoor goods such as tents and binoculars to fund wildlife programs is gaining support. Other states, such as Missouri, use revenues from a tax collected specifically for wildlife to fund programs.

However, given the anti-tax sentiment in the state and the Legislature's contentious relationship with the DOW, it is unlikely backing for a state tax exists.

Jerry Hart, president of the Denver-based United Sportsmen Council, which represents many major sportsmen organizations, said the council is concerned that sportsmen will be footing the bill for the reorganization and is against additional money generated by sportsmen's license fees being spent on nongame wildlife and watchable-wildlife programs. He said the council will closely analyze where the $10 million in savings under the reorganization plan comes from and where it is spent.

"The sportsmen community wants maximum sustainable wildlife populations," he said. "But to do that, as well as implement the other programs called for in the Long Range Plan, we need help from other users. We're tired of the lip service we get from the environmental and anti-sportsmen groups concerning their help in funding these programs. We're concerned about having sportsmen pay for programs we all use."

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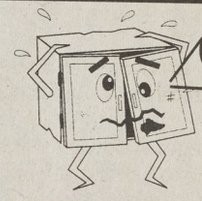

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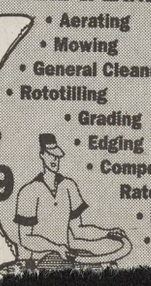

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...ny —
...ge (John) **Creuzot**'s order has ...is new order will take its place," State ... **Manny Alvarez** told KDFW-TV.
...**ancy**, Irvin's attorney, and prosecutor **Mike** ...urged Alvarez to keep in place the gag order is- ...n March. Clancy contended his client has been harm- ...by false information in media reports.

In another development, a 28-year-old man filed a civil lawsuit against Irvin, saying the receiver assaulted him early Wednesday at a sports bar.

■ The Atlanta Falcons acquired offensive lineman **Matt Willig** from the New York Jets in exchange for a conditional seventh-round draft choice in 1988.

HORSE RACING: My Flag heads Oaks

My Flag, the winner of the $1 million Breeders' Cup Juvenile Fillies on Oct. 28, headlines a field of six fillies in today's 1⅛-mile Kentucky Oaks in Louisville, Ky. Completing the field for the $500,000 event is Birr, Cara Rafaela, Escera, Antispend and Pike Place Dancer.

Meanwhile, a field of 20 3-year-olds remained intact for the 122nd running of the Kentucky Derby tomorrow.

FOOTNOTES . . .

University of Minnesota running back **Rafael Cooper**, a former CU signee, was kicked off the football team after being mentioned in a police report on a campus burglary . . Hawaii defeated Penn State 15-9, 15-3, 13-15, 15-7 in a semifinal of the men's NCAA Division I volleyball championships in Los Angeles. Hawaii tomorrow will play the winner of the second semifinal between defending champion UCLA and Lewis University . . . **Ted Huntbach**, one of the leading harness-racing trainers in Canada, was killed Wednesday night when his car slammed into a tree in Milton, Ontario. He was 38 . . . A request by World Boxing Association heavyweight champion **Bruce Seldon** to fight **Mike Tyson** was denied, preventing their July 13 bout. The ruling by New Jersey Superior Court Judge **Amos Saunders** keeps alive **Lennox Lewis'** prospects of fighting for Tyson's World Boxing Council title . . . **Preki** scored twice and had two assists as the Kansas City Wiz defeated the Columbus Crew 6-4 in an Major League Soccer game in Kansas City, Mo. . . . Cyclist **Lance Armstrong** won the 93.8-mile second stage of the Tour DuPont in Virginia in 3 hours, 32 minutes and 8 seconds, taking a five-second overall lead over Swede **Glenn Magnusson**.

Compiled by Allen Daniel

...ips-bound.

this time and the fourth round at 2 p.m. CBS and Denver's Channel 4 have the LPGA action from Daytona Beach, Fla., at 2 p.m. and noon, respectively, while ESPN picks up the Senior Tour in Char-

10:30 a.m. 9 NBA PLAYOFFS
Knicks at Bulls

Game 1 of the New York-Chicago series is guaranteed to be one-third of NBC's Sunday triple-header starting at

...ga, Ala., ...try to the stock car hotbed of ... Calif. An ESPN crew with Bob Jenkins at the wheel explains how.

Rating: ✓✓✓

DOW shortchanging hunters and anglers

Nongame projects sap strength

Charlie Meyers
Western Outdoors

It was the complaint from an acquaintance who is an avid bird hunter that first got me thinking. He had wandered out to far northwest Colorado last autumn to explore freshly leased Public Trust Land for sage grouse. What he found instead was a confoundment of blank sagebrush with no signs or other directions to the land his license money presumably paid to lease. Suffice to say, he had a long, unhappy drive home.

The second nettle to sting me popped up last week along the South Platte River above Spinney Reservoir. Here, a pile of boulders reminded me of the suspended project to improve a largely barren river acquired with $5.7 million of license dollars. Without stream improvement, we're stuck with more than 25 miles of very expensive and generally worthless stream access.

In both situations, the ills are the identical: The Colorado Division of Wildlife doesn't have enough money and manpower, which comes to the same, to make much of the property it controls usable to outdoorsmen.

What really steams me is to know that the same agency is busily diverting numerous full-time positions and millions of dollars to watchable wildlife and threatened species, and away from hunting and fishing.

Now there's nothing at all wrong with projects to assist nongame animals so long as they are pursued with some degree of common sense and the cost is shared by the zealots who purport to care so much about them. This second requisite is simple enough: These critters belong to all the citizens of the state and the state at large should support them, not just those who purchase licenses to hunt and fish.

How much do nonsportsmen *really* care about nongame? Amid all this supposed environmental fervor, The nongame checkoff contribution on the Colorado income tax form declined from $1 million to $350,000. The bottom line is that birdwatchers don't really care enough to use their own money — particularly if they know the legislature and the Department of Natural Resources will browbeat a soft-as-mush wildlife agency to foot the bill with our license dollars.

Now for the common-sense part. Much of the money and manpower diversion goes to research the decline of such creatures as boreal toads and neo-tropical songbirds, whose troubles appear decidedly global in nature. I've yet to find anyone who truly believed that any of this would save a single toad or bird.

Yet the wildlife agency, which might be better known as the Division of Toads and Tweeties, continues to pull biologists and workers from badly needed fishery projects and pour millions down these environmental ratholes, all in the name of political correctness. The previous director capitulated at every turn and the new one, John Mumma, appears to tiptoe around on the same eggshells.

Mumma's appointment becomes secure in a couple months. One can only hope his commitment to the hunters and fishermen who pay his salary grows stronger at the same time.

GIL THORP

LAST WORD

'My marriage, the birth of my children, my first day in the big leagues, they all pale in comparison to this.'

Phillies pitcher **Dave Leiper**, on the first batting-practice homer of his eight-year career

...we go again.

The Avalanche lost the home-ice perk in the opening series with the Vancouver Canucks in the second game and lost it once more in the first game against the Second City.

But the Avalanche will not prevail in this best-of-seven series if it is zero percent on power plays and the Blackhawks are 40 percent.

The Avalanche needs another round of motivation from an opposing coach. Vancouver coach Pat Quinn called the Avalanche defensemen "marshmallows."

Could Chicago coach Craig Hartsburg be talked into offering that the Avalanche offense is a "powder puff"?

No. "I thought the tempo was real high for the first game," said Hartsburg, who apparently doesn't care to incite the Snowmen of Colorado. "Both teams looked like they put a lot of energy into this one. It's a big win, but

Please see **PAIGE** on 7D

Associated Press / David Zalubowski

Colorado's Craig Wolanin, left, knocks Gary Suter's helmet loose in the Avalanche's 3-2 loss to the Chicago Blackhawks last night.

SERIES GLANCE

Yesterday
Chicago 3, Colorado 2, (OT); Chicago leads series 1-0

Tomorrow
Chicago at Colorado, 8 p.m. **TV:** Pay-per-view and ESPN (ESPN blacked out within 50 miles of Denver)

Monday
Colorado at Chicago, 6:30 p.m. **TV:** Ch. 20 and ESPN (ESPN blacked out within 50 miles of Denver)

Wednesday
Colorado at Chicago, 6:30 p.m. **TV:** Ch. 20

Saturday, May 11
Chicago at Colorado, if necessary, 8 p.m. **TV:** Pay-per-view

Monday, May 13
Colorado at Chicago, if necessary, 6:30 p.m. **TV:** Ch. 20

Wednesday, May 15
Chicago at Colorado, if necessary, 7 p.m. **TV:** Pay-per-view

...coach ... beauty of this ... know what's going ... rink. Things unfolded ... didn't want, but . . ."

Everything unfolded the ... way when it was time for the ... lanche special-teams unit to take the ice. Colorado spent most of the time retrieving pucks from its own end when it had an extra skater, not even registering shots on its first two power plays.

And, on the game-winning sequence, the Avs were victimized by a problem that has become common in the past few playoff games. Namely,

Please see **AVALANCHE** on 7D

New relief for starters

TONIGHT

COLORADO ROCKIES

- **Opponent:** Florida Marlins
- **When:** 7:05 MDT
- **Where:** Coors Field
- **TV/radio:** Ch. 2/KOA, 850 AM
- **Starting pitchers:** Rockies' Armando Reynoso (1-2, 4.80 ERA) vs. Marlins' John Burkett (2-2, 2.48)

By Tony DeMarco
Denver Post Sports Writer

If you don't like the way the Rockies rotation has performed through the first 26 games — and who has? — at least there is the hope that with new arms will come new results.

Bryan Rekar has gone south — to Colorado Springs, specifically. Kevin Ritz could be taking a temporary trip to the bullpen, where he straightened out his problems last year.

Bill Swift is two simulated games away from returning to the rotation, and at least one lefthander, maybe two, could be making starts soon.

And in case that doesn't assuage your concern, general manager Bob Gebhard accurately notes, "How many games have we played? Twenty-six? It's May 3rd. What are we, five games out? We're not buried. We had five well-pitched games on the last road trip, and Mark Thompson's (Wednesday) night. There's a long way to go."

Manager Don Baylor has joked about seeding clouds for rain as a temporary solution to his rotation problems. (By the way, Don, who are the two dependable starters you feel you can count on in your modern-day Spahn-and-Sain-and-pray-for-rain scenario, anyway?)

But actually, what Baylor could use is some balmy weather. That can only help Swift, whose sore shoulder responded nicely to the pleasant conditions during his throwing session in Los Angeles after several in the cold.

Swift will throw a simulated game of about 60 or so pitches against Rockies hitters before tonight's game, and then again in Atlanta. That would set him up to face the Marlins next weekend in Florida, and a rehabilitation assignment would be bypassed.

"With a veteran like him, we won't have to send him out on a rehab," Baylor said. "He's been successful enough that he knows he can get guys out with only 80 percent of his stuff. Other guys feel like they have to be 100 percent."

Kevin Ritz's next turn is scheduled for Sun-

Please see **ROCKIES** on 5D

GLANCE

1996 NBA PLAYOFFS

YESTERDAY

Indiana 83, Atlanta 75, series tied 2-2

Houston 102, L.A. Lakers 94, Houston wins series 3-1

Seattle 101, Sacramento 87, Seattle wins series 3-1

TONIGHT

San Antonio at Phoenix, 7 p.m., San Antonio leads series 2-1 (TNT)

COVERAGE, 9D

Quake hits Seattle; umps suspend game

By The Associated Press

SEATTLE — A small-to-moderate earthquake rocked the Kingdome during last night's game between the Seattle Mariners and Indians, forcing umpires to suspend the game in the seventh inning with Cleveland ahead 6-3.

The Indians were on the field when the earthquake occurred at 10:04 MST. The Kingdome's giant speakers that hang from the roof swayed and the press box moved back and forth.

The geophysics center at the University of Washington reported the preliminary magnitude of the earthquake was 4.8. There were no immediate reports of major damage, but there were reports that the quake was felt as far as 250 miles away. The quake was centered near Duvall, about 20 miles northeast of Seattle.

"There was a lot of shaking and a lot of rocking," Seattle's Jay Buhner said. "I thought the Mariner Moose was on top of the dugout. But he was on the other dugout.

"The whole speaker system was moving. Everybody was freaking out out there in the middle of the pitcher's mound."

Players immediately left the field and began looking up at the speakers. The startled crowd of 21,711 headed for the exits.

Fifteen minutes after the earthquake hit, the game was suspended because of the possibility of aftershocks. It was scheduled to be continued before today's regularly scheduled game.

"In my mind there was no doubt," home-plate umpire Jim McKean said. "I really didn't feel we should play because I don't think baseball is as important as as many lives as we had in here."

Cutback will damage fish programs

In the black-and-white world of some anglers, hatchery trout are bad and wild trout are good.

It's impossible to quarrel with the second half of that judgment. The thrill that comes with catching a wild rainbow, cutthroat, brown or brook trout cannot be equated to the catching of a naive, 10-inch stocker rainbow fresh from the hatchery.

Not in many minds, anyway. A 10-year-old hooking his or her first trout — a hatchery stocker — at a place such as Cherry Creek Reservoir might beg to differ. So might quite a few adults, who for one reason or another, don't or can't get to the wild-trout waters of our mountain vistas.

Aside from the wild-vs.-tame question, there are some critical issues lurking in the planned cutback of hatchery-produced, catchable-size rainbows by the Colorado Division of Wildlife. Not the least of these is whether this move is just one part of a general drift of DOW away from sport-fish management toward nongame species.

DOW has been directed by the Colorado Wildlife Commission to reduce production of catchable rainbows by about 1.25 million fish annually, roughly a 27 percent slice in an annual 4.8-million-trout output.

The cutback basically represents fish exposed to whirling disease, because 10 of the 16 state hatcheries are now

Bob Saile
Western Outdoors

positive for the W.D. spore. In that sense, the reduction is good, although most W.D.-positive fish are now going to Front Range or eastern plains waters, where the threat of spreading the parasite to wild, self-sustaining trout populations is minimal.

A case can be made that DOW for a lot of years has put too much money and manpower into hatcheries and not enough into wild-trout management, habitat and research. The elimination of 1.25 million, hatchery rainbows costing 70 cents apiece could be viewed as a step in the right direction.

But before we jump to that conclusion, consider these points:

■ Some waters are never going to hold wild, self-sustaining trout. The water quality and habitat just aren't suitable. Many of these are in urban areas. Do we just abandon any sort of trout-fishing program in some of these places, discouraging thousands of people from buying a license or shifting them to a limited list of increasingly crowded wild-trout waters?

■ The cutback in hatchery catchables, despite what you may hear about the whirling-disease factor, is being done primarily to facilitate the transfer of 13 full-time hatchery workers to other jobs. Most of them will be shifted to projects involving nongame fish, including threatened and endangered species.

■ Two, perhaps three, hatcheries will be shut down, either temporarily or permanently. Where is the savings going to go? Will it be rechanneled to wild-trout programs? Apparently, the answer is no.

■ By the estimates of staffers in DOW's aquatic (fisheries) section, in 1992, the section was devoting 95 percent of its time and effort to sport-fish programs. By 1995, the percentage on the sport-fish side of the ledger had dropped to 66 percent, while 34 percent went to nongame species or threatened-and-endangered-species recovery efforts. At the current level of funding, one estimate is that by the year 2010, the percentage of the aquatic program directed at sport fish will have dropped to 20 percent.

■ Hatcheries don't just produce quick-fix, 10-inch rainbows to fill fishermen's creels. A lot of our mountain reservoirs and natural lakes depend mostly or entirely on annual stockings of fingerling-size trout to produce the fish that a few years later become gorgeous, mature trout that for all intents and purposes are wild fish.

■ Hatcheries also serve as emergency fixes for crisis situations that threaten wild trout — the losses of wild rainbows because of whirling disease being a current example. What does down-sizing the hatchery system pose for these efforts?

In case somebody isn't getting my drift, let me spell it out: The 1.25-million-fish reduction in hatchery, catchable-size trout (to begin in 1997) wouldn't trouble me all that much if I were assured that the manpower and money savings are to be directed to other aspects of the sport-fish program.

The assurance is to the contrary. Within a few months, DOW will add four or five aquatic biologists to its staff. What they will be doing is striving to save threatened toads and minnows.

That's admirable, if you believe that man's alteration of their habitat isn't so irreversible that real recovery is hopelessly expensive or flatly unrealistic. And that's a legitimate question.

Still, I have no problem with the effort, as long as the sport-fish program doesn't suffer. The evidence is that it will.

Rockies harvest Farmer from Sox

By Irv Moss
Denver Post Sports Writer

COLORADO SPRINGS — Left-hander Mike Farmer was given the call yesterday to provide some badly needed pitching help for the Colorado Rockies.

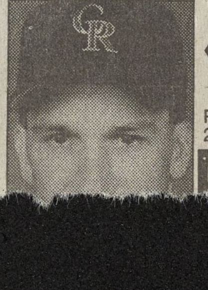
After yesterday's exhibition game be- [illegible] the Rockies and their Triple-A af- [illegible] Colorado Springs Sky Sox, [illegible] [illegible]uses. He was [illegible]

kar's spot. Bailey worked the first three innings against the Sky Sox and called it a good test of his injured knee. He allowed only one hit, but will remain on the disabled list with the Rockies.

Baylor said he wasn't firm yet on pitching [illegible] or Farmer.

"W[illegible] m a chance to come out of t[illegible] [illegible]

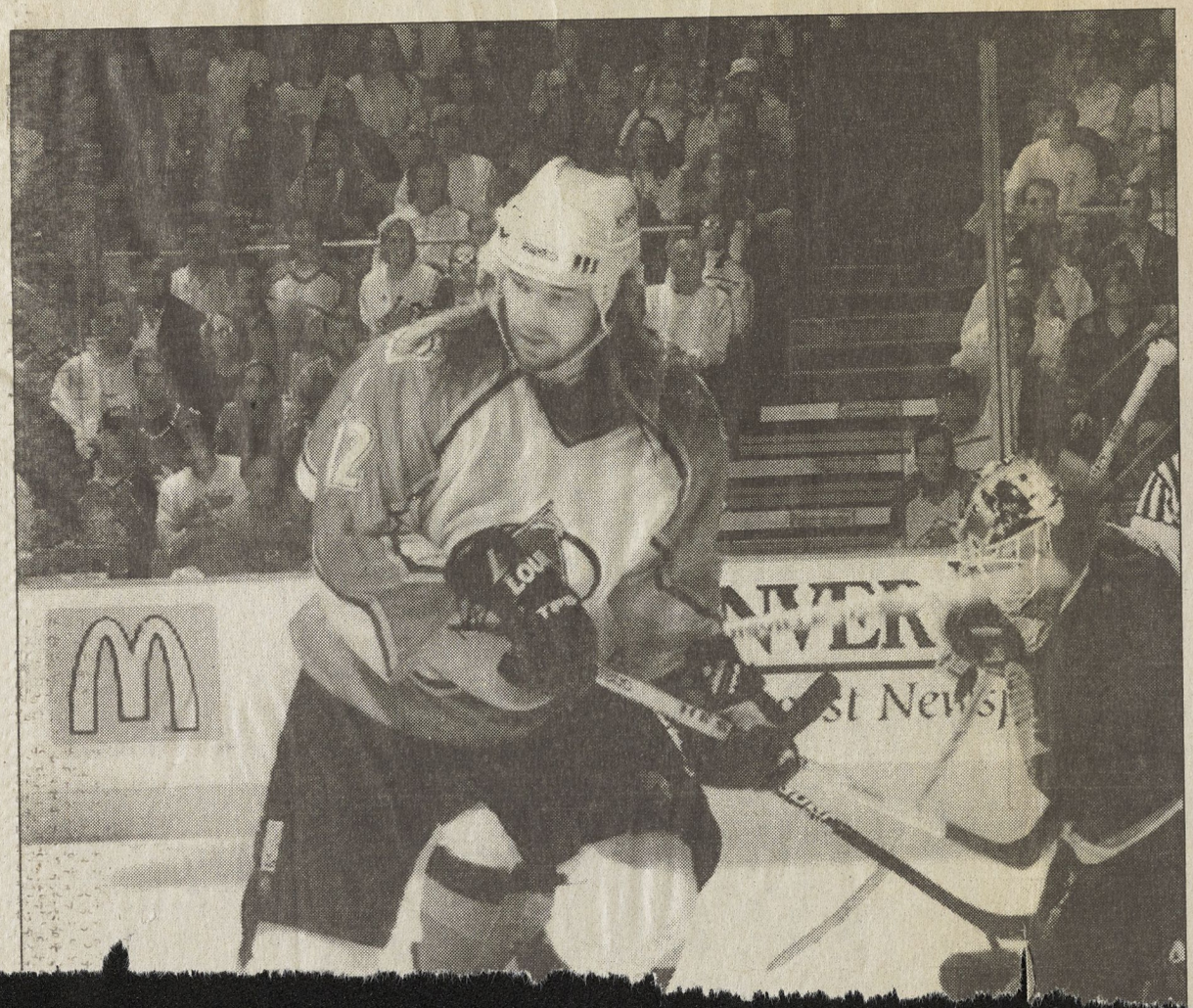
TODAY'S MATCHUP



Rockies' KEVIN RITZ
RIGHT-HANDER
2-2, 8.28 ERA

Dodgers' [illegible]

Simon says Chicago will bring out best in him



By Adrian Dater
Denver Post Sports Writer

There was plenty of room between the lines of Colorado Avalanche coach Marc Crawford to read into when the subject of the team's enforcer, Chris Simon, came up yesterday.

Although he didn't say it in so many words, Crawford clearly implied that he expects more on the ice from Simon against the Chicago Blackhawks than the team got in its first-round playoff series against Vancouver.

Simon, in fact, barely played in the last half of the Avs' 3-2 victory in the decisive Game 6 Saturday in Vancouver, British Columbia. Simon didn't take his first shift of the third period until 10:35 remained, and skated for only a few seconds after that.

Crawford, whose tirade directed at Simon during a practice after Game 2 has been well-documented, said he continues to have faith in Simon.

"Obviously, the focus that came on

AVALANCHE

Chris after the one practice was relatively a new kind of circumstance for him, and it was difficult for everybody involved — the team, for Chris and myself," Crawford said. "Now that that's behind us, we can all look for a bigger and stronger performance from Chris. He's a big part of our club. He's a very robust-style player and we're playing a team that obviously has some physical people."

Simon had a career-high 16 goals in the regular season and played his usual intimidating game. But, he wasn't as imposing physically against Vancouver as he had been in the past. Simon said that will change against Chicago.

"I think if you look at Chicago and Vancouver, they're two different teams. Vancouver had a lot of small, fast players and Chicago is more my style," Simon said. "They've got a big team and a lot of their good players are big guys, so that will help me more."

Simon said he is not bitter about sitting for much of Games 5 and 6 against the Canucks.

"If we were losing, it would have been frustrating," he said. "But we won those games, and like I've said before, I'll do whatever it takes to win. Whatever my role has to be, I'll do it."

Have another, Chelios

Avalanche right wing Claude Lemieux smiled when asked if he read a quote from Chicago defenseman Chris Chelios, who said of Lemieux:

"We're friends. We'd probably send postcards to each other, but he can't write."

Lemieux said, "I heard about it. Who knows if he was sober when he said that, so I can't take it too seriously."

Lemieux, who played with Chelios in Montreal, said he and Chelios are friends, but "I'm going to be in his corner. I know he loves to compete, and so do I."

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Different strains, everyone gains

Charlie Meyers
Western Outdoors

Just like George Orwell's animals, some trout are created more equal than others.

Certainly that's the logical conclusion from an eight-year study directed by Colorado Division of Wildlife researcher Mary McAfee on rainbow and cutthroat stocked at Steamboat Lake.

The survey, which ended in 1992, sampled four kinds of trout — Bel-aire, Tasmanian and Eagle Lake rainbow and Snake River cutthroat — that were stocked in equal numbers and sizes. The result: Bel-aire and Tasmanian trout, the most prevalent and highly domesticated stock in DOW hatcheries, were harvested easily and quickly in their second season at 10 to 12 inches long. The Eagle Lake rainbow, a strain from California, and the Snake River cutt tended to avoid capture, surviving into their third and fourth seasons to become prized fish of 3 to 6 pounds.

"They all seemed to grow at the same rate," said McAfee, who marked the fish with a fluorescent pigment visible only with black light. "But the Bel-aires and Tasmanians got caught at 10 to 12 inches. The others lived to get big."

Biologist Jake Bennett, himself an avid fisherman, believes the Eagle Lake strain gravitates toward deeper water, less accessible to shore fishermen. Similarly, most anglers don't fashion their techniques to the cutthroats.

The principal benefit of the study, McAfee believes, is in demonstrating how DOW can use different strains of fish to achieve a more balanced harvest that satisfies a greater number of fishermen — instant gratification for some, a quality quest for others.

"It's a good technique to put several strains of trout in the same body of water," McAfee said. "The trick is to get the right fish in the right habitat for what we're trying to achieve."

Part of the problem, McAfee opined, is that strains have become so badly muddled in state hatcheries over the years. "We've got a real Heinz 57 of fish."

Even where separate strains exist, the current shortage of clean hatchery fish caused by whirling disease makes it difficult to get the numbers and kinds of trout to make the match.

"Everything is a squeeze now," she said. "Our management has been knocked off completely."

A walk in the park

As part of the celebration of National Trails Day, Backpacker Magazine will sponsor a Capitol Hill People's Fair booth Saturday and Sunday at Denver Civic Center Park, 10 a.m.-6 p.m. Experts from the magazine will give demonstrations on camping and outdoor gear and orienteering clinics. Companion to this event, many people will participate in trail-maintenance projects today and Saturday.

The Denver celebration is part of a national network of events expected to attract more than a million people to 3,000 locations.

Book talk

In this same vein, three new books related to trails and hiking have hit the shelves. Westcliffe Publishers has a fine new release, "Colorado's Continental Divide Trail, the Official Guide," with text by Tom Lorang Jones and the photography of John Fielder. The book presents the trail, recently approved by the U.S. Forest Service, in 43 well-defined segments, complete with maps. A favorite feature is a companion chart of elevation gains and losses. With 308 pages, it costs $24.95 in soft cover.

A second edition of Exploring Colorado State Parks ($19.95) is just off the University Press of Colorado. Author Martin Kleinsorge sprinkles rich historical anecdotes among a wealth of information in this completely revised guide to using the state park system.

For all those outdoor enthusiasts eager to hit the trail with young children, we have "Parents' Guide to Hiking & Camping," $18.95, W.W. Norton. Author Alice Cary lists helpful ideas for the kids.

Short shots

The National Fishing Day celebration has a tangible benefit to Coloradans who'd like to drown a worm without a license. Everyone fishes for free Saturday and Sunday, but regular limits still apply . . . Videos of the 1996 American Top of the World Expedition led by locals John Jancik and Kenneth Zerbst are available for $19.95, plus shipping. This trek to the northernmost land on earth recently was featured in a Life Magazine article by Galen Rowell. For videos, phone (888) 377-7823 toll free.

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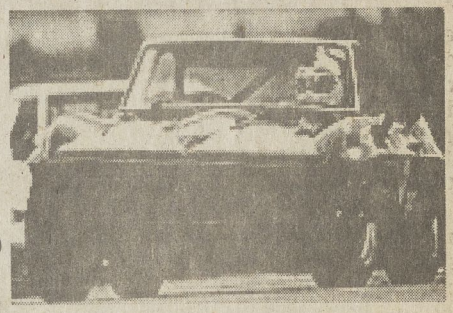

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FROM ARTS

As switch hitters go, Bonilla strong presence

By Jerry Crasnick
Denver Post Sports Writer

Pete Rose established himself as baseball's career hit leader by cranking out line drives for 24 seasons. When the St. Louis Cardinals won three pennants in the 1980s, Willie McGee and several others tormented opponents with regularity from both sides of the plate.

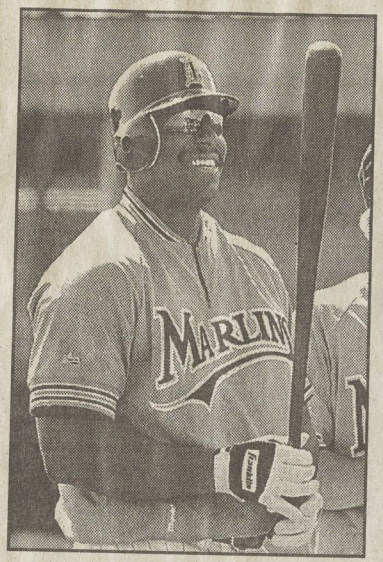
But when Bobby Bonilla runs down the list of his switch-hitting brethren, those slap 'n run guys fail to make the cut. His ultimate allegiance lies with the multidimensional types. He prefers a little sock with his singles.

"I've had the pleasure of playing with Eddie Murray," Bonilla said. "So when I think of switch hitting, Eddie Murray is the first thing that pops out of my head. When other people think of switch hitters, they think of one thing — Mickey Mantle hitting the ball 600 feet.

"To be able to hit over 500 home runs from both sides of the plate puts you on another planet. It's mind-boggling."

Don't blame Bonilla for favoring muscle over subtlety. As a switch-hitter with a power stroke, he's part of an exclusive club.

Bonilla, third baseman for the Florida Marlins, hit his 248th career homer last week against Colorado's Bobby Jones. That tied him with Ted Simmons for fifth place on the all-time switch-hit list behind Mantle, Murray, Reggie Smith and Chili Davis.



Associated Press

Bobby Bonilla is tied for fifth all-time with 248 career home runs as a switch hitter.

Bonilla has failed to go deep since, and brings a total of only three home runs into tonight's game with Colorado at Coors Field. That's attributable in part to a sore Achilles tendon, and a wrist injury that necessitated a cortisone shot at the end of April.

But a lack of power should not be equated with a lack of production. Bonilla has hit .434 (36 for 83) since May 11 to raise his average from .280 to .338. He went hitless Thursday against Armando Reynoso and the Mets, but has spent much of the last month terrorizing the National League.

Bonilla has a reputation for brashness, but certainly sounds sincere in his aspirations. "I've been to the postseason three times and haven't gotten to the World Series," he said. "That's my main focus. It's my only focus. I want to get there with the Florida Marlins."

In 11½ seasons in the big leagues, Bonilla has four 100-RBI seasons on his resumé. He hit 28 homers and drove in 116 runs for Baltimore last year.

Those power numbers are impressive for a switch hitter because of the maintenance involved. When Colorado shortstop Walt Weiss homered from both sides of the plate in back-to-back games recently, he observed that it's a challenge to keep his right-handed swing honed because plate appearances against lefties come so sparingly.

Weiss has a short stroke and is strictly a contact hitter. The challenge is magnified for bigger hitters with more elongated swings.

Ken Singleton, now a broadcaster for the Fox network, hit 246 home runs in the majors with Montreal, Baltimore and the New York Mets. Singleton, a New York native, took up switch-hitting at age 5 as a tribute to — guess who? — Mickey Mantle.

"The Yankees weren't my favorite team, but Mickey was the man," Singleton said. "The Giants were my favorite team, so I'd go up and down the lineup playing stickball. I'd copy Willie Mays hitting right-handed, and Willie McCovey hitting left."

Singleton played in the same Baltimore lineup with Murray from 1977-84. He hit third and Murray batted fourth, and a lot of opposing managers were stuck for strategy at pivotal points in a game.

If there is extra work involved in maintaining two swings, it's accompanied by some notable fringe benefits. Bonilla entered this season with a .278 career average from the right side and a .287 mark from the left.

"Sure, you're hitting from two sides, and you have two swings to worry about," said Marlins hitting coach Milt May. "But assuming you have a pretty natural swing both ways, the advantages far outweigh the disadvantages. You eliminate that stinking slider going away from you."

SWITCH SLUGGERS

Here's the rundown of the top 10 switch hitters and their career home-run totals:

1. Mickey Mantle	536
2. Eddie Murray	504
3. Reggie Smith	314
4. Chili Davis	304
5 Bobby Bonilla	248
(tie) Ted Simmons	248
7. Ken Singleton	246
8. Mickey Tettleton	245
9. Ruben Sierra	234
10. Howard Johnson	228

Miller gone, but Flipper's here

By Joseph Sanchez
Post Sports Writer

...ny Miller. Willie "Flipper" Anderson. Other ...w million dollars in their contracts, what's ...nce?

...nal Football League fans who've been unable to tell these two look-alike wide receivers apart for a decade or more, the answer is,

...answer the Denver Broncos are ...g Anderson to a free-agent con... ...ys after re...asing Miller for ... help... ...lves of a ...

day and he's right in that 4.3-plus, 4.4 range," said Broncos coach Mike Shanahan. "He still has great speed, so we're going to take a look at him."

Shanahan named Rod Smith to replace Miller as the starter earlier this week, but said, "We bring people in that we think have a chance to compete. If you look at Flipper in the past, he's got great stats. One of the reasons he's available is he's been hurt for about a year and a half. We brought him in for a physical; the physical was excellent. He's in great shape. Now he's going to get a chance to compete with eight other guys. You can never have enough great players. You just throw them out ... tions."

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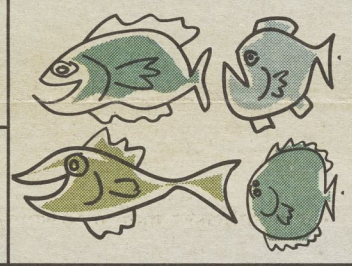

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Djupfrys gärna en svårbedömd art minst en månad efter första publicering i vår tidning.
Tävlingstiden är maj-oktober. Fångstrapporter redovisas fredagar eller måndagar. Anmälan måste vara hos oss inom en månad efter fångstdatum. Arbetet förbehåller sig rätten att publicera inlämnade upp-gifter och foton.

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Tjock som en välgödd julgris, en smällfet regnbåge på nästan 6 kg ur Hallsjön. Fångad i lördags med torrfluga av Stig-Olof Nilsen från Sjuntorp. FOTO: KENT ANDERSSON

Rejäl regnbåge

Stig-Olof Nilsen tog sexkilos bjässe i Hallsjön

AV KENT ANDERSSON / VARGÖN 031 - 60 90 00

Matbordet är dukat. Hallsjön, är ett eldorado för vrålhungriga sportfiskare och glupska gäddor i alla storlekar. Sedan maj 1989 har Vänersborgs kommun satt i drygt 28,3 ton näringsrika regnbågsöringar, rödingar och öringar som smakar förträffligt.

Under samma tidsperiod har man dessutom sålt cirka 29 000 fiskekort till allmänheten.

– Vår målsättning är att ett försålt fiskekort per kilo utsättningsfisk vilket vi hittills lyckats kunna uppnå, berättar Roy Johansson, turistchef.

Tyngsta spöfångad gädda fick i somras vikten 9,7 kg av Allan Larsson, Trollhättan. Vid ett tidigare provfiske med nät hamnade en 14 kgs gädda i maskorna. Största krokfångad regnbågsöring är inte en utan två på 7,5 kg var, varav den senaste förlorade dragkampen förra månaden till Kristoffer Johansson, Uddevalla.

Lördagens sportfiske gav en regnbåge på nära 6 kg till Stig-Olof Nilsen, Sjuntorp. Mahmu Bojic, Kvänum, lurade en annan "båge" på 3 915 gram. Kai Hannonen, Trollhättan, landade en 3,24 kgs regnbåge. Bertil Carlson, Kungälv, åkte hem med en 1,28 kgs regnbåge. Ytterligare regnbågsöringar i varierande storlekar upp till 2,7 kg lämnade i lördags Hallsjön till spöfolkets självhushåll.

Hallsjön, en liten skogssjö i Kronoparken Halleberg på Vargön, erbjuder fiskeintresserade alltid nappvillig fisk, inklusive abborre. Fiskekortet gäller för ett spö, vilket kan vara spinn-, haspel-, flug-, pimpel- eller metspö. Till detta får användas högst en fluga eller drag/pilk eller en krok. Maximalt tre laxartade fiskar får fångas per fiskekort á 75 kr. Att Hallsjön är mycket populärt går inte att förneka. För i år slår man nytt försäljningsrekord på fiskekort. Vattnet har ett pH-värde på 7,1 och då trivs insekter, kräftor och fisk. Bevakningen sker av Sportfiskarna Trollhättan - Vänersborg (STV).

Nordeke vann kustfiske-DM

AV KENT ANDERSSON / BOHUS MALMÖN 031 - 60 90 00

● Magnus Nordeke från SFK Aktiv i Göteborg tog en övertygande totalseger i söndagens kustfiske DM som lockade 59 deltagare varav 40 blev utan fisk efter fyra timmars fiske. En mycket trögfiskad tävling med tre torskar, sandskädda, skrubbskäddor, vitling, rötsimpa och en liten randig sjökock som invägdes.

Tyngsta fisk, torsken på 1,21 kg, spöfångades av Leif Haavarsten från SFK Nordre älv. Råda FFF, Mölnlycke, arrangerade i mulet väder.

RESULTAT

Damsenior: 1) Irene Hellberg, SFK Nordre älv, 185 gram.
Herrjunior: 1) Henrik Josefsson, Råda FFF, 0,81 kg, 2) Mika Matkaniemi, Råda FFF, 0,475 kg, 3) Klas Nicander, Lysekil SFK, 0,145 kg.
Herrveteran: 1) Leif Haavardsten, SFK nordre älv, 1,245 kg, 2) Mats Jansson, Lysekil SFK, 0,290 kg, 3) Gösta Wass, Råda FFF, 0,150 kg.
Herrsenior: 1) Magnus Nordeke, SFK Aktiv, 2,005 kg, 2) Tord Söderblom, Sportfiskarna, 1,09 kg, 3) Kalle Latvala, KA-RE, 1,04 kg, 4) Bengt Söderblom, Sportfiskarna, 0,95 kg, 5) Sonny Stjärnås, SFK Aktiv, 0,696 kg, 6) Bernard Pienkowski, SFK Vapa, 0,45 kg, 7) Björn Friberg, Uddevalla SFF, 0,35 kg, 8) Per Dyvermark, Göteborg, 0,26 kg, 9) Jim Svensson, SFK Aktiv, 0,24 kg, 10) Kent Åsberg, Lysekil SFK, 0,145 kg, 11) Anders Wass, Råda FFF, 0,14 kg, 12) Juha Sannholm, KA-RE, 130 gram.
Seniorlag: 1) SFK Aktiv, Göteborg, 2,94 kg, 2) SFK Nordre älv lag 2, 1 245 gram, 3) KA-RE, Göteborg, 1 040 gram.
Juniorlag: 1) Råda FFF, Mölnlycke, 1 285 gram, 2) Lysekil SFK, 145 gram.

Ny svensk propeller gör roder överflödiga

● En helt ny typ av propeller, döpt till CAP (Conically Adjustable Propulsion), gör roder överflödiga.

Den kan vridas genom enkla manövrar från styrhytten och ger båten styrkraft i önskad riktning, därmed behövs inget roder. Samtidigt får man mindre vibrationer, lägre bränsleförbrukning och tystare gång.

Efter fyra års utvecklingsarbete har prototypen framgångsrikt testas på bogserbåten Veitsi som provkörts i Vättern och Göta kanal.

– Vi har stora förhoppningar på CAP-propellern och om våra prognoser slår in kommer propellern att generera miljardaffärer och nyanställningar på sikt, uppger Per G Lindberg, Motala Verkstads vd.

Åk inte med en berusad förare

shore-fishing result

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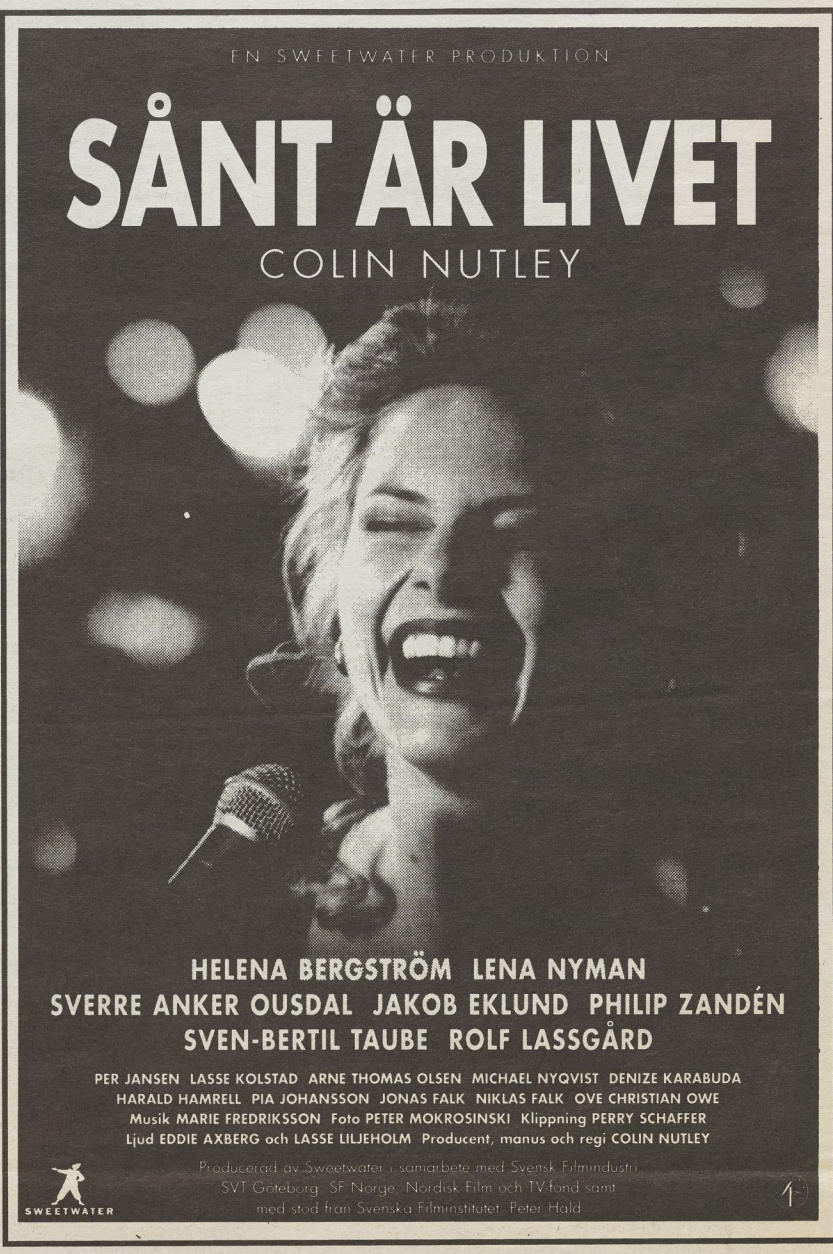

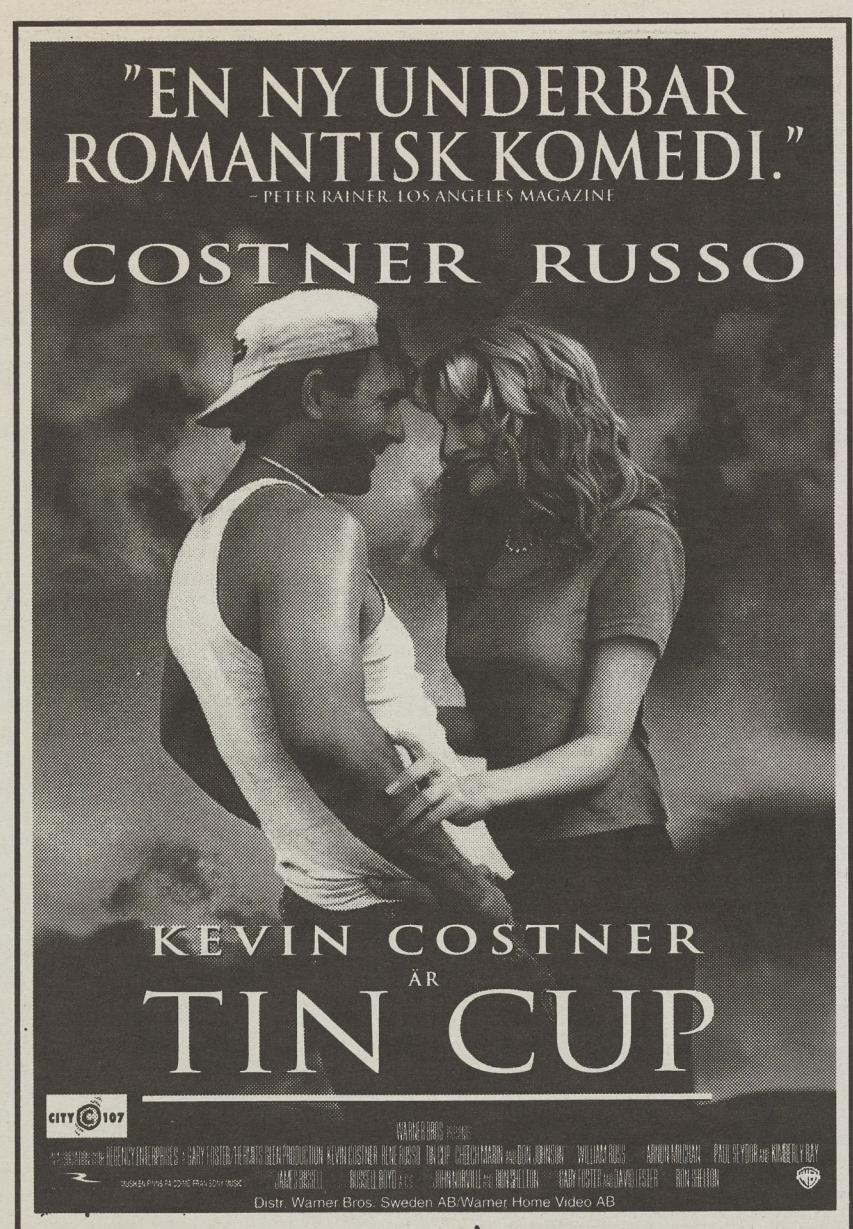

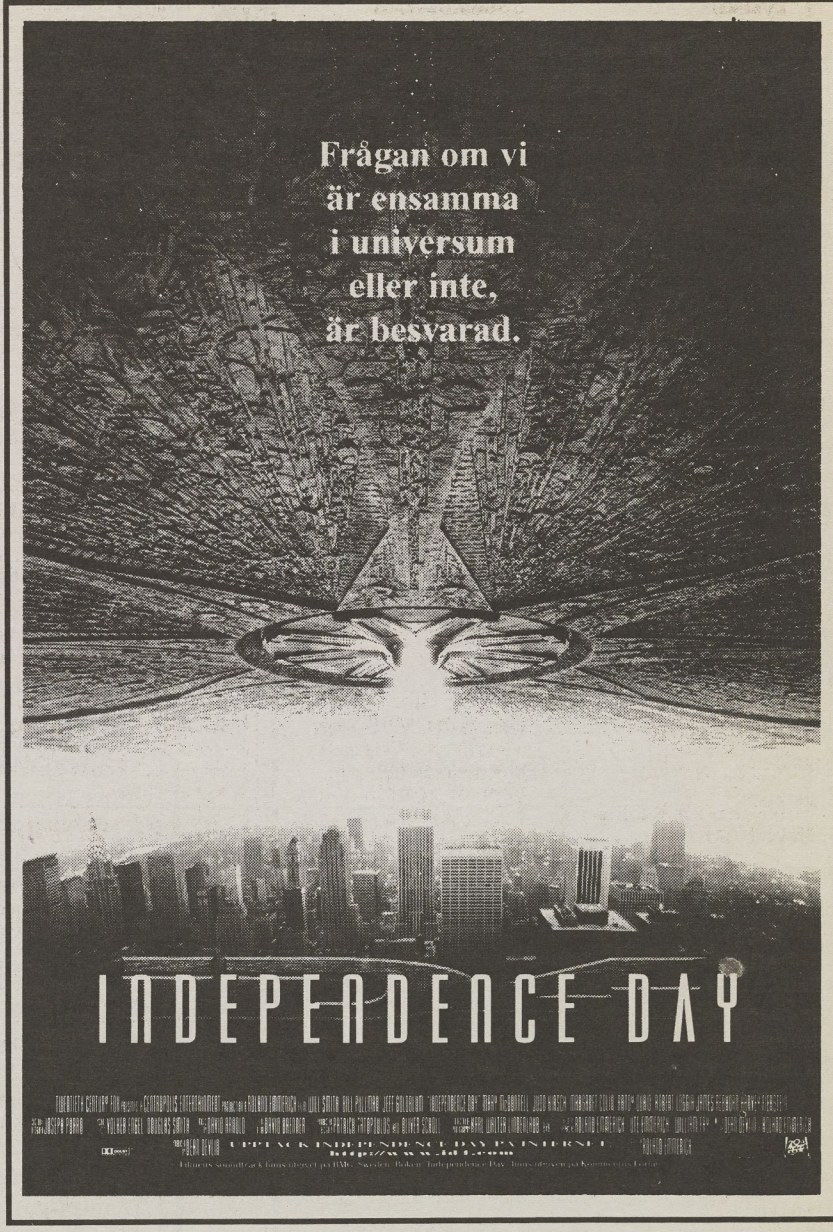

The International Angler

VOL. 57/NO. 4
SEPT.-OCTOBER, 1995

INTERNATIONAL GAME FISH ASSOCIATION • 1301 EAST ATLANTIC BOULEVARD • POMPANO BEACH, FLORIDA 33060 U.S.A.

'Flying Blue', a limited edition bronze sculpture by Kent Ullberg will be one of the featured live auction items at the IGFA banquet January 12.

Reserve Tickets Early For Auction/Banquet Coming Up Jan. 12

Tickets are now available for IGFA's 12th International Auction and Banquet scheduled to be held Friday night next January 12 at the elegant Breakers Hotel in Palm Beach, Florida.

Tickets are $125 per person for IGFA members and $150 per person for non-members (non-member price includes one-year IGFA membership). Tickets include two drinks plus full dinner with wine. A ticket request form is on page 11.

The festivities begin at 6 p.m. with a cocktail party and silent auction. At 7:30 p.m. presentation of the prestigious IGFA Conservation Awards and Aftco's Tag/Flag Tournament Awards will be made, followed by dinner and an exciting live auction conducted by auctioneer Martin Higgenbotham.

Always popular with bidders are the fabulous fishing trips available. Once again there will be U.S. trips ranging from

Continued on page 11

AN OPEN LETTER TO NMFS

IGFA Comments on Shark Management

Through the 1970's and into the early 1980's, shark fishing was almost exclusively a recreational industry. There were few problems with shark stocks and no management plan. As sharks, especially their fins, started to gain in commercial value, commercial fishermen went into a virtual feeding frenzy to catch as many sharks as possible. In many cases they cut off the fins and returned the still-living shark to the water to die a slow death. From 1981 to 1992, commercial landings increased more than a thousand fold. Because of this overfishing, recreational landings began to plummet to new lows each year.

In 1989 the Regional Fishery Management Councils asked the National Marine Fisheries Service (NMFS) to step in with an emergency plan in the Atlantic to halt the continuing depletion of the fishery, but it wasn't until 1993 that NMFS actually imposed quotas on commercial shark fishermen. Those quotas have proved to be too lenient to stop the decline and NMFS has now proposed a moratorium on issuing commercial shark permits. The following is IGFA's written response to the NMFS proposal:

"You are, no doubt, well aware that scientific literature is full of documentation that large-scale commercial shark fisheries have never been sustainable. On page 2 of your report you point out that even small, localized shark fisheries often cease to operate due to a combination of factors, including overfishing. For this reason it is hard to understand why NMFS has taken what has been traditionally and historically a recreational shark fishery and is now trying to manage it as a commercial fishery. It does not appear to be prudent management, either economically or scientifically, and it may be a violation of National Standard 4. We failed to find a single mention in the option paper pertaining to the recreational shark industry which is many magnitudes larger and more important to the economy of the

Continued on page 10

New Challenge: Qualify for 'Grand Slam' Clubs

The International Game Fish Association has announced the introduction of four new "Grand Slam" clubs to honor the outstanding accomplishment of multiple catches of designated species by one angler in a single day. The clubs are the Offshore Super Grand Slam, Inshore Super Grand Slam, Offshore Grand Slam, and Inshore Grand Slam.

To qualify for the Offshore Super Grand Slam Club the angler must catch any four of the following billfish: blue marlin, black marlin, striped marlin, white marlin, sailfish, swordfish, or spearfish in one day. Catching three of the billfish will qualify the angler for the Offshore Grand Slam Club.

The targeted species for the inshore clubs are bonefish, permit, tarpon and snook. Catching all four species in one day will earn a place in the Inshore Super Grand Slam Club. Three catches in one day will qualify for the Inshore Grand Slam Club.

Past catches under IGFA rules that have been verified and documented will be eligible. Also, in line with IGFA's conservation policy, fish do not have to be landed or weighed to qualify.

Anglers attaining status in any of the "Grand Slam" clubs will receive:

- A personalized award certificate of recognition featuring the work of renowned game fish artist Dave McHose.
- Full-color embroidered jacket patch

Continued on page 11

WORLD RECORDS, *page 2*
INTERNATIONAL NOTES, *page 3*
BOOK REVIEWS, *page 3*
CONSERVATION, *page 12*
TOURNEY CALENDAR, *page 15*

NEW WORLD RECORDS

Included are all world angling records granted since publication of the JULY-AUGUST issue of THE INTERNATIONAL ANGLER.

ALL-TACKLE

SPECIES	SCIENTIFIC NAME	WEIGHT	PLACE	DATE	ANGLER
Bludger	*Carangopides gymnostethus*	8.55 kg 18 lb 13 oz	Inhambane Pandane, Mozambique	Dec. 31, 1994	Mrs. Lynette Adams
Buri	*Seriola guingueradiata*	9.20 kg 20 lb 4 oz	Taleno, Hyogo Japan	May 30, 1995	Takanori Hayashi
Catfish, Eurasian	*Silurus biwaensis*	11.00 kg 24 lb 4 oz	Lake Biwa Shiga, Japan	April 30, 1995	Masakazu Iwabuchi
Catfish, Eurasian	*Silurus biwaensis*	12.00 kg 26 lb 5 oz	Lake Biwa Shiga, Japan	June 10, 1995	Masakazu Iwabuchi
Conger	*Conger conger*	60.44 kg 133 lb 4 oz	Berry Head South Devon, England	June 5, 1995	Vic Evans
Corbina, California	*Menticinrhus undulatus*	2.77 kg 6 lb 2 oz	Newprot Harbor California, USA	June 4, 1995	Bill Swan
Cutlassfish, Atlantic	*Trichiurus lepturus*	1.24 kg 2 lb 11 oz	Galverston Bay Texas, USA	April 17, 1995	Mike Robbins
Grouper, blue and yellow	*Epinephelus flavocaeruleus*	3.60 kg 7 lb 14 oz	Sardunia Bay Port Elizabeth, South Africa	March 22, 1995	Mario Enzio Bruno
Grouper, convict (mahata)	*Epinephelus septemfasciatus*	8.90 kg 19 lb 9 oz	Zenisu, Shizuoka Japan	April 16, 1995	Osamu Hida
Grouper, leopard	*Mycteroperca rosalea*	9.64 kg 21 lb 4 oz	Cabo San Lucas Baja California, Mexico	July 11, 1995	Jeff Klassen
Guapote	*Cichlasoma dovii*	5.70 kg 12 lb 9 oz	Laguna Echandi Costa Rica	April 13, 1991	Capt. Rick Killgore
Jack, black	*Caranx lugubris*	17.94 kg 39 lb 9 oz	Isla Roca Partida Revillagigedo Islands, Mexico	April 13, 1995	Calvin R. Sheets
Jobfish, lavender	*Pristipomoides sieboldii*	2.30 kg 5 lb 1 oz	Zenisu, Shizuoka Japan	May 6, 1995	Yoshihede Tatsumi
Largemouth, humpback	*Serranochromis altus*	3.10 kg 6 lb 13 oz	Tiger Camp, Zambezi River Zambia	Aug. 25, 1994	Don Burton
Piranha, black	*Pygocentrus piraya*	3.18 kg 6 lb 15 oz	Rio Autana Venezuela	Feb. 27, 1995	Alejandro Mata
Powan	*Caregonus lavaretus*	5.39 kg 11 lb 14 oz	Skrabean Nymolla, Sweden	Dec. 15, 1994	Allan Englund
Ray, pale	*Raja lintea*	10.85 kg 23 lb 14 oz	South Langesund Norway	May 11, 1995	Per Markusson
Scamp	*Myeteroperca phenax*	14.17 kg 29 lb	Dauphin Island Alabama, USA	June 2, 1995	Brett Rutledge
Shark, scalloped hammerhead	*Sphyrna lewini*	120.00 kg 264 lb 8 oz	Narooma Australia	March 11, 1995	Glen Edwards
Snapper, mullet	*Lutjanus aratus*	7.48 kg 16 lb 8 oz	Jicaron Reef Panama	May 3, 1995	Allan J. Ristori
Trout, masu	*Onchorynchus masou masou*	4.02 kg 8 lb 13 oz	Shinakawa, Aka River Yamagata, Japan	April 13, 1995	Kazuo Shintate
*Trout, masu	*Onchorhynchus masou masou*	5.25 kg 11 lb 9 oz	Kuzuryu River Fukui, Japan	May 6, 1995	Takeshi Matsuura

LINE CLASS

SPECIES	LINE CLASS	WEIGHT	PLACE	DATE	ANGLER
Barramundi	3 kg (6 lb)	17.30 kg 38 lb 2 oz	Lake Tinaroo Queensland, Australia	May 26, 1995	Jack Leighton
Bass, kelp (calico)	W-03 kg (6 lb)	1.41 kg 3 lb 2 oz	San Clemente Island California, USA	June 10, 1995	Miss Jaime Harrison
Bass, white	3 kg (6 lb)	1.36 kg 3 lb	Mississippi River Backwater Hickman, Kentucky, USA	June 4, 1995	Robert D. Beard
Bass, yellow	6 kg (12 lb)	.47 kg 1 lb	Canyon Lake Arizona, USA	June 2, 1995	William Warman, II
Buffalo, smallmouth	1 kg (2 lb)	7.95 kg 17 lb 8 oz	Trinity River Lake Ray, Hubbard, Texas, USA	March 12, 1995	Scott S. Nichols
Cobia	M-4 kg (8 lb)	34.07 kg 75 lb 2 oz	Gulf of Mexico Alabama, USA	April 26, 1995	Robert T. Cunningham, Jr.
Cobia	M-8 kg (16 lb)	58.42 kg 128 lb 12 oz	Pensacola Beach Florida, USA	April 19, 1995	Thomas Hardy
Cobia	W-37 kg (80 lb)	46.44 kg 103 lb 8 oz	Dauphin Island Alabama, USA	April 24, 1995	Wendy C. Kennedy
Conger	M-37 kg (80 lb)	60.44 kg 133 lb 4 oz	Berry Head South Devon, England	June 5, 1995	Vic Evans
Dolphin	W-24 kg (50 lb)	33.11 kg 73 lb	Pelican Cay, Abaco Bahamas	May 14, 1995	Nancy Paty Jones
Drum, red	W-2 kg (4 lb)	15.42 kg 34 lb	Indian River Lagoon Florida, USA	June 15, 1995	Elizabeth Hogan
*Flounder, summer	M-4 kg (8 lb)	1.64 kg 3 lb 10 oz	Northport New York, USA	June 3, 1995	John W. Richy, II
Flounder, summer	M-4 kg (8 lb)	2.55 kg 5 lb 10 oz	Sandy Hook New Jersey, USA	July 3, 1995	Al "The Hat" Lama
Jack, Pacific crevalle	M-3 kg (6 lb)	7.03 kg 15 lb 8 oz	Playa Zancudo Costa Rica	May 21, 1995	Craig Whitehead, MD
Jack, horse-eye	W-15 kg (30 lb)	7.13 kg 15 lb 11 oz	Ocean Reef, Key Largo Florida, USA	July 4, 1995	Sherry Jumonville

Continued on page 4

BOOK REVIEWS
By Gail M. Morchower

This column is a service to members and lists recent books received by IGFA for review. The publications are usually available in bookstores or can be ordered direct from the publisher. IGFA neither sells nor benefits from the sale of any books listed, though we will gladly help with ordering information for members in countries where the publications are not available.

Captain Scott Moore's Snook Fishing Secrets
G. B. Knowles, Seven Pines Publishing Company (P.O. Box 14069, Bradenton, FL 34280), 1994, 169 pp., illustrated, $13.95, softbound.

Captain Scott Moore, one of Florida's top snook guides, has teamed up with outdoor writer G. B. Knowles to produce this definitive work on how, where, and when to catch Florida snook. Tackle, lures, catching bait, and reading tides are covered, plus interesting information about the life cycle of the snook, evolution of modern snook fishing, conservation and management.

The Kingfish Bible
Captain Joe Richard, Saltwater Specialties (P.O. Box 205, Port O'-Connor, TX 77982), 1994, 108 pp., illustrated, $19.95, softbound.

Filled with lots of funny tales, this is more than a *how-to* fishing book. The kingfish is a favorite of Captain Joe's (he has been winning king mackerel tournaments for 12 years), and although he imparts all the expected *tip-and-technique-type* information you will need, he does so in a very entertaining fashion, even covering such topics as kingfish management and research, tournament-winning strategies, and kingfish art and cookery.

Marine Life of the North Atlantic: Canada to New England
Andrew J. Martinez (P.O. Box 335, Wenham, MA 01984), 1994, 272 pp., illustrated, $29.95 plus $3 shipping/handling, spiralbound.

Two Oceans: A Guide to the Marine Life of Southern Africa
G. M. Branch, et al. David Philip Publishers (P.O. Box 23408, Claremont 7735, South Africa), phone: (021)64-4136, fax: (021)64-3358, 1994, 360 pp., illustrated, R89,95 (contact publisher for postage), softbound.

Two comprehensive guides to marine life in very different parts of the world. *Marine Life of the North Atlantic* features color photos of more than 200 plants and animals found in this area, complete with their characteristics and behavior. A

Continued on page 6

INTERNATIONAL GAME FISH NOTES

Two Women Anglers Take Marlin Granders

In the history of Atlantic big game angling, no woman had ever landed a marlin over 1,000 pounds on 80-lb tackle before this year. In fact, only two women in history had ever attained this milestone even on 130-lb tackle, once in St. Thomas, Virgin Islands, and once in the Gulf of Mexico. It was therefore with some amazement that the big game community learned of two granders being caught by women on 80-lb tackle just nine days apart and within a few hundred miles in the eastern Atlantic.

The first catch came from Madeira on July 23 where Shelby E. Rogers from Arkansas weighed in a blue marlin weighing 1,059 lb after a two-hour fight. The catch was made aboard *Tyson's Pride* with Capt. Tim Hyde. The pending record, if approved, will beat Chris Dumas De Rauly's mark by 164 lb. The thousand-pound barrier was broken again on August 1 at Santa Maria Island in the Azores. Also fishing with 80-lb tackle, Jeannine Francois of Belgium landed a blue marlin of 1,058 lb 3 oz. Incredibly, her fish missed tying Rogers' catch by just 13 oz! Francois was fishing aboard the *RABAO* with Capt. Arnaldo Andrade.

So far this year, eight Atlantic granders have been reported to IGFA.

11 Shark Attacks Off Florida Coast

The most active summer of shark attacks off Florida's coast as far as records reveal was recorded this year with a total of 11, including one fatality. Nine of the shark attacks took place off Daytona Beach, and the other two in the Florida Keys, including the death of a scuba diver in September. Most victims were surfers or swimmers who suffered bites on their legs and thighs.

Azores Waters Produce Unusual Marlin Catches

The waters around Horta, Faial Island in the Azores have been yielding some noteworthy catches. Belgian angler Leo Cloostermans, fishing aboard the *Double Header* with Captain Don Merten, has submitted a potential 4-lb line class blue marlin record of 573 pounds. If approved, this catch will exceed the breaking strength of the line by well over 100 times.

Captain Joseph Franck reports that on August 16, while fishing aboard the *Shanghai*, three German anglers tagged and released three marlin estimated at over 1,000 lb. The catches were made in less than four hours, and according to the boat's GPS plotter, the hookups were all made in the same square kilometer.

During six days of fishing, the German anglers released a total of 13 blue marlin and "a bunch of whites." Captain Franck reported the average weight of the marlin in his area at about 650 pounds.

Next season, Captain Franck plans to fish the waters of Santa Maria, a nearby island where the waters are warmer. This will be experimental fishing, and special charter rates are available for IGFA members willing to participate in this adventure. For further information,Captain Franck's Fax number is 351-92-93720.

Magic Crew Releases Record 1,457 Billfish

"At year's beginning we had a mission to take back the record number of billfish released for a calendar year," said *Magic* Captain John LaGrone. On June 10, the *Magic* crew released eight billfish on their final day of fishing in Venezuela waters to post a total of 1,457 releases.

In 1991 then *Magic* Capt. Brendan Burke set a record with 1,414 billfish in Costa Rican waters. The next year *Tijereta* Capt. Bubba Carter, also in Costa Rica, upped the count to 1,448 releases.

The *Magic* crew, with their entourage of dedicated anglers, fished 115 days for an amazing average of 12.67 releases per day. The largest catch was a 550 lb blue marlin by Lou Ekus on January 30.

Conflict of Interest Hurting U.S. Fisheries?

A World Wildlife Fund report links declines in commercially and recreationally important U.S. fisheries to conflicts of interest in regional fishery management councils.

The study, "Managing U.S. Marine Fisheries: Public Interest or Conflict of Interest?", reveals that the councils, established by U.S. law to manage fishing practices, are dominated by representatives with a direct stake in the fisheries they control.

"This has led the councils in some cases to sacrifice the long-term health of U.S. fisheries for short-term financial gains," said WWF fisheries policy analyst Scott Burns.

For a copy of the report write to: World Wildlife Fund, 1250 Twenty-Fourth Street, NW, Washington, DC 20037 U.S.A.

LINE CLASS

Mackerel, cero	M-3 kg (6 lb)	5.10 kg 11 lb 4 oz	Key West Florida, USA	May 8, 1995	Patrick T. Quisenberry
Mackerel, king	M-8 kg (16 lb)	32.31 kg 71 lb 4 oz	Dry Tortugas Key West, Florida, USA	March 17, 1995	Fred W. Gadd
Marlin, striped	M-4 kg (8 lb)	74.38 kg 164 lb	Cocos Island Costa Rica	June 18, 1995	Jerry Dunaway
Perch, white	3 kg (6 lb)	.59 kg 1 lb 5 oz	Western Branch Reservoir Suffolk, Virginia, USA	May 6, 1995	Charles Frank Forbes
Salmon, Atlantic	15 kg (30 lb)	27.48 kg 60 lb 9 oz	Kasen, Bay of Pikavic Baltic Sea, Sweden	May 9, 1995	Kenneth Olsson
Salmon, chinook	1 kg (2 lb)	20.32 kg 44 lb 12 oz	Kenai River Alaska, USA	July 1, 1995	Raleigh Werking
*Seabass, Japanese (suzuki)	M-3 kg (6 lb)	2.30 kg 5 lb 1 oz	Haneda Tokyo, Japan	April 6, 1995	Junzo Okada
Seabass, Japanese (suzuki)	M-3 kg (6 lb)	8.10 kg 17 lb 13 oz	Yoshino River Tokushima, Japan	May 3, 1995	Akira Miyoshi
Snapper (squirefish)	M-10 kg (20 lb)	14.50 kg 31 lb 15 oz	Hauraki Gulf New Zealand	May 20, 1995	Rob Rangi
Snapper (squirefish)	W-8 kg (16 lb)	8.60 kg 18 lb 15 oz	Rock 62 Raglan, New Zealand	April 25, 1995	Sheryl Anne Hart
Swordfish	W-15 kg (30 lb)	135.80 kg 297 lb 15 oz	Hout Bay Republic of South Africa	May 12, 1995	Maureen K. Colyn
Tarpon	W-3 kg (6 lb)	52.16 kg 115 lb	Conch Key Florida, USA	April 30, 1995	Elizabeth Hogan
Trevally, bigeye	M-6 kg (12 lb)	6.60 kg 14 lb 8 oz	Ishigaki Island Okinawa, Japan	May 30, 1995	Takaomi Hashimoto
Trout, brown	3 kg (6 lb)	.90 kg 2 lb	Lake Taneycomo Branson, Missouri, USA	June 14, 1995	John Hardin
Tuna, bluefin	W-8 kg (16 lb)	29.48 kg 65 lb	Twin Wrecks Ocean City, Maryland, USA	July 12, 1995	Karen Gilbreath
Tunny, little	W-4 kg (8 lb)	6.80 kg 15 lb	Isla Mujeres Quintana Roo, Mexico	May 6, 1995	Bibi Capozzi
Tunny, little	W-6 kg (12 lb)	7.71 kg 17 lb	Isla Mujeres Quintana Roo, Mexico	May 7, 1995	Bibi Capozzi

FLY ROD

SPECIES	TIPPET CLASS	WEIGHT	PLACE	DATE	ANGLER
Bass, European	Tippet 8 kg (16 lb)	2.27 kg 5 lb	Ansedonia Grosseto, Italy	May 13, 1995	Marco Sammicheli
Bass, largemouth	Tippet 3 kg (6 lb)	4.59 kg 10 lb 2 oz	Lake Dixon Escondido, California, USA	May 30, 1995	Dennis L. Ditmars
Bass, smallmouth	Tippet 3 kg (6 lb)	1.95 kg 4 lb 5 oz	Basswood Lake Ontario, Canada	May 29, 1995	Steven J. Torok
Carp, common	Tippet 3 kg (6 lb)	6.12 kg 13 lb 8 oz	Terramar Lake Parkland, Florida	April 13, 1995	Capt. Zac Grossman
Cobia	Tippet 2 kg (4 lb)	16.87 kg 37 lb 3 oz	Destin Florida, USA	April 26, 1995	George E. Hogan, Jr.
Drum, red	Tippet 8 kg (16 lb)	19.50 kg 43 lb	Banana River Lagoon Florida, USA	May 7, 1995	Greg Braunstein, MD
Halibut, California	Tippet 8 kg (16 lb)	3.09 kg 6 lb 13 oz	Alameda Rockwall, San Francisco Bay, California	June 3, 1995	Lance P. Anderson
Halibut, California	Tippet 10 kg (20 lb)	5.95 kg 13 lb 2 oz	Palos Verdes California, USA	April 30, 1995	Dr. John F. Whitaker
Halibut, Pacific	Tippet 2 kg (4 lb)	8.94 kg 19 lb 11 oz	Albatross Bank Alaska, USA	May 2, 1995	Curt L. Tolle
Inconnu	Tippet 10 kg (20 lb)	5.89 kg 13 lb	Holitna River Alaska, USA	June 12, 1995	Jim Seegraves
Mackerel, king	Tippet 10 kg (20 lb)	24.94 kg 55 lb	Key West Florida, USA	March 20, 1995	Ben Bergeron
Muskellunge	Tippet 8 kg (16 lb)	8.39 kg 18 lb 8 oz	Niagara River New York, USA	June 18, 1995	Rick Kustich
Pike, northern	Tippet 3 kg (6 lb)	9.07 kg 20 lb	Little Vermillion Lake Ontario, Canada	May 14, 1995	William A. Kuhle
Runner, rainbow	Tippet 10 kg (20 lb)	4.87 kg 10 lb 12 oz	Tropic Star, Pinas Bay Panama	April 18, 1995	Jeff Benhard, II
Salmon, chinook	Tippet 3 kg (6 lb)	8.79 kg 19 lb 6 oz	Anchor River Alaska, USA	June 19, 1995	John L. Martin
Seabass, white	Tippet 8 kg (16 lb)	7.92 kg 17 lb 7 oz	Horseshoe Kelp Long Beach, California, USA	May 20, 1995	Bill Matthews
Shad, American	Tippet 3 kg (6 lb)	2.60 kg 5 lb 15 oz	Delaware River New Jersey, USA	May 20, 1995	Jerome J. McDonnell
Tripletail	Tippet 6 kg (12 lb)	5.30 kg 11 lb 11 oz	Islamorada Florida, USA	May 16, 1995	Andy Mill
Tripletail	Tippet 8 kg (16 lb)	9.07 kg 20 lb	Duck Key Florida, USA	July 3, 1995	Robert Chandler Schwartz
Trout, brown	Tippet 3 kg (6 lb)	9.52 kg 21 lb	Rio Grande, Tierra del Fuego Argentina	March 17, 1995	Philip E. Carlin
Trout, brown	Tippet 6 kg (12 lb)	11.34 kg 25 lb	Kav Tapan River Rio Grande, Tierra del Fuego	Feb. 20, 1995	John F. Sutton

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Satellite Tags Placed On Four Blue Marlin By PORF Scientists

Dr. Barbara Block, of the Pacific Ocean Research Foundation (PORF) and Stanford University, and Dr. Heidi Dewar of the Monteray Bay Aquarium Research Institution successfully tagged four blue marlin with their newly developed satellite tag during the Hawaiian International Billfish Tournament last July 29-August 6. The project was sponsored by the PORF with generous donations from other individuals.

The satellite tag was designed to take advantage of the time a blue marlin spends close to the surface of the ocean. PORF research using acoustic telemetry techniques, established that blue marlin spend 20-40% of their time close to the surface if not on the surface. The satellite tag has a small transmitter and batteries capable of sending a signal to one of three orbiting satellites which then are able to geolocate the fish on earth.

The transmitter and batteries were engineered to fit inside a streamlined float that has an antennae. The design permits an antennae to break the surface when the fish is within 3 feet of the surface. Only if the fish is at the surface during the pass of at least two of the NOAA satellites, will a transmission of position be accurately recorded.

In Hawaiian waters, this window for transmission occurred for short periods of time during eight passes of the satellites per day. A seawater switch keeps the tags turned off, saving precious battery life when the fish and tag are completely submerged. The tag has a 3-month battery life, but with only occasional forays to the surface it lasts from 6-8 months.

The satellite tags were attached to marlin with a custom-designed titanium tag attached to a 4-5 foot wire leader. The scientists hoped to be able to track the fish across the Pacific by hearing at least once a month as they move away from the islands.

Marlin #1 was tagged off of Hookena on the charter boat *Marlin Magic* on July 28 after Captains Marlin Parker and McGrew Rice of the *Ihu Nui* engineered a passing over of the scientists' tag pole to a crew member aboard the *Marlin Magic*. The marlin was angled to the boat by Craig Caughlan of the Lizard Island Game Fishing Club and tagged by mate John Marinovich.

The fish was estimated to weigh 200 lb. Donations for this tag came from the Game Fishing Association of Australia. The tag received satellite "hits" on the days following the tagging, but they were not of high enough quality to pinpoint the location of the fish. However, this did indicate that the fish had survived and was logging some time close to the surface. The tag is referred to as the GFAA Tag.

Marlin #2, estimated at 650 lb, was caught on July 30 around noon on the *Ihu Nui* with Captain Rice. The angler was PORF scientist Charles Farwell of the Monterey Bay Aquarium. The fish was tagged and released in 18 minutes by Dr. Block. It was caught off Keahole Point in 120 fathoms of water. An excellent satellite hit was received on this fish at 7:21 p.m. the same day which indicated a southwesterly movement of the fish of 14.5 nm in 7 hours (2 nm per hour). No other contact has been made since July 31. Donations for this tag were from the Sealand Corporation and the tag is called the Sealand Tag.

Marlin #3 was caught by John Creswick of the Moreton Bay Game Fishing Club aboard the *Ihu Nui* with Captain Rice. The fish, estimated to be 175 lb, was tagged by Dr. Block. The tag came off the fish the same day and although an attempt was made to retrieve the tag aboard the *Marlin Queen* with Captain Red Butler, it remained at the surface. Fortunately the scientists have found a use for the tag as it is providing use as an excellent current indicator around the Big Island.

Marlin #4 was tagged on the last day of the Hawaiian International Billfish Tournament aboard the *Northern Lights* with Captain Kelley Everette. It was angled to the boat not once but twice by Huntington Harbor angler Al Herbold. Al had the fish to the boat one time, after which it was double tagged with a NMFS and Billfish Foundation tag. Capt. Everette had recognized the satellite tagging team was close by on

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BASSMASTER'S Heaviest 25 Bass

The following list of large bass was compiled and updated by IGFA representative Mat Vincent, staff writer for BASSMASTER magazine, and editor of B.A.S.S. Times.

1.) 22 pounds, 4 ounces; Montgomery Lake, Georgia; George Washington Perry; June 2, 1932.

2.) 22 pounds, 1/2 ounce; Castaic Lake, California; Bob Crupi; March 12, 1991.

3.) 21 pounds, 12 ounces; Castaic Lake, California; Mike Arujo; March 5, 1991.

4.) 21 pounds, 3 1/2 ounces; Lake Casitas, California; Raymond Easley; March 4, 1980.

5.) 21 pounds, 1/2 ounce; Lake Castaic, California; Bob Crupi; March 9, 1990.

6.) 20 pounds, 15 ounces; Lake Miramar, California; David Zimmerlee; June 23, 1973.

7.) 20 pounds, 14 ounces; Castaic Lake, California; Leo Torres; February 4, 1990.

8.) (tie) 20 pounds 4 ounces; Lake Hodges, California; Gene Dupras; May 30, 1985.

8.) (tie) 20 pounds, 4 ounces; Lake Miramar, California; Johnny Garduno; March 25, 1990.

10.) 20 pounds, 2 ounces; Big Fish Lake, Florida; Fritz Friebel; May, 1923.

11.) 19 pounds, 8 ounces; Lake Miramar, California; Keith Gunsauls; March 7, 1988.

12.) (tie) 19 pounds, 3 ounces; Lake Morena, California; Ardon Hanline; February 17, 1986.

12) (tie) 19 pounds, 3 ounces; Lake Wohlford, California; Steve Beasley; February 3, 1986.

14.) 19 pounds, 1/2 ounce; Lake Miramar, California; Sandy DeFresco; March 14, 1988.

15.) 19 pounds, 1/2 ounce; Castaic Lake, California; Dan Kadota; January 8, 1989.

16.) 19 pounds, Lake Tarpon, Florida; Riley Witt; June 21, 1961.

17.) 18 pounds, 15 ounces; Lake Isabella, California; Keith Harper; April, 1984.

18.) 18 pounds, 14 ounces; Castaic Lake, California; Dan Kadota; February 12, 1988.

19.) (tie) 18 pounds, 13 ounces; Lake Isabella, California; Joe Weaver; February, 1984.

19.) (tie) 18 pounds, 13 ounces; St. Johns River, Florida; Buddy Wright; April 12, 1987.

21.) (tie) 18 pounds, 12 ounces; Lake Otay, California; Bob Eberly; March 9, 1980.

21.) (tie) 18 pounds, 12 ounces; San Vincent Lake, California; James Steurgeon , March 1, 1981.

21.) (tie) 18 pounds, 12 ounces; Castaic Lake, California; Manny Arujo; January 25, 1991.

24.) 18 pounds, 11 ounces; Lake Casitas, California; Bill Beckum, January 15, 1980.

25.) (tie) 18 pounds, 9 ounces; San Vicente Lake, California; Bobby Sandberg; March 19, 1976.

25.) (tie) 18 pounds, 9 ounces; Castaic Lake, California; Bob Crupi, January 27, 1992.

Note: reprinted with permission of BASSMASTER Magazine from September/October 1995 issue.

NEW PUBLICATIONS

Continued from page 3

very user-friendly guide (it comes with suggestions for beginners) with room to record your own data. The rich marine heritage of South Africa is presented in *Two Oceans*; 1400 species, including invertebrates, fish, reptiles, birds, mammals and plants, are identified by descriptions, biology and distribution data, and color photographs. Both guides are suitable for scientists, students, divers and beachcombers.

Essential Fly Fishing
Tom Meade, Lyons & Burford Publishers (31 West 21 Street, New York, NY 10010), 1994, 142 pp., color illustrations by Bob White, $15.95, softbound.

Essential Fly Fishing offers beginners a chance to learn the fundamentals of this great sport quickly, properly, and painlessly. How to find fish in mostly fresh but also salt water, how to choose the right tackle, casting and knot basics, how to select and tie the best imitative flies, ethics, safety, fly fishing terms — all and more are covered, making this a useful, do-it-yourself guide to the sport. The art work — vivid watercolors by Bob White — are unusual for a primer and are special.

The Tuna Fish Gourmet
Tracy Seaman, Villard Books (Random House, Inc., 400 Hahn Road, Westminster, MD 21157), 1994, 150 pp., illustrated, $12.00, softbound.

Believe it or not, this cookbook is devoted to canned tuna fish: it features 75 innovative recipes (with humorous line drawings) for that economical, enjoyable, and now politically correct (i.e. dolphin-proof) protein source. The varied recipes (from down-home classics such as Tuna Noodle Casserole to exotic concoctions such as Tuna Bruschetta with Radicchio, Currants and Pine Nuts) are as much fun to read as to cook.

Hide and Seek Under the Sea
Rick Sammon, Voyageur Press (123 North Second Street, Stillwater, MN 55082), 1994, 64 pp., illustrated, $14.95 plus $2.95 shipping/handling, hardbound.

Night Reef: Dusk to Dawn on a Coral Reef
William Sargent

Sea Jellies: Rainbows in the Sea
Elizabeth Tayntor Gowell
New England Aquarium Books. Available from Franklin Watts (5440 North Cumberland Avenue, Chicago, IL 60656), 1991 and 1993, 41 and 57 pp., illustrated, $14.95 and $15.95, hardbound.

Spectacular photographs and very readable and informative texts highlight these three titles for young readers (age 9 and up). In *Hide and Seek Under the Sea,* coral reef predators and prey, and the amazing tricks they use in their fight for survival (secret hiding places, unique defense systems, camouflage) are featured. *Night Reef* also provides a vivid description of the daily nocturnal dramas of survival on a coral reef, with photos revealing how camouflage, bioluminescence and special night vision help fishes to survive in one of the most diverse neighborhoods on earth. *Sea Jellies* was selected as an Outstanding Science Trade Book for Children for 1994 by the National Science Teachers Association. It examines the many kinds of sea jellies — how they eat, breathe, reproduce and sting — and takes us beneath the surface where these unusual animals glide gracefully through the water. Three fascinating looks at the strange and beautiful animals in the deep sea world.

River Journal: Thompson River
Arthur J. Lingren

River Journal: Pere Marquette
Matthew A. Supinski

River Journal: Henry's Fork
Larry Tullis

Frank Amato Publications (P.O. Box 82112, Portland, OR 97282), 1994, 1994 and 1995, 48 pp. each, illustrated, $14.95, $14.95 and $15.95, softbound.

These are the seventh, eighth and ninth installments in the wonderful *River Journal* series. Each is filled with local stories and characters, points of interest, a detailed river map, color fly plates and beautiful color photos of the area. This time around three authors share their vast knowledge and love of the Thompson River in British Columbia, Canada, the Pere Marquette in Michigan, and Henry's Fork in Idaho.

Fish Swimming
John J. Videler

Sea Bass: Biology, Exploitation and Conservation
Graham D. Pickett and Michael G. Pawson
Chapman & Hall (115 Fifth Avenue, New York, NY 10003), 1993 and 1994, 260 and 337 pp., illustrated, $69 and $94.95, hardbound.

Chapman & Hall's *Fish and Fisheries Series* presents timely treatments of important aspects of fish biology. Most volumes are of interest to those involved in biology, zoology, ecology and physiology, though non-specialist readers — from college students to those with an interest in the industrial and commercial aspects of fish and fisheries — comprise an additional audience. In *Fish Swimming*, John Videler reviews what happens when fish swim through water as he covers all aspects of fish locomotion and such topics as musculature, fins, shape adaptations, kinematics, swimming dynamics, ecological implications, etc. The authors of *Sea Bass*, who are based at the MAFF Fisheries Laboratory in the U.K., present a complete examination of the species and its fishery, including the biology and behavior of the species, aquaculture, the impact of commercial and sports fishing, and the future of bass fisheries.

The Best & Worst of Tred Barta
Tred Barta, edited by Dean Travis Clarke (10625 N. Military Trail, Suite 204, Palm Beach Gardens, FL 33410), 1994, 293 pp., illustrated, $25 plus $3.50 shipping/handling, softbound.

Outdoor writer Captain Tred Barta (*Sport Fishing* and *Marlin* magazines) has compiled an extremely comprehensive collection of writings on big game fishing techniques (complete with diagrams depicting trolling, hook-up, boat maneuvering, fighting procedures) and philosophies. Credited with developing modern-day canyon fishing techniques and catching more bigeye on rod and reel than any other man in the world, Barta covers these and many other topics in his inimitable — and uncensored — style.

The Ultralight Angler: How to Catch Big Fish on Light Tackle
Mark Feldman, Ragged Mountain Press (Blue Ridge Summit, PA 17294), 1995, 194 pp., illustrated, $24.95, hardbound.

Many of you may remember Mark Feldman's article on ultralight fishing in New Zealand that appeared in the *1993 World Record Game Fishes* book. Here is his complete guide to the rapidly-growing, challenging sport of *threading* — catching game fish on 2 to 4 lb test line. Ultralight fishing *does* require lots of skill, but all the information and special techniques you will need are included here, as well as a brief history of ultralight angling, choosing and maintaining your gear, finding and attracting fish, safely handling and releasing the fish you catch, selecting the best boat, identifying species of seabirds, and more. Add in the how-to illustrations, the author's (holder of multiple world records) personal fishing exploits, and the amusing pen-and-ink sketches by artist Tom McFarland, and you have a book that is instructive, informative, and never lets you forget fishing is fun.

Tournament News

IWFA Anglers Win Costa Rica Event

For the first time, women anglers dominated the Club Amateur de Pesca's International Sailfish Tournament last June in Costa Rica. Not only did the International Women's Fishing Association (IWFA) team of Alene Molle, Nora Schofield and Janeen Davis win the first place team award with 10 releases, but Alene captured first place in the individual angler category with 6 fish.

All three women are veterans of the international tournament circuit. Nora has missed only one of Costa Rica's International Sailfish Tournaments in 17 years.

The IWFA win was even more impressive as the anglers found conditions less than favorable with an onshore wind and a scarcity of fish. Only 68 fish were caught and released by the tournament's 48 anglers, the lowest average catch in tournament history.

Second place went to the Curacao team (Salomon Kaluf, Hector Henriquez, Sam Evert) and third to Miami Rod & Reel (Tim Choate, Paula James, Pedro Perez), each with 7 releases.

Over 500 Compete In Ocean City Tourney

The 1995 Ocean City Tuna Tournament proved to be outstanding with 76 boats and more than 500 anglers, mates and captains participating. The top boat in the Largest Fish division was Captain Rich Egerton's *Salty Dog III* which brought in an 88 lb bluefin tuna. Second place was a tie between the Dollar Bill with Capt. Cale Layton and the Syco II with Capt. Tim Hake, both catching 71 lb yellowfin tuna.

Winner in the Most Pounds division was the *Reel Time* with Captain Steve Spindler weighing in a total of 310 lb. Second place went to *Lisa* with Capt. Stu Windsor, 224 lb, and third was taken by Craig Conway and the *Jeni-Lin III* with 209 lb.

Schultz' Five Releases Best in Bermuda Event

Angler Jack Schultz, fishing aboard Capt. Joey Dawson's *Gringo* caught and released five blue marlin to win individual and boat honors in the 22nd annual Bermuda Billfish Tournament in August. In second place was Capt. Eugene Barnes Jr.'s *Blue Chip III* with two blue marlin and one white marlin releases. During the four days, 94 blue marlin were raised including some large fish estimated at up to 550 lb. Twenty-four marlin were caught and 22 released. The two landed weighed 387 and 401 lb. A total of 84 anglers on 22 boats competed.

Anglers Release all 76 Blues off St. Thomas

Fifty-six anglers caught and released 76 blue marlin last August in the Atlantic Blue Marlin Tournament, also known as the U.S. Virgin Islands Open Boy Scout Tournament.

Sam Jennings was the top angler with five blue marlin releases. He fished with his son Jon on their 58-foot *Revenge*. Hal Prewitt on *Marlin Prince* was second, also with five releases, and Cliff Wardelly on *Gray Ghost* was third with four releases. The threat of Hurricane Felix kept the field down to just 23 of the 40 registered boats.

Auman Wins Crown For Bahamas Series

"It was the thrill of a lifetime," said Bob Auman, after winning the 1995 Bahamas Billfish Championship. Auman, aboard his 50-foot *Moonraker*, competed against the world's finest sportfishermen in the challenging five-leg tournament series. Spanning from April until June, the series started in Bimini and continued to North Abaco (Walker's Cay), Treasure Cay, Boat Harbour, and Chub Cay. Each tournament involved four days of serious fishing.

Spurred by catches of a 448 lb blue and a 467 lb blue, Auman totaled 2,165 points for the victory. Dean Shealy on *High Cotton* was second with 1,875 points and John Moll on *Gun Moll* was third with 1,750 points. The largest marlin caught was a 524 lb blue by Myrtice Peacock aboard the *Bail Out*.

478 Lb Blue Marlin Wins Cayman Honors

Thomas Terril from St. Louis earned top honors in the Cayman Islands Million Dollar Month International Fishing Tournament in June. Terril boated a 478 lb Atlantic blue marlin on June 23 to win the Cayman Islands Government Trophy.

The final scoreboard included 200 anglers on 70 boats who caught three blue marlin, one white marlin, 85 yellowfin tuna, 65 wahoo, and 35 dolphin. A total of 67 blue marlin were released. Terril won a weeklong vacation for 99 years at a resort in Grand Cayman, and $5,000. An all-tackle world record would earn a prize of $1 million.

Continued on page 14

Reserve Your Ad Space Now!

The 1996 edition of IGFA's annual WORLD RECORD GAME FISHES will go to press in January, so it's important that we have your space reservation in our hands well in advance. WORLD RECORD GAME FISHES is the official guide to freshwater, saltwater and fly fishing records for nearly 400 species.

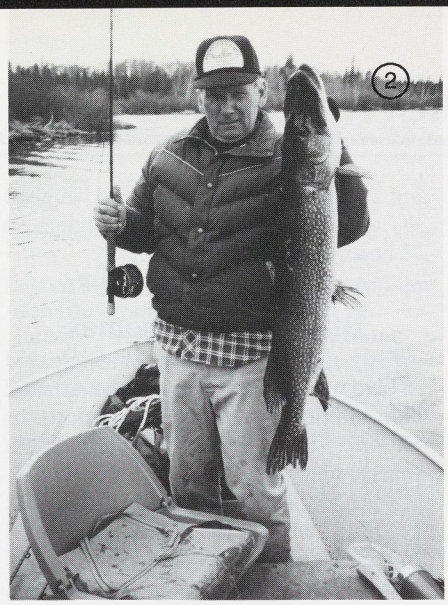
With 352 pages of records, illustrated articles, angling rules and regulations, species identification, tag and release information, and more, this annual book has been called "the most comprehensive piece of fishing information available anywhere." One outdoors editor wrote: "The IGFA's book is an encyclopedia on fishing and fishes of the world second to none. If ever there were a textbook on the up-to-date status of fishes and fishing, IGFA's annual publication would be it."

The chance to place your ad in this highly regarded book occurs only once each year...yet your message will be seen over and over again because WORLD RECORD GAME FISHES is not a throw-away item. Anglers use it as a solid reference guide all year long. It's sent to all members of IGFA — an exclusive, unpublished listing of dedicated anglers worldwide — and single copy sales have increased each year through our expanded advertising, marketing and distribution programs.

If you provide a product or service that sport fishermen and women should know about, make sure you're in "The Book." A rate card and advertising space reservation form are available from: International Game Fish Association, 1301 East Atlantic Blvd, Pompano Beach, FL 33060.

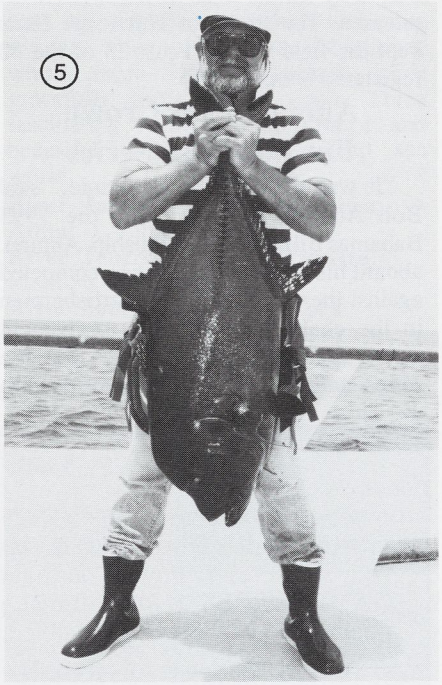
Advertising closing date: November 30, 1995.

1. It was a day of "firsts" for Wendy Kennedy last April. Jigging from the *Kwazar II* off Dauphin Island, Alabama with her husband, Capt. Mike Kennedy, she boated her first big cobia which became her first world record. The 103 lb 8 oz catch has taken the women's 80 lb line class record and became the couple's first year anniversary present.



2. Fly fishing with a mega diver lure netted a world record for William Kuhle on 6-lb tippet for this 20 lb northern pike in Little Vermillion Lake, Ontario, Canada in May. Shown here in the boat, Kuhle weighed his fish on land with a scale certified through IGFA breaking the old record by 6 lb.

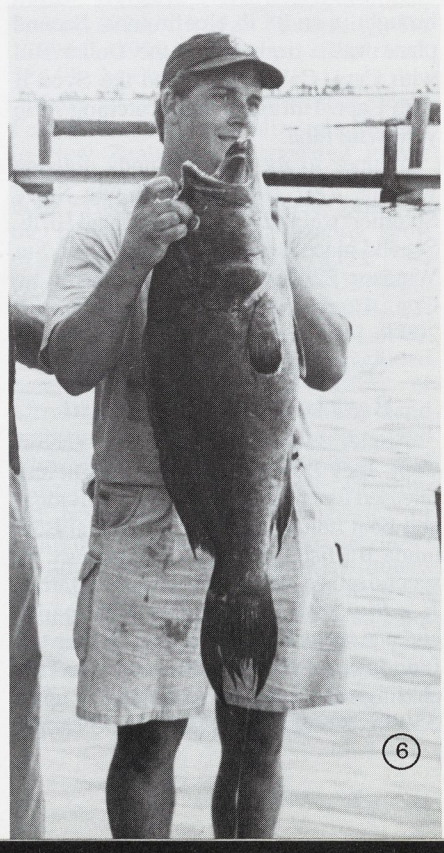
5. Calvin Sheets displays his 39 lb 9 oz black jack taken in April of '94 on Isla Roca Partida, Revillagigedo Islands, Mexico while live bait fishing from the *Excel*, captained by Randy Toussaint. Sheets defeated the previous All-Tackle record set in 1988 by over 10 lb.



6. Bottom fishing off of Dauphin Island, Alabama on the *Kwazar II* in June with Capt. Mike Kennedy rewarded Brett Rutledge with an All-Tackle record for this 29 lb scamp. He used a cigar minnow as bait on 60-lb line.

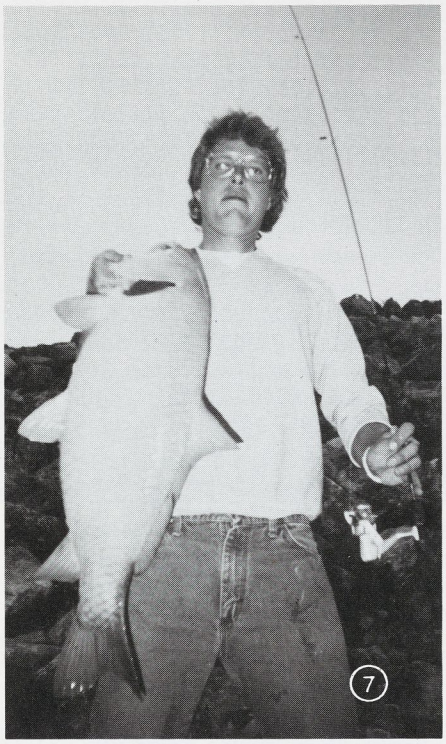
3. Nancy Paty Jones poses with the new 50-lb women's world record dolphin. She caught the 73 lb fish while trolling from the *Vamoose* captained by Oliver L. Jones, Jr. in Pelican Cay, Abaco, Bahamas in May using a soft head lure. The former record was 68 lb.

4. This 133 lb 4 oz monster conger earned Vic Evans an 80-lb line class record and an All-Tackle record. While anchored off a wreck on the *Sea Spray II*, 10 miles southeast of Berry Head, South Devon, England it took Evans about 25 minutes to land his record catch.

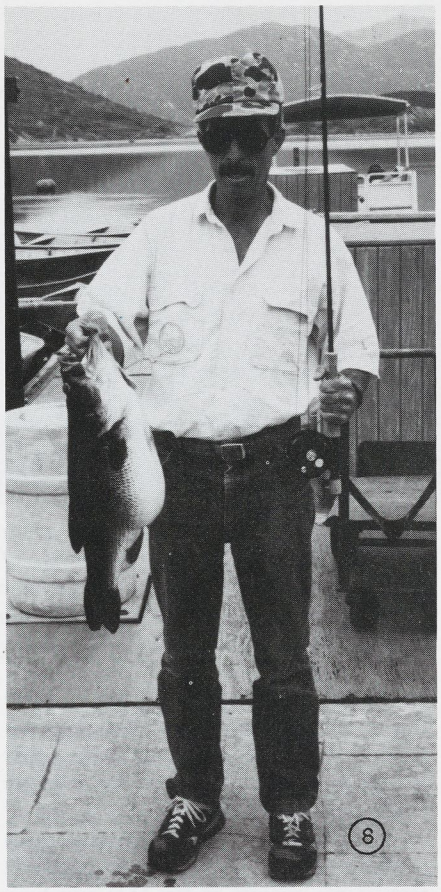


WORLD RECORD GALLERY

IGFA has granted 81 new world records since publication of the July-August issue of *The International Angler*. The records listed in this issue (pages 2-4-14) include 22 all-tackle, 32 line class (8 freshwater, 24 saltwater), and 27 fly rod records. The total for the year is 355 records.

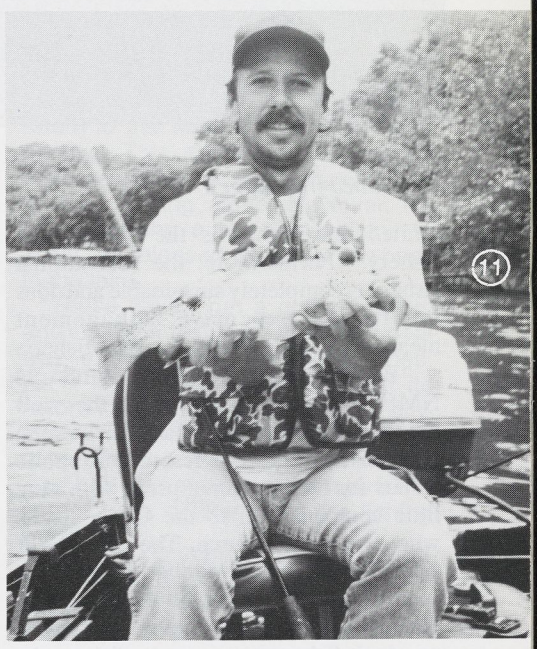


7. Catching bait in the headwaters of Lake Ram and Trinity River, Hubbard, Texas, in March Scott Nichols set his ultra-light spinning rig on 2-lb line. To his surprise a 17 lb 8 oz smallmouth buffalo struck and 45 minutes later he had a record, more than doubling the previous record of 7 lb 10 oz.



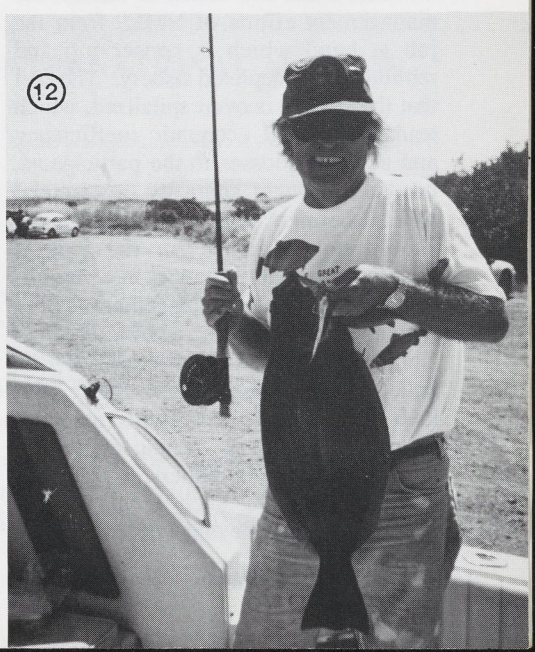
8. Fly fishing with a woolly bugger on Lake Dixon, California in May rewarded Dennis Ditmars with a 10 lb 2 oz largemouth bass record on 6-lb tippet and a 10-lb bass club entry. The previous record of 4 lb 12 oz stood for nearly a year before being defeated.

9. Casting from the *Doctor Drum* with husband George Hogan, Jr. and Capt. Shawn Foster in the Indian River Lagoon, Florida in May earned Elizabeth Hogan a 4-lb line class record with her 34 lb red drum bettering the existing record by 3 lb. She is also eligible for the 5-1 club.

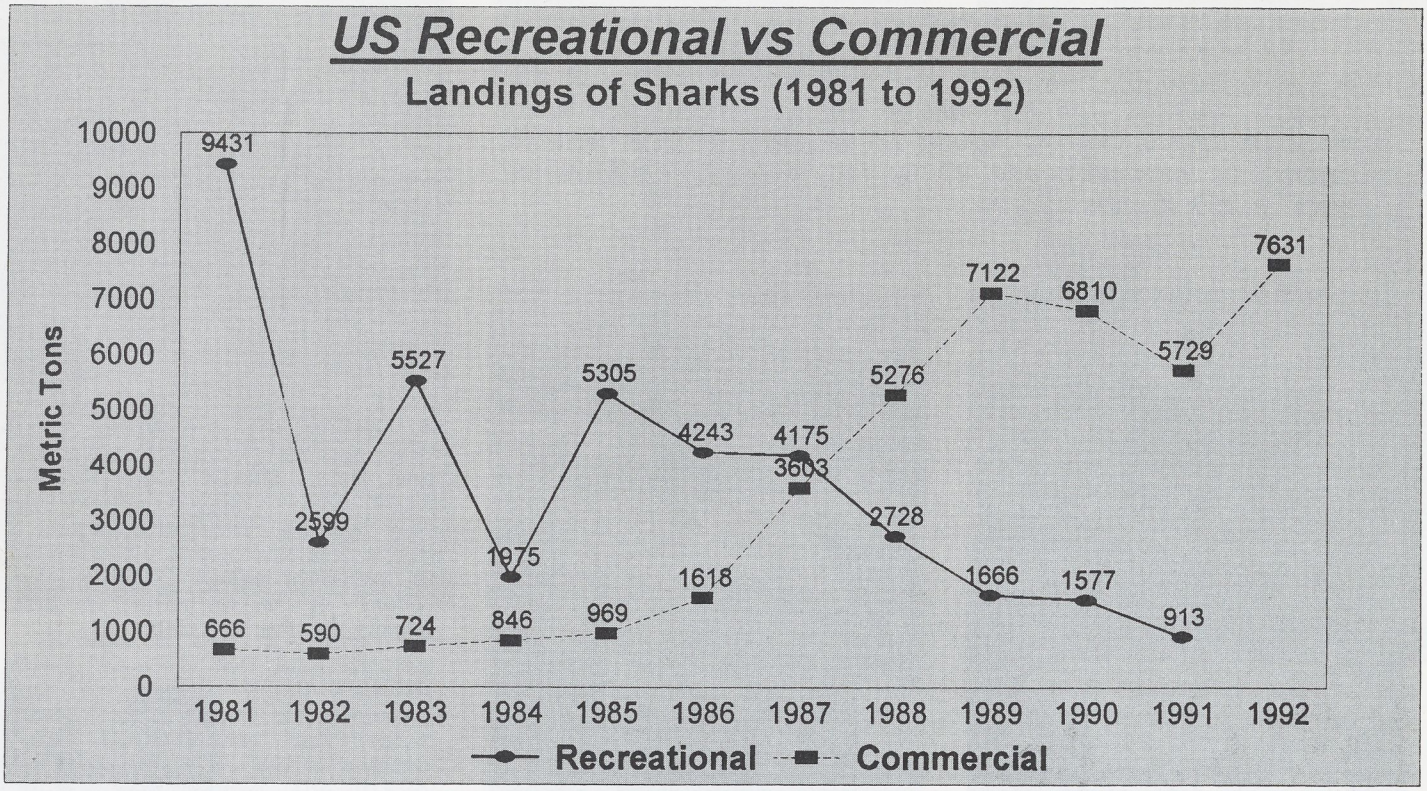


10. This 18 lb 8 oz muskellunge captured the 16-lb tippet record for Rick Kustich in June on the Niagara River, New York and was released after Kustich transported it to a nearby island for weighing on a hand held scale.

11. John Hardin filled a vacant record with his 2 lb brown trout caught on 6-lb line casting on Lake Taneycomo, Branson, Missouri in June, using a single hook and a crab minnow as bait. He released the fish after weighing, measuring and photographing it.



12. Fly fishing from the Alameda Rockwall in the San Francisco Bay, California in June Lance Anderson defeated the 16-lb tippet record with his 6 lb 13 oz California halibut using a weighted anchovy pattern fly with a stainless steel hook.



As commercial shark landings skyrocketed in the 1980's, recreational landings plummeted to about 10% of their 1981 levels. In the first part of the 1980's there was no management. Later, high risk management decisions led to commercial overfishing and recreational landings hit new lows six years in a row.

SHARKS

Continued from page 1

United States than is the commercial fishery. Furthermore, the recreational fishery is completely sustainable and does not require expensive management measures as does the commercial fishery.

"Equally hard to understand is NMFS's preoccupation with the well being of commercial shark fishermen who are taking a public resource on public waters for their personal profit with very little compensation to the U.S. citizens who own this resource. The concern of NMFS about mitigating shortened fishing seasons, declining commercial opportunities and negative economic impacts on shark fishermen seems to distract the management efforts of NMFS from the job at hand which is conserving and rebuilding the depleted fishery. The fact that the fishery is overcapitalized, which leads to general economic inefficiency and economic losses to the participants, has been brought about by commercial shark fishermen's lack of self restraint and should not be cause for the federal government to get involved in a complicated and expensive management regime with appeals boards and hearing officers. None of this would be necessary if the fishery was managed in accordance with its historic use as a recreational resource instead of trying to sustain an unsustainable commercial fishery. In fact, the cost of overseeing such a complicated management regime may well exceed the value of the commercial fishery. We recommend an economic study be conducted on the cost of managing this fishery versus the value of the Atlantic commercial shark industry.

"It should not be the government's business to regulate how many fast food restaurants operate in the U.S. nor how many attorneys are in the legal profession. For the same reasons the government should not concern itself with how many commercial fishermen are in the fishery. If you prohibit commercial fishermen from entering the shark fishery, you simply shift their efforts to another fishery creating or aggravating another problem. Commercial fishermen are business proprietors and should make decisions based on the economics of their profession. If they make poor decisions, their business suffers just as it does in any other industry.

"The recreational shark fishing industry in the Atlantic and Gulf of Mexico generates over 1.3 million recreational fishing trips per year. The value of this fishery is probably well over $200 million annually. The highest value we have seen reported for the commercial shark fishery is about $8 million in their best year. Would it not make a lot more sense for NMFS to be concerned with conserving and rebuilding the recreational industry which has far greater economic benefits to the country? We would like to see NMFS do a feasibility study on advantages versus disadvantages of phasing out large-scale commercial shark fishing in U.S. waters and managing the fishery as a sustainable recreational resource. As recently as 1979, recreational anglers accounted for 97% of all shark landings. According to the option paper there are less than 150 commercial vessels who land significant amounts of sharks and the majority of those vessels only target sharks during part of the year. On the other hand, there are thousands of recreational vessels targeting sharks who have been adversely impacted by the declining numbers of sharks. A decline having been caused by commercial overfishing and high risk fishery management decisions.

"We would like to see the recreational vs. commercial feasibility study conducted before any action is taken regarding a permit moratorium. A feasibility study may very well point out that the optimum use of sharks is as a recreational resource.

"A shark permit moratorium could be a counterproductive management measure. It would probably lead to alloca-

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AUCTION

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the Florida Keys to fly fishing in Maine at King & Bartlett Fish & Game Camp, as well as both fresh and salt water fishing in California.

Foreign destinations include Guri Lodge in Venezuela; Rio Colorado Lodge, El Ocotal Beach Resort, Corobici Hotel & Spa and Aurola Flamingo Beach Hotel in Costa Rica; Rusinga Island Club in Kenya; a week's first-class accommodations at Paradise International Hotel in the Kingdom of Tonga; and the spectacular Tropic Star Lodge in Panama.

Trips to Mexico will include accommodations at Hotel Buena Vista Beach Resort, Plaza Las Glorias Cabo San Lucas, Marina El Cid Hotel & Yacht Club in Mazatlan, sailfishing courtesy of Cozumel Angler's Fleet, and striped marlin fishing from IGFA Trustee Don Tyson's boat and accommodations at his compound in Cabo San Lucas.

Once again there will be fishing trips aboard the famous *El Zorro* in the Caribbean as well as with *The Madam* and *The Hooker* at a destination to be arranged. There are several trips to breathtaking Alaska and a week's fishing vacation at the beautiful Bom Bom Island Resort on the island of Principe. For the adventurer there's a fishing and camping expedition in New Zealand with Southern Lakes Fishing Tours.

You can pamper yourself in the mountains at the beautiful Brenner's Park Hotel & Spa in Baden-Baden, Germany or relax in the sun at the Sapphire Beach Resort & Marina in St. Thomas or in the Cayman Islands at Indies Suites.

Featured among the silent auction items will be custom rods, charter trips, weekend getaways, historic photographs plus original and limited edition gamefish prints by famous artists, and as usual, a dazzling array of jewelry.

Also available to the highest bidder will be hand-crafted driftwood lamps, lures and flies of all descriptions, angling books, video tapes, boating equipment, electronic gear, tackle boxes full of goodies, and tackle for big game, light and fly rod fishing.

Tournament anglers will be happy with registration packages for the Hawaiian International Billfish Tournament, Club Nautico de San Juan's International Billfish Tournament, American Yacht Harbor Billfish Tournament in St. Thomas, Treasure Cay Billfish Tournament, plus Ft. Lauderdale Billfish Tournament, Pompano Beach Fishing Rodeo and Yamaha Miami Billfish Tournament.

The banquet at The Breakers is held during peak season in Florida and is always a sellout, so make your reservations early. The first 600 ticket buyers will receive a limited edition gamefish print by Randall McKissick plus other gifts.

If you plan to stay at The Breakers, mention that you're attending the Auction when you make your reservations as IGFA has set aside a block of rooms. The Breakers' telephone number is (407) 655-6611 or in the U.S. (800) 833-3141.

Those who find it impossible to attend can participate in the bidding through our popular Write-In Bidding List that will identify several hundred auction items. The "WIBL" is distributed prior to the auction to U.S. members, IGFA Representatives and others requesting a copy.

A Member's Viewpoint

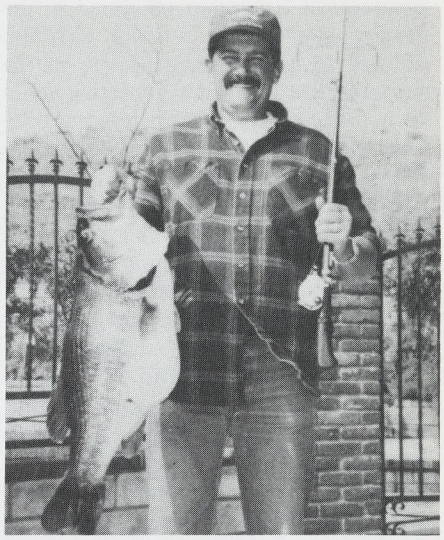
What IGFA Means to Me

By BOB CRUPI

As soon as I could drive myself to the lakes at age 16, I started fishing for bass. My love for bass fishing has only grown stronger over the years. I think sometimes it was fate since my birthday June 2 is the same day as the famed all-tackle world record bass catch of 22 lb 4 oz. I'm still chasing the heaviest bass record and have come as close as 22 pounds.

I first learned about IGFA when one of the staff contacted me after seeing newspaper stories about my trophy bass catches. That was in 1990. I have been angling for all-tackle and line class records ever since. I'm fortunate to fish the No. 1 trophy bass lake in America (Castaic Lake) that contains deep water and limited structure interference. That allows us to target bigger bass every trip.

IGFA has confirmed 72 of my 10 lb-plus bass, but I've actually caught a total of 132 including those that records were incomplete on. That's because winter time catch-and-release fishing requires the fastest possible return to the water or the bass won't survive. This makes picture taking, documentation, etc., difficult, especially when fishing alone. However, it's worth missing a few applications to know I've released a healthy fish back to the lake.



Bob Crupi and his 22 lb largemouth.

These days I run a guide service, and the IGFA 10 lb bass club is an ideal way for clients to relive their catches. IGFA is so well organized with its record-keeping program plus the emphasis on ethical angling and conservation that it makes me proud to be a member. I can see every day how IGFA is making a difference in the fishing world.

That's why IGFA is so important to me. Keep up the good work.

TICKET REQUEST FOR INTERNATIONAL AUCTION

Name_____

Address_____

City, State, Country_____Zip_____

Enclosed is $_____ for _____ticket(s) at $125 each for members or $_____for_____ non-member tickets at $150 each (one-year membership included) to IGFA's 12th annual International Auction and Banquet to be held January 12, 1996 at The Breakers, Palm Beach, Florida. Reservations may be made for tables of 12.

Make checks payable to the International Game Fish Association. Mail to: IGFA, 1301 E. Atlantic Blvd., Pompano Beach, Florida 33060. For more information, please call (954) 941-3474 or fax (954) 941-5868.

SHARKS

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tions of the shark resource to the few commercial fishermen permitted in the fishery who would, no doubt, then feel entitled to a continuing portion of the resource. It is doubtful whether this would be in the best interest of the resource or to U.S. citizens. Sharks have survived for 400 million years without serious threat of depletion, but in the last 15 years lack of management or poor management has been responsible for a serious decline of this resource in U.S. waters. This decline needs to be stopped immediately. Halfway management measures have proved to be ineffective in the past and will continue to be ineffective in the future. They simply prolong the rebuilding process.

"If all commercial shark operations stopped immediately, due to the biology of sharks it may take 20 to 30 years to rebuild shark resources to the levels of the early 1980's, prior to commencement of heavy commercial operations. This means that middle age citizens may never experience a healthy shark fishery in their lifetime, even under the best of conditions.

"The notice of proposed rules for the shark and swordfish moratorium proposals was published on July 27, 1995 with a deadline for comments of August 28, 1995. This extremely short comment period discriminates against recreational fishing interests. Most commercial interests are well represented by organizations who are equipped to quickly respond to this type of proposal. On the other hand, the vast majority of marine recreational anglers are not members of any organization and rely on newspapers and magazines to get their information. It is probable that well over 90% of the marine anglers will never have heard of this proposed action, leaving commercial fishermen and their representative organizations as the ones who will respond quickly to these proposals and falsely appear to be the majority opinion. This is unfair to the 17 million recreational anglers who have a stake in the management of sharks in the Atlantic. The comment period needs to be extended, especially in the summer months when many are on vacation or traveling. Both the system and the mind set of fishery managers seems to be stacked in favor of the commercial industry."

Copies of the proposal to limit commercial shark permits can be obtained from NMFS at the address listed below. If you are happy with the current status of shark resources and management, do nothing. If you would like to comment on shark management, send your letters to Richard Stone, Chief, Highly Migratory Species Management Division (F/CM), National Marine Fisheries Service, 1315 East/West Highway, Silver Spring, Maryland 20910, Fax (301) 713-0596.

Warning: In 1994 the United States requested that the subject of shark data collection, and management specifically, be addressed by the International Commission for the Conservation of Atlantic Tunas (ICCAT) at their 1995 meeting. If you don't like the way the sharks are being managed now, you **really** won't like shark management by ICCAT! — MIKE LEECH.

Why Isn't Science Saving Salmon?

In recent years, fisheries biologists have become aware that their work is frequently ignored, distorted, or worse, written off as "bad science" with the result being decline or collapse of a thoroughly studied fishery. Nowhere is this phenomena so apparent as in the Columbia River basin, where, in spite of millions of dollars and hundreds of dedicated fishery scientists, the Snake River salmon stocks are rapidly disappearing. It has been said that the Columbia basin efforts are amounting to the most thorough documentation of the extinction of a species in history.

This debate on Snake River salmon recovery has focused on the "lack of adequate science" to support proposed options for changes in the operation of the lower Snake River dams.

The most vocal criticism comes from elected federal and state officials and appointed agency administrators in the Columbia basin. Meanwhile, professional fisheries scientists, as individuals, have been largely absent from discussions because their work is funnelled through the industries, tribes, and agencies they work for. Furthermore, the recent change in state and local politics has silenced the government agencies charged with protecting and managing Snake River salmon. The result is an ideal forum for nonprofessionals to attack the science behind the salmon recovery proposals without any accountability to responsible fisheries science.

All parties acknowledge the rapid decline of Idaho's salmon runs, and most agree that if the current trend continues, extinction is imminent. The vast majority of salmon mortality (in excess of historical levels) is attributed to smolt mortality during their downstream migration through the eight hydropower reservoirs and dams on the lower Snake and Columbia rivers in Washington.

Other factors, including overharvest and loss of spawning and rearing habitat, have clearly affected salmon populations. However, both losses are small compared to smolt migration mortalities of 70%-95%. Without improving migration survival, preservation of Idaho's salmon populations is not possible regardless of improvements made in other areas.

So why doesn't a consensus of scientists carry the weight necessary to prompt a change in strategy? This is where proponents of status quo have found the "bad science" accusations so effective. The salmon issue is not the only instance where special interest groups are using "bad science", or the more appeasing "inadequate scientific information," arguments to delay or derail actions on critical public policy issues.

The best known is the tobacco industry. In a situation that bears a striking resemblance to the salmon recovery issue, the tobacco industry is sponsoring symposia on tobacco and public health. The "scientists" represented at the symposia are primarily supported by the tobacco industry, and not surprisingly, their works differ from objective medical research. The results of these symposia are then used to counter the primary medical literature most health officials agree conclusively demonstrates the negative impacts of second-hand smoke, thereby delaying decisions affecting the industry. Likewise, the lack of conclusive evidence has been cited as support for the delayed implementation of an effective salmon recovery plan.

The majority of fishery scientists in Idaho belong to and attend annual meetings of the Idaho Chapter of the American Fisheries Society (ICAFS). Members are biologists from state and federal agencies, tribes, universities, and industries who believe the broad range of expertise and affiliations creates a well-rounded, largely unbiased fisheries think tank. To be sure, individuals within the ranks may be characterized as conservation*ists*, environmental*ists*, industrial*ists*, as well as a host of other "ists" from either side of the spectrum. As an association, however, the ICAFS endeavors to be definable purely as scientists and to provide an un-

Recent Additions to IGFA Clubs

ANGLER	SPECIES	WEIGHT	DATE	PLACE OF CATCH
5 to 1 CLUB				
Hector Garcia Cabrera	Blue Marlin (ATL)	478 lb 6 oz	6-21-95	Gran Canaria, Spain
Torben Frederiksen	Shortnose Spearfish	42 lb 8 oz	1-19-95	Keahole Point, Kona, Hawaii
Andrew G. Minors	Blue Marlin (ATL)	307 lb	1-28-95	Grenada, West Indies
Harry C. Schultz Jr.	Cobia	49 lb	5-21-95	Galveston, Texas
Craig Whitehead, M.D.	Roosterfish	38 lb	5-24-95	Playa Zancudo, Costa Rica
10 TO 1 CLUB				
Danie Nel	Blue Marlin, (ATL)	498 lb 3 oz	4-2-95	Luanda, Angola
Scott S. Nichols	Smallmouth Buffalo	17 lb 8 oz	3-12-95	Trinity River, Hubbard, Texas
Iain Nicolson	Blue Marlin (ATL)	500 lb 7 oz	4-2-95	Luanda, Angola
15 TO 1 CLUB				
Mike Broome	Mako Shark	412 lb 4 oz	2-7-95	Bay of Islands, New Zealand
Catherine Stone	Blue Marlin (PAC)	485 lb	5-4-95	Three Kings Islands, N. Zealand
20 TO 1 CLUB				
Jerry Dunaway	Striped Marlin	164 lb	6-18-95	Cocos Island, Costa Rica
Peter T. Toohey	Blue Shark	335 lb 1 oz	4-16-95	Sydney, Australia
Raleigh Werking	Chinook Salmon	44 lb 12 oz	7-1-95	Kenai River, Alaska
1,000 POUND CLUB				
George Flourentzou	White Shark	1,272 lb	4-26-95	Cape Jervis, Australia
10 POUND BASS CLUB				
Bill Warman	Largemouth Bass	11 lb 3 oz	6-8-95	Apache Junction, Arizona

biased consensus.

The ICAFS believes sufficient work has been conducted to recommend immediate substantive changes in existing hydropower operations in the lower Snake and Columbia rivers. Research supports that improved salmon survival is dependent on increasing river velocity and spilling water over the dams.

Do we know that the recovery plan will be effective? Unfortunately, the answer is no. Science does not work on absolutes and guarantees. Instead, we speak in terms of the probability of an outcome, with 95% certainty being the generally accepted level at which we can comfortably draw conclusions. We can confidently state that continuing the status quo operation of the lower Snake River hydropower system will cause extinction of Idaho's salmon.

Opponents of salmon recovery efforts clearly stand to gain from the delay of action, and ultimately, the extinction of Idaho's salmon. The claims of our elected representatives and their accompanying threats of economic doom may generate indecision and doubt. As the ICAFS, we are telling the public that the science is adequate. You, the public, own these salmon, and only you have the influence to effectively demand recovery of your fish.

Delay, misinformation, and claims of insufficient data are now being leveled at efforts designed to prevent the further decline of several other species, perhaps the most significant being the bull trout. The challenge to restore bull trout populations throughout the Northwest will be a highly controversial and familiar battle. Until you are allowed to differentiate true concerns regarding the scientific merit of fish recovery from the stall tactics of those with economic and political agendas, no amount of science in the world will save the salmon, bull trout, cutthroat trout, steelhead, sturgeon, etc. — *Reprinted from 'The Fisheries', official publication of The American Fisheries Society.*

IGFA Telephone, Fax Area Code Changes to '954'

Due to South Florida's population growth and the rapidly increasing use of communication equipment requiring telephone numbers, the area code for Broward County, and IGFA headquarters, has been changed from "305" to "954" as of September 11.

That means IGFA's phone number now is (954) 941-3474 and the fax number is (954) 941-5868.

A grace period runs through June 1 during which time callers have the option of using either the "305" or "954" area codes. After June 1, 1996 only calls directed to (954) 941-3474 or faxes to (954) 941-5868 will reach headquarters.

IGFA Seeks Person For New Position In Development Dept.

IGFA is seeking an experienced professional to assist in the development and eventual management of the public exhibit section of the IGFA World Center.

The individual should have proven experience in facility operations including retail, hospitality, and service orientation. Some level of development experience to assist in the development of design issues as well as negotiating effectively with suppliers and builders is helpful.

The individual we seek will have a high level of creativity and imagination to envision the project in real terms, and should be able to understand and support the need to develop funding for the project.

Experience in retail and marketing will also be helpful, since the IGFA World Center will include facilities available for lease for special events by the public.

IGFA plans to bring this individual on board during the development stage of the IGFA World Center, and eventually to manage the public exhibits portion of the facility or train his/her replacement for ongoing management responsibilities.

Resumes may be faxed or mailed to IGFA Headquarters.

New Participants In Discount Program

The following are new participants in IGFA's discount program. Proof of current IGFA membership is required by the companies and organizations offering discounts. IGFA members should make contact directly with the participants to determine restrictions, terms and other details.

UNITED STATES

FLORIDA

Hawk's Cay Resort and Marina, Attn: Cheryl Roll, (Florida Keys/Marathon), Tropical West Indies-style full service resort on its own 60-acre private island with marina, Dolphin Habitat on site, tennis courts, swimming pool, and nearby golf course, Discount not valid during holidays, (305) 743-7000, Fax (305) 289-0651

T & S Tackle, Attn: George A. Copeland, (Ft. Lauderdale), Full service tackle and bait shop to meet all your needs, (305) 776-1055, Fax (305) 776-1590

SOUTH CAROLINA

Curlew Charters, Attn: Capt. John Cox, (Charleston), Fly and light tackle shallow water fishing using a 16-ft. Hewes Tournament skiff, two angler limit, all fishing is catch and release, specializing in redfish, crevalle jack, king & Spanish mackerel, bluefish & tarpon, (803) 884-1371, Fax (803) 744-2410

NEW YORK

"Fly A-Salt" Saltwater Fly Fishing Charters, Attn: Capt. Rob Robl, (Long Island/Smithtown Bay), Fishing the diverse waters of Smithtown Bay, the Nissequoge River and Stony Brook Harbor to rocky shorelines specializing in striped bass, bluefish and bonito fishing, Special Montauk trips also available, (516) 667-8290

NORTH CAROLINA

Daddy Rabbit's, Attn: Sam Everhart, (High Point), High Point's finest store for tackle, bait and more. Discount offered on all merchandise, excluding sale items and rod & reel repair, (910) 886-5118, Fax (910) 886-8004

GRAND SLAM CLUBS

Continued from page 1

identifying the club with individual chevrons featuring each species of the slam.

• Recognition in the special clubs section of IGFA's *World Record Game Fishes* book.

To participate, anglers must obtain a Grand Slam Club application form from IGFA, and there is a $50 (U. S.) registration fee. For more information contact IGFA at 1301 East Atlantic Boulevard, Pompano Beach, Florida 33060, or call (954) 941-3474. Fax (954) 941-5868.

SATELLITE TAGGING

Continued from page 5

the *Mako Magic* and waited patiently for their arrival. In the meantime the fish had pulled out some line again and Al had to take it all in. The fish was tagged by Dr. Block and was estimated to be 200 lb. Al and his team made a generous donation of funds for the tag directly to PORF.

Three satellite tags remain to be deployed. The fifth tag is currently aboard the *Ihu Nui* and Captain Rice hopes to get it on a 250 lb or greater marlin sometime in the next few weeks. This tag is sponsored by the Challenger's Billfish Club and has George Parker's name on it. The Kona Surf has sponsored the sixth tag which was scheduled to be deployed in September. PORF is seeking corporate sponsorship for tags as well as other costs associated with the project. The project is expected to continue through 1996. Corporate sponsorship information is available from PORF offices in Kailua-Kona.

In summary, while there was no satellite hits off the three marlin through mid-September, this is not entirely unexpected. The unofficial motto of the project is: "No News is Good News."

The silence only suggests that the fish are swimming away from the tagging location. When the blue marlin are migrating it is presumed based on the acoustic tracks, they swim at depths of 300 feet and cruise at speeds of 1-3 knots. It is not until their next location which is most likely over 1,000 miles away from the islands that the scientists expect to hear again from the tags.

TOURNAMENT NEWS

Continued from page 7

Mark Davis Makes History on Bass Tour

Arkansas pro Mark Davis became the first pro to capture the B.A.S.S. Angler-of-the-Year title and BASS Master Classic crown in the same season when he won the Classic event August 3-5 on High Rock Lake near Greensboro, North Carolina. His three-day total of 47 lb 14 oz was enough to edge Mark Hardin of Georgia by 1 lb 14 oz.

"I'm obviously elated, but I'm speechless," Davis said after accepting the $50,000 Classic prize. "To win both the Classic and Angler-of-the-Year title in the same year is unbelievable. Somebody said coming into this tournament that I was on a roll. I really haven't been. I've just had a good consistent year all year long."

On the final day of the Classic, fans and organizers paused to pay tribute to the 1994 Classic champion, Bryan Kerchal, who was killed last December in a plane crash.

Costa Rica Billfish Update

A decree to protect sailfish from commercial exploitation in Costa Rica, reported in the May/June issue of *The International Angler*, has been suspended by President Jose Maria Figueres Olsen. IGFA representative Alessandro Poma-Murialdo reported on August 18 that the president bowed to pressure from commercial fishermen in rescinding the decree.

NEW WORLD RECORDS, *continued from page 4*

FLY ROD

SPECIES	TIPPET CLASS	WEIGHT	PLACE	DATE	ANGLER
Trout, rainbow	Tippet 3 kg (6 lb)	6.57 kg 14 lb 4 oz	Frying Pan River Colorado, USA	May 11, 1995	James C. Jeffery, MD
Tuna, yellowfin	Tippet 1 kg (2 lb)	1.74 kg 3 lb 13 oz	Cross Seamount Hawaii, USA	April 6, 1995	Kevin S. Nakamaru
Tuna, yellowfin	Tippet 3 kg (6 lb)	3.76 kg 8 lb 4 oz	Thetis Bank Baja California, Mexico	Nov. 27, 1994	Walt Jennings
Whitefish, lake	Tippet 3 kg (6 lb)	.56 kg 1 lb 3 oz	St. Mary's River Sault Ste Marie, Michigan, USA	June 5, 1995	Joe S. Krzykwa
Whitefish, lake	Tippet 8 kg (16 lb)	1.01 kg 2 lb 3 oz	St. Mary's River Sault Ste Marie, Michigan, USA	June 18, 1995	Joe S. Krzykwa
Whitefish, lake	Tippet 10 kg (20 lb)	.86 kg 1 lb 14 oz	St. Mary's River, Sault Ste Marie, Michigan, USA	June 9, 1995	Joe S. Krzykwa

* Records marked with asterisk have been defeated M-Men's records W-Women's records

This calendar is a service to members and lists forthcoming tournaments as they have been reported to IGFA. Sponsors of international, national or large regional fishing tournaments wishing to be listed should advise IGFA of the name of the tournaments, date, location, and the address where anglers can obtain more information. IGFA is not responsible for erroneous dates, cancellations, changes, etc., and anglers should confirm events with tournament officials. Publication of tournament names and dates does not indicate endorsement or involvement by IGFA.

Oct. 6-8, FLORIDA: *The Mariner Outboards' Baybone Tournament (Redbone Celebrity Series at Key Largo).* Contact Gary Ellis, PO Box 273, Islamorada, FL 33036. Phone (305) 664-2002 or (800) 999-7332 or Fax (305) 664-9036.

Oct. 6-8, CALIFORNIA: *Linen One Tournament (Catalina).* Contact Gary Graham; phone (619) 225-1606, fax (619) 223-0221.

Oct. 7-8, FLORIDA: *Coca-Cola/Charlie Rice Memorial Sportfishing Tournament (St. Petersburg).* Contact Larry Hoffman at (813) 430-3474.

Oct. 7-14, La Guaira,VENEZUELA: *55th Annual Club Nautico LaParguera International Light Tackle Tournament (Macuto Sheridan).* Contact Reinaldo Perdomo, International Light Tackle Tournament Association Inc., PO Box 1225, Lajas, PR 00667. Phone (809) 899-5590.

Oct. 7-9, RHODE ISLAND: *7th Annual Snug Harbor Fall Bass & Bluefish Boogie.* Contact Skip Fleet, Tournament Enterprises, 410 Gooseberry Road, Wakefield, RI 02879. Phone (401) 783-7766.

Oct. 7-14, Apia, WESTERN SAMOA: *International Billfish Tournament.* Contact N.P.P. Meredith, PO Box 4700, W. Samoa. Phone (685) 22721 fax (685) 20087.

Oct. 8-10, BRITISH VIRGIN ISLANDS: *Bitter End Columbus Day Tournament.* Contact Carol Bareuther, Box 6103, St. Thomas, USVI 00804.

Oct. 9-13, FLORIDA: *Mariner Outboards' Bonefish World Championship.* Contact Fred Troxel, PO Box 180, Big Pine Key, FL 33043. Phone (305) 872-9621.

Oct. 10-14, JAMAICA: *Port Antonio International Marlin Tournament.* Contact Sir Henry Morgan Angling Association, Box 192, Kingston 11, Jamaica.

Oct. 12-15, FLORIDA: *10th Annual Palm Beach Dolphin/Wahoo/Billfish "Fall" Tournament (during the mullet run).* Contact Sailfish Marina, 98 Lake Drive, Palm Beach Shores, FL 33404. Phone (407) 844-1724.

Oct. 12-15, FLORIDA: *2nd Annual Bill Currie Jr. Fall Ladies Fishing Classic.* Contact Ms. Kandy Nance, PO Box 13045, St. Petersburg, FL 33733. Phone (813) 344-5490.

Oct. 13-15, St. Croix, US VIRGIN ISLANDS: *The Golden Hook Challenge.* Contact Doug MacKay (809) 778-5738.

Oct. 13-16, St. Croix, US VIRGIN ISLANDS: *St. Croix Marlin Tournament.* Contact Carol Bareuther, Box 6103, St. Thomas, USVI 00804.

Oct. 15-21, Lizard Island, Qld., AUSTRALIA: *Qantas 9th Lizard Island Black Marlin Classic.* Contact Alan Turnbull, Lizard Island Game Fish Club, Box 654, Runaway Bay, Qld. 4216 Australia. Phone/fax (61) 7-55374105.

Oct. 19-21, FLORIDA: *Hog's Breath Key West Marlin Tournament.* Contact John Start at (305) 745-6245.

Oct. 19-22, Le Marin, MARTINIQUE: *5th Annual International Sportfishing Tournament.* Contact Big Game Fishing Assn. Martinique, c/o Club Nautique, Bd Allègre, 97290 Le Marin FWI. Jean François Fedronic - phone (596) 748573 / fax (596) 747430; or Glenn Jean-Joseph - phone (596) 714639 / fax (596) 63 7016.

Oct. 21-23, Cabo San Lucas, MEXICO: *5th Annual Cabo San Lucas Gold Cup Tournament.* Contact Doug Muelder, 1865 Knoll Drive, Ventura, CA 93003. Phone (805) 644-2200; fax (805) 644-2900.

Oct. 21-22, HAWAII: *Annual Wahine Jackpot Tournament.* Contact Lahaina Yacht Club, 835 Front Street, Lahaina, HI 96761. Phone (808) 661-0191.

Oct. 24-30, Cabo San Lucas, Baja CA, MEXICO: *Bisbee's Black & Blue Marlin Jackpot Tournament.* Contact Wayne Bisbee, 425 N. Newport Blvd. - Suite E, Newport Beach, CA 92663 . Phone (714) 650-8006; fax (714) 650-7822.

Oct. 26-29, ARUBA: *31st Classic International Fishing Tournament.* Contact Erick Lopez fax (297) 8-53725 or Glenn Carvalhal fax (297) 8 33231, or write to Aruba Nautical Club, PO Box 161, Orangestad, Aruba.

Oct. 27-29, HAWAII: *19th Annual Lahaina Jackpot.* Contact Lahaina Yacht Club, 835 Front Street, Lahaina, HI 96761. Phone (808) 661-0191.

Oct. 30-Nov. 4, Cairns, AUSTRALIA: *6th Annual Lexus Marlin Fishing Classic.* Contact Carol North, PO Box 5788, Carins Reef Charters Services, Cairns, Queensland 4870, Australia. Phone (61) 70-314-742 Fax (61) 70-314-610 **or** Alan Turnbull, 115 Sundance Way, Runaway, Qld., 4216 Australia. Phone/fax (61) 7-55374105.

Oct. 31-Nov. 5, GUADELOUPE, F.W.I.: *5th International Guadeloupe Open Fishing Tournament. (Rivière-Sens Marina).* Contact Vincent Bonnefons, Guadeloupe Marlin Club, Restaurant La Touna Pigeon, 97125 Bouillante, Guadeloupe F.W.I. Phone (590) 98 87 40 Fax (590) 98 79 35.

Oct. 31-Nov. 3, COSTA RICA: *Cape of Sails Marlin Tournament.* Contact Dan Arnold, Aventuras Cabo Velas, 506-654-4191.

Nov. 2-5, Freeport, BAHAMAS: *Freeport Invitational Roundup Tournament.* Contact Mr. Walter B. Kitchen, PO Box F, Freeport 42619, Bahamas. Phone (809) 373-2222.

Nov. 9-10, FLORIDA: *IWFA Bass Tournament (Roland Martin Resort in Clewiston).* Contact Joan Vernon, President, IWFA, PO Drawer 3125, Palm Beach, FL 33480 . Phone (305) 361-9258.

Nov. 3-5, FLORIDA: *World Class Angler Light Tackle Sailfish Tournament (Marathon).* Contact Dave Navarro at (305) 743-6139.

Nov. 3-5, FLORIDA: *The Mariner Outboards' Redbone Tournament (Redbone Celebrity Series at Islamorada).* Contact Gary Ellis, PO Box 273, Islamorada, FL 33036. Phone (305) 664-2002 or (800) 999-7332 or Fax (305) 664-9036.

Nov. 4-5, FLORIDA: *Suncoast Kingfish Classic (Tarpon Springs).* Contact Larry Hoffman at (813) 430-3474.

Nov. 5, FLORIDA: *North American Flatsmasters Release Tournament (at Treasure Coast).* Contact Chuck Beatty, Jr. at (407) 334-2895.

Nov. 10-13, FLORIDA: *Marathon Sailfish Classic (Marathon).* Contact Earl Cantrill at (305) 743-8105.

Nov. 10-12, FLORIDA: *Snook-A-Thon* (Key Largo). Contact Dave Cox at (305) 453-9997.

Nov. 11-12, FLORIDA: *Mercury Outboards/Dorado Boat Suncoast Kingfish Fall Classic (St. Petersburg).* Contact Larry Hoffman at (813) 430-3474.

Nov. 15-18, Bimini, BAHAMAS: *The Wahoo Tournament.* Contact Raul V. Miranda, Bimini Big Game Fishing Club, PO Box 523238, Miami, FL 33152 . Phone (800) 737-1007 or (809) 347-3391-4; Fax (809) 347-3392.

Nov. 16-20, Phuket, (Malay Peninsula) THAILAND: *Phuket International Sportfishing Classic Tournament (Billfish Release).* Contact Mr. James Scott-Dunsmore, c/o Holiday Inn Phuket, 86/11 Thaweewong Road, Phuket 83150, Thailand. Phone (66) 76-340608 Fax (66) 76-3404354 .

Nov. 17-19, Puerto Vallarta, Jal., MEXICO: *40th Anniversary International Jalisco Sailfish and Marlin Tournament.* Contact Moray Applegate, Club De Pesca De Puerto Vallarta, A.C., Morelos No. 874 Col. Centro, C.P. 48300, Apartado postal 2-385 Puerto Vallarta, Jal., Mexico. Phone/fax (52) 3-16-65.

Nov. 18-19, FLORIDA: *Lemon Bay Rotary All-Release Flats Tournament (Boca Grande).* Contact Doug Smith at (813) 475-5444.

Nov. 18-23, Cairns, AUSTRALIA: *Cairns Invitational Black Marlin Masters Tournament.* Contact Cairns Game Fishing Club Ltd., PO Box 674, Cairns 4870, Australia. Phone (070) 51-5979.

Nov. 24-29, Acapulco, Gro., MEXICO: *39th International Star Invitational Tournament.* Contact Alberto de la Fuente, Secretario del Sailfish & Tarpon Club de México, Minerva 89, Col. Crédito Constructor, 03940 México D.F., México. Phone (52 5) 662-0206 Fax (52 5) 661-3210.

Nov. 28-Dec. 2, FLORIDA: *Pelican Yacht Club Invitational Billfish Tournament (Fort Pierce).* Phone (407) 464-1731.

Nov. 30-Dec. 3, FLORIDA: *Islamorada Sailfish Tournament (Islamorada).* Contact Larry Dukehart at (305) 664-9452.

Did You Know?

- Number of record applications received for payara since it became a line class species in June 1995 — 0.
- Percent of fish stocks in northeast U.S. that are over exploited — 62%
- Percent of fish stocks in northeast U.S. that are under exploited — 14%
- Under exploited fish include such popular "game fish" as herring, skates, dogfish and lobster.
- Fuel consumed by tournament boats in 3-day mid-Atlantic (N.J.) Marlin Tournament —160,000 gallons.
- Amount of drinkable water in Lake Baikal (Russia) — 5,330 cubic miles.
- Number of species found in Lake Baikal — 1,800.
- Value of whale meat in Japan —$200 per kg ($91 per lb).
- Number of IGFA Trustees and representatives around the world — about 300.
- Number of conservation and fishery organizations they serve on — 1,000+.
- Average amount of seafood consumed by a harp seal per year — 1.4 tons.
- Amount owed by New Zealand to commercial fishermen for reducing their quotas —NZ $60 million.
- Amount owed to government by NZ commercial fishermen for exceeding their quota —NZ $20 million.
- Estimated annual amount of juvenile swordfish discarded dead by U.S. longline vessels — 497,000 lb.
- Circumference of some Japanese and Russian trawl nets — 3,000 meters (1.86 miles).
- Percent of sailfish landed dead according to U.S. longliners logbooks — 37%.
- Percent of sailfish landed dead according to U.S. observers — 61%.
- Estimated number of billfish boated in Gulf of Mexico in 1993 for 15,700 hours of trolling — 78. (44 blue marlin, 24 white marlin, 10 sailfish.)

IGFA's Services Boon To Conservation & Records

Slightly over two years ago, IGFA made available to members scale certification and line testing services. An angler's personal scale, being of a quality type, can be certified by IGFA for accuracy and used in the field to weigh a potential record catch. After a quick measurement of length and girth along with photographs of the catch, the fish can be released to fight again. The angler, meanwhile, has evidence for potential record recognition. To date, nearly 400 IGFA members have taken advantage of this service with many earning world records.

Another IGFA service is line testing. The most common reason for a record being rejected is an angler's line overtesting. Members can dispel this worry by sending a sample of line they intend to use to IGFA for testing in the same manner line submitted for line or tippet class records is tested.

Both services have a small charge of $10 U.S. per scale or line sample. In the case of scale certification an extra charge for postage is necessary. For more information contact IGFA headquarters.

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1301 E. Atlantic Blvd., Pompano Beach, FL 33060. Phone (954) 941-3474, Fax (954) 941-5868.

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High Country News

September 18, 1995 *Vol. 27 No. 17* *A Paper for People who Care about the West* *One dollar and fifty cents*

The West's fisheries spin out of control

By Ray Ring

It's gotten to the point that even car dealers sell trout fishing. Their customers tool around the Rockies in four-wheel-drives named after a famous flyrod — the Jeep Cherokee special Orvis edition. Sticker price $33,000.

All the fishing shops, from Bozeman to Taos, offer the latest gear: microporous miracle waders whose fibers somehow breathe underwater, lines spun from bullet-proof Kevlar, graphite-fiber rods based on aerospace technology, lures with hooks that are laser-sharpened.

The many ranches that put their streams up for rent, the workforce that gets paid for everything from guiding angler dudes to crafting magazine articles about the nuances, are all busy cashing in on fish.

On the demand side, more than 2 million anglers chase fish around the Rockies.

Lately the scene includes news crews also wading around.

The cameras zoom in on trout in torment: close-ups of a once-beautiful, streamlined creature invaded by parasites, looking diseased and swimming in crazy tail-biting circles.

Tie a yellow ribbon around your flyrod, it's the Whirling Disease Crisis of 1995. Just don't be fooled into thinking it's a crisis of nature. The people most alarmed and pointing fingers — they and their ancestors are really to blame. The disease should be appreciated for the way it strips away pretense.

continued on page 10

HIGH COUNTRY NEWS

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Dear friends,

On to Wyoming

As hunters in camouflage toting bows and muzzleloaders converged on western Colorado in early September, the *HCN* staff worked overtime preparing for the 25th anniversary of the paper, in Lander, Wyo. We'll have a report in the next issue on the celebration and Western conversation. Meanwhile, to readers that included rancher Jake Kittle and anti-bovine writer George Wuerthner, we send thanks for your good wishes. It is an unusual publication that receives birthday cards.

On a starting-out note, we congratulate reader Logan Hebner on his forthcoming marriage to Angela Marie Frabasilio, and note that the couple, who live near Utah's Zion National Park, are registered for gifts at Anderson's Lumber.

We have suffered some lapses, kindly pointed out by readers. Wayne Houtcopper points out that a Research Fund drawing of the West as a small town with long streets misspelled Bismarck, N.D., and Andy Robinson tells us we turned the *Arizona Daily Star* into a Tucson paper.

Although Paonia may be well known in some circles as home to *High Country News*, those who work at the paper know it as a conservative town whose main economic activity is extracting several million tons of coal a year. So we were surprised to see a woman on Main Street wearing a T-shirt that read "Earth First." Beneath those words was a Mercator projection of the earth. And beneath that was a slogan that fits the town well: "Then mine the other planets."

Visitors bearing plaques

Rick and Heather Knight came to Paonia Aug. 30 to present the staff of *High Country News* with the 1995 Distinguished Achievement Award from the Society for Conservation Biology. The award was given "For dedicated service to nature conservation."

If not for a conflict with *HCN*'s June board meeting, staff would have received the award at the society's annual meeting in June. Instead, we had to wait until Rick, a wildlife biologist at Colorado State University, and Heather, a staff member with The Nature Conservancy in Fort Collins, found an excuse to drive through Paonia. (They were on their way to a vacation in northern New Mexico.)

Cindy Wehling

High fashion for fall: Heather Abel and Warren Cornwall and camouflage

While the Knights were visiting with staff, a couple came into the office, looked around in bewilderment, and asked, "Is this the High Country Shopper?" We directed them down the street. Rick was delighted. He had read about the many calls and visits we get that are intended for the Shopper; now he'd witnessed one.

New interns

After a year of gardening with SLUG, which stands for the San Francisco League of Urban Gardeners, new intern **Heather Abel** was eager for a taste of rural living. Driving out of the San Francisco fog, she was prepared for a rural town, but 20 miles beyond Paonia she realized she'd driven right by it and had to head back.

Heather's drive east ended a year in San Francisco where she had a grant to study environmental justice. She spent time planting vegetables with kids from public housing, teaching composting in schools and editing the journal *Race, Poverty, and the Environment*. "The people I worked with and admired would not be considered environmentalists in the traditional sense," says Heather. "The teenagers never recycled their Coke cans, yet they knew where each of the toxic waste dumps was located in their neighborhood." Some of the sixth graders she taught were the children of migrant laborers who worked in the fields of central California.

Before her stint in San Francisco, Heather, who grew up in Los Angeles, studied at Swarthmore College in Pennsylvania, where she earned a degree in sociology.

New intern **Warren Cornwall**, from Boise, Idaho, is beginning to believe in karma. After a summer teaching writing to junior high school students in Washington, D.C., he now sits on the other side of the desk.

Warren sweated in classrooms without air-conditioning beside teenagers from the nonprofit Higher Achievement Program, which provides accelerated courses for talented kids from public schools. In spite of sauna-like conditions, the students caught on fast, he says. After reading George Orwell's *Animal Farm*, they staged their own classroom revolutions, complete with pamphlets, speeches and cries of "Viva la revolucion! Let the revolution begin!"

Warren's first introduction to writing for *High Country News* came five years ago, when he interned in Boise with Pat Ford, who was working as *HCN*'s Northwest regional editor. Afterward, he returned to Wesleyan University in Connecticut to complete a degree in government and philosophy.

— Betsy and Ed Marston for the staff

LETTERS

BLOCK THAT MYTH

Dear *HCN*,

Soon, we'll be deafened by the whining of corporate loggers bemoaning federal Judge Carl Muecke's recent order halting logging until the Forest Service develops an overall plan in Arizona and New Mexico to save the Mexican spotted owl (*HCN*, 9/4/95).

Why sacrifice the jobs for a little bird, they insist indignantly. First of all, the corporate loggers have mostly themselves to blame. They went on a logging binge in the 1980s, building up mill payrolls, clear-cutting vast swathes, mechanizing logging jobs, and high-grading the last of the big trees at a pace they couldn't possibly sustain. Naturally enough, they ran out of big trees and employment dropped.

But set that issue aside. Won't the judge's order devastate rural economies? Hardly. The U.S. Department of Commerce counted 309 logging jobs and about 1,000 sawmill jobs in Arizona in 1993; there are fewer now. Granted, the loss of those jobs can have an impact on a small town. But it's a drop in the bucket compared to the jobs provided by tourism, hunting, fishing, and other outdoor activities — which are all a lot more fun in an old-growth forest than on tree-farm forest. A state Department of Economic Security report released this week says the state economy will create 160,000 new jobs in the next two years.

So what's all this fuss about 1,300 jobs scattered throughout the state? We'd be better off using the millions of dollars we use to subsidize below-cost timber sales to hire those people to protect the forest.

Dian Wilson
Tempe, Arizona

RHETORIC REDEFINED

Dear *HCN*,

Confused by the rhetoric of the "Wise Use" movement? Here's a handy translation:

Like the dinosaurs, it's a species that just can't adapt. The species in question can't leap over dams, thrive on freeways, or make a living in a cow pasture.

Playground for Easterners. Any place in the Western United States used for recreation by anyone from outside the county.

They're trying to take my property. I have a scheme that will harm your property and I don't want any government regulations to stop me.

Healthy forest. A tree farm.

Dirt bike trails are needed so that women, children, the disabled, and senior citizens can enjoy the outdoors. I'm a 30-year-old man and out of shape.

Rangelands of the West are in better condition today than in my grandpa's time. Things *are* better than during the dust bowl days.

Hippies on food stamps who don't know what it means to work. Environmentalists.

Rich newcomers who don't have to work for a living. Environmentalists.

Washington bureaucrats who don't understand local conditions. The folks who work in the ranger station down the street.

People who think animals are more important than people. People who like animals besides cows and sheep.

A "working river." A river with its entire flow committed to irrigation, or alternatively, a stream that has been rendered fishless due to pollution.

Ralph Maughan
Pocatello, Idaho

Ralph Maughan lives in Pocatello, Idaho, where he works as a political scientist and volunteers for the Sierra Club.

BULLETIN BOARD

RESTORING A WATERSHED

As part of a cooperative effort to restore Idaho and Washington's polluted Spokane-Coeur d'Alene watershed, the Sierra Club has created a colorful map of the drainage. The region needs help: mining has left pollution and aquifer contamination; logging and farming have eroded soil. The group's advice includes cleaning up mine wastes, preventing further agricultural pollution, and preserving the remaining old-growth forests. Conservation groups throughout the region hope the map will draw attention to the watershed, whose heart is Lake Coeur d'Alene. For a copy of the "Go With the Flow" map, contact the Upper Columbia River Sierra Club, P.O. Box 413, Spokane, WA 99210 (509/456-3834).

Kit Miller

Carmen Rios

INSIDE THE GLITTER

Carmen Rios: ***My mother had 16 kids, 12 of us are still living, and she worked outside the house too! So we're used to working.***

Carmen Rios, 21, is a bus girl and occasional hostess in Reno, Nev., where she often puts in double shifts. You can learn about her life, and about the lives of other workers in Nevada's casino industry, at an exhibit of photos and brief interviews in Reno, Nev., called Inside the Glitter. The photographer and interviewer is Kit Miller, who presents an intimate picture of the workers who fuel the state's gambling machine. The exhibit runs until Nov. 3 at the C.I.T.Y. 2000 Gallery, Reno City Hall, 490 S. Center St., Reno, from 8 a.m.-5 p.m. Call 702/329-1324 for more information.

START WITH BELIEF

Caring for Creation is full of academic jargon, but it makes an important point: Our high-consumption, unlimited-growth society is heading toward eco-crisis. How can we persuade enough people to question their lives and care for creation? To convince someone to adopt a new belief, you have to start with something that person already believes, says writer Max Oelschlaeger. Since our society is dominated by materialism, few will be receptive to a humbler outlook. But one part of our belief system can be used: the part based on religion. It is only through the churches, the author says, that significant numbers of Americans can be persuaded to adopt the changes needed to avert "ecocatastrophe." His conclusion offers both reason for hope and a clear plan of action.

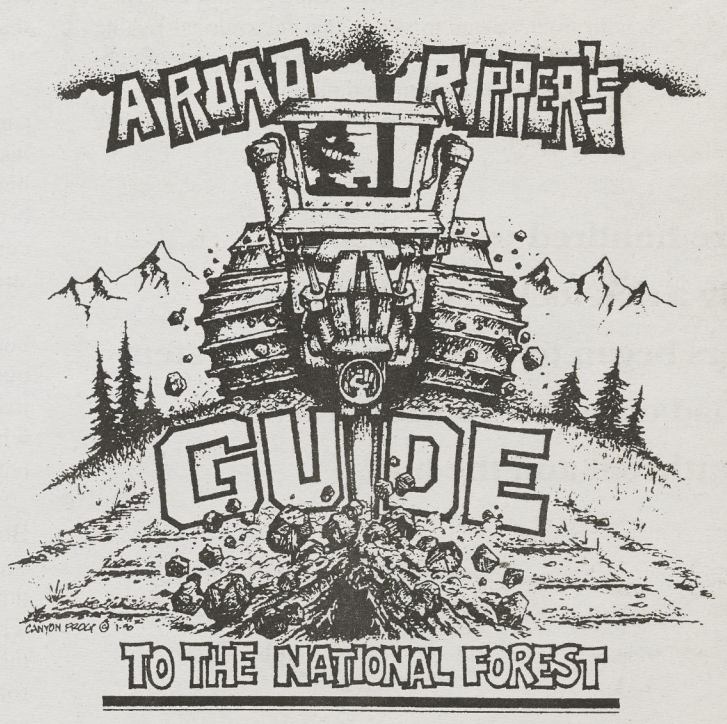
Yale University Press, P.O. Box 209040, New Haven, CT 06520-9040. 296 pages, 1994. $30. ***—John Bliese***

REPORT BLASTS LAND GIVEAWAYS

Following recent congressional proposals that would divvy up millions of acres of federal land among states and private interests, the Natural Resources Defense Council released a report charging that such measures would "impoverish the nation." NRDC outlines what it calls an assault on public lands: budget resolutions allowing the sale of national forests and wildlife refuges, bills to transfer Bureau of Land Management properties to states and eliminate selected national parks, and budget cuts that would drastically weaken the authority of federal land managers. "Congressional leaders have developed a series of strategies aimed at liquidating our federal lands under the pretext of deficit reduction and government efficiency," say NRDC authors Johanna H. Wald and Sami Yassa. Copies of the 24-page, *Selling Our Heritage: Congressional Plans for America's Public Lands*, are available for $7.50 plus $1.45 shipping and handling from NRDC Publications Department, 40 W. 20th Street, New York, NY 10011.

TOOLS FOR ROAD-RIPPERS

It's simple, they say: If you want more wilderness, get rid of forest roads. Since 1990, Keith Hammer has published a scrappy guide on how to legally close and restore forest roads. He's his own best success story. Hammer has hounded officials of Montana's Flathead National Forest to commit to closing and revegetating more than 650 miles of roads, most constructed for logging. Now, he has updated *The Road-Ripper's Guide to the National Forests*, and a coalition of environmental groups known as the Road Removal Implementation Project or ROAD-RIP, has published the step-by-step procedures for pushing federal agencies to follow their guidelines and shut down roads. As scientific research pointing to the benefits of road closures has grown, so has the 22-page guide. It's now issued in a loose-leaf binder to accommodate companion guides to national parks and off-road vehicles, as well as impending publications on Bureau of Land Management properties and national wildlife refuges. As Hammer says, "You too can become a Roads Scholar!" The guide is available for $12 from ROAD-RIP, P.O. Box 7516, Missoula, MT 59807 (406/543-9551).



SHORT TAKES

Wolves, mountain lions and martens will be among the animals discussed by scientists at the Yellowstone National Park conference, **Greater Yellowstone Predators: Ecology and Conservation in a Changing Landscape**, Sept. 24-27. For information contact the Yellowstone Association, P.O. Box 117, Yellowstone National Park, WY 82190.

• • •

Writers, editors and folklorists will lead a workshop, Oct. 8-10, titled **Writing the Lives of Southwestern Flora and Fauna,** at Brown Canyon in Arizona's Buenos Aires National Wildlife Refuge. For information call 520/822-2053 or 520/822-5198.

• • •

Sheep territory stretches from Florida to Alaska, and now there's a trade magazine for the 100,000 people in all 50 states who raise the animals. For a sample copy of *Sheep Country*, contact Janice Grauberger at the magazine's publisher, the American Sheep Industry Association, 6911 S. Yosemite St., Englewood, CO 80112-1414 (303/771-3500).

• • •

Are people best served by keeping public lands in federal hands? That and other questions will be aired at the University of Colorado School of Law conference, **Challenging Federal Ownership and Management: Public Lands and Public Benefits**, to be held **Oct. 11-13.** Registration is $425 before Oct. 3 and $475 thereafter. Contact the Natural Resources Law Center, Campus Box 401, Boulder CO 80309-0401 (303/492-1288).

• • •

Salvage logging and grizzly bears take center stage at the **10th annual Wild Rockies Rendezvous, Sept. 29 - Oct. 1**, sponsored by the Alliance for the Wild Rockies. Speakers include John Weaver, leader of the federal grizzly bear team, Hank Fischer, from Defenders of Wildlife, and Seth Diamond, Intermountain Forest Industries. Contact the Alliance for the Wild Rockies, Box 8731, Missoula, MT 59807 (406/721-5420).

Gaylon Wampler/The Denver Post

Bulging eyes and a deformed spine: The whirling disease-affected fish, bottom, is easily distinguished from a healthy fish, top

A reshaped ecosystem ...

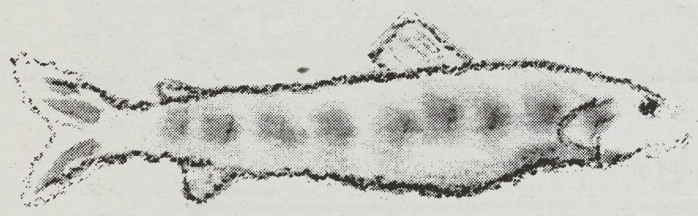
continued from page 1

Improving on nature

It might seem that people fishing the Rockies are like bears in waders. They seem to have little or no impact. They seem at one with the ecosystem — especially those who catch and release; if they don't model an outdoor ethic, who does? Even the water itself, mostly flowing clear and cool and thrashing with trout, seems to verify that recreational fishing is on the soft path — a contrast to other uses of public land such as logging and mining.

The reality is, people fishing the Rockies have had a heavy impact, which only lately includes whirling disease. For a sense of it, or of any ecosystem, you have to look behind today, at the continuum — the change over time. A mere hundred years or so ago, hardly a tick-tock in evolution, anglers began to pressure an ecosystem that had only two species of trout: the cutthroat and the bull. And these native trout occupied far less territory than trout do today.

A mere hundred years or so ago, hardly a tick-tock in evolution, anglers began to pressure an ecosystem that had only two species of trout: the cutthroat and the bull.



There is evidence that the entire North Platte River drainage, where the range slides into the plain in Colorado and Wyoming, had no trout. Throughout the region, many high mountain lakes — isolated by steep cascades and waterfalls — had no fish at all.

As early as 1862, when the owner of a Denver fish pond imported a load of sunfish all the way from Ohio by oxcart, the modern trend was established. An alliance of anglers, fish breeders, tourism businesses and state and federal agencies stocked the Rockies with fish from all over the world. The timing was linked to the transcontinental railroads, which opened the forests of the Rockies to big-time industrial logging, the valleys to that scale of agriculture, and the water to that scale of recreation.

Rumbling in from back East came aquarium cars filled with baby brook trout, brown trout and lake trout, or sometimes just the eggs packed on beds of cool moss. From California, the trains brought rainbow trout. Pioneer hatcheries processed the exotic trout and distributed them to streams, rivers and lakes.

Or people just came to the train stations with buckets in hand, gallon by gallon taking the trout out to stock their favorite water. Cans of baby-trout slurry were balanced on horses and mules, whole pack trains heading into the mountains, bound for the highest lakes.

"It was a Johnny Appleseed mentality," says Bob Behnke, a fisheries professor at Colorado State University. "They scattered fish around, thinking they'd end up with more (total) fish, but with no consideration (of the ecosystem). They thought they could do better than nature. It was a romantic thing, done without question for years and years."

William Abraham Bell, a physician and founder of the Denver and Rio Grande Railroad, bought 10,000 acres centering on a stream above Colorado Springs. He stocked the stream with hundreds of thousands of brook trout, built a resort hotel, and charged people for fishing vacations.

In another typical scenario, Green Lake, high above Georgetown, Colo., was barren, with no inflow or outflow, before banker William H. Cushman set his sights on it. Cushman had a stream diverted into the lake, guaranteeing a constant water supply, and stocked the lake with all sorts of exotic fish.

In 1879 he was charging 25 cents per hour for boat rentals, and 50 cents for each fish caught, running ads that exhorted, "Tourists should visit Green Lake, the Gem of the Mountains! Highest Place in the World to Get a Boat Ride, thousands of New Hampshire Trout! California Salmon! Rocky Mountain Trout! (actually, they were California rainbows) which will feed from your fingers."

As the hatcheries came to occupy many of the best natural springs, the exotic trout flourished. Like most invader species, they proved to be aggressive, taking over the habitat, displacing the amphibians and invertebrates in the high lakes and outcompeting the native cutthroats when given the chance (most of the natives were cutthroats; the bull trout were and are found mainly in pockets in the Northern Rockies).

Because they grew faster and were more tolerant of the crowded, semi-sterile conditions in the hatcheries, the exotics were judged a superior product. They were also judged to be superior prey, presenting more challenge to the hook.

The stocking campaign was thorough and as intense as a fever. In 1915, Colorado stocked 22 million trout, almost all exotics — a typical annual total for the state since then.

Graylings, salmon, carp, sunfish, walleye — the list of exotics put into the West's waters, year after year, seems endless. Today Colorado has 79 species of exotic fish, one-fourth of which came not merely from other regions in the United States, but from overseas (the brown trout, for instance, is native to Europe). Around the Rockies, the numbers are comparable.

Modern stocking is performed by fleets of tanker trucks, airplanes and helicopters dumping out designer trout slurry.

Most of the stocked trout disappear quickly — either reeled in or gone belly-up in a single season. They're a show passing through, attracting a crowd of anglers.

Mere remnant populations of the native cutthroats survive, typically isolated high in the headwaters. A century of momentum continues to play out, as the largest remnant population, in Yellowstone National Park, comes under attack by lake trout, which are native to the Great Lakes in the Midwest (*HCN*, 9/19/94).

Lake trout showed up in Yellowstone Lake for the first time last summer — stocked illegally by anglers. Already, in just a year, based on netting surveys, the lake trout there have increased tenfold. The Rockies' last big sanctuary for native trout, it's predicted, will soon be dominated by the exotic trout.

The horror movie

As for whirling disease, the most telling fact is that, like almost all the trout it preys upon, it is also thought to be an exotic, stocked into the region.

The parasite that is the disease, *Myxobolus cerebralis*, hails from Europe. It wasn't found in the United States until 1957, when a shipment of dead, frozen trout from Denmark was ground up and fed to a batch of living trout in a Pennsylvania hatchery. The frozen trout had the disease, and in short order so did the live trout. That was that.

The spread of the parasite has been relentless, because its microscopic spores are virtually indestructible. Cut off a piece of an infected trout, flush it down the sink through the garbage disposal, through the sewer-plant regime to an effluent pond where some of the spores float or blow to a hostile shore and dry out — and if after 30 freezing winters and blazing summers, a flood sweeps the old spores into a stream or lake, they'll be viable and ready to infect more trout.

The hatcheries and stocking campaigns moving so many trout around the U.S. have also moved the disease, but even without them, the spread would have occurred.

In the wild, the spores waft downstream. They ride around inside birds and mammals that have eaten infected fish, and re-emerge in droppings. They ride a trout from a stream into an angler's creel, over to a campsite on another stream, where they get distributed with the guts when the trout is cleaned; or it can be as simple as some spore-rich mud stuck to a pair of waders or clinging to a boat that's being towed at 60 miles an hour.

The spores put young trout into a horror movie. They burrow in and attack cartilage before it can harden into bone, especially around the brain and nerve-carrying spine, deforming the trout into little gargoyles that behave crazily: the eat-your-tail swimming that gave the disease its name. Even though older trout — say, four inches and longer — don't short-circuit or mutate, they carry the spores.

The second most-telling fact about the disease is that its whirling, tail-biting symptoms infect not merely trout but also the major players in the industry.

The initial response, as the disease spread westward, was draconian: In some places, all the fish in infected streams were poisoned and tons of their carcasses buried under six feet of dirt and lime; infected hatcheries were razed and buried and limed. "They couldn't stop it," says Behnke, the Colorado State University professor.

All the while, the ongoing campaign to stock every inch of available water with trout over and over spread the spores with utmost efficiency.

It took only a month from when the disease was first detected in the Rockies — November 1987 in a Colorado hatchery — to produce a grotesque above-water scene: A few days before Christmas, Colorado Division of Wildlife agents raided the home of another prominent Colorado State University fisheries professor.

Harold Hagen watched in shock as the agents with a warrant and holstered guns searched his Fort Collins home.

A professor for more than 30 years, Hagen had trained many of the division's biologists, including the chief of fisheries. But it was Hagen's side business — he operated hatcheries in Colorado and Montana — that the agents focused on. They confiscated Hagen's hatchery records and ultimately he had to fight criminal charges in both state and federal court. His fingerprints and mug shot were taken. He faced a $400,000 fine and four years in prison. What was he accused of? Spreading whirling disease.

"It was part of the hysteria," Hagen says now. "They wanted somebody to blame."

Wildlife detectives tried to track the Colorado spores. Hagen was suspected of importing diseased trout from an Idaho hatchery to his Montana and Colorado hatcheries. He and his trout were also suspected of spreading the disease around Colorado, as well as to some dude ranches and ponds in Wyoming, and to private fishing clubs in northern New Mexico. It took four years for Hagen to beat the rap: A judge dismissed the state case, saying there wasn't enough evidence, and the federal case was dropped.

By then, more hatcheries in Colorado, including at least eight operated by the state, were infected. After the initial discovery and a brief quarantine on the infected hatcheries, a century of momentum prevailed: The hatcheries needed a place to send their annual production of trout (the alternative was to kill and bury the hatchery trout, which might deposit spores in the soil). Anglers and the dependent businesses needed the trout in the field — over 80 percent of the fish caught in Colorado come fairly immediately from a hatchery.

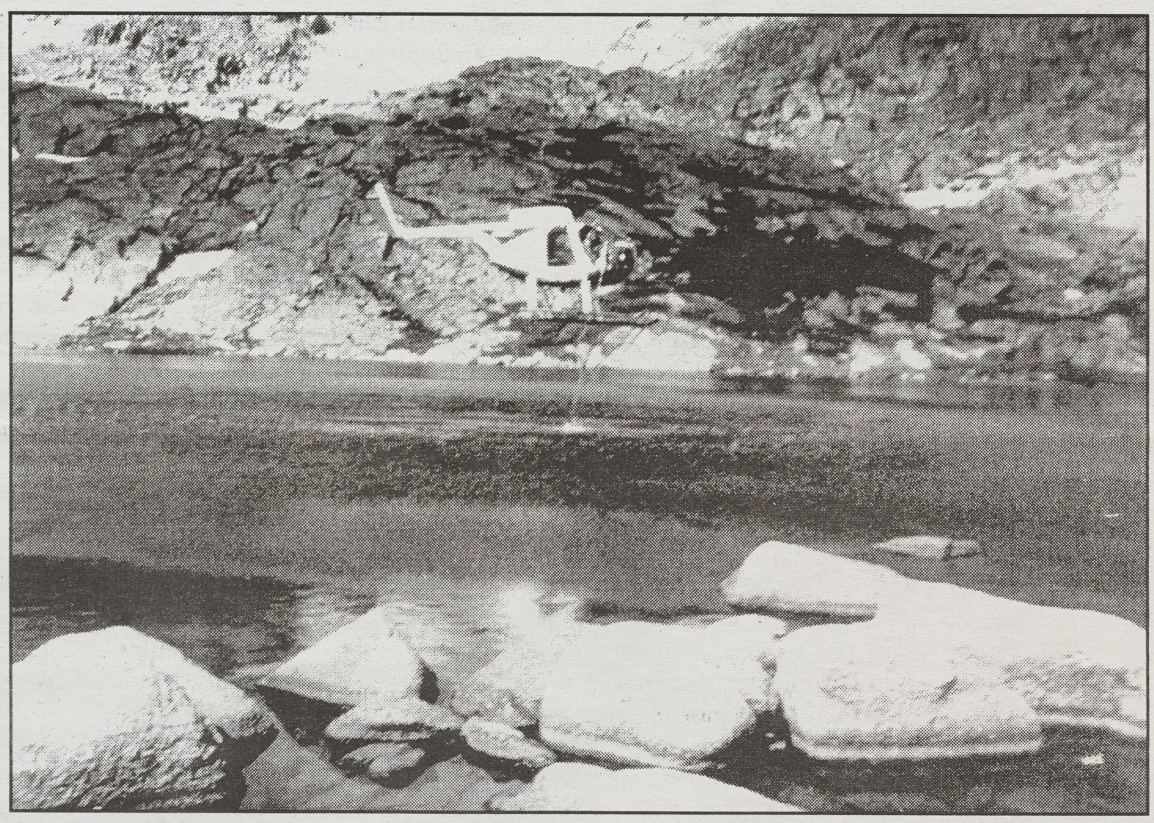
So the state decided to stock the diseased trout into the wild, in drainages that were already infected. Which had some anglers just about burning their licenses, including Trout Unlimited's Colorado chapter, formerly a reliable ally of the state's trout managers. In effect, the state added to the number of whirling disease spores in circulation. Leo Gomolchak, vice president of Trout Unlimited's Southern Rockies region, says, "It's become a question of ethics."

But the stocking of diseased trout continued. Last year, by official state action, some 7 million trout from infected hatcheries were stocked into Colorado waters.

By mistake, since the spores can be missed when hatcheries are tested, the state also stocked diseased trout into hundreds of previously unexposed ponds and streams in the Flat Tops Wilderness, Grand Mesa and elsewhere in Colorado. At the moment, the state has declared another moratorium on stocking diseased fish.

Colorado Division of Wildlife

Nature gets a helping hand — biologist squeezes a male fish to fertilize trout eggs



Colorado Division of Wildlife

A helicopter dumps fish into a high-country lake in Colorado

Big money calls the shots

Arguably, recreational fishing has become more important in the Rockies than in any other region. About one in seven adult Americans fish freshwater; in Utah, one in six; in Colorado, one in five; in Montana, Idaho and Wyoming, better than one in four. Crowding the locals, add 1 million adults who come in from other regions each year to fish the Rockies. Already leaders in the local rate of fishing, Montana and Wyoming are also the only states where, in terms of who's buying the licenses, the locals are outnumbered by outsiders.

The industry watches over its habitat, paying for projects that benefit fish. A lot of jobs and

continued on next page

Dr. Frankenstein's fish

continued from previous page

businesses have also been created by all these people having fun. Anglers in the Rockies spend $1 billion to $2 billion a year on everything from airfare to ersatz caddis flies to Trout Unlimited memberships.

The money flows beyond the private sector, into some agencies that are as responsive as their ancestors were — primarily the state fish and game departments, whose budgets depend on

Harold Hagen watched in shock as the agents searched his Fort Collins home ... What was he accused of? Spreading whirling disease.

license sales and the excise tax (10 percent) on almost every piece of fishing gear sold.

The industry image concentrates on one product: trout. Easterners don't shell out $5,000 each for a week of Montana fishing to drop worms in front of carp.

So the high-intensity alarm is understandable. When whirling disease showed up in the Fremont River drainage in Utah, in 1991, the state poisoned the entire population of trout there.

Utah poisoned the cold-water portion of the drainage again in 1992, 1993 and 1994. A hatchery owned by the brother of Gov. Mike Leavitt was quarantined. Still, the disease has spread to other drainages in Utah.

It's expected that eventually the disease will occupy every drainage in the West.

Shrill headlines spin out of Colorado: "Disaster," says *The Denver Post.* On a prime stretch of the Upper Colorado River, the disease is linked to the disappearance of the last four years of young rainbows. The Upper Colorado is turning into an old-age home for trout.

Whirling disease in Montana also made the national news. On the prime stretch of Montana's Madison River — crowned by the *Washington Post* as "an almost holy place, a shrine to the delicate sport of fly-fishing" — the disease was detected only last summer and is already killing nine out of 10 trout.

On the Madison and the Colorado, the trout hit hardest are precisely the trout that the industry has put the most energy into — rainbows.

For decades, the rainbows have been redesigned for the angler experience, their genetic material harvested worldwide, their strains crossbred too many times to count, so that the latest batch of brood stock might be improved over the previous batch by, say, a pinch of Mount Shasta rainbow plus a dash of Tasmanian rainbow.

Generation after generation of rainbows were "bred to come to the feed in the hatchery," says Dick Vincent, a biologist for the Montana Department of Fish, Wildlife & Parks. "Fish that were secretive," hiding, avoiding people — behavior suited for the wild — "died off in the hatcheries."

No turning back

As the rainbows were stocked into the neighborhoods of the native cutthroats, the species interbred on their own, producing offspring that tend to be poor survivors. "Rainbow trout are amazingly adaptable, and they amount to genetic pollution," says Colorado's state fish pathologist, Pete Walker. "You end up with (offspring that are) generic trout."

Sometimes the generic trout are sterile, or they reproduce for a few years only to die off suddenly when habitat conditions shift — a shift that pure cutthroats could have survived. Long term, the interbreeding "causes a lesser fish," says Vincent, "because the pure cutthroat was very well adapted for here."

"People have manufactured these fish Frankensteins that they have no control over," says Barrett McInerney, a Trout Unlimited attorney in California. "They still don't have any grasp of what the ultimate impact of all these hatcheries and the fish they plant will be on the environment."

It seems clear now that the redesigning of trout was aimed at maximizing hatchery output, or catchability, rather than survival in the "wild." Even that word, you can't trust anymore. The victims on the Madison are referred to as "wild" rainbows, which turns out to mean they're descendants of trout stocked into the river before the mid-1970s, when the state decided to let its rivers go their own way for a while.

By any definition, it's thought that the rainbows on the Madison got whirling disease the way many other trout have — by having it stocked into their habitat.

On the Madison, unidentified sneaky anglers get the blame, for stocking infected trout that originated in some out-of-state hatchery. (You can spot hatchery trout by their fins, worn down from rubbing on the concrete habitat.)

Despite the hard lessons about stocking fish willy-nilly, "There is still a body of people who

Colorado Division of Wildlife

Trout, ready to breed, at the Crystal River Hatchery in Colorado

stalk the Rockies ...

think they know more about fish management than we do," says Thurston Dotson, hatchery bureau chief for the state. "Bucket biology is alive and well in Montana."

In Montana alone in the past 20 years there have been 200 incidents of illegal stocking, and the trend seems to be accelerating, says Vincent.

"More people are coming to Montana, packing the fish they like. The technology is better — it's easier to transport live fish. So we have exotic fish packed in on top of exotic fish," says Vincent. "Whirling disease is not the last alien invader we're going to have. There are other parasites and viruses and exotics just waiting to be packed here. I see disasters (coming), one after the other, because man is capable of packing stuff everywhere now.

"Truthfully, it would have been better to leave the cutthroats here, and not bring in the rainbows and browns, but that decision was made for us in the 1800s," says Vincent. "Once you bring in exotics, you're hung."

Yellowstone's native cutthroats, in the river near the lake, show that it's too late to turn back. So many people come to fish that stretch of river now, seeking the ambience of clear water and native trout, that during the brief six-week season, the average cutthroat gets caught and released 10 times.

Brown trout, over the millennia, have evolved into the wiliest trout through angler pressure. According to fisheries professor Behnke, rainbow trout are three times easier to catch than brown trout. Brook trout, easier still. The easiest take is the native cutthroat.

"Cutthroats are dumb fish," continues Behnke. "You just about have to have catch-and-release (fishing), or all the cutthroats would be wiped out in a very short time."

If the waters of the Rockies were suddenly stripped of all the exotic trout and if the pure native cutthroats magically retook their traditional range, the industrial recreation centered on fishing for trout would have to convert entirely to catch-and-release. Or would the whole thing simply collapse?

Blaming pollution and goldfish

Prolonged Western drought until this spring, dams and irrigation diversions and other tinkering with watersheds, increased fishing pressure, and a witches' brew of diseases all stress the modern trout. Whirling disease lurked in the Rockies a decade or so before the trout started to succumb — likely the trout have to be stressed from other directions before they fall to the disease in sweeping numbers.

"You're probably carrying cold germs in your system right now," says the targeted hatchery owner and professor, Hagen. "But do you have a cold? Probably not, unless you're under stress."

Hagen focuses on habitat. "It's easy to point the finger at the hatcheries. But let's pay attention to how our (trout) habitats have deteriorated," he says. "Aside from the Chamber of Commerce attitude, there is hardly a stream in Colorado that is the same as it was four decades ago.

"The situation in the wild is increasingly polluted and degraded. It's caused by a thousand things — more people, more houses along streams, more sewage, more organic matter, more chemicals and agricultural pesticides going into the water. They're using a lot more pesticides now in the attack on exotic weeds," Hagen says. "But when things deteriorate slowly, it's just like aging — you get used to looking at yourself in the mirror and you don't notice it."

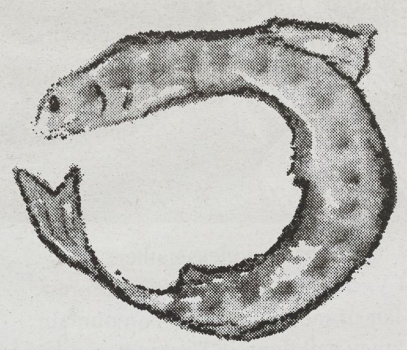
Specifically, Hagen points to the tiny tubifex worm — the other primary carrier of whirling disease spores. Pollution favors the bottom-dwelling worms, and around the West, the worms are booming. The worms are also raw material for a cousin industry: Entire colonies are harvested, crumbled up and packaged as tropical fish food, transported across state lines and sprinkled into aquariums everywhere.

Utah Department of Natural Resources

Goggle-eyed and humped: Victim of whirling disease from the Fremont River, Utah

"When things deteriorate slowly, it's just like aging — you get used to looking at yourself in the mirror and you don't notice it."

— Harold Hagen



"Nobody is studying (the aquarium industry), nobody cares," Hagen says. "Many of the worms carry spores, and anybody who has an aquarium eventually dumps them down the drain."

Rockies as the new "Hot Zone"

Karl Johnson is now the gray eminence of the Whirling Disease Foundation Inc., a spinoff of the 75,000-member Trout Unlimited.

When he isn't fly-fishing, Johnson has a day job, doing epidemiology and virology on a world scale. He headed the team at the Centers for Disease Control that first isolated and named the Ebola virus, chronicled in Richard Preston's best-selling book, *The Hot Zone*. The foundation, which hopes for $20 million in endowments, gathered experts in a conference last May in Bozeman.

Johnson pronounced about the only certainty: "Here's a situation where man is the culprit again."

Johnson tackles the paradox: While deteriorating habitat might be a factor on other rivers, the Madison is about as pristine as a modern river can be. No abnormally low flows. No change in fishing pressures. No chemical problems. It should be a trout paradise, yet it has become a trout hell. It could be, Johnson says, the *good* conditions are to blame.

Before the disease hit, the Madison River was so rich with trout — more than 3,000 per mile in the stretch in question — that the trout themselves provided great habitat for the parasite.

Ten percent of the trout in the Madison are surviving the disease so far. It could be that something in their behavior or genes makes them resistant. The evidence is somewhat contradictory, but brown trout, which evolved and coexisted in Europe with the disease, show some resistance.

Maybe all that's going on is another round of survival of the fittest. In the meantime, anglers have to pass some years or decades chasing fewer trout.

Yet Sen. Conrad Burns, R-Mont., wants to take a couple hundred thousand dollars of federal funding away from the effort to reintroduce wolves to Yellowstone National Park, and apply it to solving whirling disease.

Montana's other senator, Democrat Max Baucus, introduced the "Whirling Disease Response Act of 1995," declaring a national emergency. Baucus is frank about motives: "Fishing is big business. It is the engine that drives the economies of many communities throughout Montana."

There are places in the United States where trout and diseases have stabilized and coexist — though the cease-fire zones don't support the richness of trout that the Madison River in 1993 did. Maybe the Madison and other celebrity waters will never entirely recover to their heyday, even if there is a surge of resistant trout.

As usual, the reflex is toward management. The study of whirling disease has become a new spinoff industry. Biologists test different strains of trout, putting trout in little cages and exposing them in currents that carry the disease.

It must tweak some consciences that some studies show the most promising resistance is among the remnants of native trout, the cutthroats.

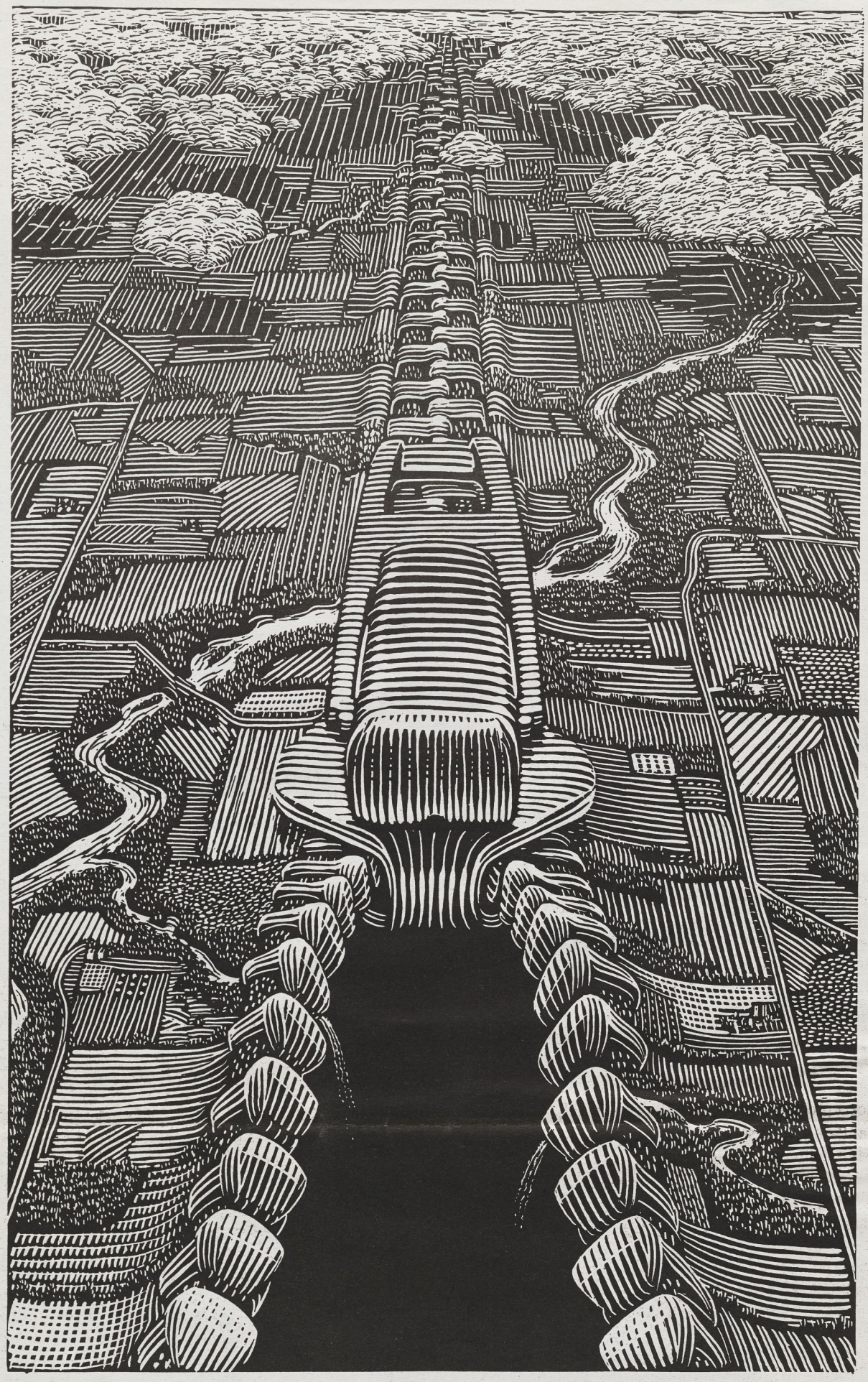
Biologists and others in the industry talk of a whole new stocking campaign, which would depend on chasing down the last of the natives, stripping their eggs and sperm, putting that raw material into the hatcheries to produce a disease-resistant designer trout.

The goal would be a trout that's about identical to what was here before we began to improve things. ■

Ray Ring, former senior editor of *High Country News*, recently moved to Bozeman, Montana.

An Easterner ponders the West's alleged wildness

Essay by **Bill McKibben**



John MacDonald

This is a mea culpa. Sorta.

A few months ago I published a long piece in *The Atlantic Monthly*. An excerpt from a forthcoming book, it argued that the forests of the Appalachian spine had recovered much further than people realize — that even the wolf and the mountain lion had begun to return. The renewed forest is not the same one that was chopped down, of course. And my argument can be twisted and misused (as it was, for instance, by Gregg Easterbrook in his *A Moment on the Earth*) to prove not that we should back off from our abuse of the land in other places, but to pretend that no matter what people do to forests they will come back.

Still, the recovery of the Eastern forest is a remarkable story — one that offers hope to areas that are only now hitting bottom ecologically. In the course of writing it, however, I dabbled in what might be called Eastern chauvinism. Not the plan to save the spotted owl, I insisted, nor the salvation of Alaska's pristine ranges, represented the "real" environmental triumph of the nation. The real victory, I argued, was the slow recovery of my Eastern hills, which represented a more "mature mythos" than the romance of the West.

I didn't think much about such passages while I was writing, but I was brought up short when I visited Brooke and Terry Tempest Williams in Salt Lake City, and was told — with stern if loving dismay — precisely how invidious such comparisons were, and how demoralizing to people waging the good fight for protected wilderness in Utah or Montana or wherever else.

I didn't argue — and I was grateful there was time left to change those sentences in the book manuscript. The last thing any author wants is to rouse anger with offhand remarks, especially when his actual prescriptions are likely to be controversial enough. (In this case, an end to consumer civilization.) But I did think long and hard about why I'd written those sentences the way I did.

Partly it was just pique, a chip-on-the-shoulder stubbornness from year upon year of hearing Westerners who assumed that the left-hand side of the continent was the natural one, while the East was a paved-over megalopolis.

Every time *Outside* magazine describes a visit to my Adirondacks, for instance, it can't resist a dig at the "hills that pass for mountains." Never mind that New York has more protected wilderness than Utah; never mind that Adirondack Park is bigger than Yellowstone, Yosemite, Grand Canyon and Glacier combined.

The calendars, published by the environmental groups, that hang on refrigerator doors always show one photo of the East — it's for October, a shower of yellow leaves.

If the Manhattanites' view of the cultural universe is accurately captured by the Steinberg drawing that shows only wasteland west of the Hudson till L.A., it can be easily reversed for the Westerner's view of the environmental cosmology: the Rockies and the Sierra, the Great Basin, the Southwest Desert — and there in the distance, Central Park.

Sadly, Easterners have gradually come to agree — there has formed a *national* idea of where real nature can be found. Bostonians tend to be better informed, and far more concerned, about the Arctic National Wildlife Refuge than about the North Woods of Maine, 10 million unpopulated acres one state to the north.

I think I hoped to help spawn a kind of Eastern consciousness of the natural world: to show my neighbors that we have great glories near us, that the woods have in many places returned, and with them the bear, the beaver. To show them that wildness gathers here: that gentle, pastoral Vermont is now 80 percent forest, and once again the lair of mountain lions. A mountain lion — catamounts, they call them in Vermont — changes the nature of the forest.

I wanted to show that our understanding of the continent is a historical accident, a view frozen in our minds at a moment when the East happened to be cut over and farmed by the first generations of European arrivals, and the West happened to be more wide open. In some ways, and in some places, that reality has since switched. (While the Adirondacks healed, the forests of the Northwest were increasingly Weyerhaeuserized.) But the picture in our minds has never really changed. Hence my clumsy attempts to exalt the East at the expense of the West.

But the more I consider it, the more I see why it's a rhetorical trap. Not because it offends, but because it continues this sense of geographical division, even adds to it, and at a time when it is damaging to more than truth. Facing the strongest attack since Teddy Roosevelt's day on the whole idea of conservation, we can afford nothing less than a united front. Wise-users have overcome all regional boundaries, and so has industry — it's Rep. Charles Taylor, whose district covers the Pisgah and Natahala national forests in western North Carolina, who pushed the legislation to double the cut in the federal groves.

In the face of such national disaster, we need to recover a national sense of landscape — the sense suggested by Woody Guthrie, who praised both redwood forests and gulf stream waters. East, West and Middle, a gorgeous and sweeping seamlessness, a vast and intricate picture. There are plenty of symbols for such an understanding — the herds of animals that once migrated east and west, or existed all across the country (why do you think they call Buffalo, Buffalo?), or have moved in recent decades into every corner of the nation. Trickster coyote showed up in Van Cortlandt Park in the Bronx this spring.

We're slow to see what's happening in the East, because we've been so schooled to think of wilderness as Western — to imagine, too, that there's some special breed of person, the rugged Westerner, an individualist shaped by his tough landscape to solitary terseness and super competency. It's no longer a useful myth — mostly it allows corporate cattle ranchers to sell themselves as sex objects. (It's hard for a coast cast as Woody Allen to argue with John Wayne.) And the image is not just destructive — it's wrong. In a nation where the satellite dish is the national flower, such distinctions are rubbish, as wrongheaded as the Eastern superiority I was trying on for size in my *Atlantic* essay.

What we need to recognize is our commonality. We may adore different places with dramatically different ecologies — the high and arid desert, or the humid lushness of the Gulf Coast, or the granite perfection of the Sierra. I will never lose my love for the hardwood forests of the Appalachians, the hemlocks over the streams, the pines on the high ridges. But we need a partnership that will let us fight for each other's places — a partnership that can activate the majority all across the land that wants to see nature recover and prosper. But like any working partnership, it must be between equals. ■

Bill McKibben, who lives east of the 100th meridian, is the author of *The End of Nature*.

...bout that right...
...re were some other...
spots on offense.

Fullback Renard Carn, who has moved to No. 1 with E.J. Watson nursing a sore knee, had a 37-yard run on the second play of the scrimmage.

And junior fullbacks Chris Myers and freshman Jaime Blake showed that they should be ready to contribute this fall.

Also, the offensive line continued its impressive progress, opening holes and keeping the pass rush at bay.

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...2 yards) and Craig Akins...
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...15 plays each, will change

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them. We've really g...
that second unit in a l...

The Rams will take ...
end off before returning ...
practices next week.

Disease

Continued from Page D1

lins, said the Watson hatchery produces many of Northern Colorado's catchable trout. He said there are only so many negative fish to go around, which will result in trout normally stocked in Fort Collins-area waters to be shipped to the Western Slope.

"This means we all need to share the negative catchables we have in the system, and that will mean a slight reduction in this area," Puttmann said.

Steve Craig, president of Colorado Trout Unlimited, criticized Olson for presenting the agency's stocking policy recommendation behind closed doors to the Colorado Wildlife Commission instead of before the public.

"If the division would have stood up and told the public it just can't meet stocking expectations this year because it needs to get the whirling disease situation under control, I think people would understand that," Craig said. "But they just won't do that. They're still soft-pedalling this."

Harold Hagen, a Colorado State University fisheries professor and owner of a local private fishery, said the criteria under which the DOW will not stock infected trout already had been tried when the disease was first discovered in 1987.

"This is more ostrich management, head-in-the-sand type," Hagen said.

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- ☑ Change oil (4 cycle)
- ☑ Check compression and self propelled
- ☑ Sharpen and balance blades
- ☑ Adjust carburetor
- ☑ Decarbon pistons and Head
- ☑ Inspect valves
- ☑ Clean mower

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...oso, who is rehabilitat-
...g a surgically repaired pitching
elbow, will report late.

"I think this sets him back," Gebhard said. "He was making some progress when he was here for the early camp. (Trainer) Dave Cilladi felt these two to three weeks would be important for him."

Center fielder Ellis Burks probably won't be ready for the April 26 season opener. Burks, whose left wrist was in a cast for five months following surgery to fuse two bones, did some light hitting for the first time since August.

Baylor was pleased with the condition and attitude of his players on the first workout.

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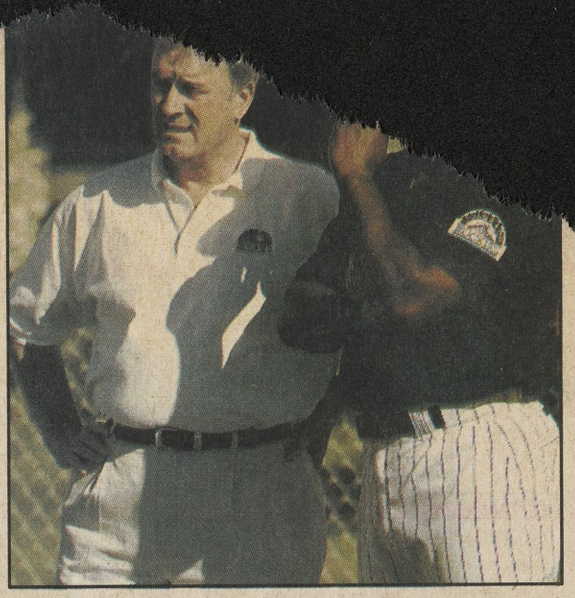
...Thurs-
...ted to re-

...players will be late
...isa problems — pitch-
...ndo Reynoso and Ivan
... and infielders Vinny
...ia and Pedro Castellano.

"This stuff happens every year," ...eral manager Bob Gebhard ...d of the visa situation. "It's ...n going on forever. No matter ...w much preparation you make, there always seem to be delays."

...uad Gebhard was particularly upset



CRITIC...
Rockies... Jerry McM... left, and ma... Don Baylor w... their team Frid... during its first of... ficial workout of spring training in Tucson, Ariz.

Ed Andrieski
The Associated

Status quo in local waters despite disease

By MILES BLUMHARDT
The Coloradoan

The Colorado Division of Wildlife released its altered stocking schedule in light of the whirling disease problem.

And, as expected, Fort Collins area waters survived relatively unscathed.

However, the same could not be said for Western Slope waters. Those waters were the most heavily impacted by the DOW's policy not to stock fish infected with the parasite that causes whirling disease in waters believed to be free of the organism.

The disease, which deforms the cartilage of young fish, making them more susceptible to predation, is believed to have caused severe dieoffs of trout in Colorado, including the Poudre River, as well as in other states.

"Statewide, there will be very little difference from last year," DOW spokesman Todd Malmsbury said. "The Western Slope and high country lakes and streams will be most impacted. But Front Range waters and others will even receive more fish."

In the Northeast Region, only Muddy Pass Lake (near Rabbit Ears Pass) and North Fork Michigan Reservoir (near Cameron Pass) are affected by the new stocking policy. Muddy Pass Lake will receive 15,000 rainbows and Michigan Reservoir 13,000 rainbows from negative hatcheries.

The DOW is taking the action to prevent the spread of the parasite that causes whirling disease. Seven of the DOW's 17 hatcheries have tested positive for the parasite, including the Upper Poudre River Unit. However, the Bellvue-Watson hatchery is negative.

Of the 4.8 million catchable trout (10 inches), 3.8 million are from positive hatcheries. Malmsbury said 95 percent of angling recreation comes from hatchery-reared fish, including 80 percent from catchable trout stocking.

Steve Puttmann, the DOW's senior fisheries biologist in Fort Col-

See DISEASE, Page D6

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Recreation/golf

...greens emerging from a spikeless winter

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...seeding in any

...reer said many

Sean Duff

players have had positive comments about the condition of the greens.

"The greens are noticeably better," he said. "Most people didn't seem to mind not wearing metal spikes at all. And I've had a lot of people tell me they're not going to wear them during the summer, either."

Bonneville said to watch this weekend's Masters tournament on TV (1:30 p.m. today, 2 p.m. Sunday, Channel 7) to see just what metal-spiked shoes can do to greens.

"The course isn't even open before the tournament," Bonneville said, referring to Augusta National, site of the tournament. "But come Sunday, those greens will be all spiked up."

■ ■ ■

Chip shots:

■ Sponsors are needed for the Fort Collins Women's City Golf Championship, scheduled July 15-16 at Collindale and SouthRidge.

This year's tournament will be held in memory of Lise Gausman, the 1994 winner who was killed last fall in an automobile accident.

Proceeds will go to the Lise Gausman Scholarship Fund. For more details, call Charley Johnson at 225-0062 or Mary Pagel at 490-6036.

■ Stan Sayers, who began duties April 1 as golf school coordinator at SouthRidge, has scheduled a short-game clinic from 1 p.m. to 4 p.m. Friday.

The cost is $40 a person; the class is limited to 15 players.

Registration information is available by calling the SouthRidge pro shop at 226-2828.

■ ■ ■

There were two holes in one reported this week.

Kevin Gallagher got his second ace in two weeks at Collindale by making a 1 on the 190-yard 15th hole. He hit a 4-iron.

Richard Parrott sank his tee shot on SouthRidge's 201-yard eighth hole. He hit a 5-iron.

Sports editor Sean Duff writes a weekly golf column. He can be reached by calling 224-7750 or by fax at 224-7899.

...ason ... wrenched his ankle.

Dallas did lose five of seven games immediately after Jackson, whose 25.7-point scoring average is fifth-best in the league, went down Feb. 24 with a severely sprained left ankle. Since then, though, the young Mavericks have regrouped to win 11 of their past ...

"We've b... cluding ou... bench," rookie ... said. "We still ha... Since (Roy) Tarpley ... he's made a real differ...

...ter to ...ne 2000

...ight off guard by complaints ...had been quoted exorbitant pric... ...a for the 1996 Summer Games.

...ure last year outlawed price gouging during the ... Hotel owners, tour operators and wholesalers are ...arge up to 5.7 percent more than their published ...rates.

... the rates the agents said they were quoted this week: ...ight for the Econo Lodge Airport that normally charges ...d $350 for the Holiday Inn on Kingston Court in Marietta, ...e the published rate for rooms with double beds is $79.

Swimming

Olympic swimmer **SUMMER SANDERS** knows her comeback won't be easy.

"I'm willing to be humbled," Sanders said after announcing her return to competitive swimming.

Sanders, 22, who retired after winning more medals than any other American swimmer at the 1992 Summer Olympics, won two gold medals, a silver and a bronze at Barcelona, then left competitive swimming in January 1994.

Sanders said she would leave Los Angeles, where she has lived for the past six months for the Olympic training facility at Colorado Springs.

Coloradoan news services

Colorado ski report

Ski conditions for Friday as supplied by Colorado Ski Country USA. (Conditions are subject to change due to weather, traffic and other factors. Be aware of changing conditions.)

Area	New snow past 24 hrs.	Base	Conditions	Lifts Open/Total
Arapahoe Basin	0"	65"	PP	5/5
Arrowhead			CL	0/2
Aspen Highlands			CL	0/9
Aspen Mountain	0"	79"	SP	8/8
Beaver Creek	0"	53"	PP/SP	10/10
Breckenridge	0"	59"	SP	14/17
Buttermilk			CL	0/7
Copper Mtn.	0"	57"	SP	17/19
Crested Butte	0"	60"	SP	10/13
Cuchara Valley			CL	0/4
Eldora	0"	49"	SP	9/9
Howelsen			CL	0/3
Keystone/North Peak	0"	55"	SP	13/19
Loveland	0"	60"	PP	9/9
Monarch	0"	93"	PP/SP	4/4
Powderhorn			CL	0/3
Purgatory	0"	67"	SP	8/9
SilverCreek	0"	35"	SP	4/5
Ski Cooper			CL	0/4
Ski Sunlight	0"	49"	SP	3/4
Snowmass	0"	69"	SP	15/15
Steamboat	0"	52"	SP	14/20
Telluride	0"	78"	SP	10/10
Vail	0"	58"	PP/SP	25/25
Winter Park	0"	70"	SP	17/20
Wolf Creek	0"	145"	SP	6/6

Legend

P – Powder; PP – Packed powder; HP – Hardpacked
SP – Manmade; CL – Area closed; NR – No report

For the latest ski conditions call the Pedersen's Ski & Sports Coloradoan

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Standings

WESTERN CONFERENCE

Midwest Division

	W	L	Pct.	GB
x-San Antonio	54	18	.750	—
x-Utah	53	22	.707	2½
Houston	43	31	.581	12
DENVER	35	38	.479	19½
Dallas	33	39	.458	21
Minnesota	20	54	.270	35

Pacific Division

	W	L	Pct.	GB
x-Seattle	52	21	.712	—
x-Phoenix	52	22	.703	½
x-L.A. Lakers	47	27	.635	5½
Portland	39	34	.534	13
Sacramento	35	38	.479	17
Golden State	23	50	.315	29
L.A. Clippers	15	59	.203	37½

EASTERN CONFERENCE

Atlantic Division

	W	L	Pct.	GB
x-Orlando	54	20	.730	—
x-New York	48	25	.658	5½
Boston	31	43	.419	23
Miami	29	45	.392	25
New Jersey	27	47	.365	27
Philadelphia	20	54	.270	34
Washington	18	56	.243	36

Central Division

	W	L	Pct.	GB
x-Indiana	48	27	.640	—
x-Charlotte	45	28	.616	2
x-Chicago	41	33	.554	6½
x-Cleveland	39	35	.527	8½
Atlanta	37	37	.500	10½
Milwaukee	29	45	.392	18½
Detroit	27	46	.370	20

x-clinched playoff berth.

Friday's Games

Boston 91, Philadelphia 81
Charlotte 98, Washington 93
Atlanta 102, Indiana 90
Detroit 104, Orlando 94
Chicago 97, Cleveland 88
Milwaukee 107, New Jersey 92
Dallas 111, Minnesota 94
Portland 127, Houston 109
L.A. Lakers 113, Utah 90

Today's Games

Miami at New Jersey, 5:30 p.m.
Orlando at Philadelphia, 5:30 p.m.
Seattle at Dallas, 6:30 p.m.
Detroit at New York, 6:30 p.m.
San Antonio at Golden State, 8:30 p.m.
L.A. Clippers at Sacramento, 8:30 p.m.

Summaries

HORNETS 98, BULLETS 93

Charlotte—Johnson 8-20 2-2 22, Wingate 3-7 0-0 7, Mourning 10-20 5-8 25, Bogues 7-15 1-1 15, Hawkins 6-14 1-2 17, Gattison 2-5 2-2 6, Parish 3-4 0-0 6, Sutton 0-4 0-0 0. Totals 39-89 11-15 98.

Washington—Webber 9-19 5-6 23, MacLean 3-8 1-2 7, Muresan 6-9 1-2 13, Cheaney 8-15 7-9 23, Overton 7-10 1-1 15, McIlvaine 0-2 0-0 0, Stewart 1-1 1-2 3, Butler 2-9 0-0 5, Tucker 2-5 0-0 4. Totals 38-78 16-22 93.

Charlotte	**38**	**17**	**24**	**19—98**
Washington	**30**	**22**	**24**	**17—93**

3-Point goals—Charlotte 9-23 (Johnson 4-8, Hawkins 4-9, Wingate 1-3, Mourning 0-1, Gattison 0-1, Sutton 0-1), Washington 1-13 (Butler 1-4, Cheaney 0-1, Overton 0-2, Webber 0-3, MacLean 0-3). Fouled out—None. Rebounds—Charlotte 54 (Johnson 11), Washington 46 (Webber 11). Assists—Charlotte 26 (Bogues 8), Washington 22 (Webber 10). Total fouls—Charlotte 16, Washington 16. Technicals—Charlotte illegal defenses 3, Overton. A—18,756 (18,756).

CELTICS 91, 76ERS 81

Philadelphia—Wright 4-6 1-6 9, Weatherspoon 2-7 1-2 5, Bradley 6-17 2-5 14, Barros 10-21 6-7 27, Gaines 2-8 1-2 5, Williams 0-1 0-0 0, Alston 4-8 2-4 10, Graham 3-5 0-0 6, Grayer 0-2 0-0 0, Ford 1-5 1-2 3, Perry 1-3 0-0 2. Totals 33-83 14-28 81.

Boston—Wilkins 11-17 4-4 31, Strong 0-3 0-0 0, Montross 3-7 0-0 6, Brown 6-14 1-2 13, Douglas 7-18 5-7 19, Radja 2-12 4-6 8, Minor 2-3 0-0 4, Ellison 4-5 0-0 8, McDaniel 1-6 0-0 2. Totals 36-85 14-19 91.

Philadelphia	**19**	**29**	**13**	**20—81**
Boston	**25**	**20**	**23**	**23—91**

3-Point goals—Philadelphia 1-9 (Barros 1-4, Alston 0-1, Ford 0-1, Gaines 0-3), Boston 5-12 (Wilkins 5-6, Brown 0-3, Douglas 0-3). Fouled out—Wright, Montross. Rebounds—Philadelphia 51 (Bradley 12), Boston 67 (Radja 16). Assists—Philadelphia 10 (Barros 4), Boston 18 (Douglas 12). Total fouls—Philadelphia 22, Boston 24. A—14,890 (14,890).

HAWKS 102, PACERS 90

Indiana—D.Davis 2-4 1-2 5, McKey 2-9 0-0 4, Smits 3-6 1-1 7, Jackson 4-8 2-3 10, Miller 5-12 3-3 15, Workman 2-7 2-3 6, A.Davis 3-7 4-4 10, Mitchell 3-8 7-7 13, Scott 1-9 1-2 4, ... 0, Ferrell 4-4 3-4 11, Fleming 2-3 1-1 5. T... 31-77 25-30 90.

Atlanta—Augmon 2-10 1-1 5, Long 3-9 1-... Lang 5-10 4-5 14, Blaylock 7-13 0-0 17, Sm... 8-18 5-6 26, Ehlo 1-8 0-2 3, Whatley 2-2 0-0 5, Corbin 7-12 3-5 17, Anderson 0-0 2-6 2, Edwards 1-1 0-0 2, Koncak 1-1 0-0 3. Totals 37-84 16-27 102.

Indiana	**20**	**17**	**23**	**30— 90**
Atlanta	**24**	**23**	**32**	**23—102**

3-Point goals—Indiana 3-12 (Miller 2-6, Scott 1-3, Smits 0-1, Workman 0-2), Atlanta 12-27 (Smith 5-12, Blaylock 3-6, Koncak 1-1, Whatley 1-1, Long 1-2, Ehlo 1-4, Corbin 0-1). Fouled out—None. Rebounds—Indiana 59 (D.Davis 12), Atlanta 50 (Lang 10). Assists—Indiana 12 (Workman 4), Atlanta 24 (Blaylock 9). Total fouls—Indiana 25, Atlanta 23. Technical—Indiana illegal defense. A—14,521 (16,365).

BUCKS 107, NETS 92

New Jersey—Brown 7-11 0-2 14, Gilliam 11-17 4-6 26, Benjamin 3-6 0-2 6, Anderson 5-17 0-0 10, Walters 3-6 0-0 8, Williams 1-1 2-4 4, Childs 2-4 0-0 5, Mahorn 2-2 2-2 6, Higgins 4-9 0-0 8, Floyd 2-4 0-0 5. Totals 40-77 8-16 92.

Milwaukee—Baker 8-17 0-0 16, Robinson 10-15 2-5 25, Mobley 7-10 0-0 14, Day 5-11 2-2 14, Mayberry 2-4 0-0 6, Conlon 6-9 1-3 13, Murdock 5-13 2-2 14, Newman 1-6 3-4 5, Barry 0-0 0-0 0. Totals 44-85 10-16 107.

New Jersey	**26**	**19**	**20**	**27— 92**
Milwaukee	**32**	**20**	**31**	**24—107**

3-Point goals—New Jersey 4-14 (Walters 2-4, Floyd 1-2, Childs 1-2, Higgins 0-2, Anderson 0-4), Milwaukee 9-18 (Robinson 3-5, Day 2-3, Mayberry 2-3, Murdock 2-6, Newman 0-1). Fouled out—None. Rebounds—New Jersey 46 (Gilliam 9), Milwaukee 46 (Mobley 10). Assists—New Jersey 31 (Anderson 13), Milwaukee 29 (Baker 9). Total fouls—New Jersey 18, Milwaukee 15. A—18,633 (18,633).

MAVERICKS 111, TIMBERWOLVES 94

Minnesota—West 5-10 7-7 17, Laettner 10-16 2-2 22, Rooks 3-7 2-3 8, Martin 3-6 2-2 8, Rider 6-18 0-0 12, Garland 0-0 0-0 0, Gugliotta 1-3 4-4 6, Durham 2-4 3-4 7, King 4-8 1-2 9, C.Smith 2-2 1-1 5, Foster 0-1 0-0 0. Totals 36-75 22-25 94.

Dallas—Mahsburn 11-20 9-9 31, Jones 5-9 0-0 10, Williams 6-10 1-2 13, Kidd 3-14 3-4 11, ...

PISTONS ...

Orlando—Royal 1-5 ... O'Neal 13-20 5-16 31, Sh... 1-5 2-2 4, Scott 6-13 4-4 19, ... 7, Avent 1-3 2-4 4. Totals 34-7...

Detroit—Hill 10-18 1-4 21, ... West 3-5 0-2 6, Dumars 3-11 ... 9-17 3-4 25, Miller 5-6 2-2 12, H... Addison 2-5 0-0 4, Leckner 4-5 2... 0 0-0 0. Totals 41-84 17-28 104.

Orlando	**17**	**3...**
Detroit	**28**	**2...**

3-Point goals—Orlando 6-17 (Sc... 2-4, Thompson 1-4, Royal 0-1, Gran... 0-1), Detroit 5-22 (Houston 4-10, M... 0-1, Hunter 0-3, Dumars 0-4 ... out—Shaw. Rebounds—Orlando ... 18), Detroit 54 (Miller 13). Assists—... (Bowie 9), Detroit 26 (Hill 1... fouls—Orlando 25, Detroit 2... cals—Detroit illegal defense 2, Sh... Orlando coach Hill. A—21,454 (21...

BULLS 97, CAVALIERS ...

Cleveland—Williams 6-9 6-6 18. ... 10, Cage 1-3 0-0 2, Phills 8-20 4-4 ... 13 6-7 19, Hill 3-5 5-8 11, Colter 2-4 ... ing 0-1 0-0 0, Campbell 0-3 0-0 0, R... 0, Roberts 0-0 0-0 0. Totals 27-67 2...

Chicago—Pippen 11-17 2-2 25, ... 3-3 19, Perdue 2-4 0-0 4, Armstrong ... Jordan 9-27 9-10 28, Longley 2-3 2... 1 0-0 0, Simpkins 0-0 0-0 0, Bloun... Harper 0-0 0-2 0, Wennington 2-5 ... 39-76 16-19 97.

Cleveland	**20**	**19**
Chicago	**30**	**19**

Rice has Miami turning up ...

By ROSCOE NANCE
USA Today

As shooters go, few in the National Basketball Association are more deadly than Miami Heat forward Glen Rice.

The 1995 AT&T Long Distance Shootout champion is among league leaders in scoring (10th, 21.9 points a game), free throw percentage (13th, .864), 3-point field-goal percentage (tied for ninth, .413) and 3-point field goals made (tied for fifth, 167).

But the sixth-year veteran has been at his deadliest the past seven weeks, as Miami battles for the final Eastern Conference playoff berth. Rice has averaged 23.5 points during that period and has scored 30 or more six times — with a high of 45, one shy of his franchise record.

"He's had an unbelievable month and a half," coach Alvin Gentry said. "When plays broke down and we needed hoops, he went and got them."

The only time Rice remembers shooting better was in the 1989 NCAA Tournament. He averaged 30.7 points on 58 percent shooting and was named Most Valuable Player after Michigan won the national championship.

He attributes his current hot streak to better concentration and more confidence since Gentry took over the team Feb. 14.

"He gives me a chance to do what I do best," said Rice, who Sunday scored his 9,000th career point. "He shows he has confidence in you. If you make a mistake, he won't pull you unless you keep making it. You feel he's in your corner."

Rice has been the Heat's top scorer in each of the past seven games and 18 of 28 since Gentry replaced Kevin Loughery.

"Glen has really stepped up," Gentry said. "We put him in situations where he's isolated with the ball. He's taking it to the basket. H... and when he gets ... shoots well."

The Washingto... that last week ... first eight shots ... route to 26 points.

"He doesn't ne... his shot off)," Bu... said. "When he... he sees a big bas...

Rice has start... 257 games. H... April 2, 1994, ... Knicks, ended ... streaks for gam... at 174. He has ... in his career.

"I take a lot o... players should," ... in every game. T... ple times when ... playing, but I pus...

"You have to d... and run, I can pla...

Colorado & The West

Richard S. Chapman, State Editor — (303) 892-2783 • **e-mail** — metro@RockyMountainNews.com

REGIONAL BRIEFING

Grizzlies may be inbreeding

POCATELLO, Idaho — An Idaho scientist says Yellowstone grizzly bears may be showing early warning signs of inbreeding, which eventually could affect their ability to survive.

Lizette Waits is working through the University of Idaho to determine if the 600 bears in Yellowstone are at risk from an inadequate gene pool.

Inbreeding leads to animals that do not easily recover from environmental disasters or disease.

Man gets 52 years in killing

GREEN RIVER, Wyo. — A man was sentenced to 52 years to life in prison for shooting to death his pregnant ex-girlfriend.

Lawrence Duke Howard, 26, of Green River, struck a plea bargain to avoid the charge of first-degree murder of Lisa M. Bernal, 22.

Inmate to serve 18 more years

CANON CITY — A Colorado State Penitentiary inmate serving a seven-year sentence for sexual assault has been sentenced to 18 additional years for trying to hire a hit man to kill the prosecutor.

Lonnie Hendrickson, 38, pleaded guilty Wednesday to felony solicitation to commit first-degree murder.

Judge Julie Marshall ordered Hendrickson to finish his seven-year sentence for sexual assault on a child before beginning his 18-year solicitation sentence.

Teacher faces hearing on job

GREELEY — A Greeley teacher suspended for putting a student in a small vestibule for hours at a time will face a hearing in the coming months to help determine whether she should be fired.

Bev Antuna, a Jefferson Elementary School fifth-grade teacher, could lose her job for putting 12-year-old Gabriel Pimentel in an enclosed room next to her classroom because he hadn't completed his homework.

According to the boy's parents, Antuna kept him isolated from his peers in an unheated, poorly lighted vestibule every day for three weeks in December and January.

Shooting justified, chief rules

IGNACIO — A police officer who shot a member of the Southern Ute Indian Tribe earlier this month was justified in his use of force, Ignacio Police Chief Kirk Phillips said Wednesday.

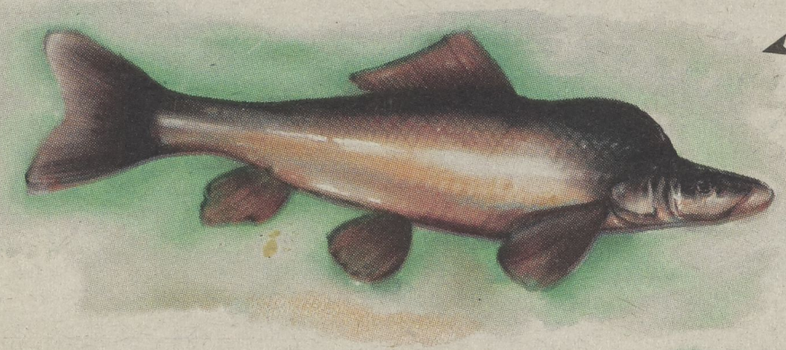
Authorities launched an internal review of the April 6 shooting of Clayborn Scott, 43. He was shot in the stomach by officer Jake Candelaria, 33, following a traffic stop that escalated into a fight.

Scott was released from the hospital April 14 in good condition.

— News staff and wire reports

ENDANGERED NATIVE FISH SPECIES

Congress proposes allocating $100 million to continue projects that restore habitat and stream flows to support populations of these endangered native fish.



RAZORBACK SUCKER
Scientific name: *Xyrauchen texanus*
Description: 12 pounds with abrupt, bony, keel-edged hump
Habitat: Rivers
Status: Endangered in Colorado and nationally. Restocking of this species is continuing.

HUMPBACK CHUB
Scientific name: *Gila cypha*
Description: 12-16 inches with a prominent hump behind the head
Habitat: Endangered in Colorado and nationally. Restocking yielding positive results.

BONYTAIL
Scientific name: *Gila Elegans*
Description: 18 inches with large fins and tapered body
Habitat: River
Status: Extinct in Colorado and endangered nationally. Restocking begins this summer.

COLORADO PIKEMINNOW
Scientific name: *Ptychocheilus lucius*
Description: Up to 5 feet long, weighing as much as 80 lbs.; long flattened head; olive gray back with silvery sides
Habitat: Endangered in Colorado and nationally. Restocking yielding positive results.

Color art by Tim Williams/News Staff Artist
Black and white drawing by Joseph R. Tomelleri/U.S. Fish and Wildlife Service

$100 million sought to restore native fish

U.S., states have spent $94 million since 1989 on 4 endangered species

By Berny Morson
News Staff Writer

The federal and state governments have spent $94 million since 1989 to restore four native fish to the Colorado and San Juan river systems.

Now, Congress is poised to authorize $100 million more to complete the projects.

The money has been used to restore habitat and maintain streamflows for four species on the "endangered" list: the pikeminnow, razorback sucker, humpback chub and bonytail.

Colorado Natural Resources Department Director Greg Walcher calls the amount spent "outrageous," but he doesn't want to abandon the recovery program. He testified this week for a bill by U.S. Sen. Wayne Allard, R-Colo., to provide the extra $100 million.

"In general terms, my frustration is, if they tell us how many razorback suckers they want in the river, we'll raise them and put them in the river," Walcher said. "Some of the habitat work has already been done."

The project could have been completed years ago if the U.S. Fish & Wildlife Service had moved more quickly to set goals for how many fish should be released and what level of survival would constitute success. But agency officials and private groups close to the program say restoring a species isn't as simple as throwing fish into the water. About 25 percent of the money in the Colorado River restoration project has been used for studies.

Arizona released the same fish species without studies, said Henry Maddux, the Fish & Wildlife Services director for the Colorado River restoration project.

"None of them are left," Maddux said of the Arizona fish. "The ones we're stocking are making it."

Scientists knew little about the endangered species because they were considered "trash fish," a factor that contributed to their brush with extinction.

The Fish & Wildlife Service studies probed everything from the spawning habits of the fish to how they are guided by smell, according to study records. The Smithsonian Institution studied how the endangered Colorado fish are related to other species.

Scientists looked at the fishes' DNA to prevent destructive in-

See **SPECIES** on **11A**

Firefighters keep blaze from homes

By Kevin McCullen
News Staff Writer

LARIMER COUNTY — Calmer winds Thursday helped about 60 firefighters push a stubborn wildfire away from homes in Rist Canyon, but authorities were wary of declaring the 200-acre fire contained.

No additional homes or buildings in the populated canyon were threatened by the blaze, which apparently was sparked by lighting. The fire came within 100 feet of a home Wednesday, sheriff's Deputy Cindy Gordon said.

Fire crews Thursday were able to cut fire lines to push the front edge of the fire, which was burning dead grass and trees, further from homes, she said.

Fire danger from the Larimer County foothills south along the Front Range remains moderate to high. Snow in the high country is keeping the threat of fire there remote.

The wildfire in Rist Canyon, the first this year to threaten a populated area, started just as federal land agencies are hiring their seasonal fire crews.

Fire managers had hoped to contain the fire by Thursday night, but they were leery of declaring a containment and control time because of the possibility of winds. Fire bosses also expected two 20-person fire crews from the Bureau of Land Management in New Mexico to arrive on fire lines by late in the day.

High winds Wednesday whipped the fire erratically, prompting the evacuation of about 20 families in an area about 15 miles west of LaPorte. More than 40 wolf hybrids kept at the Wolf Rescue shelter in the canyon also were evacuated, Gordon said.

Gordon said Thursday's calm weather gave hope that residents could return soon.

Precipitation this year has been about normal in the foothills.

"We're at that time of year when we can have these dry, gorgeous days and — depending on the location — you can have fires. We have local areas where the wind can help push a fire, and we can have places that still are knee-deep in snow," said Lynn Young of the U.S. Forest Service.

Nerves get raw over lieutenant governor process

BILL from 5A

in the joint conference committee to change the date to the 2002 race.

As a result, Gov. Bill Owens, who is likely to run for a second term, would get to decide the No. 2 spot on the ticket. Under the current system, the party and state voters decide who is on the ticket.

The amended bill didn't sit well with Dean for a couple of reasons.

First of all, Dean's been talked about as a lieutenant governor candidate when his term ends in 2002, and he might not be Owens' first pick.

And Dean thought McPherson was less than truthful when McPherson told the House what would happen at a conference committee April 6. In fact, Dean called McPherson a liar, although he later softened that by saying that McPherson had reacted like the lawyer that he is by answering a specific question with a broad answer.

"I didn't lie. I evaded his question, which I shouldn't have done," McPherson said.

He said he grew frustrated when Dean three times refused his request to schedule his bill for discussion on the House floor.

McPherson retaliated Wednesday morning. He managed to get one of Dean's bills sent to the Finance Committee, which McPherson chairs, instead of the entire House. McPherson then could decide when to hear the bill.

The stalemate ended a few hours later when the two lawmakers worked out their differences and agreed both bills would be considered.

McPherson kicked off the debate by apologizing to his colleagues for misleading them. But Rep. Ben Clarke, a Denver Democrat, kicked off the opposition. He said changing the date targeted "a minority member of this administration."

Lt. Gov. Joe Rogers, who was elected by the people in 1998, is black. He and Owens have had a number of well-publicized scrapes and many doubt Owens would choose him for a running mate if the process were changed.

Clarke, who is black, said the bill amounted to a "high tech" lynching.

But Rep. Gloria Leyba, a Denver Democrat, said race had nothing to do with the decision to change the date to 2002, and she should know. Leyba, who is one of six lawmakers on the conference committee, said it was her proposal.

"Rep. McPherson wasn't even there," she said.

Leyba said she thinks Democrats have a great chance of taking the governor's office away from Owens in two years, and she wants the candidate to be able to pick a running mate.

The House rejected Clark's motion to reject the conference committee report, but then another wrinkle appeared.

Rep. Bob Hagedorn, an Aurora Democrat, pointed out that the House bill allows the parties to ratify the candidates' choice of a running mate.

The House sided with his motion to send the bill back to conference committee to iron out the difference with the Senate.

And as for Dean's bill, which the Finance Committee approved late Wednesday, it is scheduled for a final vote today. It passed on an initial vote Thursday. The bill concerns Medicaid reimbursement for nursing homes.

Contact Lynn Bartels at (303) 892-5405 or bartelsl@RockyMountainNews.com.

Prosecutor Rappaport named district judge

By John Sanko
News Capitol Bureau

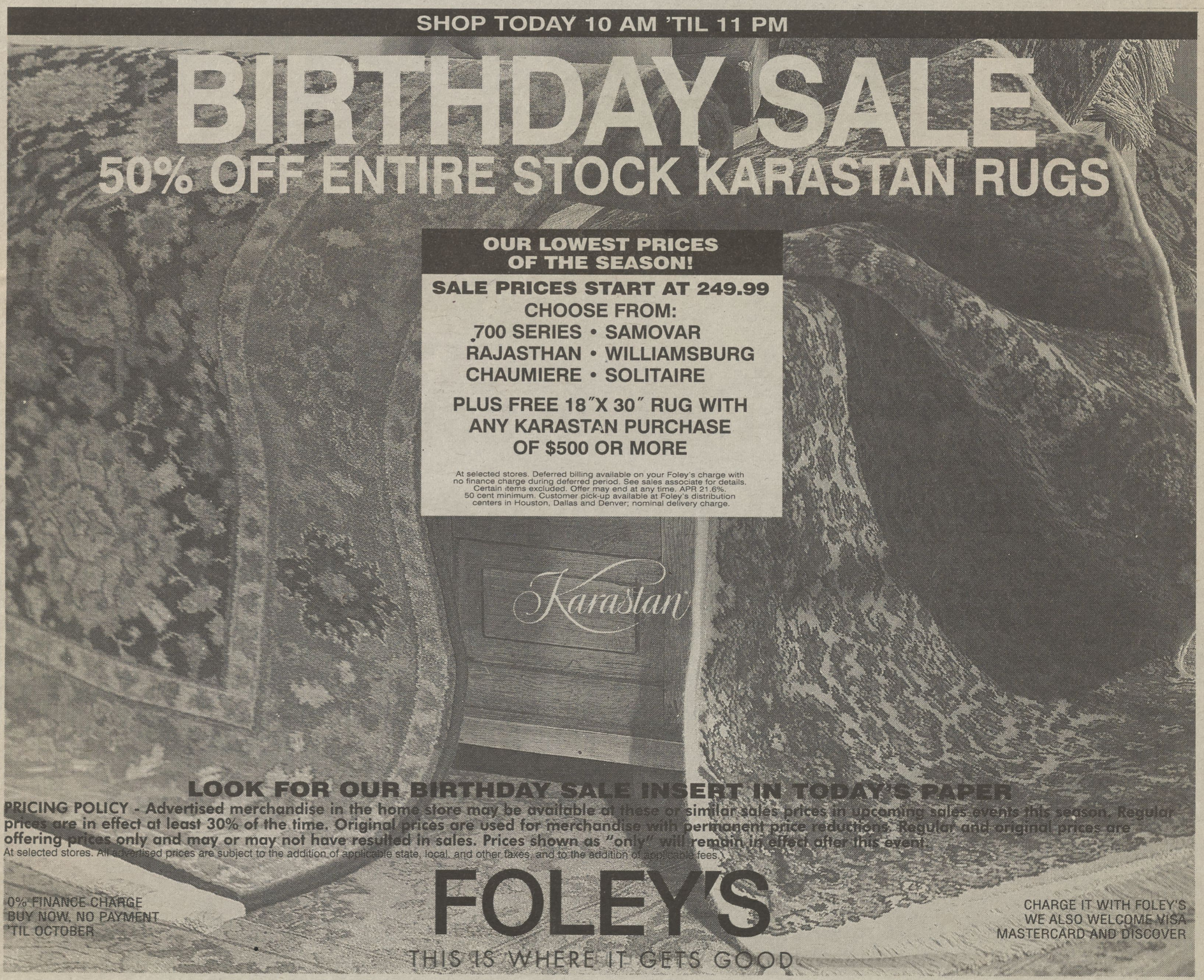
Sheila Ann Rappaport, a Denver prosecutor who specializes in domestic violence, child abuse and child homicide cases, will be the city's next district court judge.

Gov. Bill Owens named the chief deputy prosecutor Wednesday to the Second Judicial District seat to succeed District Judge Edward A. Simons, who is retiring July 1.

The appointment comes two days after Owens dipped into Denver District Attorney Bill Ritter's office for another judicial appointee — Nathan Ben Coats. Coats was appointed to the Colorado Supreme Court.

More than half of Owens' 20 court appointees have been prosecutors or former prosecutors. Rappaport has practiced law in the Denver district attorney's office for 22 years.

Rappaport, on the board of directors of the Denver Children's Advocacy Center and the Denver Domestic Violence Task Force, has prosecuted more than 40 cases of child abuse resulting in death.



Studies cover 1,000 miles of rivers in Colorado, 3 neighboring states

SPECIES from 7A

breeding among the fish being stocked, and other scientists probed the amount of water that would have to be released from Flaming Gorge Dam to create optimal streamflows, as well as the ideal water temperature.

Those studies don't come cheap, Maddux said.

The four species live at the bottom of deep holes, often in canyons that can be studied only by floating down the rivers, Maddux said. Studies covered 1,000 miles of rivers in Colorado, Wyoming, Utah and New Mexico.

"It's not like counting birds in a tree," Maddux said.

The restoration program, including the budget and selection of projects for funding, has been under the direction of committees with members from the four states. Walcher was appointed to Colorado's seat last year by Gov. Bill Owens.

In addition to the studies, the money has paid to lease water rights from private owners to maintain streamflows. Fish ladders have been built to allow fish to swim around dams.

The Fish & Wildlife Service leased land along rivers, then tore down dikes to create shallow wetlands where the fish can spawn during high water.

And three fish hatcheries were built: two in Utah, one in Grand Junction.

The biggest expenditure this year is a $3.1 million project to conserve water on a large canal system in the Grand Valley. The goal is to give irrigators their full allotment, while leaving more water in the Colorado River for the fish, Maddux said.

Of the four species, the pikeminnow and humpback chub are doing well after extensive restocking. More restocking is scheduled for the razorback sucker.

Restocking will begin this summer for the bonytail, which is extinct in Colorado.

A spokesman for Allard says the senator is sponsoring the bill to allocate an additional $100 million because the program enjoys wide support. Western lawmakers of both parties back the program, as do farmers and environmentalists, Allard spokesman Sean Conway said.

"It's a lot of money," Conway said. But in the long run, the fish will recover, removing the possibility that the Fish & Wildlife Service will have to interfere with Colorado water rights to provide for the fish.

Bennett Raley, a water lawyer who represents the Northern Water Conservancy District, said the alternative to cooperation is a huge legal dispute that could last decades.

The Northern Colorado Water Conservancy District owns Colorado River water rights. Had the issue turned into a court fight, the Fish & Wildlife Service would have impounded water rights from other users to maintain streamflows for the fish, Raley said. That's what has happened in other watersheds, he said.

Contact Berny Morson at (303) 892-5072 or morsonb@RockyMountainNews.com.

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Asolo	Latitude	$190.00	$59.00	$131.00	Tecnica	Pike	$175.00	$89.99	$86.00

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LEGISLATIVE BRIEFING

LIFE IN THE LEGISLATURE

Lawmakers take license with bill

Sen. Dave Wattenberg, R-Walden, wants the Colorado House to know he had nothing to do with an amended bill headed back its way, even though the bill now calls for his picture to be stamped on special agricultural license plates.

Wattenberg, known for being a jokester himself, was the butt of a joke by his colleagues Wednesday night when they tagged on a trio of amendments to put Wattenberg's mug — and even that of lobbyist and former Sen. Dick Soash of Steamboat Springs — on the special plates.

OK, it was all in fun, Wattenberg said Thursday as he tried to take the amendments off.

"It's a nice little bill — it's not going to change the world much — but I think in some of your exuberance last night, we kind of fouled up the bill just a little bit," Wattenberg said.

HB 1323 now returns to the House with that attached. The House is sure to ask for a conference committee to discuss the amendments.

OWENS WATCH

School bill to be signed today

Gov. Bill Owens will sign HB 1159, the school finance bill, in his office today at noon. The bill provides $158 million in additional state funding.

ON THE HILL

Retiring CU president honored

The legislature honored retiring University of Colorado President John Buechner on Thursday and thanked him for a life of public service.

Among those who thanked Buechner was one of his former students, Rep. Bob Hagedorn, D-Aurora.

Hagedorn said Buechner once taught his class the hallmark of a good politician: He must be tall like Abe Lincoln, have gray hair to appear distinguished and have hemorrhoids to appear concerned.

"At the time, Buechner had two out of three," Hagedorn said to laughter.

Buechner is tall and has gray hair.

QUOTE OF THE DAY

"I just want to caution the sponsor not to sell naming rights."

— **Rep. Bill Swenson,** R-Longmont, during a discussion on getting the voters to approve spending surplus money to spruce up the state house.

MORE INFORMATION

■ More online: **InsideDenver.com** Keyword: Legislature
■ Bill information: (303) 866-3055

Senate backs aid for autistic kids

75 measures remain on legislative calendar before time runs out

By John Sanko
News Capitol Bureau

A pilot program to help a few Colorado families cope with severely autistic children without having to place them in institutions won support in the Senate Thursday despite concerns about the long range costs.

Lawmakers gave preliminary approval to legislation seeking a federal Medicaid waiver that would provide additional help for 25 families with autistic youngsters.

Autism is a neuro-biological disorder that makes it extremely difficult for children to develop social and communications skills without costly treatment and intervention.

Sen. Dottie Wham, R-Denver, argued HB 1389 would provide new hope for a very few families who find themselves struggling against a disease that can bankrupt parents or force them to put their children in institutions.

"The cost of the services that these children need are enormous," Wham said.

A special plea for the bill came from Sen. Gloria Tanner, D-Denver, who noted she had an 8-year-old grandson who was autistic. "My daughter can't go out to shop without paying $20 to $24 an hour for a special sitter," she said.

Sen. Dave Owen, R-Greeley, a member of the legislative joint budget committee, expressed concern at the long-range cost of such a program. The cost to the state of the pilot project was estimated at $325,000 in state funds.

"This is very hard for me, but I have to play Scrooge," Owen said, noting that the Medicaid budget already was soaring. "It could be very, very expensive. This will certainly run your Medicaid budget up."

The bill was one of more than 75 measures on the Senate calendar as lawmakers met late into the evening again to try to finish their work before the session ends next Wednesday. Issues ranged from tattoos and senior fraud to a crackdown on sex offenders.

Other bills approved included:

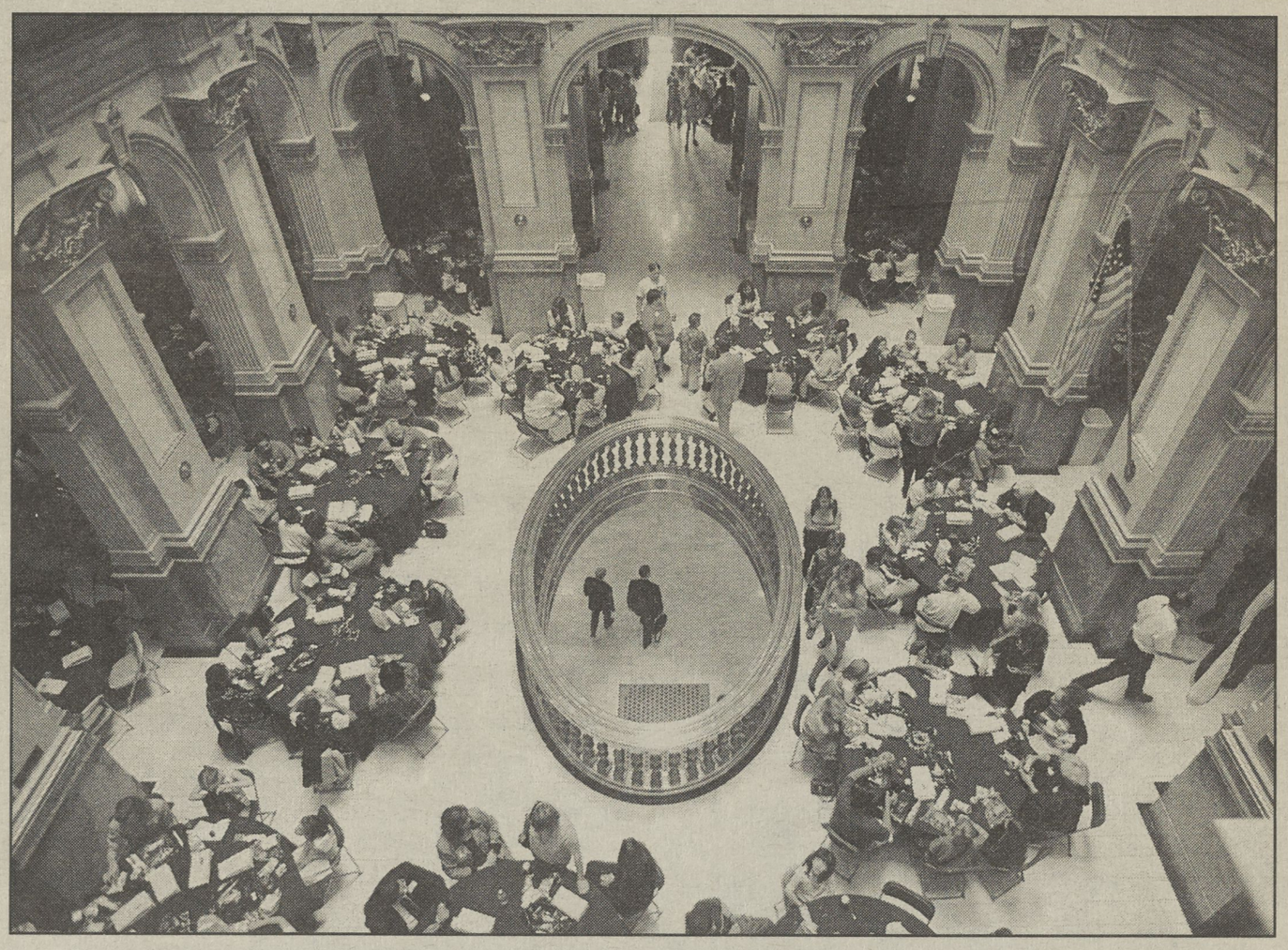
■ HB 1116 allowing judges to impose fines of up to $10,000 for acts of fraud against people 60 or older.

■ HB 1330 requiring a mental evaluation of anyone convicted of torturing or mutilating an animal.

■ HB 1111 helping prosecutors go after those who use the Internet to create false identification documents.

■ HB 1232 allowing the Colorado Bureau of Investigation to post pictures and other identification on the Internet to identify adults who have been charged with sex offenses against children.

■ HB 1246 requiring the Colorado Health Department to set minimum safety standards for tattoos and body piercing.



A motion to table

State employees and their children attend a brown bag luncheon in the state Capitol on Thursday. Gov. Bill Owens, who is not shown, made an appearance at the event, which was part of "Take Your Child to Work Day."

Steve Groer
News Staff
Photographer

House kills effort to curb conflicts of interest on oil commission

By Lynn Bartels
News Capitol Bureau

A bill that would have restricted membership on the state's oil and gas commission died by one vote Thursday in the House.

Some lawmakers accused the industry of orchestrating a lobbying effort that rivaled the gun and education issues that have dominated this session.

HB 1480, by Speaker Russell George, R-Rifle, died on a 33-32 vote. It would have disallowed anyone who works for or has a financial interest in a company being regulated by the commission from taking a seat on the seven-member body.

Five members of the Colorado Oil and Gas Conservation Commission have connections to the industry, which is one reason Common Cause pushed for the bill.

"This is a classic conflict of interest in Colorado," program director Pete Maysmith said. "The fox is guarding the henhouse, has the keys and gets in whenever he wants."

But Rep. Ken Kester, R-Las Animas, was among the lawmakers who opposed the bill.

"I served on a hospital board for eight years, and I was happy that there were medical people serving on the board because they had expertise," he said.

Among those who voted in favor of the bill were George, Mark Larson of Cortez, Kay Alexander of Montrose, Jack Taylor of Steamboat Springs and Gayle Berry of Grand Junction. The Republican lawmakers represent districts where the oil and gas industry is active.

"That right there should tell you something," Larson said.

"We're not saying the oil and gas industry is bad," he added. "The issue is whether the commissioners are going to the full extent of the law to consider all things. And would you want to consider something that might negatively impact the people who are sending your kids to college and paying for your house?"

Squawfish being squeezed out of state waters

By ERIC PETTINE
For The Coloradoan

Fishing

The Colorado squawfish, native to our state, is on the endangered list.

The reason they are endangered is that we have placed dams on so many of the tributaries of the Colorado River that the river no longer experiences the high-water flows that accompanied spring runoff. These high flows are what trigger the instinct of the squawfish to spawn.

The problem is that flows high enough to assist the squawfish in spawning could potentially harm some world-class trout fisheries. Rivers that might be affected include the Green River in Utah, the Frying Pan River in Colorado and the San Juan River in New Mexico. All are tailwater fisheries, which is to say they are artificial, or manmade.

What is usually mentioned as I listen to those who are against raising flows for the squawfish, is the flow would harm the trout by scouring the bottom of the river and killing insects on which the trout feed.

Actually, that doesn't usually happen. In a free-flowing river like the North Platte, high water occurs every spring without harm to fish or insect life. The truth is simply that it would make the fishing more difficult.

Most fly fishers, especially those who practice catch and release, consider themselves conservationists. We are being challenged, no matter what we call ourselves, to decide if we are willing to sacrifice some of our favorite waters for the fish most of us have never seen.

If the answer is to keep our great trout fisheries and to hell with the squawfish, then we have to accept the fact that we are just another special-interest group that is only interested in defending and promoting its own ends.

If, on the other hand, we do what we can to protect an endangered species, we might lose some excellent fishing. Along with that is the economic impact to the areas where these fisheries occur. Fly shops, guides, motels, etc., all depend on anglers who come from all over the world to fish these waters.

Anglers usually have been a fairly united group in defending rivers and fish. Suddenly, we are divided over the issue of trout versus squawfish. Sometimes, choices have to be made that are unpleasant. I think I always have known where I would end up.

Fishing for me is about mountains and rivers, water ouzels and deer, trees and the smell of pine, grasshoppers and mayflies, and the rest of the rainbow of creatures that live in our wild places. I think if I gave up any one of them, it would lessen my whole experience.

So, put me down for the squawfish. I just like knowing they are there.

Eric Pettine is a fly fishing lecturer and nationally published writer who lives in Fort Collins. He can be reached by fax at 224-7899.

...NVER — Some 200,000 catchable rainbow trout will be stocked in the Poudre River and other favorite mountain fishing spots west of Fort Collins this summer.

Outdoors/D2

In a surprise move Thursday, the Colorado Wildlife Commission compromised a recommendation by Colorado Division of Wildlife biologists that would have resulted in virtually no catchable trout being stocked in waters such as the Poudre River, Red Feather Lakes and those in the Cameron ...whirling disease.

The unexpected move pleased business owners who rely heavily on the sportfishing industry, but frustrated Trout Unlimited officials.

"Maybe now I won't go belly up," said Jan Felker, owner of the Poudre River Resort who earlier gave an emotional testimony to the commission. "I'm really surprised they made a decision so quickly. I thought it wouldn't be until the middle of the fishing season until they made a decision. I'm very happy with the decision."

Outdoors

David Nickum, regional conservation director for Trout Unlimited, said he was not in favor of the decision but added he was not completely surprised by it in light of the economic impact it likely would have caused.

"Clearly the cost of the Division recommendation would have been very high for many of those who fish the mountain waters and for businesses," he said. "The commission has a wide range of stakeholders to look after. However, it's not the outcome we had hoped for."

...week, when DOW pathologists discovered a test that was more sensitive in detecting the spores that cause whirling disease.

Under commission policy, waters that already are infected with the parasite that causes whirling disease, such as the Poudre River, may be stocked with lightly infected trout. They believe this poses little risk of further spreading the disease. The policy considers lightly infected trout as those with no more than 10,000 spores, which, if bunched together, could fit on the head of a pin.

But the new technique ...the old method. The DOW recommended applying the new, more sensitive test while continuing to use the old standard of 10,000 spores.

The new technique likely will reveal that many fish thought to be lightly infected have more than the allowable 10,000 spores.

Hatcheries can continue to use the old technique to determine spore counts on fish to be stocked in lightly infected waters. However, the commission is requiring all fish to be stocked in waters considerd free of whirling disease to be tested

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Outdoors tip

When fishing in pairs for walleye in shallow water this spring, if one hooks a

Recreation/skiing

If you like going to extremes, try ...

CHARLIE MEYERS, OUTDOOR EDITOR • Call 303-820-1609

Calling all pikers: Our trout need you

By Charlie Meyers
Denver Post Outdoor Editor

The man strolling along the shore of Spinney Mountain Reservoir balanced a fly rod like a wire walker while leaning into a wind that threatened to transport him somewhere out into the lake.

"Caught a nice pike, 15 pounds, but no trout," he answered the obligatory question an outdoor writer posed to every angler within earshot.

A biologist in the same boat had a requisite question of his own.

"Did you keep it," Greg Gerlich shouted above the blow.

"It's in my cooler," the man said, nodding toward a vehicle on a hill.

"That's great," Gerlich said with an enthusiastic thumbs up.

For a biologist with a serious northern pike problem, this was just one more he didn't have to catch, or at least worry about. Despite the wind, Gerlich and his crew already had done their part to help reduce a runaway pike population in the popular impoundment near Hartsel.

More than three dozen long, sinister forms sloshed about in a large tank near the middle of the boat. Some were tackle-busting brutes measuring more than 40 inches long and 20 pounds. With their companions, they were headed for a holding pen and then a new home at yet-to-be-determined reservoirs on the eastern plains.

Over a period of nearly three hours, the wave-washed Colorado Division of Wildlife crew visited more than a dozen trap nets in a continuing battle against Spinney's run-amok pike. This marked the third trap run in a process that will continue through the current week, all in an effort to nab pike before they spawn yet another hungry generation.

"It doesn't do nearly as much good if we wait until they drop their eggs," Gerlich explained.

Gerlich and his associate, Kevin Rogers, are waging an almost desperate battle to curb Spinney pike in an effort to salvage what once was Colorado's finest trout fishery. It is a fight that some of their fellow biologists and most of the research literature tell them they cannot win.

They refuse to believe any of it and, if preliminary efforts are indicative, they may be at least partially right. Thus far, their nets have removed 98 pike of various sizes, mostly less than 20 inches, from the reservoir. When they calculate the vast number of progeny they managed to short-circuit, the impact becomes formidable.

When they have finished this phase of the plan, the great bulk of the pike surely will remain. At that point, they turn the battle over to fishermen, who are encouraged to harvest the pike they catch both at Spinney and neighboring Elevenmile reservoir.

This battle has three strategies: Net them out, catch them out and, ah, yes, starve them out. Faced with a statewide shortage of hatchery trout, Colorado's fish managers have adopted an austerity stocking plan that includes none for Spinney. With barely one-fourth of the disease-free catchable trout they need, biologists are loath to sacrifice any down a pike's gullet.

"Our strategy is to knock the pike back to a reasonable level so we can resume effective stocking," Gerlich explained.

Anglers must make do with a residue of trout from earlier years which, if the net results from the previous week are any indication, isn't at all a bad thing.

Gerlich, Rogers and a rotation of volunteers captured and released 132, virtually every one a legal fish under the lake's one-trout-over-20-inches limit. Most were rainbows in the 22-to 25-inch range. The good news is that, although the bite has diminished in recent days, plenty of big rainbows remain in the lake. The bad is that no generations of smaller fish exist to replace them.

Gerlich said it's foolhardy to stock subcatchable trout that become room-service delivery of bite-size sushi — at a cost of $2.30 per pound — to every pike 2 feet long or more. In fact, it can be argued that pike succeeded so sensationally in Spinney largely because they have been so royally fed.

"I know that a vast majority of every small trout we put in will wind up in a pike's gullet," Gerlich said.

Catchables apparently would fare no better. A high percentage of the large trout taken from the nets last week bore the teeth marks from pike attacks. Moreover, most of the captured pike were extremely lean, obviously hungry from a lack of forage.

Whether the great pike hunt proves successful won't be determined for months; much will depend upon angler resolve and success. Prime fishing time for pike begins in a couple of weeks and the fish remain in the shallows deep into June. If you have spare day, you might give it a try.

The Denver Post / **Charlie Meyers**

Greg Gerlich says he hopes the net results of his pike-removal program at Spinney will be fewer predators and more trout for anglers.

The Denver Post / **Charlie Meyers**

The 22-inch rainbow bears fresh tooth marks, proof that no Spinney trout is safe from pike.

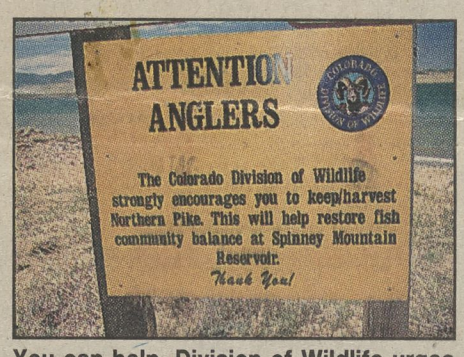
PIKE-O-RAMA

The Colorado Fishing Federation will help get pike out of Spinney with a Pike-O-Rama tournament May 7.

Two-person teams will compete for prizes ranging from $500 for first to $80 for fifth, based on total weight of a 10-fish limit.

Entry costs $30 per team at Box 17852, Colorado Springs 80935, or by entering at the lake on tournament day. For information, call 719-645-4435.

— Charlie Meyers



You can help. Division of Wildlife urges anglers to keep all the pike they catch.

QuickHits

THE RIGHT STUFF

In a lifetime along the Henry's Fork of the Snake River, Mike Lawson has accumulated a vast inventory of fly fishing knowledge, much of which he shares in a two-hour video, "Tying Flies for Spring Creeks and Tailwaters." Lawson goes far beyond tying basics, detailing the rationale and application of each pattern, all with the mellow wisdom that has been the trademark of his long angling career. It costs $19.95 from The Jack Dennis Fly Fishing Video Library, Box 4158, Jackson Hole, Wyo., 83001, phone 307-733-3253.

— Charlie Meyers

CALENDAR

■ **Today**: Joe Butler on catching big trout on flies, 7 p.m., Boulder Flycasters, University Club, University of Colorado campus, 303-661-0511.

Jan Hardy, Bill Miller and Holly Huyck on Clear Creek fishing conditions, 7 p.m., West Denver Trout Unlimited, Jefferson County Fairgounds Auditorium 3, W. 6th Avenue at Indiana. Call 303-759-4460.

■ **Saturday:** Randy Smith on flyfishing and backpacking Wyoming's Wind River Range, 10 a.m.-noon, The Hatch Fly Shop, 28055 Highway 74, Evergreen. Call 303-674-0482.

Ducks Unlimited, Loveland Chapter banquet, call Steve Peyton at 970-663-1427.

Demo day of tackle and personal watercraft, 9:30 a.m.-4 p.m., Front Range Anglers, 629-B S. Broadway, Boulder. Call 303-494-1375.

Outcast Day, demonstration of float tubes and pontoon boats, 10 a.m.-2 p.m., Blue Quill Angler, 1532 Bergen Parkway, Evergreen. Call 303-674-4700.

Mark Zandell Fly tying demo, 11 a.m.-2 p.m., River and Stream Co., Southglenn Mall. Call 303-794-7864.

Marty McCarthy casting clinic, 10 a.m., Rocky Mountain Anglers, 2539 Pearl St., Boudler. Call 303-447-2400.

■ **Sunday:** Joe Butler on catching big trout on flies, 1-4 p.m., Valley Country Sporting Goods, E. Quincy Avenue at Parker Road.

Mark Zandell fly tying demo, 1-4 p.m., River & Stream Co., Southglenn Mall. Call 303-794-7864.

■ **Monday:** Colorado Chapter Muskies Inc. awards party, 7 p.m., Pool Hall at Cherry Creek, 3253 S. Parker Road. Call 303-526-7418.

■ **May 11:** Jeff March on close-up scenic photography, 7 p.m., Aurora Anglers, Aurora Board of Realtors, 14201 E. Evans Ave. Call 303-752-1785.

PRIME TIMES FORECAST

The following table of fish-and-game feeding activity cycles has been prepared by Prime Times Forecast. "Prime" periods generally last 1½ to 3½ hours; "short" periods 45 minutes to 1½ hours. (Asterisks indicate periods of exceptional activity, with the more asterisks, the more intense and longer the activity.)

MAY

Date	Day	A.M. Short	A.M. Prime	P.M. Short	P.M. Prime
3	Wed	**5:44	**10:47	**6:10	**11:13
4	Thur	***6:33	***11:32	***7:00	***11:59
5	Fri	***7:30	—	****7:59	***12:35
6	Sat	**8:31	**1:11	**9:01	***1:41
7	Sun	*9:35	*2:19	*10:06	*2:50
8	Mon	10:39	3:30	11:09	4:00
9	Tue	11:43	4:38	—	5:07
10	Wed	12:12	*5:44	12:45	6:12

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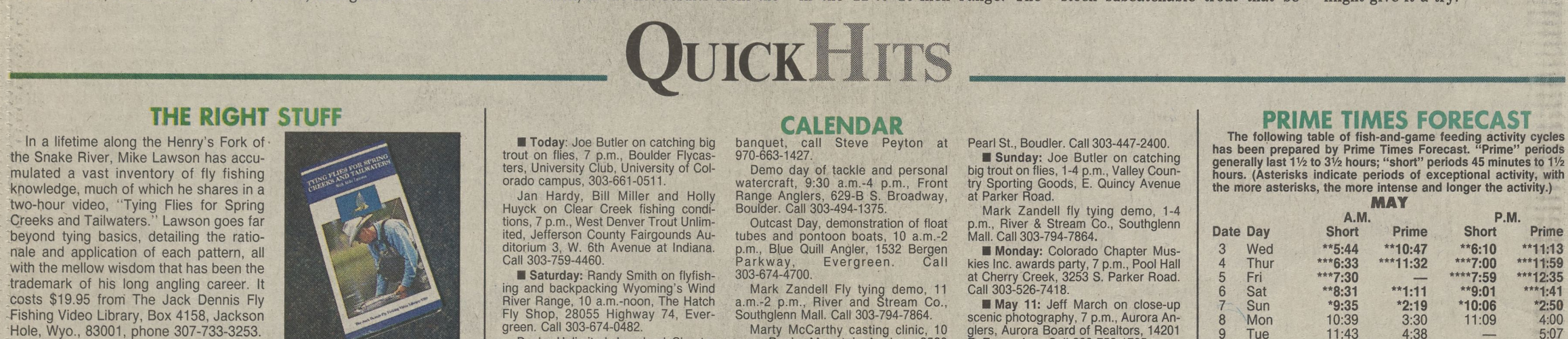

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GREELEY • 2707 23rd Ave. 970-330-2100
COLORADO SPRINGS • 3784 E. Pikes Peak Ave. 719-596-0500
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CSU's Spence leads MWC

Nigel Spence of Colorado State is the leader after two days of play at the 54-hole men's Mountain West Golf Championships in Palm Desert, Calif. Spence shot a 68 Tuesday for a 7-under-par 137 total and two-stroke lead over Scott Piercy of San Diego State. David Hearn of Wyoming is sixth at 142.

UNLV shot a 286 to hold onto the team lead with 566. The Rams (570) are second following their opening-day 287 with a 283. Brigham Young is third at 576, with Wyoming sixth (600) and Air Force eighth (620).

■ The Adams State men remain 16th after two days of play at the NCAA Division II West Regionals in Bakersfield, Calif. The Grizzlies are at 617, while UC-Colorado Springs is 15th with a 615. Cal State Stanislaus is first with a two-round 577.

■ The team of Tim Rudden and Carrol Moore of Sunset Golf Course teamed for a net 131 to win the Open Division of the Colorado Golf Association Net Four-Ball Tournament at the West Course at the Broadmoor G.C. The team of Val Walker of Centennial G.C. and Joe O'Toole of Bear Creek G.C. finished second with a net 132.

DATELINE ROCKIES

In the Senior Division, the team of Lowell Hegg of The Ranch C.C. and Bill Peterson of Indian Tree G.C. combined for a net 130 to earn a two-stroke victory.

■ The University of Denver men's team has signed two local products. Bryson Rintala of Arvada and Cody Eberl of Evergreen, both of whom played at Arvada West High School, will compete for the Pioneers next year.

Gregg Alpert, a senior at Cherry Creek High School, has signed a national letter of intent to play tennis at the University of Virginia.

The Colorado Springs Sky Sox were defeated by the Sacramento River Cats 9-2 at Colorado Springs. Rigo Beltran (0-2) pitched five innings, giving up four hits and three earned runs, as he took the loss for the Sky Sox.

The River Cats improved to 14-11, while the Sox fell to 14-9.

University of Denver alpine skier Martina Sailer is one of 353 student-athletes who have been selected to participate in the fourth annual NCAA Foundation Leadership Conference.

— Compiled by Matt Gerhart

TRANSACTIONS

BASEBALL
American League

TAMPA BAY DEVIL RAYS — Named **Scott Kelyman** general manager of St. Petersburg of the Florida State League.

Pacific Coast League

CALGARY CANNONS — Activated INF **Nate Rolison** and OF **Julio Ramirez** from the disabled list. Released INF **Enohel Polanco**. Sent INF **Matt Raleigh** to Utica of the New York-Penn League.

Northern League

DULUTH-SUPERIOR DUKES — Signed LHP **Jason Bond** and RHP **Jordan Romero**. Sold the contract of INF **Ruben Cardona** to Sioux City for an undisclosed sum of cash.

NEW JERSEY JACKALS — Signed P **Joe Bauldree**, P **John Mangieri**, C **Drue James** and INF **Ender Gonzalez**.

SCHAUMBURG FLYERS — Re-signed OF-1B **Jamie Lopiccolo** and OF **Harry Berrios**. Signed C **Dominick Lombardi**.

SIOUX FALLS CANARIES — Acquired LHP **Jay Veniard** from Madison for RHP **Eric Moore** and a player to be named. Signed INF **Mark Schlosser**, LHP Steve Hahn and LHP **Brian Justine**.

WATERBURY SPIRIT — Signed OF **Jason Herrick**.

FOOTBALL
National Football League

HOUSTON — Named **Joel Patten** college scout.

KANSAS CITY CHIEFS — Named **Bill Kuharich** director of pro personnel.

MIAMI DOLPHINS — Signed WR **Bert Emanuel** to a one-year contract.

SOCCER
Major League Soccer

NEW YORK-NEW JERSEY METROSTARS — Waived D **Mohammad Khakpour**.

GENERAL
Madison Square Garden

MSG FACILITIES — Promoted **Bob Russo**, executive vice president, to president of MSG facilities.

COLLEGE

KANSAS STATE — Suspended junior P-OF **Kelvin Day** and sophomore P **Luke Robertson** from the baseball team indefinitely for violating team rules.

TEXAS — Announced basketball junior G **Lawrence Williams** has left the team and will transfer to another school.

LATEST LINE

NHL PLAYOFFS
Today

Favorite	Line	Underdog	Line
at Detroit	-200	Colorado	+170
at New Jersey	-185	Toronto	+165

NBA PLAYOFFS
Today

Favorite	Line	Underdog
Utah (183)	1	atSeattle

Thursday

Favorite	Line	Underdog
at Indiana (192½)	6	Milwaukee

Sunday

Favorite	Line	Underdog
at Miami (169½)	4	New York

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SOCCER

MLS STANDINGS
All times MDT

Western Division	W	L	T	Pts	GF	GA
Kansas City	6	0	1	19	17	4
Los Angeles	5	0	2	17	15	6
Colorado	**3**	**4**	**0**	**9**	**8**	**16**
San Jose	2	3	2	8	10	10
Central Division						
Tampa Bay	4	4	0	12	15	11
Chicago	3	3	1	10	16	13
Columbus	3	3	1	10	10	14
Dallas	3	4	0	9	9	13
Eastern Division						
New York-New Jersey	2	5	0	6	8	13
Miami	1	2	4	7	5	6
New England	1	2	4	7	8	9
D.C. United	1	4	1	4	10	16

Friday's result
Chicago 5, Tampa Bay 1

Saturday's results
Kansas City 5, **Colorado 0**
Los Angeles 1, New York-New Jersey 0
Miami 1, New England 1
Columbus 2, Dallas 1
DC United 2, San Jose 2

Today's games
Columbus at DC United, 5:30 p.m.
Colorado at Chicago, 6:30 p.m.

AUTO RACING

NASCAR LEADERS

Winston Cup driver standings and money leaders through Sunday:

Points

1, Bobby Labonte, 1516. 2, Mark Martin, 1496. 3, Ward Burton, 1443. 4, Jeff Burton, 1396. 5, Dale Earnhardt, 1384. 6, Dale Jarrett, 1305. 7, Jeff Gordon, 1279. 8, Rusty Wallace, 1271. 9, Ricky Rudd, 1251. 10, Mike Skinner, 1194.

11, Tony Stewart, 1183. 12, Terry Labonte, 1182. 13, Bill Elliott, 1162. 14, Jeremy Mayfield, 1149. 15, Chad Little, 1098. 16, Matt Kenseth, 1096. 17, Sterling Marlin, 1050. 18, Ken Schrader, 1042. 19, Johnny Benson, 1034. 20, John Andretti, 999.

Money

1, Dale Jarrett, $3,098,159. 2, Jeff Burton, $2,947,784. 3, Bobby Labonte, $1,144,611. 4, Rusty Wallace, $1,112,701. 5, Mark Martin, $1,091,736. 6, Bill Elliott, $1,081,741. 7, Ward Burton, $915,976. 8, Tony Stewart, $906,791. 9, Dale Earnhardt, $850,841. 10, Jeff Gordon, $847,496.

11, Dale Earnhardt Jr., $812,361. 12, Terry Labonte, $795,439. 13, Ricky Rudd, $725,621. 14, Jeremy Mayfield, $714,271. 15, Mike Skinner, $713,756. 16, Matt Kenseth, $688,971. 17, John Andretti, $615,886. 18, Sterling Marlin, $610,851. 19, Kenny Irwin, $607,676. 20, Kevin Lepage, $598,546.

COLLEGE BASEBALL

WEST
George Fox 6, Cal St.-Hayward 4

MIDWEST
Michigan 3, Oakland, Mich. 2
Minn.-Mankato 2-2, Grand View 1-6
Wichita St. 7, Kansas St. 2
Wis.-Stout 15, Concordia, St.P. 13

SOUTH
Appalachian St. 10, Tennessee Tech 4
Berry 7, Lipscomb 6
Elon 7, East Carolina 5
N.C.-Asheville 10, Wofford 4
Tennessee 9, Tusculum 2

EAST
Bentley 10, Merrimack 3
Fairfield 5, Rhode Island 4
Gannon 8, Edinboro 9
Gettysburg 13, Albright 12
Marist 13, Fordham 4
Massachusetts 17, Siena 0
Mass.-Dartmouth 6, Bridgewater, Mass. 5, 13 innings
Montclair St. 16, Johns Hopkins 10
Pace 10, Cent. Connecticut St. 7
Ramapo 14, FDU-Madison 6
Rutgers 11, Delaware 4
Salem St. 14, W. New England 4
St. Francis, N.Y. 3, Stony Brook 2

MINOR LEAGUE BASEBALL

PACIFIC COAST LEAGUE
American Conference

Central Division	W	L	Pct.	GB
Colo. Springs (Rockies)	**14**	**9**	**.636**	**—**
Albuquerque (Dodgers)	13	13	.500	2½
Omaha (Royals)	11	15	.423	5
Iowa (Cubs)	7	18	.280	8½
Eastern Division				
Memphis (Cardinals)	17	9	.654	—
Oklahoma (Rangers)	15	10	.600	1½
Nashville (Pirates)	13	12	.520	3½
New Orleans (Astros)	11	14	.440	5½

Pacific Conference

Southern Division	W	L	Pct.	GB
Las Vegas (Padres)	13	8	.619	—
Sacramento (Athletics)	14	11	.560	1½
Tucson (Diamondbacks)	11	11	.500	2½
Fresno (Giants)	9	14	.391	5½
Northern Division				
Salt Lake (Twins)	16	10	.615	—
Tacoma (Mariners)	12	12	.500	3
Edmonton (Angels)	9	10	.474	3½
Calgary (Marlins)	8	17	.320	7½

Monday's result
Omaha 3, Iowa 2

Tuesday's results
Sacramento 9, **Colorado Springs 2**
Iowa 4, Oklahoma 2
New Orleans 3, Omaha 2
Fresno 8, Albuquerque 7
Memphis 8, Calgary 7
Edmonton 4, Nashville 1
Tacoma 9, Salt Lake 1
Tucson at Las Vegas, (n)

Today's games
Sacramento at **Colorado Springs**
Fresno at Albuquerque
Memphis at Calgary
Nashville at Edmonton
Oklahoma at Iowa
Omaha at New Orleans
Tacoma at Salt Lake
Tucson at Las Vegas

RIVER CATS 9, SKY SOX 2

Sacramento	000 301 212	— 9 11 2
Colo Springs	001 000 100	— 2 7 1

Zito, Gajkowksi (7), Harville (9) and Hinch; Beltran, Small (6), Walker (7), Lee (9) and Strittmater. **W** — Zito (2-2). **L** — Beltran (0-2). **HR** — None. **A**— 2,407. **T** — 3:05.

ROCKIES' ORGANIZATION

Sunday's results
AA: Orlando 6, **Carolina 1**
A: **Salem 2,** Wilmington 1
A: **Asheville 6**, Charleston (S.C.) 2

Monday's results
AA: Orlando 4, **Carolina 3,** 10 innings
A: No **Salem** game scheduled
A: Columbia 5, **Asheville 4**

Tuesday's results
AA: **Carolina 5**, Orlando 3
A: **Salem 4**, Kinston 3
A: **Asheville 10**, Capital City 4

Today's games
AA: Orlando at **Carolina**
A: **Salem** at Kinston
A: Capital City at **Asheville**

SKY SOX SCHEDULE

Today	Sacramento, 11:35 a.m.
Thursday	Sacramento, 7:05 p.m.
Friday	Sacramento, 7:05 p.m.
Saturday	at Albuquerque, 7:05 p.m.
May 7	at Albuquerque, 1:05 p.m.
May 8	at Albuquerque, 7:05 p.m.

TENNIS

BMW OPEN 2000
At Munich, Germany
Singles
First round

Younes El Aynaoui (2), Morocco, def. Arnaud di Pasquale, France, 7-5, 6-4.

Jonas Bjorkman, Sweden, def. Andrei Medvedev (5), Ukraine, 6-0, 2-6, 6-4.

Gaston Etlis, Argentina, def. Goran Ivanisevic, Croatia, 7-6 (3), 6-1.

Fernando Meligeni (6), Brazil, def. Marc Rosset, Switzerland, 6-3, 4-6, 6-3.

Max Mirnyi, Belarus, def. Mariano Zabaleta (4), Argentina, 6-7 (4), 6-3, 7-5.

Bohdan Ulihrach, Czech Republic, def. Filip Dewulf, Belgium, 6-3, 6-1.

Tommy Haas (3), Germany, def. David Prinosil, Germany, 6-1, 4-2, retired.

Jiri Novak, Czech Republic, def. Rainer Schuttler, Germany, 6-1, 3-2, retired.

Slava Dosedel (8), Czech Republic, def. Oliver Gross, Germany, 6-3, 6-2.

Federico Browne, Argentina, def. Tomas Behrend, Germany, 4-6, 6-4, 7-6 (3).

Ivan Ljubicic, Croatia, def. Andy Fahlke, Germany, 6-3, 6-4.

BETTY BARCLAY CUP
Hamburg, Germany
Singles
First round

Anne-Gaelle Sidot, France, def. Marlene Weingaertner, Germany, 5-7, 6-2, 7-6 (3).

Amanda Coetzer (8), South Africa, def. Ruxandra Dragomir, Romania, 6-0, 6-4.

Irina Spirlea, Romania, def. Natasha Zvereva, 6-2, 6-3.

Amanda Hopmans, Netherlands, def. Magui Serna, Spain, 6-4, 6-4.

MALLORCA OPEN
At Palma De Mallorca, Balearic Islands
Singles
First round

Albert Portas, Spain, def. Andrea Gaudenzi, Italy, 6-2, 6-2.

Marat Safin (4), Russia, def. Adrian Voinea, Romania, 6-4, 7-6 (4).

Mikael Tillstrom, Sweden, def. Francisco Clavet (7), Spain, 6-4, 6-3.

Juan Ignacio Chela, Argentina, def. Magnus Gustafsson, Sweden, 4-6, 7-5, 6-3.

Galo Blanco, Spain, def. Orlin Stanoytchev, Bulgaria, 6-1, 6-4.

Carlos Moya (5), Spain, def. Marc-Kevin Goellner, Germany, 6-3, 6-4.

Christian Ruud, Norway, def. John van Lottum, Netherlands, 6-3, 6-2.

Juan Antonio Marin, Costa Rica, vs. Jacobo Diaz, Spain, 7-6 (2), 6-3.

BOL LADIES OPEN
At Bol, Croatia
Singles
First round

Silvija Talaja (4), Croatia, def. Cristina Torrens-Valero, Spain, 6-3, 6-0.

Virginie Razzano, France, def. Ivana Abramovic, Croatia, 6-2, 6-1.

Gala Leon-Garcia, Spain, def. Ainoha Goni, Spain, 6-3, 6-3.

Paola Suarez (7), Argentina, def. Nuria Llagostera, Spain, 6-2, 6-1.

Katarina Srebotnik, Slovenia, def. Adriana Gersi, Czech Republic, 6-0, 6-3.

Nadeja Ostrovskaya, Belarus, def. Kristie Boogert, Netherlands, 6-4, 6-4.

Tina Pisnik, Slovenia, def. Patricia Wartusch, Austria, 6-1, 6-0.

Jelena Kostanic, Croatia, def. Magdalena Maleeva, Bulgaria, 6-3, 6-0.

Emmanuelle Gagliardi, Switzerland, def. Tina Krizan, Slovenia, 6-2, 2-6, 6-3.

Doubles
First round

Julie Halard-Decugis, France, and Corina Morariu, United States, def. Eva Dyrberg, Denmark, and Nadeja Ostrovskaya, Belarus, 6-2, 6-3.

Eugenia Koulikovskaya, Russia, and Petra Mandula, Hungary, def. Marta Marrero, Spain, and Melanie Schnell, Austria, 6-2, 6-7, 7-6.

Kristie Boogert and Miriam Oremans, Netherlands, def. Eva Martincova, Czech Republic, and Cristina Torrens-Valero, Spain, 6-2, 6-2.

Gala Leon Garcia and Arantxa Sanchez Vicario, Spain, def. Magdalena Maleeva, Bulgaria, and Silvija Talaja, Croatia, 7-5, 6-1.

Jelena Kostanic, Croatia, and Tina Pisnik, Slovenia, def. Cara Black, Zimbabwe, and Irina Seljutina, Kazakstan, 6-1, 6-3.

Tina Krizan and Katarina Srebotnik, Slovenia, def. Julie Pullin, Britain, and Mariam Ramon, Spain, 6-2, 6-3.

GOLF

MEN'S MOUNTAIN WEST CHAMPIONSHIPS
At Palm Desert, Calif.
Nicklaus Tournament Course
Second round
6,921 yards, par 72

Team (par 576)	
1. UNLV	280-286—566
2. Colorado State	**287-283—570**
3. BYU	296-280—576
4. New Mexico	296-288—584
5. San Diego State	308-286—594
6. Wyoming	**302-298—600**
7. Utah	308-297—605
8. Air Force	**309-311—620**
Individual (par 144)	
1. Nigel Spence, Colo. St.	**69-68—137**
2. Scott Piercy, San Diego St.	71-69—139
3. Michael Kirk, UNLV	70-70—140
(tie) Scott Lander, UNLV	68-72—140
5. Jeremy Anderson, UNLV	70-71—141
6. David Hearn, Wyoming	**70-72—142**
7. Andy Miller, Brigham Young	73-70—143
(tie) Scott Miller, Brigham Young	75-68—143
(tie) Dallas Massey, Colo. St.	**72-71—143**
10. Billy Harvey, Brigham Young	72-72—144
Other CSU scores	
11. (tie) Darrin Overton	74-71—145
18. (tie) Robby Stephenson	72-76—146
24. (tie) Tommy Sharp	77-73—150
Other Wyoming scores	
21. (tie) Jacob Hunter	77-72—149
28. Reid Lende	73-79—152
36. Mike Urbatchka	84-76—160
(tie) Kevin Kayden	82-78—160
Air Force scores	
29. Danny Visosky	75-78—153
32. Jeff Scohy	82-74—156
33. Chris Dieter	76-81—157
35. Ben Leestma	81-78—159
40. Matt Sakowitz	77-78—165

FISHING/STOCKING REPORT

The following fishing report was compiled by the Colorado Division of Wildlife. The division has several 24-hour-a-day recordings available to provide the latest in fishing condition reports and stocking information. For information, call 291-7299 or, on the Web page, at www.dnr.state.co.us/wildlife.

■ The Master Angler Award Program is designed to recognize anglers who catch fish of trophy size, as well as to promote the wise use and conservation of those trophy fish. For entry forms and more information call or write to the Master Angler Award Program, Colorado Division of Wildlife, Aquatic Section, 6060 Broadway, Denver 80216; (303) 297-1192. The following are this week's additions to the award program (listing angler, residence, species caught and where, length in inches and whether it was kept or released):

Jody Pruitt, Dolores, walleye, Totten Reservoir, 30, kept.

FISHING CONDITIONS
CENTRAL

Aurora Reservoir — Water level; rising; open for boating; still mainly trout being caught; most action along the dam either from shore or boats using Power Bait or nightcrawlers; anglers are also reporting good action casting Rooster Tail, Kastmaster and Tasmanian Devil lures from shore along the shorelines in the back coves; bass action picking up; best on soft plastics or Rapala lures; some perch action reported, mostly on worms in 10-20 feet of water; slow for wiper and walleye. **Barr Lake** — Water level full; clear; 51 degrees; boat ramp open; fair action for trout using typical baits from shore; some sporadic walleye action being reported by the boaters; all other species reported as slow; boating restricted to 10 horsepower or less or electric motors only. **Berkeley Lake** — Fair to good action for stocker rainbows; best on minnows or Power Bait. **Centennial Park Lake** —Fair trout action on live minnows or Power Bait. **Chatfield Reservoir** — Open for boating; use caution; control buoys are still not fully in place; water temperature 49 degrees; fishing action for trout is picking up; camping reservations are available. **Cherry Creek Reservoir** — Open for boating; use caution as water temperatures are cold; currently 50 degrees; fishing has been fair to good for trout using typical baits or casting spinners near the tower; some crappie action reported using small jigs near the tower or marina area; few small and largemouth bass being caught in the shallows along the south west side on small spinnerbaits or large trout spinners; slow for all other species; marina open. **Evergreen Lake** — Recently stocked; fair action for catchable rainbow trout. **Jim Baker Reservoir** — Fishing reported as slow to fair for catchable rainbow trout. **Quincy Reservoir** — Water level high; clear; trout action good using assorted spinners, Kastmaster lures or dark colored Woolly Bugger flies; perch action starting up; most being caught on small jigs in 20-25 feet of water; bass action picking up; most action in 15-20 feet of water around structure; best action being reported on pig & jig combinations for bass; slow for the muskie; should start picking up as the water temperatures warm. **Sloans Lake** — Fair action for catchable rainbow. **South Boulder Creek** — Flows increasing; fishing slow. **South Platte River** — (Deckers) Current flow at 319.0 CFS (cubic feet per second); the river is up a little, but fishing well; good trout action reported; seeing some midge and BWO hatches; best action on Olive Pheasant Tail, Brassie, Flashback Pheasant Tail, sparkle Midge and RS2 fly patterns. **Washington Lake** — Some reports of rainbow trout still being caught on Power Bait or minnows; crappie action just starting to pick up, but so far it's been slow for all other species.

NORTHEAST

Barbour Ponds — Fishing fair to good for typical stocker trout with Power Bait, salmon eggs and worms; slow for all other species. **Bellaire Lake** — Fishing slow to fair on Power Bait, eggs and worms; metal lure action fair; best results on Little Cleos, Super Dupers and Kastmasters; no fly action yet. **Big Creek Lakes** — Iced; fair to good; access is difficult. **Big Thompson River** — Current flow at 90.0 CFS; fishing is good to fair with bait where permitted; good with Mepps yellow Black Fury and Panther Martin yellow with red spots; fair to good action fishing using beadhead Damsel or Beadhead Drake nymphs and Flash-A-Bou Olives on the upper quality water; good on Peacock Caddis, Solomon Caddis and Green Humpy; fair to good on small silver Panther Martins, Colorado Spinners, or Mepps lures below Estes Dam. **Boyd Lake** — Water level good; current temperature 54 degrees; some walleye action being reported; not a lot of walleye being reported, but a few nice ones being caught; best action on minnows and a small jig; some perch action also reported on small jigs and minnows; trout action poor; slow for all other species. **Carter Lake** — Water level good; fishing fair for trout using Power Bait, minnows, worms; fair to good on Thomas Buoyant, Andy Reeker and little Cleo spoons. **Chambers Lake** — Fair to rotten ice, many soft spots; not recommended for ice fishing; open water around the edges; fishing slow to fair; most action on bait. **Cowdrey Lake** — Fishing fair; best on salmon eggs; some action on Kastmasters, Tasmanian Devils and Super Duper lures; some action on Woolly Buggers, Electric Leeches and Hornbergs. **Douglas Lake** — Fishing fair for perch using small marabou jigs, doll fly and mini jigs; fair for recently stocked rainbows with Streamers, shrimp and scud pattern flies; metal lure action slow. **Hohnholz Lakes** — Open water; fishing fair on No. 2 using worms or Power Bait; fair on No. 3 using Buoyant, Tasmanian Devils and Cyclone lures; fly action slow with some results on Hornberg, Woolly Buggers and Halfback fly patterns. **Jackson Lake** — Jackson Reservoir is closed to all water based activities such as fishing and boating; Jackson Lake State Park remains open for camping, wildlife watching and other outdoor recreation activities; the lake will remain closed to public use until a lease agreement is reached; there is no scheduled re-opening date. **Joe Wright Reservoir** — Fair to rotten ice; except at the inlet area; use extreme caution if ice fishing; slow to fair on Ice Critters, small Kastmaster lures and Swedish Pimples; little open water around the edges, but hard to fish yet. **Lake Estes** — Fishing fair to good on bait and small spoons, such as, Kastmaster, Kamlooper and Hot Shots; best action near the inlet. **Lake John** — Fishing slow to fair with Thomas Buoyant, Tasmanian Devils and Little Cleo lures; fair to good on Power Bait and salmon eggs; fair to good trolling with Sebago Bolo or Pop Geer tagged with a Rapala, Kastmaster or nightcrawler. **Laramie River** — On the Honholz SWA — flow at 70.0 CFS; fishing fair to good on Matuka streamers, stoneflies, black halfbacks, Panther Martin, Vibrax and Mepps Black Fury lures; roads in the area may be muddy. **North Delaney Lake** — Fishing best on northeast side and west shoreline from bellyboats using shrimp and scud pattern flies. **North Michigan Lake** — Poor to rotten ice; with water on top in some places; remaining ice unsafe; some openings around the edges, but not enough to fish. **North Park Streams** — Flow on the Illinois 32.0 CFS; Michigan 35.0 CFS; North Platte 1,100.0 CFS and roily; fishing fair to good with Panther Martins, Mepps Black Fury and Rooster Tail lures; fair action on Hellgrammite, Black Half Back and brown or black Stonefly nymphs. **North Sterling Reservoir** — Open to boating; water temperature 50 degrees; water level is full and filling; watch for floating debris; good action for trout and crappie being reported; wiper action has bee fair and is improving daily; walleye and catfish action has been slow, but is coming on; marina store is now open daily; Elks campground open; Inlet and Chimney View campgrounds closed until May 1. **Poudre River** — Water flow at 195.0 CFS; low end a little roily, upper part still clear; fishing fair to good with Stonefly, beadhead Prince, Zug Bug, Flash-A-Bou Olive, tent wing caddis; Peacock Caddis, red or royal Humpy, Quill Gordon and Float-n-Fool dry fly patterns; fair to good on Panther Martins, Mepps Black Fury, Vibrax and Rooster Tail lures; fair to good success with Power Bait, eggs and worms where permitted. **Prewitt Reservoir** — The Colorado Division of Wildlife and the Prewitt Operating Committee agreed last week to a two-month lease extension that will keep the Prewitt Reservoir State Wildlife Area open for public use through the month of August. The Division of Wildlife's previous lease on the property was set to expire on June 30. Details about negotiations for a future lease beyond Aug. 31 will be made public when finalized. **Ranger Lakes** — Much snow in the area; fair to marginal ice. **Seymour Reservoir** — Winter kill. **Slack Weiss Reservoir** — Opening; remaining ice unsafe; fishing fair to good on Power Bait, worms or Panther Martin or Mepps spinners. **South Delaney Lake** — Fishing fair on Tasmanian Devils, Cyclones and Kastmaster lures; fair to good on shrimp, scud or Woolly Bugger flies patterns. **St. Vrain River** — Flow at 75.0 CFS; fair to good action on Flash-A-Bou, green or olive Hare's Ear and brown Stonefly nymphs; fair on tent wing and Elk Hair Caddis; fishing fair to good on Fireballs, Power Bait and worms. **Teal and Tiago Lakes** — Fair to rotten ice; use caution; access is difficult; fishing fair to good using Wazp, Ice Critters or mealworms and eggs. **Watson Lake** — Fishing fair; with best results on Power Bait, Fireballs and crawlers; some action on Tasmanian Devils, Thomas Buoyant, Super Duper and Cripplure lures; slow to fair on bait; fair to good on Royal Coachman, Renegade and Spruce fly streamers. **West Lake** — (Red Feather) Fishing slow to fair on bait of all kinds; slow to fair with gold or silver Kastmaster, Krocodiles and Super Duper lures.

SOUTHEAST

Adobe Creek Reservoir — (Blue Lake) Water level high; the boat ramp is in poor condition because of high water; we are unsure of a repair date; some crappie action starting up; should continue to improve as area weather temperatures warm; slow for all other species; NOTE: The private land on the west side (near the inlet) and on the north side are fenced off. The landowners do not want anyone in these areas that do not have permission. **Antero Reservoir** — Lake is reported as open water; open for boating; so far, fishing has been fairly slow because of cold water; should start picking up with just a small warming trend. **Arkansas River** — (Salida) Current flows are at 500.0 CFS at Wellsville; flows have stabilized over the past couple of days; river is stained, but fishable; better action near the edges; the caddis hatch is reported all the way to Buena Vista; good numbers of caddis in the Salida to Buena Vista area; good BWO hatches over the weekend from Texas Creek up. **Bonny Reservoir** — Water level fair; open for boating; boats 18 feet and under can be launched from the south shore, 2-lane ramp, boats 19 feet and over can be launched more easily from the ramp in the North Cove; watch for unmarked shallow water hazards; surface water temperature 53 degrees; Bonny Dam Marina open; some crappie and largemouth action being reported; spotty walleye action now, mainly from boats. **Brush Hollow Reservoir** — Still reporting good action for stocker size rainbow trout; few larger also being reported caught; some action reported for small crappie, bluegill and bass. **Clear Creek Reservoir** — Open water; open for boating; water level low, but rising slowly; should see increasing water levels with spring run-off; fishing reported as fair to good for rainbow trout; best action near the inlet area. **Elevenmile Canyon** — Current flow at 140.0 CFS; seeing some midge and Blue Wing Olive hatches; best action on BWO No. 18-22, PMD 18-22, Beadhead Pheasant Tails No. 16-18, Flashback Pheasant Tails No. 18-20, Olive Pheasant Tails No. 18-20, Buckskins No. 16-20 and RS2 fly patterns. **Elevenmile Reservoir** — The lake has opened up completely and both boat ramps are open; trout action has been good along the east shoreline or in the cove at Witchers; Lazy Boy and the North ramp, Rogers Mountain and Rocking Chair areas are also reporting good action for trout; kokanee and pike action have been slow; best action early in the morning and late in the day. **John Martin Reservoir** — Water level good; saugeye action slow to fair at best; seems to have slowed down compared to the past couple of weeks; crappie and wiper action seems to be starting to pick up; more reports of crappie and wiper being caught than saugeye; few reports that the catfishing has also started to pick up. **Lathrop State Park** — (Martin Lake and Horseshoe Lake) Water level at Horseshoe is rising; both ramps are open on Horseshoe Lake; temperature 50 degrees; trout action good on Martin Lake; fishing at Horseshoe is reported as slow. **Monument Lake** — (north of Colorado Springs) Fair action for fishing; rainbow and Snakeriver Cutthroat are hitting on Kastmaster, Mepps, Daredevil and Panther Martin lures; bait fishermen are doing well on Power Bait, salmon eggs and worms; few small catfish being caught on worms. **Nee Grande Reservoir** — Water level high; water temperature 54 degrees; warming; fishing picking up for saugeye; fair action for saugeye on leadhead jigs and Mr. Twister Tails; wiper and crappie has been slow; few reports of crappie and wiper action picking up; should continue to pick up in the next couple of weeks. **Nee Noshe Reservoir** — Water level high; water temperature 54 degrees; warming with recent area weather; few reports of wiper and crappie action starting to pick up; fishing slow for saugeye. **Pueblo Reservoir** — High water level; some access roads maybe closed; lots of debris in the lake, watch for hazards; still reporting some walleye action; trout action picking up; catfish action slow; slow for all other species; marinas are open; campgrounds are open. **Ramah Reservoir** — Overall fishing slow; reporting some action on pike; most northern pike being caught on spinners or spoons. **South Platte River** — (Between Spinney and Elevenmile) flows at 220.0 CFS; 89.0 CFS above the reservoir; overall fishing action slow; some rainbow and cutthroat trout action. **Tarryall Reservoir** — Open water; fair to good action for trout depending on the local weather; most action near the dam or inlet areas; best action on typical baits or casting Kastmaster, Mepps or Panther Martin lures along the shorelines. **Trinidad Lake** — Water level high; 1,417 surface acres; temperature 46 degrees; clear; because of high water level at Trinidad Lake, it may be difficult to launch larger boats; fishing has been good for trout from the boat ramp area, south shore and in the Reilly Canyon area using red Power Bait, gold or silver Kastmaster lures or Pistol Petes; some fair action reported for catfish using chicken livers; all other species reported as slow. **Twin Lakes** — Ice off completely; open water; fair to good boating; water level good; clear; rainbow trout action doing fair to good; shore fishing best on typical baits rigged to float just off the bottom; boat anglers doing best on flashers trailing a nightcrawler or small silver lure; mack action should be picking up soon.

SOUTHWEST

Blue Mesa Reservoir — Open for boating; the Lake Fork, Iola and Elk Creek boat ramps are open; brown action reported as fair to good; rainbow trout action reported as fair and improving; slow to fair action for kokanee; no recent reports for large lake trout being caught; lake trout action should be picking up soon. **Crawford Reservoir** — Both campgrounds are running; both boat ramps are open and docks are in place; water temperature 55 degrees; cold; fair to good action for pike, crappie, bass and catfish. **McPhee Reservoir** — Trout action fair using standard baits; trolling also producing trout using flashers trailing a nightcrawler; fair action trolling in the channel north of the House Creek inlet; kokanee action slow to fair trolling Pop Geer trailing assorted lures; large and smallmouth bass action slow; should be picking up with warming temperatures; good areas to try for bass are in the Beaver Creek inlet area and Sage Hen Fishermen Access area near any type of structure **Navajo Reservoir** — The parks office is reporting the water level good; only 15 feet from full; temperature 50 degrees; boat ramps available; fishing reported as fair for catfish near the river mouths; fair to good action reported for trout; slow for all other species; marina is open. **Paonia Reservoir** — There is no water to speak of in Paonia Reservoir; what water is near the dam is muddy from run-off; some trout being caught on streamers, on the river below the dam. **Ridgway Reservoir** — Water level full; current surface temperature 55 degrees; open for boating; watch for hazards; fishing fair from the bank for stocker size rainbows; fair action for the large browns; not a lot of browns being reported, but the ones that are being caught have been good sized. **Rio Grande River** — The flows have increase to about 1,100.0 CFS near Wagon Wheel Gap; the river is now colored and muddy; fishing slow; midges are the most predominant hatches at this time of year; look for BWO hatches during the overcast days. **Taylor Reservoir** — Reports that remaining ice conditions are deteriorating; seeing some open fishable water near the inlet areas. **Taylor River** — (Below Taylor Dam) clear conditions; fishing action reported as fair to good using midge, flashback, RS-2 and egg pattern flies. **Uncompahgre River** — (Below Ridgway Reservoir) Trout action on the river below the dam has been good; most action on nymph pattern flies. **Vallecito Reservoir** — Open for boating; water level good; trout action reported as fair to good either trolling flashers or using typical baits from shore; few reports of pike action starting to pick up in the shallows; all other species reported as slow.

NORTHWEST

Bear Lake — (Yampa Area) Road access snowed in at the Forest Service boundary; edges and inlet area opening up. **Blue River** — Current flow at 118.0 CFS and fairly steady below Dillon Reservoir; down river flows pick up to about 200.0 CFS; seeing some midges and Baetis; best patterns No. 16 mysis shrimp, No. 18-22 Pheasant Tail, No. 20 Griffith's Gnats or Baetis patterns. **Colorado River** — (Near Kremmling) River is running about 1,200.0 CFS at Kremmling; 2,800.0 CFS in Dotsero; 3,500.0 CFS in Glenwood; with the warmer weather the river is starting to turn off-colored; seeing good numbers of BWO on over casted days; caddis are starting to hatch; good nymph action. **Connected Lakes** — Water temperature 53 degrees; boating restricted to hand powered or electric motor only; fishing reported as fair for bass, crappie and bluegill; slow for catfish; better action on warmer days. **Corn Lake** — Water temperature 52 degrees; fishing reported as good for trout on green or yellow Power Bait or spinners. **Eagle River** — Current flow near Avon has been about 800.0 CFS; running about 800-900.0 CFS at Gypsum; water temps are warming up; river has been muddy and fishing slow below Wolcott; Baetis imitations in small sizes and Midges are out; good chances for dry fly action on cloudy days on both Baetis and midge patterns; some green caddis larva working in deep holes. **Elk Head Reservoir** — Open water; docks are in; water level rising; should be fair to good fishing until the spring runoff muddies up the reservoir. **Frying Pan River** — Current flow around 212.0 CFS and should remain constant through May; still mostly midges being seen; some Baetis and caddis beginning to appear; best action on WD 40s, RS2s, Pheasant Tails and copper Bead Baetis nymphs. **Gore Creek** — Flow is about 125.0 CFS at Red Sandstone Creek and around 210.0 CFS at the Eagle confluence; water levels rising; some slight discoloration during the day; mostly midge action; some Baetis on cloudy days. **Granby Reservoir** — Recently iced off; open water; open for boating; trout action slow to fair; has not received a lot of fishing pressure because of recent ice off. **Green Mountain Reservoir** — Reported as open water; no current information on water levels or fishing reports. **Harvey Gap Reservoir** — the reservoir is at capacity and anglers are having tremendous success trout fishing; worms and silver spinners are work best; some pike action being reported; open for boating; surface temperature 40 degrees. **Highline Lake** — Anglers are doing well on using spinners or worms; stocking has started with Snake River cutthroats. **Island Acres** — Restricted to hand propelled and electric trolling motors only; fishing action reported as good for trout on typical baits and spinners; best action on salmon eggs and any type of gold spinner. **Mack Mesa Lake** — Fishing reported as picking up; fair for trout on spinners or worms. **Muddy Creek** — (below Wolford Reservoir) Slow to fair action on Brassies, beadhead Prince, Buckskins and Humpy pattern flies; slow to fair results casting Panther Martin, Mepps or Rooster Tail lures. **Pearl Lake** — Still reported as 98% ice covered; ice conditions rotten; unsafe for fishing. **Rifle Gap Reservoir** — Water level full; water temperature 50 degrees; fishing has been good for trout and walleye in the evenings between the dam and the parking lot. **Roaring Fork River** — Flow at Glenwood Springs 1,550.0 CFS; from Avon to Carbondale the river is clear and fishing well; from Carbondale to Glenwood the river has been varying from day to day; best action on Baetis Mayfly patterns or small stoneflies, Halfbacks, glo bugs, prince nymphs, buckskins and midge larva. **Shadow Mountain Reservoir** — Iced off; open water; open for boating; the reservoir has not received a lot of fishing pressure due to recent ice off; generally fishing action reported as fair for rainbow trout from shore using typical baits. **Stagecoach Reservoir** — Open water; water level down 11 feet; boat with caution as the water temperatures are extremely cold; temperature 47 degrees; trout and pike action improving daily; fair to good action being reported from the boat and shore anglers; good trout action reported fishing salmon eggs or nightcrawlers rigged below a split shot and cast into the current at the inlet area. **Steamboat Lake** — Ice off occurred April 29; the Meadow Point access has been opened to the public; there may still be floating ice packs on the lake so caution is advised if you are boating; limited campsites should be available for the weekend of May 5. **Stillwater Reservoir** — Road access snowed in at the Forest Service boundary. **Sylvan Lake** — Ice conditions reported as soft. Wolford Reservoir — Open water; open for boating; water level good; clear; boat ramp in the water; fishing good for trout; good on Woolly Buggers with a casting bubble, casting black and silver spinners, or fishing with salmon eggs from shore. **Yamcolo Reservoir** — Road access still snowed in at the Forest Service boundary; few reports of ice breaking out along the shorelines.

STOCKING REPORT

The following waters have been stocked by the Colorado Division of Wildlife. The water is listed first, then the county.

Aurora Reservoir, Arapahoe; Barbour Pond, Weld; Blanca Wildlife Area Ponds, Alamosa; Cherry Creek Reservoir, Arapahoe; Corn Lake, Mesa; Evergreen Reservoir, Jefferson; Hasty Lake Dam, Bent; Home Lake, Rio Grande; Kenney Reservoir, Rio Blanco; Milavec Reservoir, Weld; Rifle Pond, South, Garfield; San Luis Lake, Alamosa; Smith Lake, Delta; Stabilization Reservoir, Costilla.

DOG RACING: CLOVERLEAF GREYHOUND RESULTS/ENTRIES

TUESDAY'S MATINEE

FIRST - CC, Grade D

Dog	PP	Off	St	Fin	Time	Odds
Kb's Sugar Ray	7	3	2	1	31.61	0.80
Susan Lucci	5	2	1	2	31.68	6.00
Ll Been There	6	7	5	3	32.07	20.10
Cleos Fast Gina	1	1	4	4	32.10	6.10
Ts Bird Da Word	3	4	3	5	32.16	4.50
Hartland Wizard	2	6	6	6	32.48	7.20
Rodeo Sidekick	8	8	7	7	32.77	16.20
Ndak One Eighty	4	5	8	8	33.48	18.00

Kb's Sugar Ray 3.60 2.60 2.80
Susan Lucci 5.20 5.00
Ll Been There 11.00
Quiniela (5-7) $13.20
Trifecta (7-5-6) $135.80
Superfecta (7-5-6-1) $489.20

SECOND - CC, Grade C

Dog	PP	Off	St	Fin	Time	Odds
Ico Whitewater	2	2	2	1	31.65	1.10
Free Hand	8	5	1	2	31.77	19.80
Em's Hurricane	3	1	3	3	31.82	8.30
Beams Rendezvs	1	3	5	4	31.93	5.20
Dj's Loafer	4	8	4	5	32.04	4.40
Pg Autmn Dance	6	7	7	6	32.34	12.00
Dancer Buffy	5	4	6	7	32.67	7.00
Tv Envoy	7	6	8	8	32.68	15.70

Ico Whitewater 4.20 2.80 2.80
Free Hand 8.00 6.40
Em's Hurricane 2.80
Quiniela (2-8) $39.20
Exacta (2-8) $61.80
Superfecta (2-8-3-1) $1,803.00
Daily Double (7-2) $13.00

THIRD - CC, Grade M

Dog	PP	Off	St	Fin	Time	Odds
Jar Jar Binks	4	1	2	1	31.88	1.00
Kottonmothqeen	3	2	1	2	32.08	2.50
Ww Fast Ira	7	5	5	3	32.40	19.30
Mr's Atchison	2	6	3	4	32.42	2.50
Ec Coal Dust	8	4	4	5	32.58	22.70
Cosms Perfrmer	5	3	6	6	32.82	21.30
Thirty Five	1	7	7	7	33.12	10.10
Bwana Rock N Rl	6	S	S	S	—	—

Jar Jar Binks 4.00 2.80 2.80
Kottonmouthqueen 2.80 2.80
Ww Fast Ira 4.60
Quiniela (3-4) $6.00
Trifecta (4-3-7) $88.00
Tri-box (3-4-7) $44.00
Superfecta (4-3-7-2) $106.40
Exacta (4-3) $16.20

FOURTH - CC, Grade D

Dog	PP	Off	St	Fin	Time	Odds
Valley Hollywood	8	4	1	1	31.36	3.90
Hear What I Say	2	2	2	2	31.38	4.50
Pat C O'dagda	6	3	5	3	31.77	2.00
Rd's Taz	3	1	3	4	31.78	25.10
Fm Bodacious	4	5	4	5	32.04	6.00
Rodeo Sper Star	1	6	8	6	32.15	6.10
Ww's Ice Cold	7	8	7	7	32.22	15.30
Free Breezin	5	7	6	8	32.41	4.00

Valley Hollywood 9.80 5.80 3.60
Hear What I Say 9.80 3.80
Pat C O'dagda 4.00
Quiniela (2-8) $19.80
Trifecta (8-2-6) $177.60
Tri-box (2-6-8) $88.80
Quiniela Double (3-4/2-8) $95.80
Superfecta (8-2-6-3) $5,389.40

FIFTH - CC, Grade A

Dog	PP	Off	St	Fin	Time	Odds
Em's Just Crusin	7	8	1	1	31.10	1.60
Lr's Look	4	1	2	2	31.46	25.00
DJ Cheryl Style	8	3	3	3	31.86	11.70
Amy Sloan	2	4	4	4	31.89	12.00
Solitaire	6	7	5	5	31.90	18.00
Pat C O'dahy	3	5	6	6	31.97	1.00
Golden Jessie	5	6	7	7	32.08	23.00
Share A Smile	1	2	8	8	32.36	11.10

Em's Just Crusin 5.20 4.00 3.80
Lr's Look 37.00 12.80
DJ Cheryl Style 3.80
Quiniela (4-7) $73.80
Exacta (7-4) $73.60
Superfecta (7-4-8-2) $12,182.00

SIXTH - CC, Grade E

Dog	PP	Off	St	Fin	Time	Odds
Howdy Pilgrim	4	5	1	1	31.71	3.70
Smurfs Abigale	6	2	2	2	31.84	2.00
Slatex Abbie	3	1	3	3	31.94	10.20
Hoss Fly	7	8	6	4	32.21	4.00
Pg Big Storm	1	6	5	5	32.24	2.50
Bwana Cassie B	8	7	4	6	32.37	5.00
Pat C Dr. Ruth	2	4	7	7	32.53	24.10
Kiowa Ww Jax	5	3	8	8	33.13	35.00

Howdy Pilgrim 9.40 3.20 2.40
Smurfs Abigale 4.60 2.60
Slatex Abbie 3.40
Quiniela (4-6) $16.40
Trifecta (4-6-3) $156.00
Superfecta (4-3-6-7) $365.20
Pick 3 (8-7-4) $81.80

SEVENTH - CC, Grade D

Dog	PP	Off	St	Fin	Time	Odds
Boone's Phillip	2	5	2	1	31.78	6.90
Allegro Star	7	2	1	2	31.95	3.50
Kt Legacy	5	1	5	3	32.16	6.00
Pat C Cameron	4	3	4	4	32.18	3.00
Hunters Bill	8	8	6	5	32.34	22.10
Cates Melon	6	7	8	6	32.55	15.20
Why Pay More	1	4	3	7	32.63	2.00
Yor Welcometoit	3	6	7	8	32.75	5.00

Boone's Phillip 15.80 9.40 5.80
Allegro Star 7.60 4.20
Kt Legacy 3.40
Quiniela (2-7) $28.80
Trifecta (2-7-5) $678.60
Tri-box (2-5-7) $339.30
Superfecta (2-7-5-4) $1,273.20
Quiniela Double (4-6/2-7) $197.40

EIGHTH - CC, Grade C

Dog	PP	Off	St	Fin	Time	Odds
Nrman Pheeney	7	8	7	1	31.62	1.20
Gs Kim	4	6	2	2	31.64	21.30
Brewster	6	5	3	3	31.65	8.00
Waynes Fast Boy	2	3	1	4	31.67	5.20
Coupleofbudlites	3	7	6	5	31.76	4.50
Systm Hh Hanna	1	1	8	6	31.83	10.10
Natalya	8	4	5	7	31.86	4.00
Pikes Black Out	5	2	4	8	31.96	20.00

Norman Pheeney 4.40 3.20 2.80
Gs Kim 10.40 8.00
Brewster 5.20
Quiniela (4-7) $56.00
Exacta (7-4) $53.20
Superfecta (7-4-6-2) $2,647.00

NINTH - LC, Grade TD

Dog	PP	Off	St	Fin	Time	Odds
Beyond Sassey	2	2	2	1	39.83	6.20
Twm Leah	3	8	4	2	39.94	3.00
Prima Smokiniris	1	1	1	3	40.12	6.10
Sister	8	4	5	4	40.16	1.80
Hi Bruiser	7	6	3	5	40.21	9.00
Em's Papillon	6	3	7	6	40.44	10.20
Secret Agnt Man	4	5	6	7	40.45	4.50
Good Time Tiffy	5	7	8	8	40.70	30.10

Beyond Sassey 14.40 6.40 4.20
Twm Leah 6.60 6.80
Prima Smokiniris 9.20
Quiniela (2-3) $26.80
Trifecta (2-3-1) $399.80
Super (2-3-1-8) $1,518.20
Pick 3 (2-7-2) $124.60
Exacta (2-3) $56.60

TENTH - CC, Grade A

Dog	PP	Off	St	Fin	Time	Odds
Too Deep Zone	5	1	1	1	30.97	4.10
Beams Barfly	6	5	4	2	31.18	6.00
Em's I'm Trying	1	4	3	3	31.23	2.00
Pf Mahoney	8	6	2	4	31.31	30.10
Lt Irish Knight	2	7	6	5	31.46	21.30
J's Willis	4	3	7	6	31.48	9.00
Cyndi Swoons	3	2	5	7	31.50	7.00
Tater Trent	7	8	8	8	31.86	2.00

Too Deep Zone 10.20 5.20 3.20
Beams Barfly 11.20 3.00
Em's I'm Trying 2.80
Quiniela (5-6) $24.60
Trifecta (5-6-1) $140.00
Tri-box (1-5-6) $70.00
Superfecta (5-6-1-8) $607.00

ELEVENTH - CC, Grade D

Dog	PP	Off	St	Fin	Time	Odds
Pat C Dentist	4	1	1	1	31.45	3.30
Arjo Braddycake	5	4	5	2	31.75	9.40
Hope Floats	8	8	6	3	31.83	4.50
Kw Strike	3	3	4	4	31.85	5.00
Nathan Detroit	6	6	3	5	31.86	5.00
Jetta Benny	2	5	7	6	32.20	17.20
Marksman	7	7	2	7	32.47	2.00
Ej's Tortfeasor	1	2	8	8	Oop	12.10

Pat C Dentist 8.60 4.60 2.40
Arjo Braddycake 7.80 2.40
Hope Floats 2.40
Quiniela (4-5) $39.40
Trifecta (4-5-8) $218.00
Tri-box (4-5-8) $109.00
Superfecta (4-5-8-3) $1,019.80
Exacta (4-5) $117.80

TWELFTH - CC, Grade C

Dog	PP	Off	St	Fin	Time	Odds
Ll Tee El See	5	4	2	1	31.28	4.30
Pat C Poker Man	6	6	3	2	31.45	6.00
Cajun Oriel	4	2	1	3	31.49	5.00
Ej's Dutch Girl	3	5	5	4	31.64	2.50
Sugar In My Tea	2	3	4	5	31.67	3.00
Good Grip	8	8	6	6	31.68	25.30
Closenocigar	7	7	7	7	31.74	6.00
Slatex Rosie	1	1	8	8	31.90	8.00

Ll Tee El See 10.60 4.00 3.40
Pat C Poker Man 5.00 3.40
Cajun Oriel 5.00
Quiniela (5-6) $33.00
Trifecta (5-6-4) $425.00
Tri-box (4-5-6) $212.50
Superfecta (5-6-4-3) $3,520.00
Pick 3 (5-4-5) $510.20

THIRTEENTH - CC, Grade B

Dog	PP	Off	St	Fin	Time	Odds
Ps Southern Okie	8	5	1	1	31.12	9.00
Ogallala Cola	6	4	2	2	31.47	7.00
Slatex Sherry	7	3	3	3	31.84	8.00
Hjs Don Quixotic	4	2	6	4	31.93	7.00
Johns By Fire	2	1	7	5	32.05	1.20
Tv Diamond	1	6	4	6	32.07	3.50
Corbin's Eva	3	7	5	7	32.27	12.30
Nodak Melborne	5	8	8	8	Oop	11.00

Ps Southern Okie 20.00 7.00 6.20
Ogallala Cola 8.20 6.60
Slatex Sherry 7.40
Quiniela (6-8) $27.60
Trifecta (8-6-7) $490.20
Tri-box (6-7-8) $245.10
Superfecta (8-6-7-4) $4,541.20
Quiniela Double (5-6/6-8) $1,484.00

FOURTEENTH - CC, Grade A

Dog	PP	Off	St	Fin	Time	Odds
Kid's Jasper	8	7	2	1	31.12	6.60
Marrilyn Manson	1	1	1	2	31.22	3.50
Beams Rolling Hi	7	3	3	3	31.44	10.00
J's Whizzler	6	8	4	4	31.54	4.50
Cool Hound Luke	5	6	6	5	31.58	11.20
Pat C Flashbye	2	5	5	6	31.69	2.50
Slatex Cathey	3	4	7	7	31.77	2.50
Diamondsforever	4	2	8	8	31.92	24.10

Kid's Jasper 15.20 5.80 7.60
Marrilyn Manson 8.60 7.20
Beams Rolling Hi 6.20
Quiniela (1-8) $24.00
Trifecta (8-1-7) $311.40
Tri-box (1-7-8) $155.70
Superfecta (8-1-7-A) $665.00

FIFTEENTH - CC, Grade C

Dog	PP	Off	St	Fin	Time	Odds
Upupp And Away	2	1	1	1	31.33	10.80
Little Haws	3	6	2	2	31.49	20.00
Wix Tatum	1	3	3	3	31.52	7.00
Eightball Bobbi	6	8	5	4	31.55	4.00
Pb's Irish Rose	8	7	4	5	31.72	3.00
Gordon Liddy	4	2	6	6	32.07	1.00
Whiz Ace	5	5	7	7	32.20	13.00
Rd's Braveheart	7	4	8	8	32.22	60.00

Upupup And Away 23.60 6.20 6.00
Little Haws 7.20 10.80
Wix Tatum 10.00
Quiniela (2-3) $88.00
Exacta (2-3) $106.40
Super (2-3-1-6) $3,845.20
Daily Double (8-2) $185.20
Pick 3 (8-8-2) 2of3 $80.40

SIXTEENTH - CC, Grade B

Dog	PP	Off	St	Fin	Time	Odds
Button Boy	4	1	1	1	31.35	8.80
Picadilly Pete	3	3	2	2	31.59	3.00
Pat C Fleming	7	5	6	3	31.65	4.50
Coldwater Malta	1	2	3	4	31.68	13.10
Mongo Jerry	2	4	5	5	31.69	4.80
Dj Cindy Sue	5	6	4	6	31.76	3.20
Pb's Rich Man	8	7	7	7	31.78	6.00
Bradway Review	6	8	8	8	31.79	9.00

Button Boy 19.60 11.20 7.80
Picadilly Pete 4.80 5.20
Pat C Fleming 10.80
Quiniela (3-4) $88.00
Trifecta (4-3-7) $485.80
Tri-box (3-4-7) $242.90
Super (4-3-7-1) $12,215.00
Exacta (4-3) $133.20
Handle - $336,127

LYNN HOWELL'S TIP

EM's Just Crusin proved to be too much for Pat C O'Dahy Tuesday afternoon, winning his third straight race and eighth of the Cloverleaf season.

Pat C O'Dahy, who was seeking his fourth in a row, never challenged and finished sixth in the fifth race, nearly 12 lengths off the winning pace. LR's Look ran second, and DJ Cheryl Style was third as the field was strung out behind EM's Just Crusin.

Kennelmate EM's I'm A Rebel challenges Breezy Barber in this afternoon's 10th race. CB Con Man also could have something to say about the outcome.

They're the three most likely to be in the trifecta.

TODAY'S MATINEE

FIRST — CC, Grade D
1. Pb's Transaction; 2. Fx Bio Hazard; 3. Emc Jumpin Flash; 4. Mountain News; 5. Ico Bodacious; 6. Dublin Express; 7. Poco Carey; 8. Kkw Senator Veto. **Lynn's picks:** 4-5-1.

SECOND — CC, Grade C
1. Bojangles Whynot; 2. Central Reserve; 3. Pg Rain Storm; 4. Banjo String; 5. Tv Betty; 6. Mj's Hey Zeus; 7. Kid's Julie; 8. Passarella **Lynn's picks:** 4-2-7.

THIRD — CC, Grade M
1. Kw System; 2. Arjo Timsmacey; 3. Billy Page; 4. Cgs Flying Stefi; 5. Fm Lilwhitedove; 6. Bwana Sandy Ann; 7. Chief Exec; 8. J Parks Maggie. **Lynn's picks:** 4-6-5.

FOURTH — CC, Grade E
1. Pikes Harlemheat; 2. Unwoven; 3. Sharp Call; 4. Pat C By Dillon; 5. Taylorway; 6. Canary Rain; 7. Luke The Dreamer; 8. Lr Dakota Lane. **Lynn's picks:** 1-5-8.

FIFTH — CC, Grade B
1. Kid's Bellsapup; 2. Pat C Hipey; 3. Ps My Champion; 4. Runner; 5. Kl's Ada; 6. Bass Rain; 7. Dixie's Dex; 8. Need A Smile. **Lynn's picks:** 6-5-2.

SIXTH — CC, Grade E
1. Td's Megan; 2. Lr's Randy; 3. Slatex Bomber; 4. Longworth Snow; 5. By Scotch; 6. Beyond Sri Lanka; 7. Ono Juno; 8. Sebulba Amy. **Lynn's picks:** 4-5-2.

SEVENTH — CC, Grade D
1. Smurf's Redcloud; 2. Tacoma Dude; 3. Iruska Blair; 4. Pat C Circle; 5. My Friend Jack; 6. Thrill The Fans; 7. Golden's Prairie; 8. Ww Diane. **Lynn's picks:** 4-5-8.

EIGHTH — CC, Grade B
1. Tom Mcmahon; 2. Valley Nickolas; 3. Dan Wheeler; 4. Tossed Salad; 5. Rural Speeddemon; 6. Wrongdoing; 7. Pat C Oil Patch; 8. Real Cobra. **Lynn's picks:** 5-8-1.

NINTH — LC, Grade D
1. Hr Ravishin Ruby; 2. Flying Kawasaki; 3. Ps Southern Doll; 4. Frehley's Comet; 5. Ej's Donttellamy; 6. Kt Daddys Shadow; 7. Valley Nolan; 8. Joni Jack K. **Lynn's picks:** 8-1-2.

TENTH — CC, Grade A
1. Ogallala Cracker; 2. Breezy Barber; 3. System Rv Steady; 4. Pb's Annie Potts; 5. Bonder; 6. Ruff Knight; 7. Cb Con Man; 8. Em's I'm A Rebel. **Lynn's picks:** 2-8-7.

ELEVENTH — CC, Grade D
1. Pb's Shabaka; 2. Pat C Sheera; 3. Bold Try; 4. Nodak Edna; 5. By Fathom; 6. Cb Jungle Karma; 7. Iowa Oswald; 8. Vals Redhot Leo. **Lynn's picks:** 5-4-7.

TWELFTH — CC, Grade C
1. Touchbyanangel; 2. Pat C Jillana; 3. Reno Avalon; 4. Ready Set Go; 5. Baggio; 6. Talkin Cajun; 7. Ogallala Jet Set; 8. Supreme Episode. **Lynn's picks:** 4-3-2.

THIRTEENTH — CC, Grade D
1. Mg's Awesome Sam; 2. Pikes Ping Pong; 3. Tv Hilda; 4. Colonel Matrix; 5. Billy Jack; 6. Ablaze; 7. Non Stop Country; 8. Heza Charmer. **Lynn's picks:** 2-4-8.

FOURTEENTH — CC, Grade A
1. Em's Shameless; 2. Pat C Vac; 3. Closenoshawn; 4. Ef's Zanybobby; 5. Iruska Briar; 6. Ec Patches; 7. Mong's Jo Scrap; 8. Em's I Hope So. **Lynn's picks:** 3-8-2.

FIFTEENTH — CC, Grade C
1. Duneden; 2. J's Slammin Sam; 3. Free Deposit; 4. Bold Reason; 5. Rd's Orca; 6. Nodak Pedro; 7. Bolt N Run; 8. Brandi Chastain. **Lynn's picks:** 7-4-5.

SIXTEENTH — CC, Grade B
1. Shadow Jax; 2. Ec Prime Time; 3. Golden Cajun; 4. Pikes Nwo; 5. Br's Big Boss; 6. Its Arctic Style; 7. EM's Runnin Wild; 8. Coldwater Alex. **Lynn's picks:** 7-4-6.

Best bet: EM's Runnin Wild (7) in the 16th.

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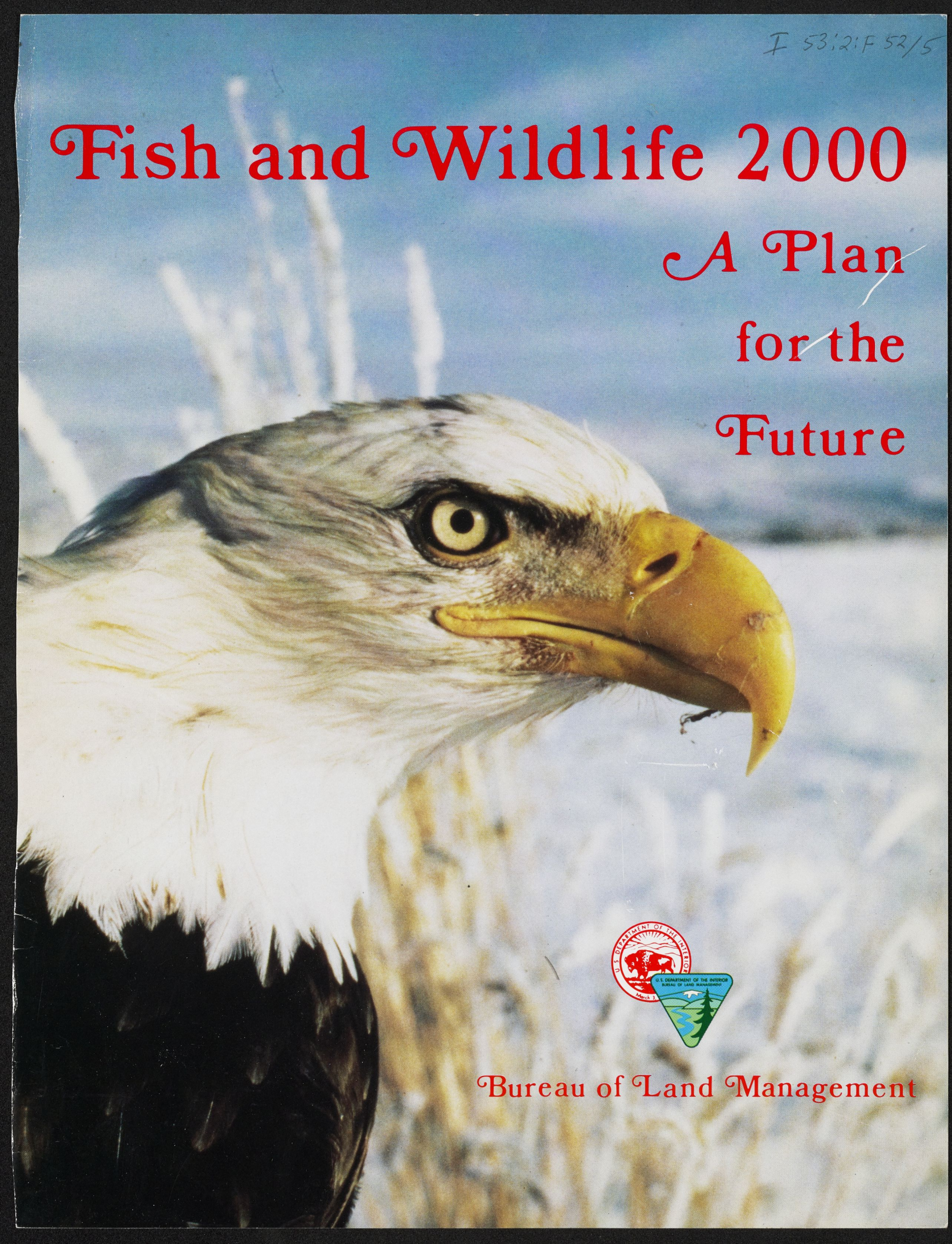
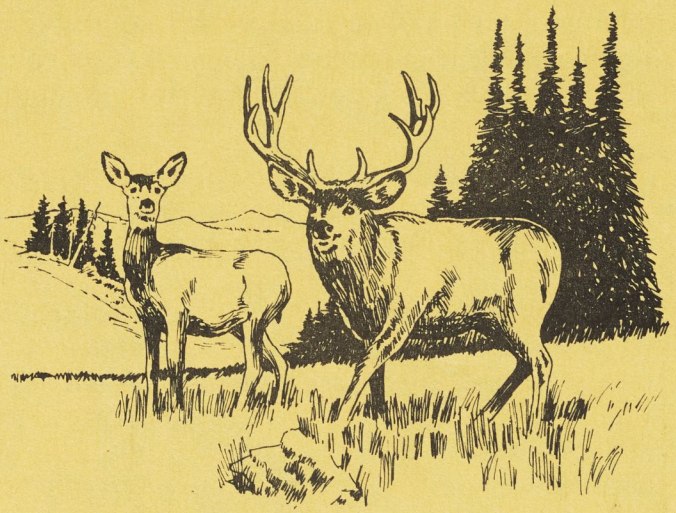
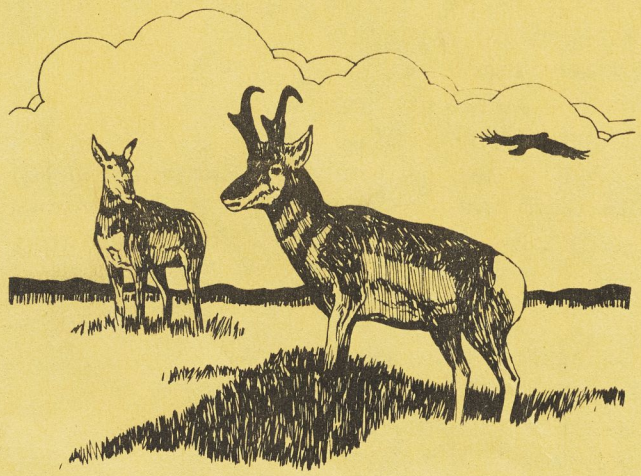
Fish and Wildlife 2000

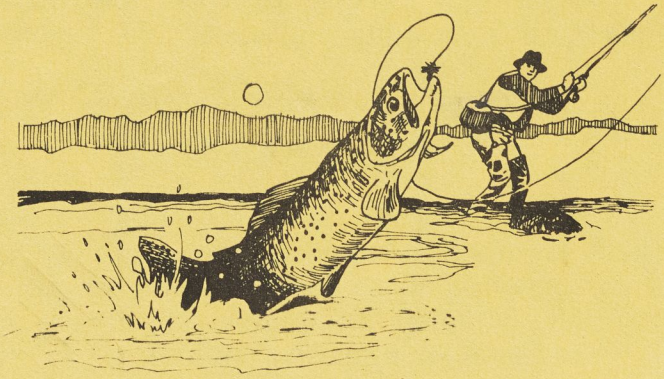
A Plan for the Future



Bureau of Land Management







ON COMMON GROUND

Why are recreation values important?

In the past, the primary indicator of the economic value of fish and wildlife in Montana has been dollars spent by sportsmen. Although economists recognize that expenditures are important to local and state economies, they also know expenditures do not reflect the total recreational value of the resource, which includes the personal benefits one receives from sport fishing and hunting.

By measuring these additional benefits, economists can determine the total recreational value of the state's fish and wildlife resource by estimating what sportsmen would be willing to pay to fish and hunt in different locations across Montana.

Why does Montana need this information?

Many of the natural resources on our public lands are being sought for use or development by a wide spectrum of interest groups that, in a sense, are in competition with each other.

Groups that seek to use fish, wildlife, water, grassland, timber, gas, oil and minerals each have a stake in the natural resources on Montana's public lands.

Federal land and water management agencies—like the U.S. Army Corps of Engineers, the U.S. Forest Service and the federal Bureau of Land Management (BLM)—rely on the market value of various resources to help determine which use of a resource is in the best public interest.

However, because there have been no economic values set for fish and wildlife that are specific to Montana, federal land and water management agencies have been obliged to use regional averages to estimate the value of fishing and hunting in Montana.

By replacing the old regional averages with specific economic values, the state's fish and wildlife resource will be more fairly represented when decisions are made that will affect the future of fishing and hunting in Montana.

How was the information obtained?

In 1985, the Montana Department of Fish, Wildlife and Parks, in cooperation with the U.S. Forest Service and the BLM, embarked on a two-year study to document the recreation value of sport fishing and hunting in Montana. Using accepted recreation analysis methodologies, professional economists surveyed stream and lake anglers as well as elk, deer and antelope hunters to determine economic values for each of these specific outdoor pursuits.

How was the project funded?

The two-year, $270,000 project was primarily funded by state fishing and hunting license fees and federal sport fish and wildlife restoration dollars. An additional $29,000 was donated by the BLM to help fund the study.

Does this information have any importance to the people of Montana?

The Montana Department of Fish, Wildlife and Parks believes the importance of the state's fish and wildlife resource is reflected, in part, by the high economic values it has documented for sport fishing and hunting in Montana.

Now, for the first time, Montana has accurate economic values for the state's unique fishing and hunting opportunities. These values will be used by federal land and water management agencies to ensure that the state's fish and wildlife resources are represented fairly when decisions are made that will affect their future.

In conjunction with these economic value studies, the department also conducted "attitude and preference" surveys designed to provide a more complete picture of why people value specific fishing and hunting opportunities. With the information gathered through these surveys, the department will be better equipped to determine the resource management, policy, enhancement and protection programs that are in the public's best interest.

Finally, the Montana Department of Fish, Wildlife and Parks recognizes that this information does not reflect all the values associated with fish and wildlife. There are cultural, ecological, scientific, aesthetic, spiritual, social, educational and other values associated with Montana's fish and wildlife that these studies did not address.

What are the economic values of sport fishing and hunting in Montana?

Using information gathered from both resident and nonresident sportsmen, the Montana Department of Fish, Wildlife and Parks has documented the following economic values:

(over)

The Economic Value of Hunting and Fishing in Montana

	A Measurement of Costs to Sportsmen			A Measurement of Benefits Received by Sportsmen		
Activity	**Expenditures* Per Day** (The amount spent per day by individual resident/nonresident sportsmen.)	**Expenditures* Per Trip** (The amount spent per trip by individual resident/nonresident sportsmen.)	**Annual Expenditures*** (The total amount spent annually by all resident/nonresident sportsmen.)	**Net Economic Value Per Day** (The additional amount individual resident/nonresident sportsmen said the activity was actually worth, per day, over and above actual expenditures*.)	**Net Economic Value Per Trip** (The additional amount individual resident/nonresident sportsmen said the activity was actually worth, for the same trip, over and above actual expenditures*.)	**Annual Net Economic Value** (Total number of angler and hunter days multiplied by the Net Economic Value Per Day for that activity.)
Sport Fishing (Streams)	$ 48	$ 97	$52.4 million	$102	$113	$122 million
Sport Fishing (Lakes)	$ 38	$ 91	$47.3 million	$ 70	$ 89	$ 93 million
Elk Hunting	$102	$285	$58.4 million	$ 66	$184	$ 37.6 million
Deer Hunting	$ 73	$149	$63.8 million	$ 55	$108	$ 51 million
Antelope Hunting	$ 50	$114	$ 4.5 million	$ 62	$143	$ 6 million

*Expenditures include transportation costs, lodging, food, guide fees and other purchases, excluding license fees.

Montana Department of Fish, Wildlife & Parks

DENVER & THE WEST

WHAT'S NEWS

Suspect not 'Human Fly'

DENVER — A 26-year-old Denver man arrested on suspicion of several high-rise burglaries is not the infamous "Human Fly" burglar, believed responsible for 50 break-ins, police said Saturday.

Michael Arbon was arrested Friday and likely will be charged with several burglaries, said Detective Mike Staskin. Police found mountain climbing equipment in his apartment, a black shirt, black pants and a mask. Witnesses to burglaries committed by the Human Fly say the suspect carries no mountain climbing equipment.

"We know we have a balcony burglar, but this one we think is just a copy cat," Staskin said. "We'd sure like to get the guy who's responsible for all these other burglaries."

Medical center fined $2,400

GREELEY — A federal agency has fined North Colorado Medical Center $2,400 and cited it for failure to adequately protect employees from infectious bloodborne diseases, such as AIDS and hepatitis.

In an Oct. 13 report, the Occupational Safety and Health Administration cited the hospital for 16 violations. OSHA inspectors spent seven days at the hospital between June 28 and Sept. 19. Problems cited included "possible direct contact" between employees and blood or body fluids infected by the AIDS virus (HIV) or hepatitis B virus (HBV).

The hospital has a 15-day period from Oct. 13 to either accept the fine, appeal or seek an informal settlement.

Church loses part of tax exemption

GRAND JUNCTION — Bookcliff Baptist Church has lost part of its Colorado tax exemption because it operates a nonprofit day-care center in the education building.

Last week, Our Savior's Lutheran in Denver was stripped of part of its state tax exemption because of similar activities. Baptists, who have a long history of activism in church-state cases, and the leaders of Bookcliff Baptist are seeking help from legal experts.

Pregnant women eligible for aid

DENVER — The federal Women, Infants and Children program, which provides supplemental food to low-income women and children, is expanding its services to pregnant women.

Officials hope to decrease the number of premature births or low-birth-weight babies.

Pregnant women living in Denver who work in low-paying jobs and have medical risks should call 893-6295 to determine whether they are eligible.

Enrollment in the program will begin Nov. 1.

Dry cleaners stage clothing drives

DENVER — Two Colorado dry cleaning chains are staging clothing drives to benefit the homeless.

Colorado Lace & Dry Cleaning will accept wearable clothing through Nov. 30. The donated clothes will then be cleaned and delivered to Salvation Army thrift stores.

Dependable Cleaners is accepting coats through Dec. 15.

EPA fine proposed for Junction center

DENVER — The Environmental Protection Agency has proposed a $34,500 fine be levied against the Grand Junction Regional Center for Developmental Disabilities because of six violations of the Toxic Substances Control Act. The center can appeal.

Murder suspect denied bail

CRAIG — A district court judge has denied bail for David Hisey, charged with three counts of first-degree murder in the deaths of a Craig family.

Hisey, 34, of Denver has been held since January in the deaths of Brian Williams, 32, his common-law wife, Gail Boyer, 17, and their 17-month-old son, Steven.

N. Mexico river bill passes House

WASHINGTON — Legislation designating a section of the Rio Chama in northern New Mexico a wild and scenic river has passed the House of Representatives.

The Senate passed the bill early last week.

Transit super board rolled out

Single agency would run bus, other ground transportation

By Bruce Finley
Denver Post Staff Writer

The Denver-area needs a single policy-making board to oversee virtually all ground transportation systems, top bus and rapid transit officials agreed Saturday.

The informal agreement was reached during a brainstorming session involving officials of the Regional Transportation District and the Transit Construction Authority.

Gov. Roy Romer, who acted as a "facilitator" during the meeting, must still approve the idea before it can be presented to the legislature for consideration.

Under the plan, the new board would set "priorities and administer surface transportation" such as beltways, major arterial roads and rapid transit, said Roger Cracraft, chairman of the RTD board.

The new panel, which would be appointed by Romer and include public officials and citizens, would replace the current RTD and TCA boards. The 15-member RTD board oversees the metro-area's bus system and general development of a rapid-transit system. State legislators created the 17-member TCA board specifically to build a rapid transit system linking downtown Denver with the Tech Center.

If a new board is formed, the TCA and the RTD would merely operate transportation systems rather than make decisions on such matters as allocation of money.

A coordinated transportation network is not possible under the current fragmented system of overlapping authorities, said Howard Gelt, chairman of the TCA board. "We need to deal with this in an integrated fashion.

"It's just a concept at the moment," he said.

But he added: "You don't have anyone who's planning and funding a total transportation system. I'm not sure that makes any sense . . . You've got the RTD and TCA both trying to do transportation."

Romer will receive a detailed plan for a new board of nine to eleven decision-makers at the Nov. 10 meeting of his Colorado Transportation Roundtable, said Cracraft. If Romer likes the plan, he said, it will be taken before the legislature in January.

Officials in charge of the proposed E-470 and W-470 beltways around Denver did not attend Saturday's session. Cracraft hopes they will become involved in the

Please see **TRANSIT** on 10-B

DA foes tear into Larsen

Prosecutor facing pot-buy charges

By Kit Miniclier
Denver Post Staff Writer

CANON CITY — District Attorney Roger Larsen, awaiting his day in court on drug charges, is now facing questions about his record of prosecuting criminals.

Among the critics are four write-in candidates for Larsen's job, other law enforcement officials and prison system executives.

They cite a murder within the walls of the state prison at Buena Vista and another murder in Cañon City as examples of cases Larsen allegedly failed to prosecute aggressively.

And, Larsen told his staff last month to adopt a hands-off policy for prison inmates caught with less than four-tenths of an ounce of marijuana in their possession, according to Deputy District Attorney Ed Rogers.

Rogers said he was shocked by the new policy because inmates customarily keep only small quantities of marijuana to avoid detection, and because drug transactions in prison can lead to violence.

Cañon City in Fremont County is home to three state prisons. Larsen's jurisdiction also covers Chaffee, Custer and Park counties.

Rogers, 37, assisted in the investigation that led to the arrest of Larsen. He is one of the four write-in candidates for Larsen's job and has vowed to continue investigating the office practices of Larsen.

He joined Cañon City Police Chief Martin Stefanic last week in appealing to Colorado's attorney general to call a state grand jury to investigate the district attorney's office.

It was Stefanic who arrested Larsen on Oct. 5 on the suspicion he bought a half-ounce of marijuana for use by someone else.

At the time, the 36-year-old Larsen was running unopposed as a Republican. Larsen has not withdrawn his candidacy, but four challengers have since thrown their hats into the ring.

State prison officials, Chaffee County Sheriff Ken Dahl and former deputy district attorney Bill Alderton now say Larsen's intervention in a prison murder case was potentially far more dangerous than the drug allegation.

Please see **LARSEN** on 5-B

PACING THE LEARNING PROCESS

The Denver Post / **David Denney**

ALL TOGETHER: Kindergartners recite rhymes at Lumberg Elementary School in Edgewater.

Special to The Denver Post / **Bayard Horton**

FRIENDLY EAR: Teacher Brenda Ellis listens to Lynette Beteta's Halloween tale at Lumberg Elementary School.

Expectations are too high, say educators

By Mary George
Denver Post Staff Writer

Three-year-olds who can write. Four-year-olds who can read. Five-year-olds who are expected to sit still for a half-hour at a time.

Rising expectations for young children have pushed standards so high that kindergarten is more like the first grade of 20 years ago, says Lorrie Shepard, professor of education at the University of Colorado at Boulder.

The expectations, she says, are unreasonable and harmful.

Some educators in Colorado and elsewhere in the nation are beginning to agree and are modifying their teaching approach.

Shepard, whose research focuses on educational policy, has been studying the effects of high expectations on young children with Mary Lee Smith, a professor at Arizona State University.

Across the country, they've discovered an increasing number of students stigmatized by flunking kindergarten and having to repeat it.

The researchers have found parents, desperate to protect their children from failure, rallying to raise kindergarten entrance ages. At the same time, the two professors report more middle-class parents "red-shirting" their youngsters to ensure success, starting them in kindergarten at age 6.

Those responses skirt the real problem, says Shepard. "Instead of telling kindergartners to get ready for us, we should be getting ready for them."

Others also have urged change.

David Elkind, a professor at Tufts University and author of the recent book, "Miseducation: Preschoolers at Risk," reports that young children are suffering a self-esteem crisis because they can't perform the impossible tasks they're assigned. And a recent California task force report, "Ready or Not, Here They Come," condemns schools that fail kindergartners or measure children's progress against standardized achievement scores.

The solution, they believe, lies in "developmentally appropriate curriculum" — the new catchphrase of early childhood education.

Kindergartners are flunking out because schools don't teach them the way they learn, says Patty

Please see **KIDS** on 10-B

City officials butt heads on economic development

By Jennifer Gavin
Denver Post Staff Writer

Now that Denver's economic development effort is about to be expanded to a two-pronged approach, some of the players are accusing each other of speaking with forked tongues.

Close observers worry that the resulting resentment and conflict may turn Denver economic development into a house divided against itself.

They say economic development is too important to be squabbled away.

The conflict pits Bill Lysaught, head of the city's 4-year-old Economic Development Agency, against the mayor's office, which seeks a broader focus to economic development.

After 18 months of controversy, Mayor Federico Peña is forming a new office to attract and retain business — and report directly to him.

Lysaught's office, which deals largely with neighborhood and small businesses, now reports to the city planning director. But it soon will answer to the yet-unnamed head of the new office.

"Bill came out of a very specific environment — the neighborhood business redevelopment program," Peña said. "He's very good at it, very good at putting together these deals. I need some different skills. I need a whole different emphasis on economic development. That's no reflection on Bill."

Even if Peña objected to Lysaught, the mayor couldn't remove him outright. Lysaught is a city career service employee with extensive rights of appeal.

Lysaught and his vocal small-business backers say he's doing a good job and could do even more with a larger budget. They also say a new office is duplicative and adds needless overhead and staff costs.

Some observers say Lysaught is philosophically opposed to the tack

Please see **ECONOMIC** on 10B

Post to publish guide for voters

By The Denver Post

The Denver Post will publish a 36-page voters' guide for the 1988 elections and include it in the newspaper's Tuesday editions.

"Election '88," a project produced in cooperation with the League of Women Voters of Colorado, will contain information about candidates running for every elective office from president to county commissioner. It also will include information about the ballot issues and the judges who will be listed on the Nov. 8 ballot for retention in office.

The Tuesday paper containing the special pullout section will be distributed to all Post subscribers, including those who get only the Sunday paper.

The guide also will be used as part of a statewide Newspaper in Education project tied to the election. Teachers across Colorado will use the guide and other information from The Post, including lesson plans, to help them teach students about the electoral process.

The "Election '88" project is being co-sponsored by Blue Cross and Blue Shield of Colorado, the Adolph Coors Co., the Gates Corp., and United Banks of Colorado.

Money woes could stunt park regeneration studies

YELLOWSTONE NATIONAL PARK — Scientists are lined up at Yellowstone's gates now that Henry Shovic has finished his spade work.

"Who wants my information?" Shovic asked recently as he stepped into a burned area. "Hydrologists, geologists, wildlife specialists, those studying grizzlies, elk migration, small mammals, woodpeckers, landslide potential, fire behavior, snowpack. All kinds of studies."

Shovic, a short, serious, park soil scientist, a man used to quietly digging holes into processes that take years, suddenly found himself this fall at the forefront of one of the most unique research projects in history.

From hikes in the woods, rides in airplanes, and long hours bent over light tables full of maps and aerial photographs shot from U-2 spy planes, Shovic and a small army of investigators mapped the entire million-plus burned acres — half the park — into categories of intensity.

Their findings, released Friday, showed that only a tenth of a percent of the area covered by fire in greater Yellowstone last summer was burned severely enough to wipe out all life. Because of that, park officials said Yellowstone is expected to make a comeback without artificial reforesting or seeding.

Jim Carrier

"We tried to paint a picture of what really happened, devoid of politics," said Shovic. "I've heard congressmen say the soil is sterilized. It's the universal opinion of soil scientists that it is not. The ecology is sitting under the ground, just waiting."

Waiting to spring to life. Waiting for more research.

But conducting that research could be stunted by a lack of money. Millions of dollars are needed to properly study the effects and lessons of the fire, and neither the park service nor Congress has shown much interest in research in the past.

The National Park Service has been flooded with hundreds of research proposals. Up to 200 scientists would like to work in Yellowstone, according to one estimate.

John Dennis, a park service supervising biologist in Washington, estimates that if every proposal were approved, they could cost $10 million a year — an amount not likely to come from cost-cutting Washington.

"We should be setting up permanent places that we can go back to every five years," said Dennis. "Ideally, we need to be planning for 200 to 300 years of long-term monitoring."

Jim Schmitt, a geology professor at Montana State University, has organized a consortium of researchers for Yellowstone. The group will attempt to coordinate ideas, if not help set priorities for research money.

Park officials will have final say on the projects.

Schmitt called the research possibilities at Yellowstone unique: "It's an opportunity to study the effects of a large magnitude fire on a functioning ecosystem. It probably happens once in a lifetime of any researcher."

Scientists are already behind in their work. Shovic, for example, is the park's first soil scientist, hired last year at half-time to map the soils of Yellowstone. He didn't finish before the fires.

Please see **PARK** on 10-B

Camels' exotic diet may hold key to restoring parched N.M. rangeland

By William Hart
Special to The Denver Post

LAS CRUCES, N.M. — Dean Anderson's rented livestock have been munching away on four-wing saltbush, a tasty rangeland dish if ever there was one.

But they won't be doing it for long. Soon, Anderson's eight animals will have eaten all the saltbush on their fenced-in land in southern New Mexico. After that, they'll have nothing left to graze but wiry mesquite bushes.

Anderson and his fellow scientists may then find out if the dromedaries have a role in reclaiming the barren Southwest.

Dromedaries. As in camels.

"We knew there'd be people who'd look on this as a joke," said Anderson, a U.S. Agriculture Department animal research scientist. "It's different — but no way is it a joke."

Leased eight

Earlier this year, Anderson and his colleagues leased the eight camels to see if they will eat large quantities of undesirable shrubs — such as mesquite and creosote — on government-owned rangeland.

Cattle refuse to eat those shrubs, allowing the plants to spread and kill out desirable grasses and shrubs. The hope is that, although camels prefer saltbush, they eventually will eat the other plants and thus clear the land so government workers can reseed it.

Undesirable shrubs have been taking over the arid Southwest since the region's lush grasses were overgrazed by huge cattle herds around the turn of the century.

Grass once plentiful

"Belly-high to a horse" was the common phrase used by explorers and settlers describing the southern New Mexico grasslands. But in a few short years, the grass was nearly gone.

Scientists still are arguing over precisely why the lush grasses disappeared from the Southwest, Anderson said. But no one disputes that the process began when man — and cattle — arrived.

Early ranchers thought nothing of the future and rushed to take advantage of the wide-open range. As the grasses disappeared, wind and water erosion removed the topsoil, making it even more difficult for the grasses to return.

The result is a vast southern New Mexico landscape that Anderson termed "some of the most degraded rangeland in the Southwest."

For decades, ranchers and researchers have been struggling to stop the shrubs and bring back the grass, he said. But for the most part, they've struggled in vain.

"Controlling these undesirable shrubs is our No. 1 problem in arid rangeland management," Anderson said.

Chemical and mechanical methods for killing shrubs are used, but are expensive and raise environmental concerns.

"So, we thought we'd look at a biological approach."

Enter the camels.

Leased from an Indiana animal importer, the eight single-humped camels arrived in June and were put out to graze under the watchful eyes of Anderson and his three colleagues on the research team.

"Why camels?" Anderson asked before someone else could. "Studies indicate that a camel can consume as much as 80 percent of its diet in woody plants, much more than even a goat."

In addition, Anderson said, camels could be used as a source of hides — "camel hair jackets are far from cheap" — and meat.

Special to The Denver Post / Bayard Horton

WEED EATERS: Dean Anderson, foreground, and John Smith with one of the camels used in research.

"We're not saying people are going to sell their cows and buy camels."

But if the experiment works, Anderson said he could envision entrepreneurs renting out camels for brush control.

Others might feature them on dude ranches.

"In a country that can sell pet rocks, I'm sure people will find other ways to use camels if we find them useful as a biological control mechanism."

Estranged spouse held in murder

By The Associated Press

COLORADO SPRINGS — A Colorado Springs woman and her male companion have been arrested in Houston for investigation of murder and kidnapping in the death of the woman's estranged husband and the alleged abduction of her child.

Kennard Jon Schroeder, 42, of Colorado Springs, died last week after being kicked and beaten with a blunt object, said El Paso County Deputy Coroner Michael Stewart.

Schroeder's body was found along a road near Black Forest, north of Colorado Springs, at about 6:30 p.m. Thursday, wrapped in a bed sheet and bedspread.

Helen Schroeder, 26, and Vernon Richard Carter Jr., 22, who hadn't reported to their jobs at a Colorado Springs restaurant since Tuesday, were arrested just before midnight Friday at a Houston motel.

Candy Schroeder, the 7-year-old daughter of Mrs. Schroeder, was found with the couple unharmed. Kennard Schroeder had been granted temporary custody of the child in July.

National historic group applauds work to preserve lower downtown

By Joanne Ditmer
Denver Post Staff Writer

CINCINNATI — The city of Denver and a coalition of organizations and citizens won a national award Saturday night for their efforts in pushing through Denver's Lower Downtown Historic District.

Historic Denver Inc., the Denver Partnership, Lisa Purdy of Citiscape Ldt., Denver council member Debbie Ortega and the city were among 15 winners of a 1988 National Preservation Honor Award presented by the National Trust for Historic Preservation at a conference in Cincinnati.

The national trust noted that many in the preservation community believe the lower downtown district represents Denver's most important contribution to the city's future. Designation of the 22-block area, approved by the City Council last March, was the result of six years of negotiations.

The area, which is near Union Station, has some of Denver's oldest commercial buildings.

The Association of Historic Hotels of the Rocky Mountain West — an organization made up of hotels in Colorado, New Mexico, Wyoming, Utah and South Dakota — also received an award. It was honored for innovative marketing, promotion, and preservation of the unique character of historic hotels in the region.

Colorado hotels belonging to the organization include: The Brown Palace, Denver, built in 1892; The Golden Rose, Central City, 1874; The Hearthstone Inn, Colorado Springs, 1885; Hotel Boulderado, Boulder, 1908; Hotel Colorado, Glenwood Springs, 1893; Hotel Jerome, Aspen, 1889; The Imperial Hotel, Cripple Creek, 1896; The Oxford Hotel, Denver, 1891; Peck House, Empire, 1862; The Stanley Hotel, Estes Park, 1909; and The Strater Hotel, Durango, 1887.

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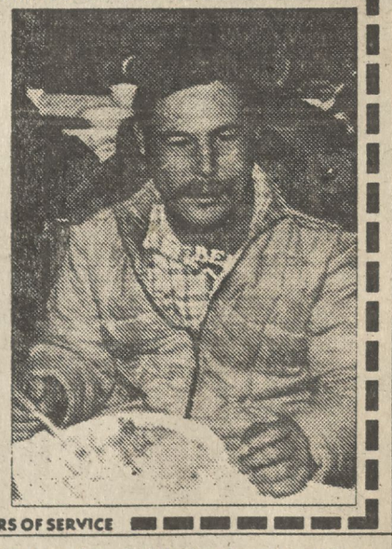

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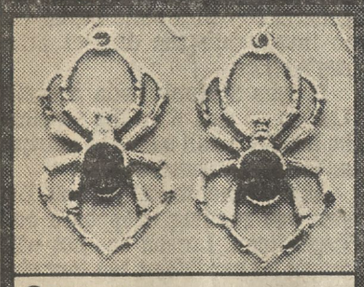

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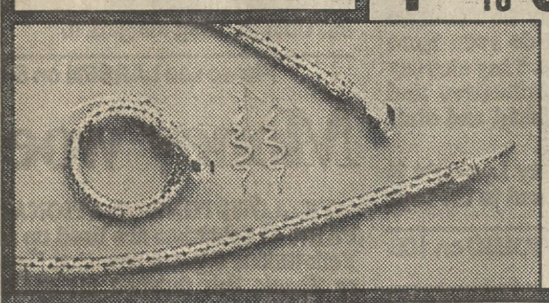

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BEACH, Bernice	Olinger
BRAFFORD, Ethel	Moore-Howard
BRIANO, Pabla	Runyan Stevenson
BRUNHOUSE, Martin	Monarch Society
CELIEN, Evelyn	Olinger
COLLINS, John	Olinger
CURRENCE, James	Moore-Howard
HAAS, Frederick	Olinger
HAHN, Charles	Olinger
HUBBARD, Arthur	Olinger
KILLINGSWORTH, D'othy	Drinkwine
LLEWELLYN, Mabel	Moore-Howard
MILLER, Howard	Monarch Society
OMIYA, David	Olinger
PECK, H. Spencer	Drinkwine
PENNELL, Paul	Archdiocese of Denver
SHANNON, John	Monarch Society
STEINFELDT, Robert	Fairmount
STEVENS, Louise	Olinger
VERDECKBERG, Rubye	Moore-Howard
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WINGERT, Lawrence	Moore-Howard

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BEACH— Bernice Beach of Arvada. Sister of Frances Sharp of Torrington, WY., Clifford Beach and Gilbert Beach, both of Arvada, also survived by numerous nieces and nephews. Services, Chapel, OLINGER 29TH AT WADSWORTH, Monday 3 p.m. Services will conclude in the Chapel. Further Services and interment will take place in Lincoln, NE. Family prefers Memorials be made to the American Heart Association, 1280 S. Parker Road, Denver, CO 80231. Arrangements by Olinger, 29th & Wadsworth.

BRAFFORD— Ethel C. Brafford of Aurora. Arrangements later Moore-Howard Mortuary, 17th & Clarkson.

CELIEN— Evelyn Celien of Denver. Arrangements later. Arrangements by Olingers Chapel Hill Mortuary, 6601 South Colorado Blvd.

COLLINS— John H. Collins, Denver. Father of Ralph Collins, John Collins, also survived by 3 brothers, 2 sisters and 5 grandchildren, father in law of Elaine Collins. Graveside Services, FORT LOGAN NATIONAL CEMETERY, Monday 10 a.m. Visitation, Olinger Englewood Chapel, Sunday 1-8 p.m. Arrangements by Olinger Englewood Chapel.

CURRENCE— James E. Currence, Denver. Services, BERKELEY PARK CHAPEL, W. 46th & Tennyson, Monday 9 a.m. Interment, Mount Olivet Cemetery. Arrangements, Moore-Howard, Berkeley Park Chapel, W. 46th & Tennyson.

HAAS— Frederick T. Haas, Denver. Son of Henry and Myrtle Haas, brother of Charlene, George, Deborah and Linda. Graveside Services, FAIRMOUNT CEMETERY, Monday 12:30 p.m. Arrangements by Olinger Sixteenth at Boulder.

HAHN— Charles H. Hahn, Wheat Ridge. Services, Chapel, OLINGER 29TH AT WADSWORTH, Monday 1 p.m. Family will receive visitors at the Mortuary, Sunday 7 p.m.-9 p.m. Arrangements and viewing by Olinger, 29th & Wadsworth.

HUBBARD— Arthur H. Hubbard, Arvada. Father of Trudy Evans, Betty Hay and Arthur Hubbard, also survived by grandchildren and great-grandchildren. Graveside Services, FORT LOGAN NATIONAL CEMETERY, Monday 2:30 p.m. Military Honors by U.S.A.F. Arrangements by Olinger, 29th & Wadsworth.

LLEWELLYN— Mabel Llewellyn of Aurora. Arrangements later by Moore-Howard Mortuary, 17th and Clarkson.

OMIYA— David S. Omiya, Denver. Husband of Aiko Omiya, father of Kazuko Munetake, Petaluma, CA., brother of Masakatsu Kito, San Francisco, CA, and Hana Yamamoto, Japan, grandfather of Kenichi Munetake. Services, DENVER BUDDHIST TEMPLE, 1947 Lawrence St., Monday 8 p.m. Interment, Services, HIGHLAND CEMETERY, Tuesday 11 a.m. Arrangements, by Olinger Highland Mortuary, 104th & Valley Hwy.

STEVENS— Louise C. Stevens, Denver. Wife of Curtis J. Stevens, mother of William J. Stevens and wife Elda, Glen Ellen, CA., also survived by numerous in-laws, nieces and nephews. Services, ST. JOHN'S LUTHERAN CHURCH, 700 South Franklin St., Monday 1 p.m. Interment, Chapel Hill Memorial Gardens. Visitation, Olinger Englewood Chapel, Sunday 1 to 8 p.m. Arrangements by Olinger Englewood Chapel.

VERDECKBERG— Rubye Susan "Sherwood" Verdeckberg of Denver. Arrangements later by Moore-Howard Morutary, 17th and Clarkson.

WASHBURN— Helene McCarthy Washburn, of Denver. Wife of Robert C. Washburn, sister of Mildred Fleak and Louis C. McCarthy. Mass of Christian Burial, GOOD SHEPHERD CATHOLIC CHURCH, 2626 E. 7th Ave., Monday 10 a.m. Interment Mount Olivet Cemetery. Arrangements by Moore-Howard Mortuary, 17th & Clarkson.

WINGERT— Lawrence Wingert, Aurora. Mass of Christian Burial, QUEEN OF PEACE CATHOLIC CHURCH, 13120 E. Kentucky Ave., Aurora, Monday 10:30 a.m. Interment Fairmount Cemetery. Arrangements by Moore-Howard Mortuary, 17th & Clarkson.

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Archdiocese of Denver Mortuary at Mount Olivet Cemetery 12801 W. 44th Avenue (303) 425-9511

KILLINGSWORTH— Dorothy M. Killingsworth, Englewood. Memorial Services, Tuesday 10 a.m., DRINKWINE CHAPEL. Services conclude at Mortuary.

PECK— H. Spencer Peck, Littleton. Final Services and Interment Corydon, IA, c/o Randolph Funeral Home. Contributions to the St. James Presbyterian Church, in Memory of H. Spencer Peck.

ADAMS— Juliana Marie Adams, Ogden, Utah., formerly of Denver. Grandmother of Doug Gillespie, Roy, UT., Terry Prevedel, Ogden, UT., and Connie Fix, Littleton, CO., also survived by 6 great-grandchildren. Services, Tuesday 11 a.m. FAIRMOUNT MORTUARY CHAPEL. Interment Fairmount Cemetery.

BAUMHEIER— Merrily Baumheier, nee Schuessler, Denver. Beloved wife of Edward, dear mother of Eric and Lara, daughter of Gertrude and the late Dr. Elmer W. Schuessler, sister of Noel Hogberg, Naperville, IL, Gerta Beck, LaGrange Park, IL, and Aloha Zeilenga, Yakima, WA. Mourned by her many beloved students. Vocal Instructor at University of Colorado-Denver and Loretto Heights College, specializing in voice training and rehabilitation. Memorials may be directed to the Merrily Baumheier Memorial Trust Fund, c/o Amter & Associates, 600-17th St., Suite 2315-S, Denver, CO 80202. Memorial Services, FIRST PLYMOUTH UNITED CHURCH OF CHRIST, Colorado Blvd. & Hampden Ave., 10 a.m. Saturday, October 22.

STEINFELDT— Robert F. Steinfeldt of Denver. Preceded in death by his wife Hilda Steinfeldt, father of Shirley Benner, Golden, Norman Steinfeldt, Broomfield, brother of Emmett Thomas, IN., and Leanora, South Bend, IN., also survived by 6 grandchildren and 9 great-grandchildren. Graveside Services, Tuesday 11 a.m. FAIRMOUNT CEMETERY. Contributions may be made to the American Cancer Society, 2255 South Oneida, Denver, CO. 80224.

PENNELL— Paul W. Pennell, Commerce City. Husband of Mary Pennell, father of Paul L. Pennell, Northglenn, Susan Pennell, Commerce City, Diana Groetken, Denver, father-in-law of Donald John Groetken, Denver and Mindy Pennell, Northglenn, brother of William Pennell, Tooele, UT., Billie Pennell, Greenville, N.C., grandfather of Melissa Pennell, Commerce City, D. J. Groetken, Denver, Shane Pennell, Commerce City, Jessica Pennell and Duste Pennell, both of Northglenn. Rosary, Sunday 5:30 p.m. Archdiocese of Denver Mortuary. Mass of Christian Burial, Monday 11 a.m. ARCHDIOCESE OF DENVER MORTUARY. Interment Mt. Olivet Cemetery.

VIGIL— Jose D. Vigil, Westminster. Arrangements later.

HOWE MORTUARY Longmont 776-2434

ALL STATES CREMATION 234-0200

Morgan 6370 Union Street Arvada • 422-8882

TREVINO 744-6113 300 S. Logan St.

WOODS 1100 WASH. • GOLDEN • 279-4575

Aspen Lakewood Mortuary Crematory
CREMATION $425
DIRECT BURIAL $699
COMPLETE FUNERAL $1399
PRE-ARRANGEMENT PLANS
FREE LITERATURE
1350 SIMMS 232-0985

FELDMAN 1673 YORK 322-7764

RUNYAN STEVENSON CAPITOL 6425 W. Alameda Ave. 233-3333 "Family owned and Operated"

AURORA CHASE 1095 HAVANA ST. 366-3551 "Our family serving yours"

MONARCH SOCIETY 1534 PEARL 837-8712

1035 Cemetery Lots

2 CEMETARY PLOTS at Colorado Memorial Park, Littleton. $1300/both. 934-4298

CHAPEL Hill, 4 lots, sec. 3, Geth. Sermon on the Mount. $300 each. 428-1051

CROWN HILL CEMETERY 1 Lot, block 69. Call 238-3925.

CROWN Hill. 4 lots. Value $650/ea. Will negotiate. Must sell. Call 756-7766

CROWN HILL, DOUBLE CRIPPED, tier D, list price $6995, sell $5995/best offer for both. 424-1177

ESTATE SALE – 2 lots, Crown Hill. Must sell, best offer. Hunter, 1-(916) 626-0479

4 LOTS-Mt. Olivet. $2,000 Call collect 1-213-865-0445

HIGHLAND Memory Gardens 89C, 2 spaces; 89D 2 spaces Value $650 ea. Will nego. 333-8095

HIGHLAND 104th, 2 lots, Garden of Good Shepherd, $450/ea. Will negotiate. Call 322-9625

HIGHLAND 104th, 2 lots, Garden of Good Shepherd, $450/ea. Will negotiate. Call 322-9625

2 LOTS in block 68, lot 79, Unit C 3 and 4, Crown Hill. $700 ea. 422-6171

2 LOTS, Mt. Olivet Old section #27 best offer. Call 320-6279

4 PLOTS for sale in East Lawn Memorial Gardens Cemetery. $500 per plot. 366-6110

4 PLOTS IN MONUMENTAL BLOCK 34, Crown Hill Cemetery, call Mr. Joyner 449-5643 8-5pm.

2 SPACES, Chapel Hill, Last Supper Garden, close to Memorial. $600 ea. Call (719) 561-4450

TWO LOTS Crown Hill Cemetary, Block 46. Choice location. $750 each. 455-8981.

UNIT D, Lot 218, Block 53, Sect. 1. Crown Hill Cemetery. $400 or best offer for the one space. 722-1795

1040 Crematoriums

CREMATION PRE-PLAN TO INSURE SIMPLICITY WITH DIGNITY MONARCH SOCIETY 1534 Pearl St. 837-8712

BRIANO— Pablo L. Briano, Lakewood. Graveside Services, Monday, Oct. 24, 10 a.m., CROWN HILL CEMETERY.

BRUNHOUSE Martin D. Brunhouse, Denver. Arrangements later.

MILLER Howard F. Miller, Denver. Arrangements later.

SHANNON— John Edward Shannon, 40, Arvada. Father of Sean Patrick and Bryan Christopher Shannon, son of Melvin and Mary Ellen Shannon, brother of Ronald David, Randall James, Russell Dean and Jerold Paul Shannon, grandson of Lodoska May Shannon. Memorial Services, Sunday 4:30 p.m., TRINITY PRESBYTERIAN CHURCH, 7755 Vance Drive, Arvada. Memorial Contributions to Rocky Mtn. MS Center, Box B-181, 4200 E. 9th Ave., Denver, CO 80262.

Bullock 1375 E. HAMPDEN 789-2535

ANDREWS CASTLE ROCK, CO. 688-3191

1025 Florists

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The World At Your Doorstep. Call Now For The Denver Post Home Delivery. Dial 825-7678

WEATHER

DENVER TEMPS & HUMIDITY

SATURDAY

Time	T	H	Time	T	H
Midnt	48	61	Noon	68	19
1 am	46	63	1 pm	73	16
2 am	47	58	2 pm	75	15
3 am	46	60	3 pm	72	15
4 am	45	60	4 pm	74	15
5 am	43	60	5 pm	74	15
6 am	50	37	6 pm	66	18
7 am	49	37	7 pm	61	28
8 am	52	35	8 pm	56	38
9 am	57	28	9 pm		
10 am	62	23	10 pm		
11 am	67	19	11 pm		

EXTREME TEMPS

(Past 24 Hours)

High SATURDAY 76
Avg. high for OCT. 22 64
Low SATURDAY 43
Avg. low for OCT. 22 35

HUMIDITY

Maximum ....60 percent
Minimum ....15 percent

PRECIPITATION

Precip for month........... .03"
Norm. for month........... .98"
Precip for year........... 13.42"
Norm. year to date..... 13.67"

COLORADO

	Hi	Lo	Prc	Sky
Akron	74	42	0	cdy
Alamosa	68	22	0	clr
Colo Spgs	74	41	0	clr
Denver	76	43	0	clr
Eagle	69	25	0	cdy
Ft Collins	77	36	0	cdy
Ft Morgan	81	31	0	clr
Glnwd Spg	70	29	0	cdy
G Junctn	72	38	0	cdy
Greeley	73	35	0	clr
Gunnison	68	11	0	cdy
La Junta	87	43	0	cdy
Lamar	87	43	0	cdy
Limon	75	38	0	cdy
Pueblo	81	34	0	cdy
Salida	72	29	0	clr
Trinidad	80	40	0	cdy
Winter Pk	55	25	0	cdy

KANSAS

	Hi	Lo	Prc	Sky
Dodge City	83	53	0	m
Emporia	78	44	0	m
Garden Cty	86	49	0	m
Goodland	84	41	0	m
Kansas Cty	69	41	0	m
Lawrence	75	44	0	m
Russell	83	43	0	m
Salina	78	52	0	m
Topeka	79	36	0	m
Wichita	78	51	0	m

WYOMING

	Hi	Lo	Prc	Sky
Casper	m	m	m	m
Cheyenne	68	44	0	cdy
Douglas	m	m	m	m
Evanston	62	31	0	cdy
Lander	71	44	0	cdy
Laramie	63	37	0	cdy
Rawlins	64	45	0	cdy
Rock Spgs	63	43	0	cdy
Sheridan	64	43	0	cdy
Worland	61	37	0	cdy

NEBRASKA

	Hi	Lo	Prc	Sky
Alliance	m	m	m	m
Chadron	71	38	0	cdy
G. Island	75	43	0	cdy
Lincoln	76	38	0	cdy
McCook	86	40	0	cdy
Norfolk	73	37	0	cdy
N. Platte	81	32	0	cdy
Omaha	68	39	0	cdy
Scottsblf	73	34	0	cdy
Sidney	73	37	0	cdy
Valentine	76	41	0	cdy

NEW MEXICO

	Hi	Lo	Prc	Sky
Alamogrdo	79	48	0	cdy
Albuqrque	80	47	0	clr
Carlsbad	86	54	0	clr
Farmingtn	75	42	0	clr
Santa Fe	77	44	0	cdy

U.S. EXTREMES

High ....100, Borrego, Calif.
Low ......11, Gunnison, Co.

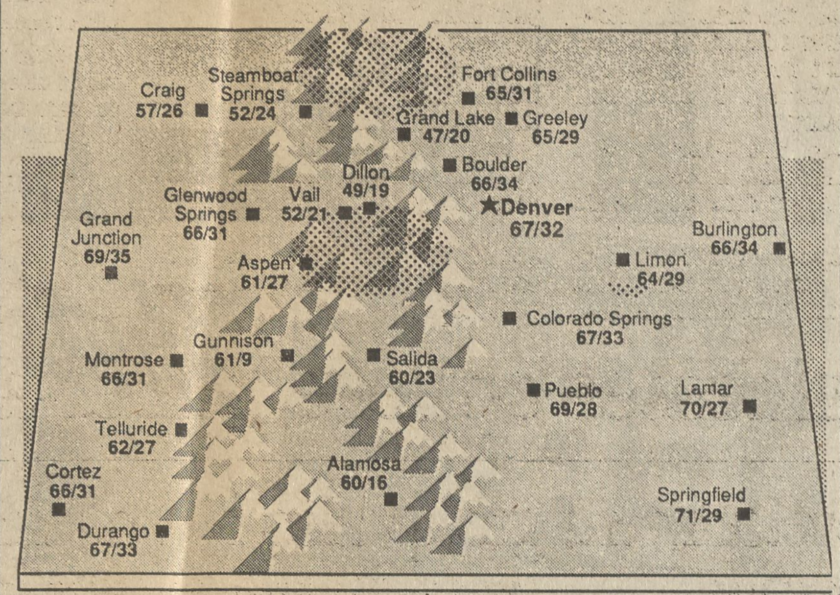
m denotes missing

PHONE NUMBERS

Weather info..........398-3964
Metro area roads....639-1111
Statewide roads 639-1234
Colo Spgs roads.....635-7623
Avalanche info 236-9435

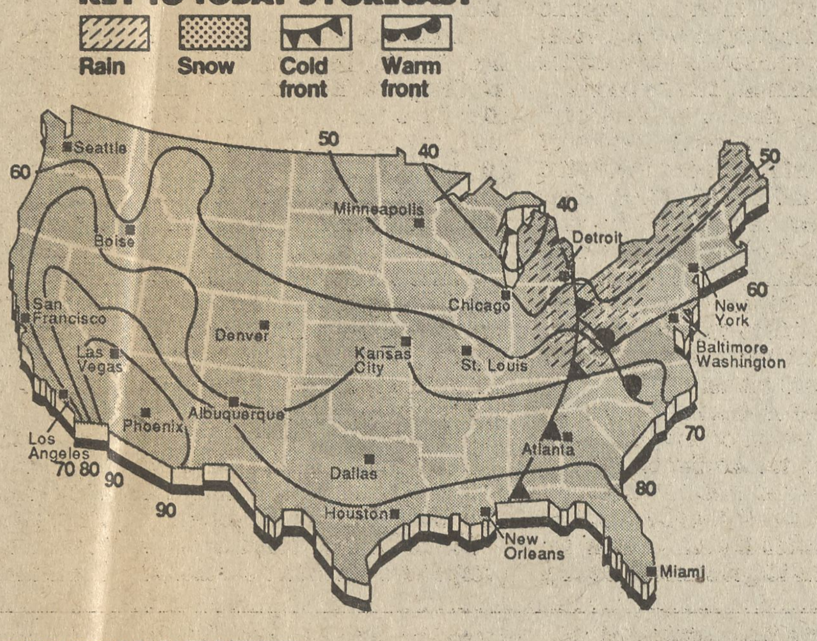
METRO 5-DAY FORECAST

TODAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY
Partly sunny, less windy.	Mostly sunny, pleasant.	Mostly sunny, pleasant.	Mostly sunny, warmer.	Partly sunny, gusty.
HIGHS: 65-70 LOWS: 30-34	HIGHS: 65-70 LOWS: Low 30s	HIGHS: Near 70 LOWS: Mid-30s	HIGHS: Low 70s LOWS: 35-40	HIGHS: Mid-70s LOWS: Low 40s



KEY TO TODAY'S FORECAST

Rain · Snow · Cold front · Warm front



NATIONAL WEATHER

	SAT Hi	SAT Lo	SAT Prc	SUN Hi	SUN Lo	SUN Otlk	MON Hi	MON Lo	MON Otlk
Albany, N.Y.	47	36	.94	47	32	cdy	51	37	rn
Amarillo	83	54		67	49	cdy	70	42	clr
Anchorage	36	25		33	27	cdy	32	25	cdy
Asheville	55	41		64	33	cdy	57	43	cdy
Atlanta	65	45		74	46	cdy	62	52	cdy
Atlantic City	55	45	.97	60	44	clr	60	48	rn
Austin	87	64		87	67	rn	79	56	clr
Baltimore	56	44	.41	61	39	clr	59	44	rn
Billings	63	46		64	36	cdy	64	44	cdy
Birmingham	72	41		73	44	cdy	63	50	cdy
Bismarck	63	39		43	27	cdy	51	27	cdy
Boise	67	38		66	32	clr	68	37	clr
Boston	58	48	.36	51	45	cdy	55	43	cdy
Brownsville	88	66		88	68	cdy	81	66	cdy
Buffalo	40	34	.62	51	35	cdy	48	42	rn
Burlington, Vt.	41	33	.37	45	34	rn	49	35	rn
Charleston, SC	71	53		70	41	clr	72	53	cdy
Charleston, WV.	50	44	.35	61	38	cdy	49	45	cdy
Charlotte, N.C.	63	45		67	36	cdy	60	47	cdy
Chicago	52	35	.02	57	41	rn	44	36	rn
Cincinnati	54	42	.20	55	36	rn	46	37	cdy
Cleveland	48	45	.02	55	39	rn	45	38	sn
Columbia, S.C.	70	43		70	35	clr	65	50	cdy
Columbus, Ohio	52	44	.01	55	35	rn	47	38	cdy
Concord, N.H.	51	41	.54	50	40	cdy	50	34	cdy
Dallas-FtW	84	51		75	66	cdy	80	52	clr
Dayton	53	41		55	36	rn	45	36	cdy
Des Moines	59	28		49	38	clr	50	32	cdy
Detroit	48	44	.09	50	37	rn	43	38	rn
Duluth	45	20		38	35	sn	37	27	cdy
El Paso	89	51		82	53	clr	78	50	clr
Evansville	59	38		60	43	rn	50	38	cdy
Fairbanks	18	-10		14	-07	cdy	16	-04	cdy
Fargo	54	34	.01	39	30	cdy	43	23	cdy
Flagstaff	73	36		73	32	clr	73	32	clr
Grand Rapids	49	37	.01	48	36	rn	43	35	rn
Great Falls	55	37		62	38	cdy	60	45	cdy
Greensbro, NC	58	43		63	34	cdy	60	46	cdy
Hartford	55	42	1.10	52	42	cdy	55	38	cdy
Helena	56	48		58	30	cdy	60	36	cdy
Honolulu	89	70		88	70	cdy	89	71	cdy
Houston	79	65		87	62	rn	77	58	clr
Indianapolis	54	38	.02	56	39	rn	45	35	cdy
Jackson, Miss.	77	45		70	50	rn	68	50	clr
Jacksonville	74	52		76	46	clr	80	49	clr
Juneau	41	38		43	39	rn	42	37	rn
Kansas City, Mo.	69	41		58	51	cdy	55	32	cdy
Las Vegas	90	57		89	57	clr	89	56	clr
Little Rock	73	50		76	56	cdy	66	45	clr
Los Angeles	71	61		72	62	cdy	71	62	cdy
Louisville	57	43	.04	62	40	rn	51	41	cdy
Lubbock	81	54		70	50	cdy	73	46	clr
Memphis	70	47		72	51	cdy	65	46	clr
Miami Beach	81	71		84	66	clr	85	68	clr
Midld-Odessa	82	52		74	55	cdy	74	48	clr
Milwaukee	49	34	.01	48	38	rn	41	33	sn
Mpls-St Paul	53	27		39	37	clr	40	28	clr
Nashville	62	44		69	40	cdy	60	40	cdy
New Orleans	77	52		78	56	cdy	74	60	clr
New York City	54	45	1.43	53	45	cdy	57	47	rn
Norfolk, Va.	63	47		63	46	clr	67	49	rn
Oklahoma City	79	52		68	54	clr	72	43	clr
Orlando	78	67		81	56	cdy	80	61	clr
Philadelphia	54	46	.99	60	39	clr	60	45	rn
Phoenix	92	70		93	69	clr	93	67	clr
Pittsburgh	47	43	.14	55	39	cdy	46	42	rn
Portland, Me.	54	45	.21	48	42	cdy	49	36	cdy
Portland, Ore.	63	43	.03	61	44	cdy	62	45	cdy
Providence	59	47	.75	52	44	cdy	57	40	cdy
Raleigh	62	42		63	33	clr	65	48	rn
Rapid City	69	42		58	34	clr	61	35	cdy
Reno	82	36		76	34	clr	77	34	clr
Sacramento	87	48		86	49	clr	86	50	clr
St Louis	60	38		60	50	rn	52	38	cdy
Salt Lake City	71	43		69	38	clr	71	39	clr
San Antonio	86	67		87	67	rn	79	56	clr
San Diego	67	64		71	63	cdy	70	62	cdy
San Francisco	68	52		70	52	cdy	70	52	cdy
San Juan, P.R.	88	75		88	76	clr	89	76	clr
St Ste Marie	49	35	.01	46	30	rn	39	35	rn
Seattle	59	49		60	47	cdy	61	46	cdy
Shreveport	82	48		78	56	cdy	77	51	clr
Sioux Falls	63	28		46	33	clr	50	25	cdy
Spokane	58	34		60	36	cdy	60	36	cdy
Syracuse	39	33		48	34	cdy	50	42	rn
Tampa	81	64		78	54	cdy	80	66	clr
Tucson	86	60		89	58	clr	89	58	clr
Tulsa	78	49		68	56	clr	73	43	clr
Washington	61	39	.29	64	43	clr	60	49	rn
Wilkes-Barre	40	34	1.17	51	37	cdy	54	42	rn

DENVER AREA TODAY

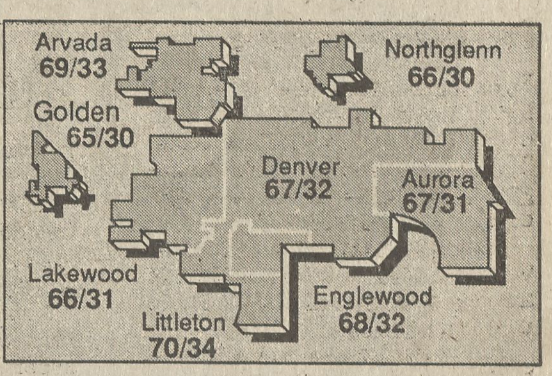
Skies will be partly cloudy and winds are expected to decrease in the Denver metro area today, according to Ed Pearl, The Denver Post's weather forecaster. Temperatures are expected to be somewhat cooler, with daytime highs expected to range from 65 to 70. Overnight lows are expected to be from 30 to 34.

COLORADO TODAY

Cloudiness is expected to decrease today, and a few rain and snow showers are expected to fall in the northern mountains, according to the National Weather Service. Elsewhere, skies should be mostly clear through Monday. **HIGHS:** Daytime highs are expected to be mainly in the 60s and 70s, with 50s and lower 60s in the high country. **LOWS:** Overnight lows are expected to be mainly in the 30s at lower elevations, with teens and 20s in the higher elevations.

EXTENDED FORECAST Dry and mild days are expected at lower elevations, according to the National Weather Service. Rain and snow showers will develop in the mountains and northwest Thursday. Daytime highs are expected to be in the 60s and 70s, 50s and 60s in the mountains.

METRO TEMPS TODAY



AIR QUALITY

Dangerous	500
Extremely Poor	300
Poor	200
Acceptable	100
Good	50

SUN & MOON

10/24 10/31 11/9 11/16

Sunrise .... 7:19 a.m.
Sunset .... 6:09 p.m.
Moonrise .... 5:11 p.m.
Moonset .... 5:226 a.m.

INFORMATION

For Denver weather information call **398-3964.**

For Fort Collins/Greeley weather information call **484-8920.**

For Colorado Springs weather information call **633-6622.**

For Pueblo weather information call **948-3371.**

For Denver area road conditions call **639-1111.**

For Statewide road conditions call **639-1234.**

For Colorado Springs road conditions call **635-7623.**

AROUND THE WORLD

	Hi	Lo	Sky
Amsterdam	57	48	cdy
Athens	68	59	cdy
Auckland	63	45	clr
Bangkok	91	75	clr
Barbados	86	78	clr
Beijing	68	50	cdy
Beirut	81	64	clr
Belgrade	59	46	cdy
Berlin	50	45	cdy
Bermuda	84	73	cdy
Bogota	M	M	M
Brussels	61	39	cdy
B'Aires	76	47	clr
Cairo	82	61	clr
Caracas	75	63	rn
Copenhagen	54	46	cdy
Dublin	57	50	clr
Frankfurt	57	37	clr
Geneva	55	43	cdy
Havana	84	71	clr
Helsinki	47	40	cdy
Hong Kong	79	77	cdy
Istanbul	63	52	clr
Jerusalem	M	M	M
Jo'burg	M	M	M
Kiev	45	30	clr
Lima	M	M	M
Lisbon	70	52	cdy
London	64	54	clr
Madrid	72	46	clr
Manila	91	73	clr
Moscow	39	32	sn
Nairobi	79	55	clr
Nassau	86	64	cdy
New Delhi	91	66	clr
Oslo	46	32	clr
Paris	64	46	clr
Rio	M	M	M
Rome	68	54	clr
San Juan	86	73	cdy
Santiago	79	45	clr
Sao Paulo	M	M	M
Seoul	70	48	clr
Singapore	90	77	rn
Stockholm	47	38	clr
Sydney	81	66	cdy
Tel Aviv	M	M	M
Tokyo	77	66	clr
Vienna	61	41	clr

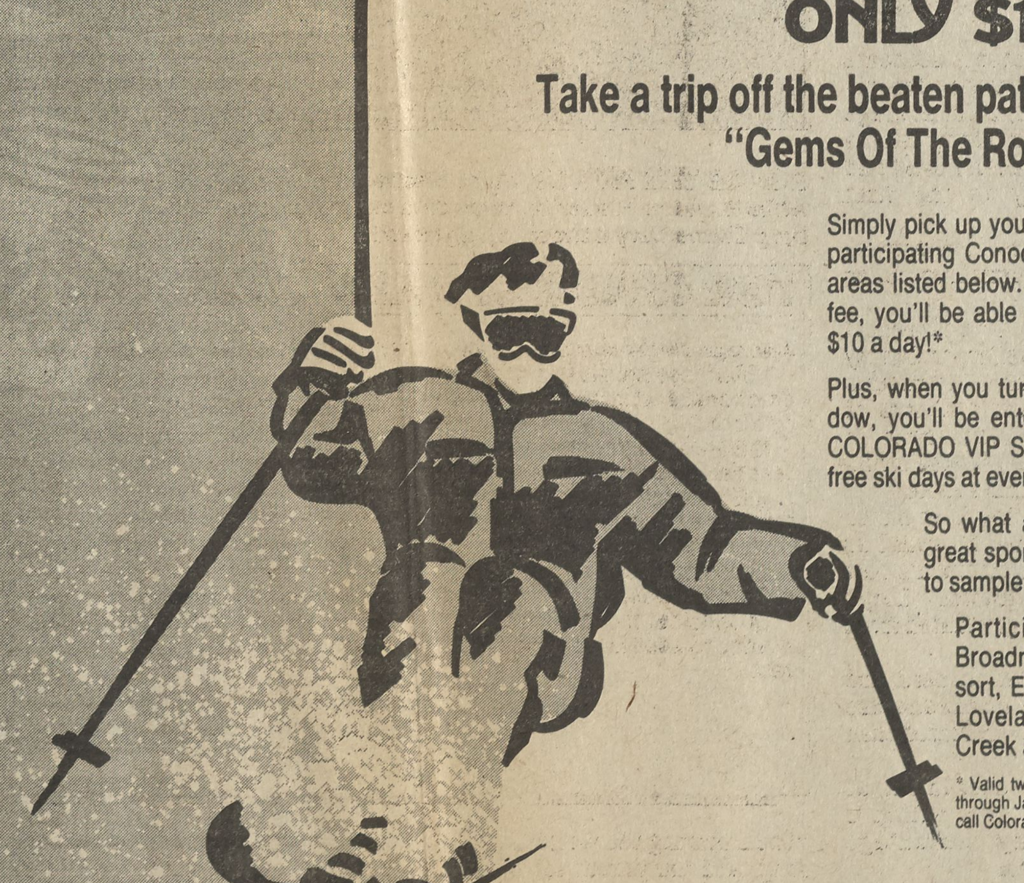
CANADA

	Hi	Lo	Sky
Calgary	70	33	clr
Montreal	51	33	sno
Ottawa	53	33	sno
Regina	53	43	cdy
Toronto	51	37	rn
Vancouver	59	50	cdy
Winnipeg	45	30	cdy

MEXICO

	Hi	Lo	Sky
Acapulco	73	77	clr
Merida	93	71	clr
Mexico City	80	48	cdy

COLORADO SKIING
ONLY $10
Take a trip off the beaten path and sample the "Gems Of The Rockies"



Simply pick up your "Gems Of The Rockies" coupon at a participating Conoco station and take it to any of the ski areas listed below. After paying a one-time $5 processing fee, you'll be able to ski at ten different ski areas for only $10 a day!*

Plus, when you turn in your coupon at the lift ticket window, you'll be entered in the grand prize drawing for a COLORADO VIP SKI PASS, enabling the winner to three free ski days at every Colorado ski resort!**

So what are you waiting for? Get involved in a great sport at a terrific price. It's the perfect way to sample some of Colorado's hidden treasures!

Participating areas: Arapahoe Basin, Ski Broadmoor, Ski Cooper, Cuchara Valley Resort, Eldora Mountain Resort, Ski Estes Park, Loveland Basin & Valley, Monarch, Silver-Creek and Ski Sunlight.

* Valid two times at each participating area. Not valid December 26 through January 2. One pass per individual. For additional information call Colorado Ski Country USA at (303) 837-0793.
** No purchase necessary.

conoco HOTTEST BRAND GOING
colorado ski country USA
THE DENVER POST

HALLOWEEN TREATS

That's King Soopers Way!

TREE TOP APPLE CIDER

When you buy one 64 oz. of Tree Top Apple Cider, Apple Juice or Natural Apple Juice at the regular price of 2.34, you receive a second one FREE!

BUY ONE • GET ONE FREE!

SAVE 2.34

PUMPKINS

Jack O' Lanterns for carving. More than a million pounds available in all shades and sizes.
Regular price 7¢ lb.
SAVE 3¢ lb.

4¢ lb.

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For Children and Adults

TODDLER OR CHILDS SIZE ea. 11.99

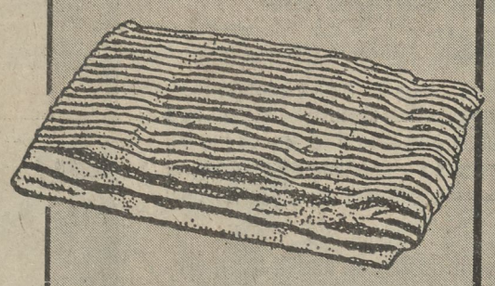
ASSORTED ADULT SIZES ea. 15.99 or ea. 17.99

ON SATURDAY, OCT. 29
YOU'RE INVITED TO JOIN THE FUN AT THE KING SOOPERS

HALLOWEEN PARTY

FREE CUP OF POP
FREE JONATHAN APPLE

SAVE 19¢ pkg.



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79¢ lb.

SAVE 1.10 lb.

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Generic Lean
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Regular Price 4.08 lb.

2.98 lb.

SAVE 40¢ lb.

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APPLES

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Regular Price 79¢ lb.

39¢ lb.

SAVE 71¢ on 3

YOPLAIT 150

Yogurt - Raspberry, Blueberry, Strawberry, Strawberry-Banana, Cherry and Peach - 6 oz.
Regular Price 57¢ ea.

3/$1

SAVE 1.30

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Coke, Coca-Cola Classic, Diet Coke, Caffeine Free Diet Coke, Diet Cherry Coke, Cherry Coke, Sprite, Diet Sprite, Tab, Minute Maid Orange, Diet Minute Maid Orange, Welch's Grape and Braq's Root Beer.
Regular Price 2.69

1.39 6 pack/12 oz.

Prices good from October 23 through October 25, 1988

9 CHOLESTEROL CHECK

KING Soopers · Porter Memorial Hospital · 9NEWS

THIS WEEKS KING SOOPERS LOCATIONS

MON. & TUES.	WED. & THURS.	FRI. & SAT.
OCT. 24th & 25th	OCT. 26th & 27th	OCT. 28th & 29th
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Riparian Rehabilitation and Channel Evolution

What Is It?

Riparian Rehabilitation and Channel Evolution is a 24-minute video tape designed for use throughout the Bureau of Land Management.

Who Is It For?

This video tape is designed for use by wildlife and fisheries biologists, hydrologists, line managers, and other resource specialists interested in developing rehabilitation plans for riparian areas in the West. This video program will also be useful to those interested in learning more about riparian management practices and strategies for rehabilitating riparian resources.

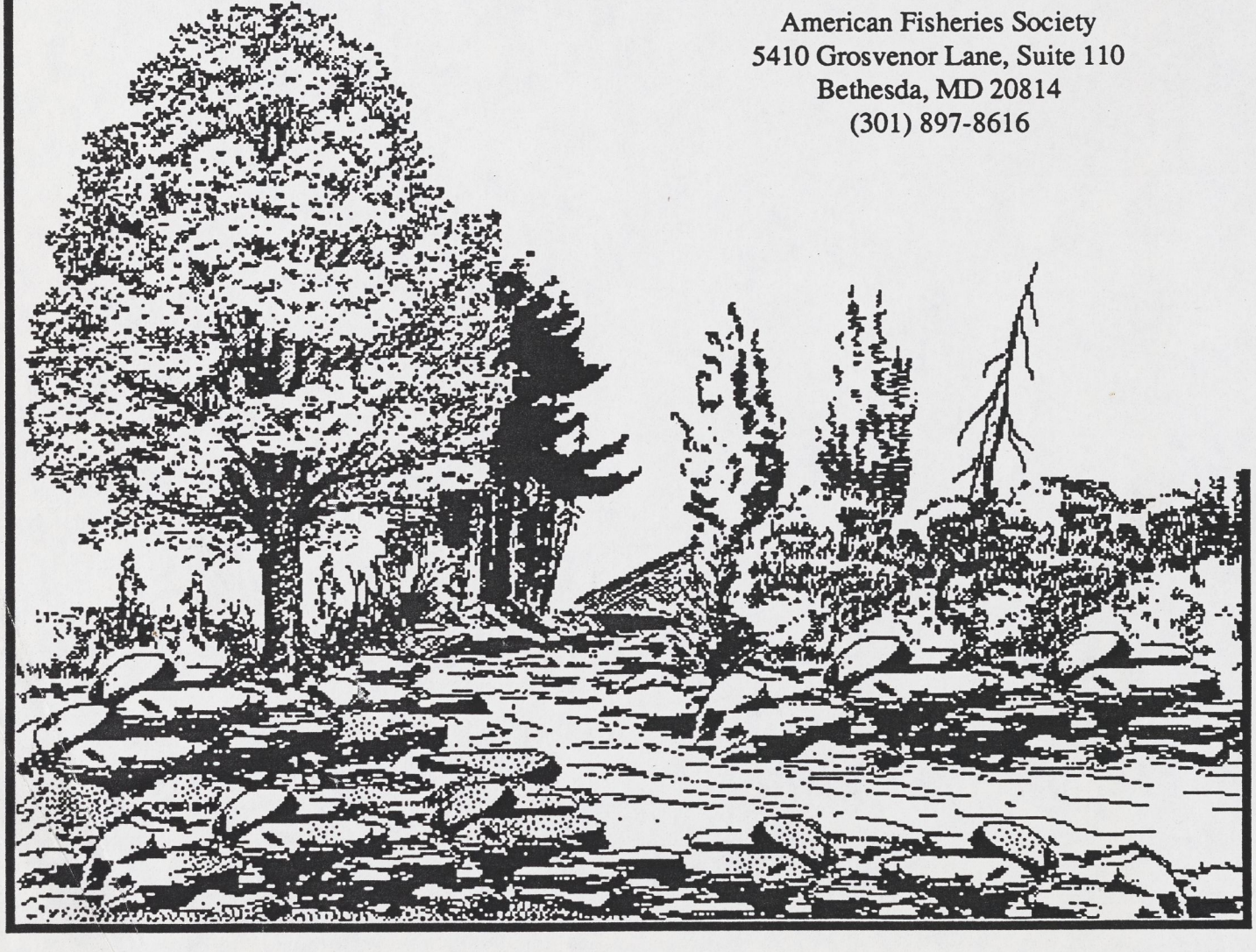
What Will It Do?

This video provides information on the natural evolution of stream channels and riparian areas in good condition and on what happens when these areas degrade as a result of poor management. The video also discusses management strategies effective in restoring riparian areas and strategies that may prove costly and ineffective.

Where Do You Get It?

Copies of the video tape, *Riparian Rehabilitation and Channel Evolution*, may be borrowed from the American Fisheries Society. Please direct all inquiries to the following address:

American Fisheries Society
5410 Grosvenor Lane, Suite 110
Bethesda, MD 20814
(301) 897-8616



Cooperative Rangeland Management
The Riparian Approach

What Is It?

Cooperative Rangeland Management-The Riparian Approach is a 21-minute video tape designed for use by all individuals interested in improving riparian resources as well as public rangelands. The program highlights a successful approach for cooperatively managing rangelands in the Bureau of Land Management's Green River Resource Area in the Rock Springs District, Wyoming.

Who Is It For?

This video tape is designed for use by all resource managers and user groups interested in working together to improve our public rangelands.

What Will It Do?

This program provides the viewer with an overview of a management strategy that has resulted in improved riparian habitat along 350-400 miles of streams. This strategy is based on three key factors; 1) the cooperation and commitment of all interested parties; 2) the need for flexibility in grazing management and 3) the importance of continuous evaluation and adjustment of management to meet desired objectives.

Where Do You Get It?

Copies of the video tape, *Cooperative Rangeland Management-The Riparian Approach*, may be borrowed in 1/2- or 3/4-inch formats from the American Fisheries Society. Please direct all inquiries to the following address:

American Fisheries Society
5410 Grosvenor Lane, Suite 110
Bethesda, MD 20814
(301) 897-8616

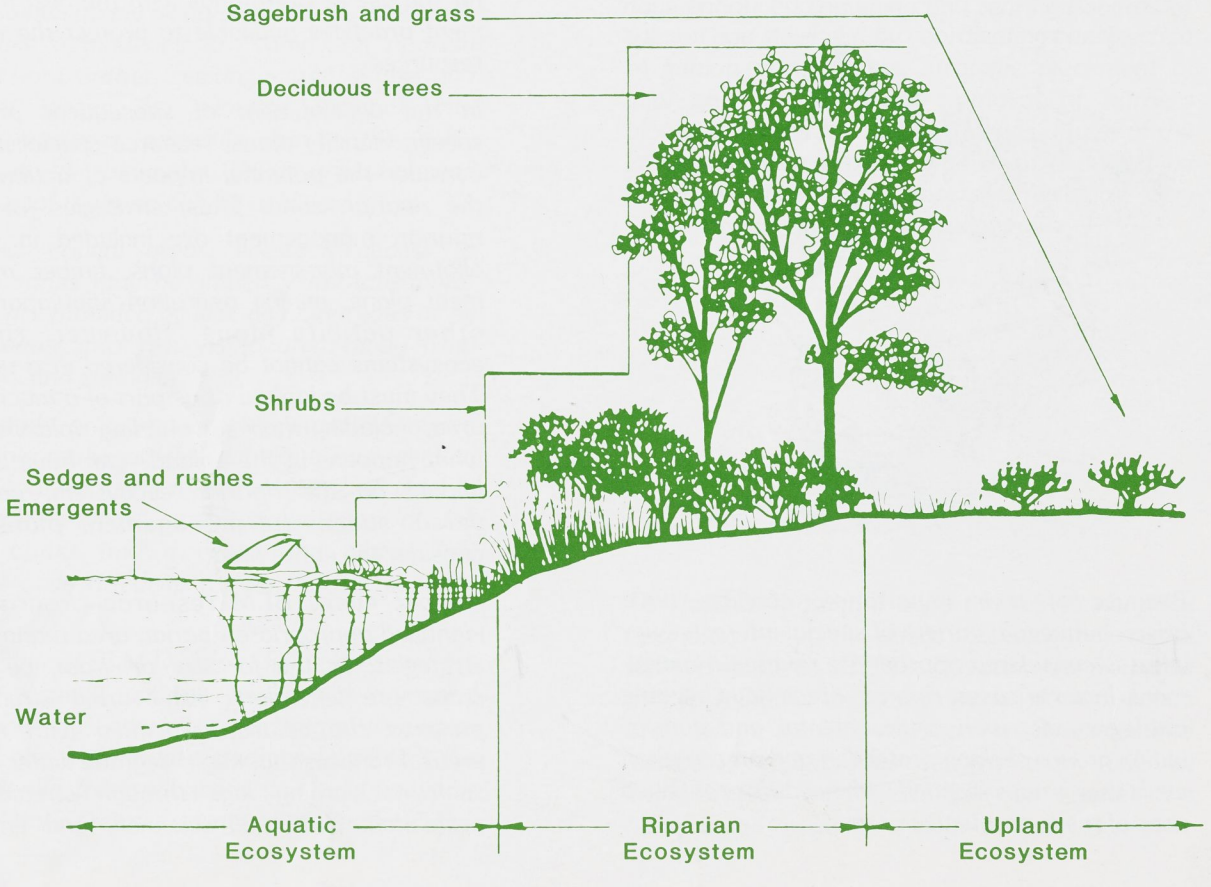
U.S. DEPARTMENT OF THE INTERIOR - BUREAU OF LAND MANAGEMENT

Riparian Area Management

What is a riparian area?

In layman's terms, riparian areas are the green zones along the banks of rivers and streams and around springs, bogs, wet meadows, lakes, and ponds. Among the most productive ecosystems found on public lands, they vary greatly in their nature and character. On BLM lands in western Oregon and California, riparian areas are characterized by a zone of deciduous trees and shrubs between the stream and the conifer forests. In Alaska, riparian areas are comprised of willows, alders, and meadow grasses along rivers, lakes, and bogs. In the arid climate of the Great Basin and Southwest, riparian areas are gems in the midst of the desert. They are characterized by grasses, forbs, sedges, woody shrubs, and trees, and are easily distinguished from drier upland vegetation.

Yet all riparian areas managed by BLM share the same characteristic—they are extremely valuable for a wide variety of purposes.



Why are riparian areas so valuable?

Riparian areas are unique and among the most productive and important ecosystems on the public lands. They display a greater diversity of plant and wildlife species and vegetation structure than adjoining ecosystems.

Healthy riparian systems purify water as it moves through the vegetation by removing sediment, and act like a sponge by retaining water in streambanks and ground water aquifers. Riparian vegetation along upper watershed streams can absorb and dissipate the energy of flood waters before they reach high value agricultural lands in lower valleys.

Many wildlife species are dependent upon the unique and diverse habitat niches offered by riparian areas. These habitats provide food, water, shade, and cover, and are valuable sources of forage for big game and livestock. Riparian vegetation is of critical importance for fish, especially for trout in desert streams where the vegetation provides escape cover, lowers summer water temperatures through shading, and reduces streambank erosion that can silt in spawning and rearing areas.

Riparian areas also are focal points for recreation, including fishing, camping, boating, hiking, and just plain loafing!

Because of their importance, conflicts have arisen between a variety of special interests over what is considered appropriate riparian management. In some cases, riparian areas have become battlegrounds, with environmental and conservation groups seeking protection and preservation while user groups respond with needs for continued uses of these productive areas.

What is BLM doing to manage riparian areas?

BLM managers are attempting to resolve these conflicts in such a manner that the natural resources are protected and used to their best advantage. To accomplish this, BLM emphasizes a multidisciplinary approach to riparian management, involving not only the traditional programs such as wildlife habitat management and soil, water, and air management, but also minerals, grazing, forestry, recreation, lands, and others.

During the late 1970's, BLM professionals began conducting inventories to determine the condition of riparian habitats and, where necessary, recommend management measures to maintain, restore, or improve important areas. Although some areas were found to be in less than desirable condition, the good news is that riparian areas are among the most resilient ecosystems. With proper management, healthy riparian systems can be restored.

The recommendations of the resource specialists are considered and evaluated by local BLM managers during the land use planning process, which incorporates several opportunities for public participation in decisionmaking. Based on this analysis, land use decisions are made that attempt to balance the diverse public demands for the use of BLM lands with the best management practices available to protect the riparian resources.

In the development of subsequent program-specific activity plans, resource specialists must consider the potential impacts of actions upon the riparian zone. Thus, strategies for sound riparian management are included in grazing allotment management plans, timber management plans, mining operation stipulations, and other activity plans. However, riparian ecosystems cannot be considered in a vacuum. They must be looked at as part of a much larger area, including their surrounding uplands. Since what happens in the uplands can have a major impact on the riparian ecosystem, and vice versa, successful management plans must consider the entire area.

Almost every BLM resource program has identified appropriate riparian area management strategies. In the forestry program, vegetative strips are left along fish-bearing streams to preserve the values associated with riparian areas. Practices that might degrade water quality, such as yarding logs through streams, are prohibited. BLM soil scientists and engineers

employ sophisticated techniques to properly design access roads into timber sales and mining areas, thus minimizing erosion into streambeds. Off-road vehicle use is often restricted in vulnerable riparian areas.

Minerals activities offer extensive opportunities for development of new riparian areas through innovative mitigation techniques for surface disturbances, including creating riparian wetlands by developing waters encountered in "dry" oil and gas wells and developing riparian/wetland areas in association with surge or evaporation ponds and reclamation design.

Across the Western States, many management practices are being employed to reduce the impact of livestock grazing on riparian areas. Recognizing that the costs of construction and maintenance make fencing all riparian areas impractical, and that livestock grazing and proper riparian management CAN be compatible, BLM managers are turning to grazing systems that consider the needs of livestock and the requirements for a healthy riparian system.

Referred to as the "riparian pasture concept," BLM range conservationists, biologists, and other resource specialists work with livestock operators to design grazing systems that reduce or eliminate livestock use from a pasture containing an important riparian area during the hot summer months, when nearly all damage occurs. Livestock often have a tendency to "camp" on riparian areas in hot weather, seeking water, shade, and succulent forage. By allowing livestock into riparian pastures primarily during the early spring, late fall, or winter, better utilization and protection of the area can be achieved.

In a few critical areas, livestock access to riparian zones may be limited. Alternate water sources are provided by leaving water gaps or by piping water into troughs located away from reservoirs and springs.

For example, on Camp Creek in eastern Oregon, this simple management technique has resulted in a six-foot increase in the stream bed level in less than 20 years, with revegetation of the stream banks and a year-round water flow where it once dried up during the hot summer months.

In a number of BLM Districts, field personnel are trying to speed up the healing of damaged watersheds by constructing instream structures such as check dams and gabions to protect the streambanks, trap sediments, and build up water tables. Other techniques may be equally useful, though less expensive to implement. For example, on the John Day River in eastern Oregon, juniper trees have been anchored to streambanks to prevent further erosion and trap soil.

Bureau employees in Wyoming have used the assistance of "nature's engineer"—the beaver—to rehabilitate eroding streams. Scarce building materials such as willow and aspen are delivered to the streams, where they are used by beavers as foundations for sturdy dams that can survive floods and build up streambanks and water tables. In some cases, even the beavers have been trapped and moved into riparian areas needing their assistance.

BLM biologists and engineers in western Oregon have enhanced spawning and rearing habitats of salmon and steelhead by coordinating construction of gabion check dams, strategic placement of logs and boulders, and removal of barriers blocking access to spawning areas. Much of the labor for these projects has been provided by volunteers from local sportsmen's clubs, Boy Scout troops, and college students.

To illustrate potential opportunities to enhance riparian areas to the public, State agencies, and BLM employees, BLM's Director has required that each District develop a riparian demonstration area, where the best management practices and instream habitat improvement work will be implemented. Such areas will demonstrate the benefits and resiliency of riparian systems.

BLM biologists, soil scientists, range conservationists, and hydrologists also are monitoring riparian areas to determine if the land use plans and subsequent management actions are meeting the resource objectives. Biologists in western Oregon are conducting detailed long-term studies of salmon populations in logged watersheds and in streams where fish habitat improvement work has been completed. Soil scientists and hydrologists monitor water quality and streambank erosion. Biologists and range conservationists use a variety of techniques, including photo plots, vegetation transects, low level aerial photography, and aquatic insect sampling to determine the health of riparian systems. This information is used to advise the managers on the effectiveness of land use and activity plans and to recommend where changes in management strategies are needed.

BLM also is involved in acquiring new and critical riparian areas through land exchanges with States and private individuals. In Arizona alone, BLM has acquired more than 157,000 acres of prime riparian habitat during the last two years. The most significant of these acquisitions is a 43,000-acre tract along the San Pedro River in southeastern Arizona. The area serves as a migration corridor for tropical wildlife species moving into and out of Mexico and provides habitat for hundreds of other wildlife species, including almost 20 percent of Arizona's nesting population of the rare gray hawk. It also is one of the most significant large broadleaf riparian areas remaining in the State.

What can you do to help?

Maintaining and improving riparian areas requires the help of all users of the public lands. BLM encourages the involvement of sportsmen's groups, Boy Scouts, college students, and others in projects such as constructing gabions, planting planting trees and shrubs along streams and reservoirs, and assisting in monitoring and study efforts. Conservation organizations can assist on-the-ground efforts by participating in programs such as challenge grants, in which private investment dollars are matched by Federal funds.

State fish and game agencies have entered into cooperative agreements with BLM through habitat management plans and coordinated resource management plans for the protection of fish and wildlife habitats associated with riparian areas. Private land owners and livestock operators are working with local BLM officials, county extension agents, and local soil and water conservation districts to protect and improve riparian areas on both private and public lands.

How will BLM's riparian area management benefit you?

All users of the public lands will benefit from properly managed riparian areas. Livestock operators will protect critical sources of livestock water and forage, and significantly reduce the threat of flood damage to their private lands. Sportsmen will enjoy more abundant wildlife and higher quality hunting and fishing experiences. Nature enthusiasts will encounter more numerous and diverse wildlife and plant species. And recreationists will find their visit to the public lands more aesthetically pleasing.

Proper management of our riparian resources is a complex job; a challenge that none of us—the Bureau, the permittee, or other affected interest—can afford to ignore.

Bureau of Land Management

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INTERNATIONAL ANGLER

VOL. 60, NO. 6
NOV.-DECEMBER, 1998

Barta Marlin Classic Going Worldwide For 1999 Action

The third annual Barta Blue Marlin Classic April 21-24, 1999 at Walker's Cay, Bahamas, has been expanded to include international competition. The "World Barta Blue Marlin Classic" will allow teams to fish their own waters under the same format: single hook, clean dead bait, and 100% release.

Pacific blue marlin, black marlin and spearfish have been added to the eligible species list to accommodate international participants.

"Now, anglers worldwide have an opportunity to compete in a one-of-a-kind tournament," said Capt. Tred Barta, the event's founder and driving force. "A tournament dedicated to our most precious resource -- kids!"

Tournament proceeds will again benefit IGFA's Junior Angler program. In 1997, 55 boats participated. It has become evident that Capt. Barta's theme of honesty and light tackle are here to stay as 72 boats and over 600 persons descended

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Kona, Hawaii is not only famous for big blue marlin, but spearfish are also caught in the calm, near shore waters.

Hawaii's Kona Coast Picked for IGFA's 'Tournament of Champions' in 2000

IGFA has announced the first list of qualifying events for its Invitational Tournament of Champions (ITOC) scheduled for the year 2000. The 31 tournaments selected represent over 10,000 anglers, 14 countries and 8 states. More are expected to join the list in the next few weeks.

The Tournament of Champions will consist of the winning teams from each of the qualifying events, and will take place off the Kona coast on the big island of Hawaii in the spring of 2000, tentatively in late March.

IGFA President Mike Leech said, "We selected Kona for the championship tournament because of the beautiful locale, year-round calm waters, great charter boats and crews, and the ability to catch large marlin year round."

Leech also said the IGFA is working with several additional tournaments expected to be approved as qualifying events in 1999. A major sponsor for the

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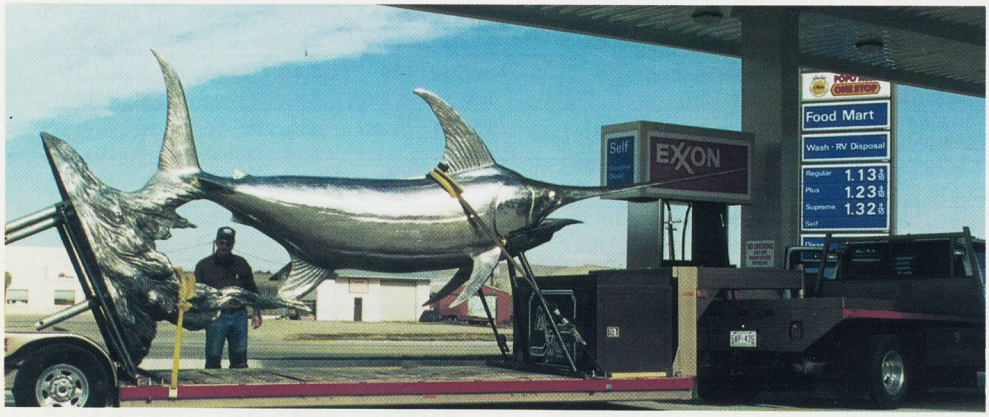


Kent Ullberg's "Sword Dance" is on the way to IGFA's World Fishing Center in Dania Beach, Florida. The stainless steel 24-feet high statue will be placed in front of the center where it will be highly visible for the millions passing by on I-95.

IGFA's State Freshwater Program Starts on Jan. 1

IGFA will begin keeping freshwater line class records for all 50 states starting on January 1. Initially the line classes designated are 4 lb, 12 lb and 20 lb and all eligible fish must be caught according to IGFA rules. **For information see pages 9-to-12.**

NEW WORLD RECORDS

Included are all world angling records granted since publication of the NOVEMBER-DECEMBER issue of THE INTERNATIONAL ANGLER.

ALL-TACKLE

SPECIES	SCIENTIFIC NAME	WEIGHT	PLACE	DATE	ANGLER
Buri (Japanese amberjack)	*Seriola quinqueradiata*	9.50 kg 20 lb 15 oz	Miyazu, Kyoto Japan	April 29, 1998	Toshiyuki Fujioka
Catfish, flathead	*Pylodictis olivaris*	55.79 kg 123 lb 9 oz	Elk City Reservoir Independence, Kansas, USA	May 14, 1998	Ken Paulie
Catshark, smallspotted	*Scyliorhinus canicula*	.90 kg 1 lb 15 oz	Holmestrand Norway	May 23, 1998	Bjoers Borgensen
Dolphinfish	*Coryphaena hippurus*	39.91 kg 88 lb	Highbourne Cay Exuma, Bahamas	May 5, 1998	Richard D. Evans
Filefish, scrawled	*Aluterus scriptus*	2.15 kg 4 lb 11 oz	Pompano Beach Florida, USA	Jan. 20, 1998	Jonathan Mark Angel
Grouper, speckled blue	*Epinephelus cyanopodus*	16.30 kg 35 lb 14 oz	Chichijima, Ogasawara Tokyo, Japan	April 10, 1998	Takeshi Uesugi
Grouper, yellowedge	*Epinephelus flavolimbates*	11.39 kg 25 lb 2 oz	Gulf of Mexico Texas, USA	May 3, 1998	Alan L. Miller
Houndfish	*Tylosurus crocodilus*	3.34 kg 7 lb 6 oz	Victory Reef Bahamas	June 22, 1998	Rick Lundell
* Huchen, Japanese	*Hucho perryi*	2.80 kg 6 lb 2 oz	Sarufutsu River Hokkaido, Japan	May 15, 1998	Kaji Narita
Huchen, Japanese	*Hucho perryi*	3.35 kg 7 lb 6 oz	Poronuma Hokkaido, Japan	May 23, 1998	Takashi Yamada
Moray, purplemouth	*Gymnothorax vicinus*	.75 kg 1 lb 10 oz	Port Everglades Reef Florida, USA	June 19, 1998	Rene G. De Dios
Moray, viper	*Enchelycore nigricans*	1.32 kg 2 lb 14 oz	Fowey Light Florida, USA	May 25, 1998	Rene G. De Dios
Perch, European	*Perca fluviatilis*	1.50 kg 3 lb 4 oz	Eidsvoll Norway	June 13, 1998	Johnny Hogli
Puffer, smooth	*Lagocephalus laevigatus*	2.99 kg 6 lb 9 oz	Orange Beach Alabama, USA	June 3, 1998	Randall H. Atherton
Sandperch, namorado	*Pseudopercis numida*	20.20 kg 44 lb 8 oz	Rio de Janeiro Brazil	March 7, 1998	Eduardo Baumeier
Seabream, Okinawa	*Acanthopagrus sivicolus*	2.15 kg 4 lb 11 oz	Amami-oshima Kagoshima, Japan	April 29, 1998	Hidehira Ike
Seabream, yellowfin	*Acanthopagrus latus*	1.50 kg 3 lb 4 oz	Nishinomiya Port Hyogo, Japan	June 1, 1998	Tsunehisa Wake
Snapper, emperor	*Lutjanus sebae*	16.00 kg 35 lb 4 oz	Chichijima, Ogasawara Tokyo, Japan	April 10, 1998	Takeshi Uesugi
Trevally, bluefin	*Caranx melampygus*	11.99 kg 26 lb 7 oz	Clipperton Island	March 24, 1997	Tom Taylor
Trout, red-spotted masu	*Oncorhynchus masou macrostomus*	1.54 kg 3 lb 6 oz	Yoshino River Tokushima, Japan	May 17, 1998	Akihiko Masutani
Wels	*Silurus glanis*	36.28 kg 80 lb	River Erbo Aldover, Spain	July 7, 1998	Valerie Hall
Yellowtail, Asian	*Seriola lalandi aureovitta*	21.20 kg 46 lb 11 oz	Inanba, Tokyo Japan	May 9, 1998	Hideki Urushibara

LINE CLASS

SPECIES	LINE CLASS	WEIGHT	PLACE	DATE	ANGLER
Bass, rock	01 kg (2 lb)	.90 kg 2 lb	Lake Erie Pennsylvania, USA	June 18, 1998	Herbert G. Ratner, Jr.
Bass, rock	02 kg (4 lb)	.90 kg 2 lb	Lake Erie Pennsylvania, USA	June 18, 1998	Herbert G. Ratner, Jr.
Bass, rock	03 kg (6 lb)	1.13 kg 2 lb 8 oz	Lake Erie Pennsylvania, USA	June 18, 1998	Herbert G. Ratner, Jr.
Bass, rock	04 kg (8 lb)	1.36 kg 3 lb	Lake Erie Pennsylvania, USA	June 18, 1998	Herbert G. Ratner, Jr.
* Bluegill	03 kg (6 lb)	.63 kg 1 lb 6 oz	Lake Permis California, USA	May 31, 1998	Gilbert J. Rowe
Bluegill	03 kg (6 lb)	.68 kg 1 lb 8 oz	Pace Florida, USA	June 5, 1998	Lori Cooper
Bullhead, brown	03 kg (6 lb)	2.74 kg 6 lb 1 oz	Waterford New York, USA	April 26, 1998	Bobby Triplett
Catfish, flathead	04 kg (8 lb)	55.79 kg 123 lb 9 oz	Elk City Reservoir Independence, Kansas, USA	May 14, 1998	Ken Paulie
Cod, Pacific	M-02 kg (4 lb)	7.25 kg 16 lb	Kodiak Alaska, USA	June 9, 1998	Paul Leader
Cod, Pacific	M-03 kg (6 lb)	7.71 kg 17 lb	Kodiak Alaska, USA	June 9, 1998	Paul Leader
Cod, Pacific	M-06 kg (12 lb)	7.25 kg 17 lb	Kodiak Alaska, USA	June 9, 1998	Paul Leader
Cod, Pacific	W-03 kg (6 lb)	6.80 kg 15 lb	Kodiak Alaska, USA	June 9, 1998	Jacqueline Leader

Continued on page 6

Junior Angler Event Gives 175 Youngsters Smashing Good Time

The International Game Fish Association's 2nd Annual Junior Angler Tournament was a day packed full of excitement and smiles for 175 young anglers who came out to participate under sunny skies on Saturday, October 10 at the Sands Harbor Hotel and Marina in Pompano Beach, Florida.

Eligible species included dolphin, king mackerel, wahoo, cobia, yellowfin or blackfin tuna (with a special permit), snapper, grouper, largemouth or peacock bass, freshwater catfish and bowfin. Billfish and sharks had to be released, and certificates were issued for releases. IGFA rules had to be abided by.

There were free hot dogs and sodas for all anglers, and a raffle drawing which included a bicycle and skateboard. "Officer Snook" was on hand to spread the message about water pollution prevention, as well as a representative from the U.S. Coast Guard. Each angler received an overstuffed goody bag and a one-year junior membership in IGFA. Prizes included four savings bonds totaling $950, and trophies for each division winner. The event's cosponsor, the Pompano Beach Fishing Rodeo and 10 corporate partners have pledged $120,000 toward the Junior Angler Exhibit Area in the IGFA World Fishing Center due to open in December.

A lot of fish were caught and, most of all, the kids had a wonderful time and showed terrific sportsmanship. John Bassett, 7, caught the heaviest fish, a 15 lb king mackerel. Kevin Jones, 11, was runnerup with a 14.1 lb king mackerel. The heaviest freshwater fish was a 6.9 lb bowfin by Matthew Melchiorre, 14.

Kids Quote

"The closer she came the bigger she seemed to get. Finally we got her in. It was a 41 and 1/2 pound drum. My second biggest fish! My first was a 49 pound drum with Capt. George.

"It was a great evening. I had never felt so good in my life because I knew I had a world record.

"P.S. The 49 pounder I caught last year was before I knew about the program."

– Grayson F. Swain, 12, reporting on his red drum catch.

Parents: Check Out Junior Angler Club!

Answering the Numbers Challenge

Ambitious Anglers Log Amazing Feats

In the May-June 1998 issue of the *International Angler*, IGFA asked the question: "Who has caught the most IGFA line class species?" There are 92 saltwater species and 81 freshwater species of gamefish for which IGFA maintains line class records. We received some interesting responses.

Perhaps the most amazing report comes from Patric A. McDaniel of Orlando, Florida. His goal many years ago was to catch 100,000 freshwater fish in 50 years. He's ahead of schedule. Now in his 39th year of fishing, his total stands at 97,497 fish. He started at age 14. Needless to say, his catches are computer recorded and he releases most of his fish.

It's hard to say how many different species McDaniel has caught since he lumps them in categories such as catfish, suckers, crappies, and sunfish. His most prolific decade was the 1970s when he caught 28,861 fish or about 8 fish per day on average.

It has taken Joe S. Krzykwa of Sault Sainte Marie, Michigan only 20 years to catch his 345 species of which 80 are IGFA line class species. He has 52 freshwater line class species and 28 from saltwater. During his species quest, he has traveled to all 50 states, 19 countries and 3 continents.

Rick Princenthal is a billfish specialist having caught all nine species, but along the way also managed to record 153 different species of fish. Sixty-five of these were IGFA line class species including 43 saltwater and 22 freshwater species. It was a swordfish that closed out his 9th billfish species. He caught it by deep dropping during daylight at Venezuela.

During his 50 years of keeping a log, B.J. Nuremberg of Los Angeles gets as much pleasure out of catching new species as a trophy-size old one. He currently has caught 54 of the IGFA line class species; 24 of them saltwater and 30 freshwater species.

Freshwater angler Gary Nelson, a writer from Arkansas, has caught 48 of IGFA's 81 freshwater line class species. Steve Carson from Chico, California also has 48 line class species to his credit including 21 freshwater and 27 saltwater fish. Over 30 years of fishing he has logged 184 species altogether.

Luis Flores from Guayaquil, Ecuador has spent 43 of his 81 years catching 34 line class species. He used to fish every Saturday and Sunday, but eight decades has slowed him down to just one day fishing a week.

Last June he was fishing in his 31' Bertram with only his mate for company when he caught a blue marlin over 300 lb. Within two hours he was hooked up again to doubleheader blues. By the time he landed the first marlin, the second rod in the holder had been spooled and only the knot held the fish on 50-lb line. Undaunted, Flores picked up the rod, recovered all the line, and caught the fish which weighed 306 lb. Not bad for an 81 year-old angler!

We don't know how many species Fred Hayward has caught, but as a member of the Whangarei Line and Light Rod Fishing Club in New Zealand, he holds 38 association records and 24 New Zealand Fishing records, as they say in New Zealand, he is a "very keen fisher."

We also received a response from Luis Valldejuli of Puerto Rico. He asks the question, has anyone caught more than his 164 blue marlin in sanctioned tournaments in Puerto Rico? All but nine were released. His well-known boat *Margara* has caught another 21 blues in tournaments in the Dominican Republic and the Virgin Islands. If anyone has caught more blue marlin in tournaments, IGFA would be interested in hearing about it.

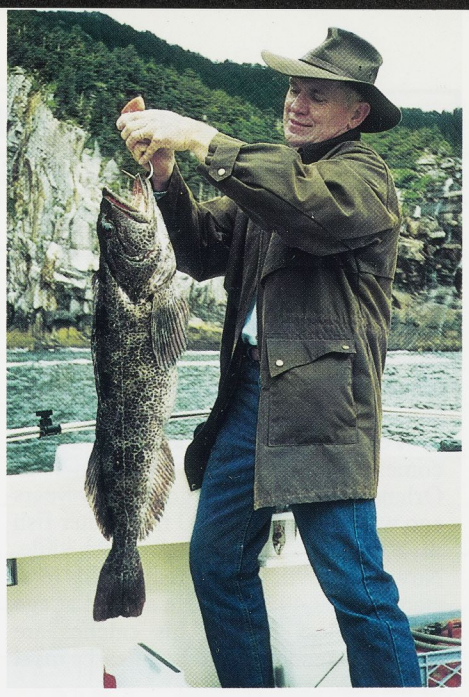
Fishy Quote

"All assessments which take account of all sources of catch, regardless of the assumed bycatch estimate or juvenile and adult natural mortality rates indicate that transitional SPR (spawning potential ratio) is in the region of 1%" – From Consolidated Report on the Peer Review of Red Snapper, confirming the drastically overfished condition of red snapper in the Gulf of Mexico.

Internet Site Offers Fishing Information

There's a new, highly informative internet site on the web called "Fish The World.com". It provides the avid internet angler with daily fishing reports submitted by top captains worldwide. This site also has combined excellent buoy reports, marine forecast, moon phase, satellite image, sea surface temperature, tide/current and various other ocean/weather information, all in one site. You can find this site at www.fishtheworld.com. Reporter or sponsor inquiries should be directed to: (954) 491-1935 or e-mail at conocean@aol.com.

Susan Cocking, left, fishing writer for the *Miami Herald*, stands with her 29 lb permit and weighmaster Ann McDonald on the dock at Key West, Florida last May. The permit was attracted by a shrimp-patterned fly and resulted in a world record women's 20-lb saltwater tippet catch.



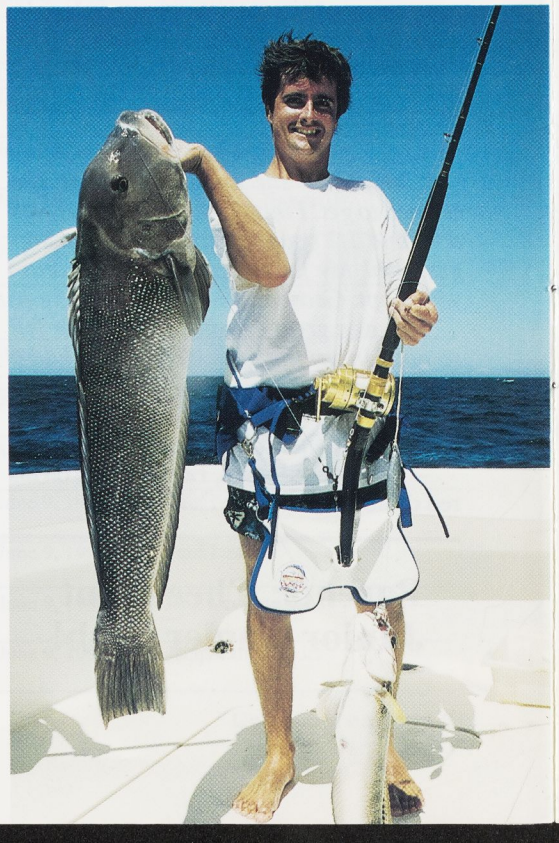
John Aarnink caught this 18 lb lingcod last July in Seward, Alaska to fill the vacant 6-lb fly rod tippet class. Aarnink, from nearby Anchorage, used his own tube fly design he calls "skinny rib" to make the record catch.

Takeshi Uesugi's 35 lb 4 oz emperor snapper *(Lutjanus sebae)* caught last April at Chichijima, Ogasawara, Tokyo, more than doubled the old all-tackle record of 16 lb 5 oz, also from Japan.

Jing Torn, fly fishing from the beach at Jupiter, Florida, last June, was able to weigh, photograph and release this 16 lb crevalle jack. She earned a women's saltwater fly fishing world record in the 8-lb tippet class.

Californian Fariba Zand took a fishing trip to Dutch Harbor, Alaska last June and returned with two 16-lb women's line class records. One was this 222 lb Pacific halibut which shattered the old 165 lb mark set in 1989, and the other was a 19 lb Pacific cod taken a day earlier.

Bottom fishing from the *Isabel* out of Rio de Janeiro, Brazil last March produced an all-tackle world record for Eduardo Baumeier. He is pictured with this 44 lb namorado sandperch, *Pseudopercis numida*, which was taken on a circle hook with cut mackerel bait.



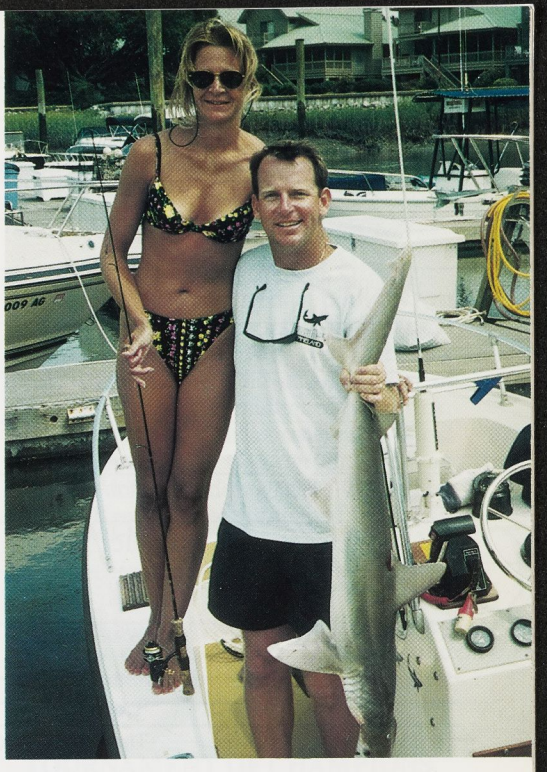
WORLD RECORD GALLERY

IGFA has granted 88 new world records since publication of the September/October issue of the *International Angler*. The records listed in this issue (pages 2-6-14) include 22 all-tackle, 23 line class (10 freshwater, 13 saltwater), and 43 fly rod records (8 freshwater 35 saltwater). The total for the year is 435 records.

Valerie and David Hall show off her all-tackle record 80 lb wels taken last February at Aldover, Spain. She was able to release the big cat back into the river and said, "This is my first catfish and I hope it will not be my last."

Here's one for the "all's well that ends well" department. Tom Taylor caught a 26 lb 7 oz bluefin trevally on 20-lb tippet during a long-range trip out of San Diego to Clipperton Island in March 1997. However, his application for a fly rod record arrived at IGFA headquarters too late for consideration. Taylor learned later that the fish was bigger than the all-tackle record. He re-submitted the application since the time limit is waived for all-tackle records, and it was approved.

Casting for crappie with minnows last May along the dam at the Elk City Reservoir near Independence, Kansas, resulted in a big surprise for Ken Paulie. He felt a giant tug at the end of his line and 25 minutes later hauled in this 123 lb flathead catfish that shattered the 17-year-old all-tackle mark of 91 lb 4 oz from Texas.



Angler Tonya Jones gets a helping hand from her husband Rick Jones who's holding up her 15 lb 8 oz hammerhead shark, a women's 6-lb line class world record. Tonya caught the shark off Hilton Head Island, South Carolina last June.

Mark Gates, left, and guide Scott Keller hold up this 35 lb 2 oz brown trout that earned a 12-lb tippet class fly rod record for Gates. The trout was taken on a "girtle bug" fly last March in the Rio Grande, Tierra del Fuego, Argentina.

Hideki Urushibara caught this 46 lb 11 oz Asian yellowtail off the coast of Inanba, Tokyo, Japan last May to earn an all-tackle world record. The old record of 40 lb 5 oz had stood since 1982, and was also taken off Tokyo.

Cod, Pacific	W-04 kg (8 lb)	9.07 kg 20 lb	Sequal Point Kodiak Island, Alaska, USA	May 22, 1998	Sally Magnuson
Cod, Pacific	W-06 kg (12 lb)	7.25 kg 16 lb	Kodiak Alaska, USA	June 9, 1998	Jacqueline Leader
Cod, Pacific	W-08 kg (16 lb)	8.61 kg 19 lb	Dutch Harbor Alaska, USA	June 23, 1998	Fariba Zand
Crappie, black	04 kg (8 lb)	1.64 kg 3 lb 10 oz	Lake Logan Martin Alabama, USA	March 21, 1998	Mark E. Williamson
Gar, shortnose	04 kg (8 lb)	.90 kg 1 lb 15 oz	Red Rock Dam Pella, Iowa, USA	July 26, 1998	Dan Lopez
Halibut, Pacific	W-08 kg (16 lb)	100.69 kg 222 lb	Dutch Harbor Alaska, USA	June 24, 1998	Fariba Zand
Shark, hammerhead	W-03 kg (6 lb)	7.04 kg 15 lb 8 oz	Hilton Head Island South Carolina, USA	June 9, 1998	Tonya B. Jones
Snapper, mutton	W-15 kg (30 lb)	7.93 kg 17 lb 8 oz	Islamorada Florida, USA	May 25, 1998	Mary Katherine DeFoor
Tripletail	M-10 kg (20 lb)	18.51 kg 40 lb 13 oz	Ft. Pierce Florida, USA	March 4, 1998	Thomas D. Lewis
Tuna, blackfin	M-04 kg (8 lb)	14.51 kg 32 lb	Miami Florida, USA	June 7, 1998	Joseph G. Singer
Yellowtail, southern	W-08 kg (16 lb)	24.80 kg 54 lb 10 oz	Cavalli Island Bay of Islands, New Zealand	Aug. 6, 1998	Karene Cates

FLY ROD

SPECIES	TIPPET CLASS	WEIGHT	PLACE	DATE	ANGLER
Albacore	Tippet M-03 kg (6 lb)	4.71 kg 10 lb 6 oz	San Diego California, USA	June 23, 1998	Gary Brettnacher
Bass, kelp (calico)	Tippet M-03 kg (6 lb)	1.85 kg 4 lb 1 oz	Palos Verdes California, USA	June 23, 1998	Dr. John F. Whitaker
Bluefish	Tippet W-04 kg (8 lb)	6.35 kg 14 lb	Cape Cod Bay Massachusetts, USA	July 19, 1998	Acha Lord
Bowfin	Tippet 10 kg (20 lb)	3.77 kg 8 lb 5 oz	Buzz's Lake Mount Vernon, Alabama, USA	July 12, 1998	Robert T. Cunningham, Jr.
Buffalo, bigmouth	Tippet 02 kg (4 lb)	4.08 kg 9 lb	Rend Lake Illinois, USA	April 14, 1998	Rick Hayden
Buffalo, bigmouth	Tippet 03 kg (6 lb)	4.98 kg 11 lb	Oahe Tailwater South Dakota, USA	May 2, 1998	Rick Hayden
Carp, common	Tippet 03 kg (6 lb)	7.80 kg 17 lb 3 oz	Lake Austin Texas, USA	May 11, 1998	Gibbs Milliken
Carp, common	Tippet 10 kg (20 lb)	13.40 kg 29 lb 8 oz	Town Lake Austin, Texas, USA	May 5, 1998	Gibbs Milliken
* Dolphinfish	Tippet M-02 kg (4 lb)	9.29 kg 20 lb 8 oz	Islamorada Florida, USA	June 7, 1998	Glenn L. Scott
Dolphinfish	Tippet M-02 kg (4 lb)	10.43 kg 23 lb	Gulf of Mexico Alabama, USA	June 20, 1998	Robert T. Cunningham, Jr.
Dolphinfish	Tippet W-02 kg (4 lb)	3.40 kg 7 lb 8 oz	Islamorada Florida, USA	June 14, 1998	Acha Lord
* Dolphinfish	Tippet W-03 kg (6 lb)	3.26 kg 7 lb 3 oz	Islamorada Florida, USA	June 13, 1998	Acha Lord
Dolphinfish	Tippet W-03 kg (6 lb)	8.98 kg 19 lb 13 oz	Islamorada Florida, USA	July 6, 1998	Annie Pope
Dolphinfish	Tippet W-04 kg (8 lb)	2.80 kg 6 lb 3 oz	Islamorada Florida, USA	June 13, 1998	Acha Lord
Dolphinfish	Tippet W-06 kg (12 lb)	10.03 kg 22 lb 2 oz	Islamorada Florida, USA	June 13, 1998	Acha Lord
Dolphinfish	Tippet W-08 kg (16 lb)	12.47 kg 27 lb 8 oz	Islamorada Florida, USA	June 7, 1998	Courtney H. Scott
* Flounder, summer	Tippet M-04 kg (8 lb)	.72 kg 1 lb 9 oz	Montauk New York, USA	June 14, 1998	William Kuhle
* Flounder, summer	Tippet M-04 kg (8 lb)	.81 kg 1 lb 12 oz	Montauk New York, USA	June 15, 1998	William Kuhle
* Flounder, summer	Tippet M-04 kg (8 lb)	.90 kg 2 lb	Montauk New York, USA	June 16, 1998	William Kuhle
* Flounder, summer	Tippet M-04 kg (8 lb)	.96 kg 2 lb 3 oz	Montauk New York, USA	June 17, 1998	William Kuhle
* Flounder, summer	Tippet M-04 kg (8 lb)	1.08 kg 2 lb 6 oz	Montauk New York, USA	June 20, 1998	William Kuhle
Flounder, summer	Tippet M-04 kg (8 lb)	2.35 kg 5 lb 3 oz	Montauk New York, USA	June 25, 1998	William Kuhle
Jack, crevalle	Tippet W-04 kg (8 lb)	7.25 kg 16 lb	Jupiter Florida, USA	June 11, 1998	Jing Torn
Jack, crevalle	Tippet W-08 kg (16 lb)	9.07 kg 20 lb	Jupiter Florida, USA	June 12, 1998	Jing Torn
Lingcod	Tippet M-03 kg (6 lb)	8.16 kg 18 lb	Seward Alaska, USA	July 2, 1998	John Aarnink

Continued on page 14

O'Leary's 732 Lb Blue Wins Record-Setting Bisbee's Black & Blue

Once again in 1998, the Bisbee's Black & Blue Marlin Jackpot Tournament at Cabo San Lucas, Mexico maintained its status as the richest sportfishing event in the world with $1,663,410 in cash prizes. "El Niño put a damper on our fishing last year," said tournament director Wayne Bisbee, "but this year we broke every billfish catch record on file in our 18-year history."

Overall, 232 billfish were released and 68 were tagged, giving the event an impressive 92% release ratio. Of the few marlin that did come to the weigh station, it took a whopper to win. Beating out 708 anglers on 175 boats, Erren O'Leary's 732 lb blue marlin on the last day of fishing put his team aboard the *Chipper* into the big money.

"It's exciting," commented Wayne Bisbee, "that each of the players on the New York Yankees received just over $300,000 for winning the World Series and our team aboard the *Chipper* earned $535,380 solidifying the fact that big game tournament fishing has arrived."

An equally impressive second place in the event was captured by the team on *Bad Company* with angler Tracy Melton's 498 lb blue marlin, garnering them a respectable $491,685.

In a twist of fate, third place in the Black & Blue went to Terry Kubitz of Chicago on the *Vino Fino* in his first attempt at competitive sportfishing. He caught a 439 lb blue and took home $282,645. Not bad for a billfishing tournament rookie!

In addition to the substantial cash angler awards, the tournament also gave several sizable donations to charity. Beneficiaries of the Black & Blue's generosity included local hospitals, schools and charities in Cabo, as well as a substantial donation to IGFA's Junior Angler Program.

The Bisbee's Black & Blue Marlin Jackpot Tournament serves as the final leg and grand finale of the World Billfish Series (WBS) comprised of six of the most prestigious marlin fishing events in the world. The WBS' International Open Championship will award close to $4,000,000 in cash prizes and donate more than $400,000 to charity in 1999.

The dates for the 1999 Black & Blue Marlin Jackpot Tournament are October 19-23. For more information write: the World Billfish Series headquarters, 425 North Newport Blvd., Suite D, Newport Beach, CA 92663. Phone: 949-650-8006.

Sailfish Club Invites Gold Cup Participants

The Sailfish Club of Florida's annual Gold Cup Tournament January 12-16 coincides with the annual IGFA Banquet & Auction and World Fishing Center grand opening week-long events. The tournament committee will be pleased to receive requests for invitations from qualified teams coming to attend the IGFA events. Contact Jennifer Gerken, executive assistant, Sailfish Club of Florida, 1338 North Lake Way, Palm Beach, FL 33480, phone (561)844-0206.

534 Lb Blue Marlin Wins Mid-Atlantic

A total of 231 white marlin and 17 blue marlin were released during the $500,000 Mid-Atlantic tournament hosted by the Canyon Club at Cape May, New Jersey in August. The winning blue marlin weighed 534 lb taken by Noam Glaser on *Bluewater Bandit*. Jerry Leerink on *Speculator* was second with a blue of 468 lb, and Chris Kritikos on *Karyatis* was third with a 412 lb blue.

The largest white marlin caught was Charlie Duerr's 74-pounder on *Sea Hag*. He edged Ted Jorgenson's 71 lb white caught on *Pipe Dream*. Most points compiled by boats in the various divisions were: white marlin, John Bayliss' *Hatteras 70,* 1,191 points; blue marlin, Greg Hill's *Northstar*, 300 points, and tuna, Frank Criscola's *Crisdel*, 232 points.

U.S. Team on *Erika* Wins Havana Tourney

A total of 86 anglers tagged and released 43 blue marlin during the annual Blue Marlin International Billfish Tournament at Club Hemingway in Havana. Another three blue marlin, one white marlin, and one sailfish were released without tagging to bring the total to 48. No fish were brought to dock in this all-release format.

The winning team with 1,750 points consisted of Jim Butters, Denis Bogan, Brian Cone and Alfredo Planas on *Erika*. Second place went to the Cuban team, Marina Puerto Sol Tarara, with Oscar Osteen, Armando Llano, Mario Fuentes, Enrique Ramil and Marilin Verdecia, also with 1,750 points.

Marine Executive Wins Key West Slam

Scott Deal released a permit, two tarpon and two bonefish to win grand champion honors at the Mercury Outboard SLAM, held in September in Key West. Deal, president of Maverick, a manufacturer of flats boats, said, "I lost two bonefish and two permit, and you usually don't win doing that." Guided by Mark Krowka, Deal finished with 650 points, 150 better than runnerup and last year's champion Dan Root who released two tarpon and one bonefish. Tournament director Gary Ellis reported releases of five permit, 32 tarpon and nine bonefish by the 70 anglers that competed.

TOURNAMENT OF CHAMPIONS

Continued from page 1

world event will be announced soon, and Leech said he is talking to several potential producers to televise the championship.

IGFA's championship tournament is just the first move in a series of world class events that will include an inshore light tackle world championship series scheduled for 2001 and a freshwater world championship event in 2002. Leech pointed out that IGFA is uniquely qualified to organize these types of events since the nonprofit conservation association has members and/or representatives in about 125 countries. Many IGFA representatives and trustees have experience running tournaments.

For further information, call IGFA (800) 442-4665 or (954) 941-3474.

(See list of qualifying tournaments on page 14.)

Salt Water Sportsman 1999 Fishing Seminar Starts January 9

Salt Water Sportsman Magazine's national seminar series on marine sportfishing techniques will kick off its 1999 tour on Saturday, January 9 in Davie, Florida. From there the tour stops in Long Beach, California on Jan. 16; College Park Maryland on Jan. 23; Sarasota, Florida on Jan. 30; Richmond, Virginia on Feb. 6; Wilmington, NC on Feb. 20; Charleston, SC on Feb. 27, and Fairfield, Connecticut on March 6.

The 9 a.m. to 4 p.m. presentations will feature George Poveromo, angling authority and senior editor for *Salt Water Sportsman* Magazine, and publisher Spider Andresen. Fee is $40. For information call 1-800-448-7360.

Teamwork Pledged to Protect Sport Fishing in Central America

Recognizing the billion-dollar-plus value of sport fishing to Central America, the first Sport Fishing Economic Conservation Conference was held on September 30 in Panama City, Panama. Thirty concerned business owners, government officials, academic leaders, and angling enthusiasts from Panama, Costa Rica, El Salvador, Guatemala, Venezuela and the United States laid the groundwork to take the sport fishing industry to a higher level in Central America.

Presiding over the meeting was Marcos Ostrander, an attorney and IGFA representative who wrote Panama's 1997 sports fishing regulation. He called for international cooperation to preserve a common resource. "Fish don't have passports or visas," he said. "The most important thing to remember is that all of us here are part of a team."

Texas A & M professor, Dr. Robert Ditton, a New York City native, used a personal anecdote to stress just how important fishing is to economy.

He said he began his career at Texas A&M teaching the business of tourism. "I realized that many tourism students never get a background in wildlife management, while many of those studying fisheries management can't even spell tourism," Ditton explained. He created a field of study that now has a name of its own, integrated fisheries management.

"When we started," he said, "if anyone wanted to say anything intelligent about the dollars and cents of billfishing, there would have been little data available. That has changed."

Joan Vernon, who organized the Presidential Challenge of Central America fishing tournaments which sponsored this meeting, agreed with Ditton about data.

"We know that in the United States sports fishing is a $108 billion industry whose value has surpassed that of the commercial fishery," Vernon said. "Our aim is to promote local economies. The value of a sports fishing population is growing. Business growth resulting in job creation is a major factor in protecting the environment."

IGFA Trustee Terri Andrews, who runs Panama's Tropic Star Lodge with her husband Mike, called Panama a regional leader in sports fishing conservation. However, Andrews said that all is not well. She noted, for example, that when the country's coast guard, the National Maritime Service goes on anti-drug patrols, they tend to ignore illegal fishing. "All laws must be enforced, and we need tougher laws to confiscate the boats of repeat offenders, and to confiscate poachers' catches," she urged. Andrews pointed out that during the Presidential Challenge at Pinas Bay, an illegal commercial longliner was operating right off the fishing resort's dock. She advocates the deputization of police who now patrol the land, but are not allowed to pursue or arrest maritime law violators, so they could take action.

The man whose job is to impose penalties on illegal fishing, the National Maritime Authority's Amulfo Franco, reasoned, "The maximum fine for most offenses is $1,000 which means a lot to some people but very little to others. We're a third-world country and our resources are limited."

The countries attending agreed that the future of sport fishing in Central America is dependent on the unification of all Central America Tourism officials. This geographical area must be marketed as a region such as "Europe" to create a strong vocal force in dealing with the fishery departments in each country. By working together, the countries of Central America can continue to develop sport fishing and fight to conserve the species people pay top dollar to catch, the conference concluded.

IGFA President Mike Leech (right) presents a letter to Panama's Vice Chairman of Commerce Laura Flores advising that Panama will be the 1999 recipient of IGFA's prestigious conservation award. At left is IGFA representative Marcos Ostrander who presided over the First Sportfishing Conference of Central America in September.

CONSERVATION NEWS

NMFS Proposes Ban On Small Swordfish

The National Marine Fishery Service (NMFS) in October proposed a ban on the sale and import of undersized Atlantic swordfish. The proposal implements a 1995 recommendation of the International Commission for the Conservation of Atlantic Tunas (ICCAT) that controls the harvest of undersized Atlantic swordfish.

The proposal would ban imports of Atlantic swordfish less than 33 pounds dressed weight (without head, fins, entrails), and would require seafood dealers to obtain permits to import swordfish.

"This action is another tool for fisheries managers to more effectively manage swordfish stocks," said Rolland Schmitten, fisheries director.

Earlier, NMFS decided not to reopen the 1998 Atlantic Swordfish Pelagic Driftnet Fishery due to the large numbers of sea turtles, dolphins and whales caught during the 14-day season in August.

Fishery service managers had predicted that 10 vessels from Rhode Island, Massachusetts and Florida that fish the south side of Georges Bank for swordfish would catch their 41.6 metric ton quota within the 14-day period in August. The fishermen managed to catch only two-thirds of the quota within that time.

However, fishermen also snared 34 endangered or threatened sea including two green, five leatherback and 27 loggerhead turtles along with 293 whales, dolphins and other marine mammals. Preliminary data indicated that there were 293 marine mammals taken in 109 hauls which translates to nearly three mammals killed per haul.

VISIT IGFA's Online Store in the Waterway Mall for specials on shirts, hats, jackets, memberships, etc. Visit igfa.org and click on the merchandise icon. Happy shopping!

IGFA Will Maintain State Freshwater Line Class Records Starting Jan. 1, 1999

The International Game Fish Association is recognized among the world's anglers for maintaining world game fish records in freshwater, saltwater and fly rod. Starting in 1999, the organization will start keeping freshwater line class records on a state-by-state basis for all 50 U.S. states. The new program is expected to generate a great deal of interest among the country's freshwater anglers, and will help publicize the great fishing opportunities in each state.

Record species will vary from state to state with the five most popular species in each state being selected for recognition of state records. Initially, three separate line classes -- 4 lb, 12 lb, and 20 lb -- will be recorded for state records with more line classes and species added in the future.

All state line class records will have to be landed in compliance with IGFA rules, and record holders will in turn receive a distinctive embossed certificate issued by the IGFA for a state line class record. State line class record holders will be recognized in an official IGFA publication.

The new line class record program is separate from each state's current all-tackle record programs where rules may vary from state to state. It will be the first time line class records will be recorded for individual states in America.

IGFA President Mike Leech said, "With IGFA's expertise in record keeping, and no other organization taking the initiative to keep state records by line class, it was a natural for IGFA to step in and offer this opportunity for recognition to the country's freshwater anglers."

Leech said the IGFA would be expanding the state program in the future to possibly include fly fishermen and junior angler categories as well.

There will be no charge for members of IGFA to submit state line class record applications. Non-members will pay a $35 fee which includes a one-year membership in IGFA. Free information, including the recognized species in each state, will be available to anyone contacting IGFA.

IGFA is a nonprofit conservation and record-keeping association with members in approximately 125 countries. In December 1998, IGFA will open the 60,000-square foot World Fishing Center containing the World Fishing Hall of Fame and other exhibits in Dania, Florida near the Fort Lauderdale-Hollywood International Airport.

For further information contact IGFA, 300 Gulf Stream Way, Dania, Florida 33004; or phone 1-954-927-2628.

CASE IN POINT *Although Bob Crupi's 22-lb largemouth bass is the second biggest on record, it was not recognized as a California state record. When Crupi caught the bass at Lake Castaic, he followed IGFA rules by getting witnesses, weighing and measuring, and photographing the spawning female before releasing it. Subsequently, he earned the IGFA 16-lb line class record, but the California Department of Fish and Game decided the catch wasn't official because Crupi didn't have the bass verified by a DFG biologist as required by state rules. With the new IGFA state record program in effect, released fish will be counted if they are weighed on land.*

List of Freshwater Species Recognized for State Line Class Records

Alabama
Largemouth bass
Spotted bass
Striped bass
Channel catfish
Black or white crappie

Alaska
Arctic char
Dolly Varden
Northern pike
Lake trout
Rainbow trout

Arizona
Largemouth bass
Striped bass
Channel catfish
Black or white crappie
Brown trout

Arkansas
Largemouth bass
Smallmouth bass
Flathead catfish
Black or white crappie
Brown trout

California
Largemouth bass
Striped bass (landlocked)
Bluegill
Channel catfish
Rainbow trout

Colorado
Largemouth bass
Smallmouth bass
Brown trout
Rainbow trout
Walleye

Connecticut
Largemouth bass
Smallmouth bass
Brook trout
Brown trout
Rainbow trout

Delaware
Largemouth bass
Bluegill
Black or white crappie
White perch
Rainbow trout

Florida
Largemouth bass
Sunshine bass
Bluegill
Flathead catfish
Black or white crappie

Georgia
Largemouth bass
Striped bass (landlocked)
Sunshine bass
Bluegill
Channel catfish

Hawaii
Largemouth bass
Peacock bass
Smallmouth bass
Channel catfish
Rainbow trout

Idaho
Largemouth bass
Smallmouth bass
Brown trout
Cutthroat trout
Rainbow trout

Illinois
Largemouth bass
Smallmouth bass
Channel catfish
Black or white crappie
Walleye

Indiana
Largemouth bass
Striped bass
Channel catfish
Northern pike
Walleye

Iowa
Largemouth bass
Bluegill
Channel catfish
Black or white crappie
Walleye

Kansas
Largemouth bass
Striped bass
White bass
Channel catfish
Walleye

Kentucky
Largemouth bass
Smallmouth bass
White bass
Channel catfish
Black or white crappie

Louisiana
Largemouth bass
Sunshine bass
Blue catfish
Flathead catfish
Black or white crappie

Maine
Largemouth bass
Muskellunge
Northern pike
Atlantic salmon (landl'kd)
Brook trout

Maryland
Largemouth bass
Smallmouth bass
Channel catfish
Brown trout
Walleye

Massachusetts
Largemouth bass
Smallmouth bass
Carp
Channel catfish
Rainbow trout

Michigan
Largemouth bass
Muskellunge
Chinook salmon
Lake trout
Walleye

Minnesota
Largemouth bass
Muskellunge
Northern pike
Lake trout
Walleye

Mississippi
Largemouth bass
Spotted bass
Striped bass (landlocked)
Channel catfish
Black or white crappie

Missouri
Largemouth bass
Blue catfish
Flathead caltfish
Black or white crappie
Brown trout

Montana
Smallmouth bass
Chinook salmon
Brook trout
Rainbow trout
Walleye

Nebraska
Largemouth bass
Smallmouth bass
Channel catfish
Northern pike
Walleye

Nevada
Largemouth bass
Striped bass
Channel catfish
Brown trout
Rainbow trout

New Hampshire
Largemouth bass
Smallmouth bass
Yellow perch
Brook trout
Rainbow trout

New Jersey
Largemouth bass
Smallmouth bass
Channel catfish
Brown trout
Rainbow trout

New Mexico
Largemouth bass
Flathead catfish
Black or white crappie
Kokanee
Rainbow trout

New York
Largemouth bass
Smallmouth bass
Northern pike
Rainbow trout
Walleye

North Carolina
Largemouth bass
Smallmouth bass
Flathead catfish
Black or white crappie
Rainbow trouth

North Dakota
Largemouth bass
White bass
Yellow perch
Northern pike
Walleye

Ohio
Largemouth bass
Smallmouth bass
Flathead catfish
Black or white crappie
Walleye

Oklahoma
Largemouth bass
Striped bass
White bass
Channel catfish
Black or white crappie

Oregon
Largemouth bass
Black or white crappie
Chinook salmon
Rainbow trout
Walleye

Pennsylvania
Largemouth bass
Smallmouth bass
Lake trout
Rainbow trout
Walleye

Rhode Island
Largemouth bass
Carp
White catfish
Chain pickerel
Rainbow trout

South Carolina
Largemouth bass
Striped bass (landlocked)
Sunshine bass
Blue catfish
Black or white crappie

South Dakota
Largemouth bass
Smallmouth bass
Yellow perch
Northern pike
Walleye

Tennessee
Largemouth bass
Smallmouth bass
Striped bass
Black or white crappie
Rainbow trout

Texas
Largemouth bass
Spotted bass
Striped bass (landlocked)
Channel catfish
Black or white crappie

Utah
Largemouth bass
Striped bass
Brook trout
Cutthroat trout
Rainbow trout

Vermont
Smallmouth bass
Yellow perch
Northern pike
Brook trout
Rainbow trout

Virginia
Largemouth bass
Smallmouth bass
Blue catfish
Black or white crappie
Brook trout

Washington
Largemouth bass
Smallmouth bass
Kokanee
Rainbow trout
Walleye

West Virginia
Largemouth bass
Smallmouth bass
Channel catfish
Rainbow trout
Walleye

Wisconsin
Largemouth bass
Muskellunge
Northern pike
Chinook salmon
Walleye

Wyoming
Largemouth bass
Smallmouth bass
Brown trout
Lake trout
Walleye

Note: ***When there are existing world line class records for the recognized state species, the world record will also become the state line class record.***

IGFA State Record Application

FORM FOR RECORDING STATE FRESHWATER LINE CLASS GAME FISH

Read all IGFA angling rules and state record requirements before completing and signing this application. The angler's signature on the completed form must be witnessed by a notary. This application must be accompanied by 50 feet of line sample and photographs as specified in the State Record Requirements. Hybrids and other species which may pose a problem of identity should be examined by an ichthyologist or qualified fishery biologist.

I AM SUBMITTING THIS ENTRY FOR:

☐ A state record in the following line class:

_____ lb

☐ 5-1 Club ☐ 10-1 Club ☐ 15-1 Club ☐ 20-1 Club

☐ 10 Pound Bass Club

SPECIES

Common name: _____

Scientific name: _____

WEIGHT:

lb:_____oz:_____

Digital weight (if weighed on electronic scales, give weight exactly as shown): _____

DATE OF CATCH: _____

PLACE OF CATCH: _____

_____

LENGTH (See measurement diagram)

inches x to x: _____

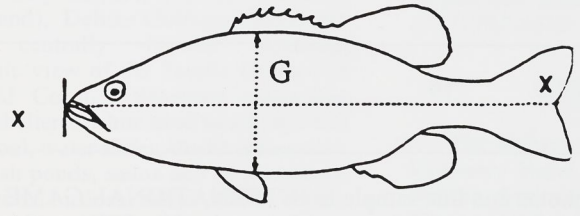
GIRTH (See measurement diagram)

inches: _____

Species Measurements:

X to X = length from lower lip to fork in tail

G = girth measured around fish at widest location



METHOD OF CATCH (trolling, casting, etc.):

_____

FIGHTING TIME:_____

ANGLER (Print name as you wish it to appear on your record or contest certificate:

_____

Permanent address:

(Include country and address code):

_____

_____

AGE if under 17 years: _____

Daytime phone:_____

Angler's fishing club affiliation (if any):

_____

EQUIPMENT

Rod

Make: _____

Tip length (center of reel to end of tip):_____

Butt length (center of reel to lower end of butt):_____

Reel:

Make:_____Size:_____

Line or tippet

Make: _____Size as stated on label: _____

☐ I am an IGFA member. Members pay no record application fee.

☐ I am not an IGFA member. Enclosed is $35 record application fee which includes 1-year IGFA membership.

Enclosed is check or please charge to my:

☐ VISA ☐ MASTERCARD ☐ AMEX ☐ DISCOVER

Account No.

Expiration date_____Signature_____

☐ Please send ____extra copies of my record certificate at $5 each.

Length of double line: _____

Make of backing & size: _____

Other Equipment:

Type of net or gaff & length: _____

Length of leader: _____

Number and type of hooks: _____

Name of lure, fly or bait: _____

BOAT (if used)

Name: _____

Make & length: _____

Captain's name: _____

Signature: _____

Address: _____

_____

Mate's name: _____

Signature: _____

Address: _____

_____

SCALES (Note: Fish must be weighed on solid land, not in boat.)

Location: _____

Type: _____

Manufacturer: _____

Date last certified: _____

Person and/or agency that certified scales:

_____

Note: Scales should be certified for accuracy within one year prior to date of catch.

Note: IGFA will certify portable scales for members for $13, including shipping and handling.

Weighmaster: _____

Signature: _____

Address: _____

_____

WITNESSES

Witness to weighing (other than angler, captain or weighmaster): _____

Address: _____

_____

Witnesses to catch (other than captain). List two names and addresses if possible.

1. _____

_____

2. _____

_____

Number of persons witnessing catch: _____

VERIFICATION OF SPECIES IDENTITY

Needed only if there may be a question about species ID.

Signature of examining ichthyologist:

_____

Title, degree, or qualifications: _____

Address: _____

_____

AFFIDAVIT

I, the undersigned, hereby take oath and attest that the fish described in this application was hooked, fought, and brought to gaff or net by me without assistance from anyone, except as specifically provided in the regulations; and that it was caught in accordance with IGFA angling rules; and that the line submitted with this application is the actual line used to catch the fish on the stated date. I further declare that all the information in this application is true and correct to the best of my knowledge. I understand that IGFA reserves the right to employ verification procedures. I agree to be bound by any ruling of the IGFA relative to this application.

Signature of angler: _____

Sworn before me this _____ day of _____ 19_____

Notary signature and seal: _____

When completely filled out and signed, mail this application with photos and line sample to INTERNATIONAL GAME FISH ASSOCIATION, 300 Gulf Stream Way, Dania, Florida 33004 USA. Application must be received by IGFA within 60 days of date of catch. Phone 954-927-2628.

(This application may be reproduced.)

New Participants In Discount Program

The following are new participants in IGFA's discount program. Proof of current IGFA membership is required by the companies and organizations offering discounts. IGFA members should make contact directly with the participants to determine restrictions, terms and other details. For a full listing of participants, see the World Record Game Fishes book.

AUSTRALIA

Fishing The Tropics, Attn: Les Marsh, owner, (Tropical North Queensland, Cairns), Guided calm water fishing on majestic world heritage listed rainforest rivers. Custom built sportfishing punts ideal for lure/fly fishing for Australia's premier light tackle sportfish including barramundi, trevally, mangrove jack, jungle perch. All top quality tackle, transfers to/from accommodation in late model 4WD, all inclusive. (61) 0740-342668, Fax: (61) 0740-578280 E-mail: fishtrop@ozemail .com.au Please note correction to Website: www.ozemail.com.au/~fishtrop/index.html

Paradise Centre, (Surfers Paradise, Queensland), Deluxe Outrigger Hotel and Resort offering a spectacular beachfront location with two acres of lawn and garden areas. Comfortable one, two and three bedroom suites with full kitchens. Two outdoor pools, spas, tennis courts, putting greens, business center and barbecue/picnic areas. Paradise Centre Shopping Complex offers more than 110 specialty shops, cafes and restaurants. Please note reservations must be made in advance. 1-800-OUTRIGGER (688-7444) or (303) 369-7777, Website: www.outrigger.com

Peninsula, (Surfers Paradise, Queensland), Deluxe Outrigger Hotel and Resort offering a beachfront location near shopping, dining and nightlife. Comfortable one, two and three bedroom suites with full kitchens featuring spectacular ocean and mountain views. Two outdoor pools, one indoor pool, spas, tennis and squash courts, restaurants, business center and barbecue/picnic areas. Please note reservations must be made in advance. 1-800-OUTRIGGER (688-7444) or (303) 369-7777, Website: www.outrigger.com

Sun City Resort, (Surfers Paradise, Queensland), Deluxe Outrigger Hotel and Resort centrally located featuring panoramic view of the Pacific Ocean and the Gold Coast. Seawater swimming lagoon, sheltered white sand beach, spa and heated pool, water slides, theme restaurants, exotic fish ponds, sauna and steam rooms, tennis courts, business center, fitness center, and a host of other guest amenities. Spacious one, two and three bedroom luxury suites with fully equipped kitchens. Please note reservations must be made in advance. 1-800-OUTRIGGER (688-7444) or (303) 369-7777, Website: www.outrigger.com

The Cosmopolitan, (Surfers Paradise, Queensland), Comfortable Outrigger Hotel and Resort located in the heart of Surfers Paradise, a short stroll to the beach. Surrounded by shops, restaurants and nightlife. Two swimming pools, spas, sauna, business center and barbecue/picnic areas. Comfortable one bedroom suites with full kitchens. Please note reservations must be made in advance. 1-800-OUTRIGGER (688-7444) or (303) 369-7777, Website: www.outrigger.com

IRELAND

Ghillie Cottage & Blackwater Fly Fishing, Attn: Doug Lock, R.E.F.F.I.S. Salmon Fly Fishing Instructor Guide and Joy Arnold, ex England Ladies Fly Fishing Team, (County Cork) One of the Great Fishing Houses of Ireland, specializing in tuition in spey casting using 15 ft Aquarex double handed fly rods and fly fishing for Atlantic Salmon on Munster Blackwater River in Co. Cork. (353) 25-32720, Fax: (353) 25-33000, E-mail: flyfish@tinet.ie Website: http://homepage.tinet.ie/~flyfish

NEW CALEDONIA

Parkroyal Noumea, Attn: Fabrice Bohbote, (Noumea), Parkroyal Noumea is located in a tropical garden facing the white sand of the beautiful Anse Vata Beach. Accommodations range from 4 to 5 stars: the 4 stars building was totally refurbished in 1994 and the 5 stars wing is brand new. Amenities at this hotel include 3 restaurants, 2 bars, water sports, a superb lagoon pool, fitness room, boutique and a 1.200 sqm conference and banquet room. (687) 26 22 00, Fax: (687) 26 16 77 Website: http://www.parkroyal.com.au

Parkroyal Escapade Island Resort, Attn: Fabrice Bohbote, (Ilot Maitre), Tropical paradise just 20 minutes by boat from Noumea, a small intimate island resort featuring bungalow style accommodations, range of water sports, swimming pool, restaurant and pool bar. (687) 26-22-00, Fax: (687) 26-16-77 Website: http://www.parkroyal.com.au

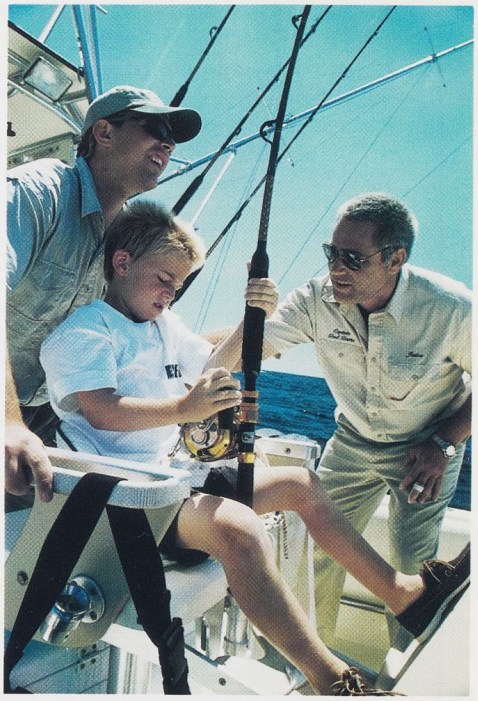
PUERTO RICO

Capt. Juan Carlos Torruella - Tarpon Fishing, (San Juan), Fly fishing and light tackle specialist fishing the San Jose and Torrecilla Lagoons in San Juan. Fish aboard the fully equipped 18 ft Hewes *"Tight Loop"* with all bait and custom tackle provided. 100% release fishing for tarpon and snook. (787) 792-4524, Fax (787) 782-6655

UNITED STATES

HAWAII

The Hobron, (Honolulu), An Outrigger Economy Hotel located 8 to 10 minutes walking distance to Waikiki Beach and Ala Moana Shopping Center. The hotel has a restaurant and cocktail lounge, swimming pool, sauna and laundry facilities. Many guest rooms have kitchenettes with ocean and mountain views. Please note reservations must be made in advance. 1-800-OUTRIGGER (688-7444) or (303) 369-7777, Website: www.outrigger.com



Hunter Barta, 7, battles a 60 lb tuna with encouragement from his dad, Captain Tred Barta, as Chris Geminski steers the chair.

BARTA CLASSIC

Continued from page 1

on Walker's Cay last April. These prior tournaments have raised over $130,000 for the Junior Angler program.

Additionally, the 1999 Barta Classic has been designated as a qualifying event for IGFA's International Tournament of Champions. There is no other tournament in the world like the Barta Classic. To attend, contact Capt. Tred Barta 188-5 West Montauk Highway, Hampton Bays, NY 11946. Phone (516) 728-7375, Fax (516) 728-7376.

Address Changing?

Please notify IGFA's Membership Department of your change of address at least three weeks in advance. This will help to ensure uninterrupted receipt of publications. Please include both your old and new addresses as well as the date of change.

NEW YORK

Capt. Scott Gaeckle, Aeolus, Inc., Alcyon Fly Fishing and Light Tackle Charters, (Southampton), Fully equipped custom 21 ft. Steiger Craft center console, fishing the eastern end of Long Island from Shinnecock to Montauk, most of which is nationally recognized as the Peconic Estuary System. Casting to striped bass, bluefish, weakfish, bonito, and little tunny from May to December. Full and half day trips available. Lodging information available upon request, 2 hours from New York City. (516) 287-3264, sgaeckle@peconic. net

First List of Qualifying Events for IGFA's Invitational Tournament of Champions

Pelican Yacht Club Invitational Billfish Tournament	USA, Florida, Fort Pierce	January
Bacardi Rum Angling Tournament	BAHAMAS, Bimini	March
Bahamas Billfish Championship Series	BAHAMAS	March-April
Barta Blue Marlin Classic	BAHAMAS, Walker's Cay	April
NCMC Benefit Billfish Tournament	GUATEMALA	April
Yamaha Miami Billfish Tournament	USA, Florida, Miami	April
Carib Beer International Game Fishing Tournament	TRINIDAD & TOBAGO	April
Pompano Beach Fishing Rodeo	USA; Florida, Pompano Beach	May
International La Guaira Billfish Shootout	VENEZUELA, Caraballeda	May
Isla Mujeres Red Cross Benefit Billfish Tournament	MEXICO, Cancun	May
Treasure Cay International Billfish Tournament	BAHAMAS	May
Presidential Challenge Series: Tropic Star Lodge	PANAMA	May
Tarpon Tide Tournament	USA; Florida, Boca Grande	July
Blue Marlin World Cup	WORLDWIDE	July
International Ernest Hemingway Billfish Tournament	CUBA	July
Capt. Fannie's Billfish Tournament	USA, N.Carolina, Atlantic Beach	July
HMY Viking Governors Cup Billfish Tournament	USA, South Carolina	July
Huggo's Na Pua 'O Ke Kai Wahine Tournament	USA, Hawaii	July
Presidential Challenge Series: Flamingo	COSTA RICA	July
Pirate's Cove Billfish Tournament	USA, North Carolina	August
Club Nautico de San Juan Intl. Billfish Tournament	USA, Puerto Rico	August
White Marlin Open	USA, Maryland	August
Striped Bass World Championship	USA, Virginia	Oct.-January
Bisbee's Black & Blue Marlin Jackpot Tournament	MEXICO, Cabo San Lucas	October
Venezuelan Grand Slam Billfish Tournament	VENEZUELA, Caraballeda	October
Lizard Island Black Marlin Classic	AUSTRALIA	October
Discovery Bay Fishing Tournament	JAMAICA, Kingston	October
Presidential Challenge Series: Fins & Feathers Inn	GUATEMALA	November
Laxcup Vattern Intl. Trolling Tournament	SWEDEN	November
Torneio Anual De Peixes De Bico Do ICRJ	BRAZIL, Rio De Janeiro	December
The Marlin World Cup	MAURITIUS, Flic en Flac	December

NEW WORLD RECORDS, *continued from page 6*

Marlin, white	Tippet W-08 kg (16 lb)	23.81 kg 52 lb 8 oz	Isla Mujeres Mexico	May 19, 1998	Susan McCarthy
Payara	Tippet 02 kg (4 lb)	2.72 kg 6 lb	Uraima Falls Venezuela	March 27, 1998	Howard Wiles
Permit	Tippet W-08 kg (16 lb)	5.95 kg 13 lb 2 oz	Islamorada Florida, USA	May 6, 1998	Dianne Harbaugh
Permit	Tippet W-10 kg (20 lb)	13.15 kg 29 lb	Key West Florida, USA	May 30, 1998	Susan Cocking
Salmon, Atlantic	Tippet 03 kg (6 lb)	11.49 kg 25 lb 5 oz	Namsen River Grong Norway	June 7, 1998	Dr. John B. Baldwin
Shark, blue	Tippet W-10 kg (20 lb)	23.40 kg 51 lb 9 oz	Kaikoura New Zealand	April 11, 1998	Jane Wilson
Shark, porbeagle	Tippet M-03 kg (6 lb)	62.90 kg 138 lb 10 oz	Otago Heads New Zealand	May 24, 1998	Dave Carr
Shark, porbeagle	Tippet M-10 kg (20 lb)	61.70 kg 136 lb	Otago Heads New Zealand	June 7, 1998	Dave Carr
Snook	Tippet M-02 kg (4 lb)	7.03 kg 15 lb 8 oz	Chockoloskee Florida, USA	July 1, 1998	Andy G. Novak
Tarpon	Tippet W-08 kg (16 lb)	37.64 kg 83 lb	Islamorada Florida, USA	June 15, 1998	Diana Owen Harris
Tripletail	Tippet W-03 kg (6 lb)	.90 kg 2 lb	Flamingo Florida, USA	June 16, 1998	Acha Lord
Tripletail	Tippet W-04 kg (8 lb)	2.72 kg 6 lb	Port Canaveral Florida, USA	June 10, 1998	Christine Perez
Tuna, longtail	Tippet M-08 kg (16 lb)	13.00 kg 28 lb 10 oz	Mooloolaba Queensland, Australia	April 22, 1998	Bryan Peterson
Tuna, yellowfin	Tippet M-02 kg (4 lb)	3.50 kg 7 lb 11 oz	Ishigaki Island Okinawa, Japan	June 6, 1998	Ken Suzuki
Tunny, little	Tippet W-03 kg (6 lb)	3.53 kg 7 lb 12 oz	Key West Florida, USA	April 21, 1998	Lisa Booth
Tunny, little	Tippet W-10 kg (20 lb)	6.40 kg 14 lb 2 oz	Key West Florida, USA	May 30, 1998	Capt. Linda Ann Luizza
Trout, brown	Tippet 06 kg (12 lb)	15.93 kg 35 lb 2 oz	Rio Grande Tierra del Fuego, Argentina	March 1, 1998	Mark T. Gates, Jr.
Weakfish	Tippet W-10 kg (20 lb)	3.51 kg 7 lb 11 oz	West Ocean City Maryland, USA	May 25, 1998	Wanda S. Morgan

* Records marked with asterisk have been defeated M-Men's records W-Women's records

This calendar is a service to members and lists forthcoming tournaments as they have been reported to IGFA. Sponsors of international, national or large regional fishing tournaments wishing to be listed should advise IGFA of tournament's name, date, location, and the address where anglers can obtain more information. IGFA is not responsible for erroneous dates, cancellations, changes, etc., and anglers should confirm events with tournament officials. Publication of tournament names and dates does not indicate endorsement or involvement by IGFA. **IGFA Invitational Tournament of Champions qualifying events are printed in bold.**

Dec. 14-May 25, 1999, Marathon & Lower Keys: *Metropolitan South Florida Fishing Tournament.* Contact Suzan Baker, PO Box 140850, Coral Gables, FL 33114, Phone (305) 569-0066, fax (305) 569-6106.

Jan. 3-6, North Palm Beach, FLORIDA: *Old Port Yacht Club Billfish Tournament.* Contact Tom Lancaster or Sue Morgan, phone (561) 626-2280.

Jan. 5-9, Fort Pierce, FLORIDA: *19th Annual Pelican Yacht Club Invitational Billfish Tournament.* Contact Vonnie Lofton, 1120 Seaway Drive, Fort Pierce, FL 34949. Phone (561) 464-1734 or fax (561) 461-5804.

Jan. 6-9, Abaco, BAHAMAS: *Bahamas Wahoo Championship (third leg).* Contact Manny Alexiou 1-800 468-4799 or write to Abaco Beach Hotel & Boat Harbour Marina, PO Box 511, Marsh Harbour, Abaco, Bahamas.

Jan. 8-10, Key Largo, FLORIDA: *Key Largo Sailfish Challenge.* Contact Greg Buck, 100460 Overseas Hwy., Key Largo, FL 33037. Phone (305) 451-2511.

Jan. 8-10, Palm Beach, FLORIDA: *62nd Silver Sailfish Derby.* Contact West Palm Beach Fishing Club, Box 468, West Palm Beach, FL 33402. Phone (561) 832-6780.

Jan. 9-10, Key West, FLORIDA: *3rd Annual Willett Marine Key West Kingfish Extravaganza.* Contact Robert Nies, 6786 Brentford Rd., Sarasota, FL 34241. Phone (941) 379-4446.

Jan. 9-16, Guarapari ES, BRAZIL: 2nd Blue Marlin Tournament. Contact Paulo Amorim, phone (55) 27 229-0699 or fax (55) 27 239-1732 or (55) 27 361-0101.

Jan. 12-16, Palm Beach, FLORIDA: *Invitational Gold Cup Team Tournament.* Contact Sailfish Club of Florida, 1338 North Lake Way, Palm Beach, FL 33480. Phone (561) 844-0206 or fax (561) 844-2899.

Jan. 14-16, Islamorada, FLORIDA: *10th Annual Cheeca Lodge Presidential Sailfish Tournament.* Contact Julie Perrin, Cheeca Lodge, Box 527, Islamorada, FL 33036-0527. Phone (305) 664-4651, ext. 556.

Jan. 14-17, Stuart, FLORIDA: *Allied Marine Sailfish Hoedown.* Contact Danna Durkee, Allied Marine Group, 260 N Dixie Hwy, Stuart, FL 34994. Phone (561) 692-1123, fax (561) 692-1347.

Jan. 20-23, Abaco, BAHAMAS: *Bahamas Wahoo Championship (4th leg).* Contact Robert Meister, Treasure Cay Services, 2301 S Federal Highway, Fort Lauderdale, FL 33316. Phone (954) 525-7711 or fax (954) 525-1699.

Jan. 25-30, Singer Island, FLORIDA: *36th Annual Sailfish Release Tournament.* Contact Greg Freebold, The Buccaneer Yacht Club, phone (561) 842-1620.

Jan. 27-30, Grenada, WEST INDIES: *Spice Island Billfish Tournament.* Contact Angus Minors or Richard McIntyre, c/o Brydene & Minors, Box 14, St. Georges, Grenada, West Indies. Phone (473) 440-6846.

Jan. 29-31, Islamorada, FLORIDA: *Holiday Isle Sailfish Tournament.* Contact Eileen Mason, 84001 Overseas Hwy., Islamorada, FL 33036. Phone (305) 664-2321.

Feb. 4-6, Islamorada, FLORIDA: *Islamorada Women's Sailfish Tournament.* Call (305) 852-9337.

Feb. 19-21, Hamilton, NEW ZEALAND: *Buccaneer Boats Raglan One Base Tournament.* Contact Ros Nelson, NZ Big Game Fishing Council, PO Box 93, Whangarei, New Zealand. E-mail: nzbgfc@ihug.co.nz.

Feb. 24-28, Miami Beach, FLORIDA: *Capt. Bob Lewis Billfish Challenge.* Contact Judy Lewis, 13273 SW 124 Street, Miami, FL. Phone (305) 252-4988 or fax (305) 252-2797.

Mar. 1, GUATEMALA: *International Tournament of Guatemala.* Contact Sergio Villanueva, phone (502) 363-2775 or fax (502) 363-0909.

Mar. 5-6, Islamorada, FLORIDA: *Backbone Lures "Fish 'Til You Lose It" Tournament.* Call (305) 852-7888.

Mar. 14-19, Bimini, BAHAMAS: *Bacardi Rum Angling Tournament.* Contact Raul V. Miranda, 6619 S Dixie Hwy #337, Miami, FL 33143. Phone (305) 234-7386 or fax (305) 234-7386.

Mar. 17-21, Havana, CUBA: *2nd Open All Cubans Stars of the Black Bass Fishing Tournament.* Contact Club Nautico Internacional Hemingway, 5th Ave. and 248, Marina Hemingway, La Habana, Cuba. Phone (53) 7 24-1689 or fax (53) 7 24-6653.

Mar. 19-21, Sydney, AUSTRALIA: *6th Broken Bay Invitational Game Fishing Tournament.* Contact Reub Hayes, phone (61) 2 9957-5690 or rhayes@ausbil.com.au or write Broken Bay Game Fishing Club, PO Box 78, Newport Beach, NSW, Australia 2106.

Mar. 23-26, Islamorada, FLORIDA: *Islamorada All-Tackle Spring Bonefish Tournament.* Contact Jim Bokor, PO Box 1144, Tavernier, FL 33070. Phone (305) 852-1694.

Mar. 24-29, Caraballeda, La Guaira, VENEZUELA: *5th Annual International La Guaira Billfish Shootout.* Contact Mr. Rick Alvarez, Tournament, 7101 SW 99 Ave. #107, Miami, FL 33173. Phone (800) 882-4665 or (305) 279-3252; fax (305) 279-3167.

Apr. 2-4, Islamorada, FLORIDA: *7th Annual World Class Angler Light Tackle Classic.* Call (305) 743-6139.

Apr. 8-11, Miami, FLORIDA: *Yamaha Contender Miami Billfish Tournament.* Contact Karen McGinley, PO Box 1036, Key Biscayne, FL 33149. Phone (305) 598-2525 or fax (305) 598-2512.

Apr. 18-23, BAHAMAS: *South Abaco Championship.* Contact Al Behrendt, BBC, 499 East Sheridan Street - Suite 317, Dania Beach, FL 33004. Phone (954) 920-5577 or (888) 303-2242, fax (954) 920-5530 or e-mail bbc@albehrendt.com.

Apr. 21-24, Walker's Cay, BAHAMAS: *Barta Blue Marlin Classic.* Contact Capt. Tred Barta, Barta Blue Marlin Classic, 188-5 W. Montauk Hwy., Hampton Bays, NY 11946. Phone (516) 728-7375 or fax (516) 728-7376.

Apr. 24-May 2, CAYMAN ISLANDS: *Cayman Islands International Fishing Tournament.* Contact Horace DuQuesnay (345) 945-6300 or Donna Sjostrom (345) 949-7099. Or write Cayman Islands Angling Club, PO Box 30280 SMB, Grand Cayman. E-mail: fishing@candw.ky.

Apr. 24-May 1, PANAMA: *Presidential Challenge Series.* Contact Ms. Joan Vernon, Sporting Traditions, Key Biscayne, FL 33149. Phone 305 361-9258, fax 305 361-9923.

Apr. 27-30, TURKS & CAICOS IS.: *Carib International Game Fishing Tournament.* Contact Sid Johnson phone (868) 624-5304 or fax (868) 627-0391.

May 2-7, Walker's Cay, BAHAMAS: *North Abaco Championship.* Contact Al Behrendt, BBC, 499 E Sheridan St. #317, Dania Beach, FL 33004. Phone (954) 920-5577 or (888) 303-2242, fax (954) 920-5530.

May 3-7, 1999, MEXICO: *Isla Mujeres Red Cross Benefit Billfish Tournament.* Contact Michael Creamer, A.P. 54 Isla Mujeres, Q. Roo, MEXICO 77400. Phone (52) 987-70443 or fax (52) 987-70443 .

May 4-8, Mazatlan, MEXICO: *1st Annual Mazatlan Billfish Fly Classic.* Contact Billy Pate phone/fax (941) 318-9114 or Jack Samson phone/fax (505) 988-7118.

May 14-15, Pompano Beach, FLORIDA: *Pompano Beach Fishing Rodeo.* Contact Patti Carr, 1639 East Sample Road, Pompano Beach, FL 33064. Phone (954) 942-4513 or fax (954) 942-2974.

May 16-21, Berry Islands, BAHAMAS: *Chub Cay Championship.* Contact Al Behrendt, BBC, 499 East Sheridan Street - Suite 317, Dania Beach, FL 33004. Phone (954) 920-5577 or fax (954) 920-5530.

May 22, Chico, CALIFORNIA: *"Hooked On Fishing, Not on Drugs" Kid's Fishing Tournament.* (Horseshoe Lake - upper Bidell Park). Contact Steve Carson (530) 891-4757.

May 31-June 5, Havana, CUBA: *49th Annual Ernest Hemingway Billfish Tournament.* Contact José M. Diaz Escrich, Club Nautico Intl. Hemingway, 5th Ave. and 248, Marina Hemingway, Havana, Cuba. Phone (53) 7 24-6653 or fax (53) 7 24-1689.

June 8-11, Marsh Harbour, BAHAMAS: *Boat Harbour Championship.* Contact Al Behrendt, BBC, 499 East Sheridan Street - Suite 317, Dania Beach, FL 33004. Phone (954) 920-5577 or (888) 303-2242, fax (954) 920-5530.

June 16-18, Islamorada, FLORIDA: *Yamaha Outboards/Scientific Anglers Womens World Invitational Fly Championship.* Contact Suzan Baker, PO Box 189, Islamorada, FL 33036. Phone (305) 664-2080, fax (305) 664-2023.

June 20-25, BAHAMAS: *16th Annual International Treasure Cay Billfish Tournament.* Contact Robert Meister, 2301 S. Federal Highway, Fort Lauderdale, FL 33316-3949. Phone (954) 525-7711 or fax (954) 525-1699, Email: abaco@gate.net.

June 20-25, North Eleuthera, BAHAMAS: *Harbour Island Championship.* Contact Al Behrendt, BBC, 499 East Sheridan Street - Suite 317, Dania Beach, FL 33004. Phone (954) 920-5577 or fax (954) 920-5530.

We're Moving to Our New Home!

After December 7, 1998, IGFA's address will be:
300 Gulf Stream Way, Dania Beach, Florida 33004
Phone (954) 927-2628 Fax (954) 924-4299

Did You Know?

- Percent of U.S. shark landings in 1979 attributed to recreational anglers – 97%.
- Percent of U.S. shark landings in 1997 attributed to recreational anglers – 8%.
- Number of hooks fished by longline boats annually – 750 million.
- Percent of sharks that are finned landed on Hawaiian longline boats – 96.6%.
- Approximate initial mortality of bass caught in tournaments in the 1990s – 6.5%.
- Approximate delayed mortality of bass in these tournaments – 18%.
- Percent of world's commercial catch that is discarded – 30%.
- Estimated percent of world's commercial catch that ends up as food for humans – 30%.
- First shark to be fully protected – sand tiger or gray nurse (in New South Wales, Australia, 1984).
- Percent of Florida Keys bonefish diet consisting of crabs – 41%.
- Percent of diet that is shrimp – 17%.
- Age at which female bonefish start to spawn – 4.2 years.
- Number of porpoises killed annually in Gulf of Maine by nets from 1990-93 – 1,200 to 2,900.

Michael Wright, 3, caught the heaviest peacock bass, 4.6 lb, in the IGFA Junior Angler Tournament. See story on page 3.

- Number of whales and porpoises killed by U.S. observed driftnets in 109 hauls targeting swordfish – 254.
- Number of freshwater tournaments held annually in the U.S. – 29,500.
- Number of freshwater tournaments that target bass – 23,000.

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BRAEMAR

The village of Braemar, world famous for its Highland Gathering, lies near the junction of the Rivers Dee and Clunie at 1,100 feet, surrounded by magnificent scenery, through which there are glorious walks. The climate is good, although conditions can be severe in winter and bracing in early spring. It is often fine in autumn when the colours are most beautiful. The tops of the high Cairngorms can be seen from various points in or near the village; often, these carry snow well into the summer.

Car touring from Braemar is very rewarding. Several beauty spots are within a few miles. Balmoral is only 9 miles away, and day tours can include "The Victorian Heritage Trail", "The Malt Whisky Trail", "The Castle Trail", several splendid National Trust for Scotland properties and a wealth of other attractions on Royal Deeside.

Accommodation in the area ranges from large hotels with many facilities to small hotels and guesthouses. A number of homes offer 'bed and breakfast'. There are several self-catering properties, a youth hostel and a caravan and camping site. The new Tourist Information Centre in the Mews provides a free local accommodation booking service and can book accommmodation elsewhere in Britain up to four days in advance. The Centre sells a wide range of quality souvenirs, books, maps, postcards, sweatshirts, etc., together with stamps and postcards. A Bureau de Change is also located in the Centre and provides full money changing facilities at competitive rates.

The shops of Braemar are particularly interesting for visitors — hornwork, woodcarving and woolens being specialities of the village. There is also a bank and post-office.

The Braemar Gathering is held in the village on the first Saturday of September. It is a memorable day of tartan, Highland dancers, massed pipebands, 'heavy events' and track athletics. A great number of people come to the Gathering from all over the world. Seats may be reserved after 1st February, by letter, to The Bookings Secretary, B.R.H.S, Coilacriech, Ballater, Aberdeenshire AB35 5UH. For a free accommodation brochure, visitors should contact the Area Tourist Office, Bridge Street, Banchory, Kincardineshire, Scotland, AB31 3SX. Tel: (01330) 822066.

General Information

Tourist Information Centre: The Mews, Mar Road, Braemar. Tel: (013397) 41600. Open daily all year.
Bureau de Change:Tourist Information Centre: The Mews, Mar Road, Braemar. Tel: (013397) 41600. Open daily all year.
Publications: A wide range is available to callers at the Information Centre including the following of particular local interest: Ordinance Survey Maps of the area; Hillwalking in Grampian Highlands and Aberdeen.
Population: 410.
Half Day Closing: October - May: Thursday 12.30pm.; June - September: No half day.
Public Holidays in 1995: March 6, April 3, May 1, October 2.
Public Transport: Bluebird Northern buses run several times daily to Aberdeen via Ballater and Banchory. In summer a limited service operates to Glenshee, Pitlochry and Aviemore. Express coach and rail connections at Aberdeen and Aviemore. **For details contact Bluebird Northern, Bus Station, Guild Street, Aberdeen. Tel: (01224) 212266 or Ballater (Mon - Frid office hours only) (013397) 55422.** There is also a limited G.P.O. post-bus service from Ballater linking Braemar with Clunie Bridge and Linn of Dee.
Petrol Station: Braemar Service Station, Glenshee Road, Braemar. Tel: (013397) 41210.
Parking: Free parking is available at the Princess Royal and the Duke of Fife Memorial Park (open daily until 8.00 p.m. from April 1 to end of October) — Approximately 100 cars. Car park off Mar Road. There is also parking throughout the village where not restricted.
Public Toilets: In Car Park and in the Games Park.
Caravan and Camping Parks: Invercauld Caravan Club Site, Glenshee Road. Tel: (03397) 41373. Open mid-December to September.Open to non-members.
Ballater Caravan Site, Anderson Road, Ballater. Administered by Kincardine and Deeside District Council. Tel: Ballater 55727 or Stonehaven 762001 Ext. 265/267.
Eating Out: These establishments are members of the Tourist Board: **Braemar Lodge Hotel; Fife Arms Hotel; Invercauld Arms Hotel; Moorfield Hotel; Callater Lodge Hotel; Inver Hotel, Crathie; Cairnwell Chairlift Restaurant, The Braemar Take-away, Schiehallion House, The Wishing Well Restaurant.**

Churches:
Braemar Parish Church. Sunday Service 10.00.
St. Margaret's Scottish Episcopal Church. Service 1800. See information board for times of services in summer.
St. Andrew's R.C. Church: Service 10.00
Useful telephone numbers in Braemar:
Police: 41222
Doctor's Surgery: 41202
Post Office: 41201
Youth Hostel: 41659
Bank: 41248

Leisure and Recreation

Golf: 18 Hole Course set in Scenic Mountain Grandeur at 1,200 feet above sea level. The highest 18-hole course in Great Britain rounded 1902. The Clubhouse is licensed and catering is available for members and visiting golfers. Tel: (013397) 41618. Charges: Mon. -Fri. Round £10.00, day £14.00; Sat ./Sun. Round £13.00, day £17.00.
Bowling: Bowling Green, Glenshee Road. Visitors welcome. £1.50 with hire of bowls. Contact: Mrs Kynoch (Secretary), Tel: (03397) 41666.
Putting: Princess Royal and Duke of Fife Memorial Park (turf permitting). Mid June - Mid August.
Winter Skiing: Cairnwell, Glenshee (2,069-3,502 feet), 9 miles south of Braemar on A93. Chairlifts and many ski tows — with a total capacity of 17,300+ per hour. Restaurants: toilets;ski equipment hire and instruction facilities; shop; extensive parking for coaches and cars.
Cairnwell Chairlift Co., Tel: (013397) 41320.
Most Hotels in Braemar cater for skiers.
Braemar Mountain Sports, Mar Road. Tel: (013397) 41242. New Mountain Shop in village centre. Cross-country ski hire and tuition. Mountain bike hire.
Cairnwell Hang Gliding School, Glenshee, By Blairgowrie, PHIO 7QQ. Tel: (013397) 41331 or (01250) 885238. (Mr G Fischnaller). Tuition and equipment provided BHPA registered. Courses run to BHPA approved syllabus.
Fishing: River Clunie: Permits from Tourist Information Centre and **Invercauld Estates Office, Braemar. Tel: (013397) 41224**. Brown Trout, fly only. £2.50 per day, £5.00 per week, £25.00 per season. Season: March 15 - Sept 20.
River Gairn, by Ballater: Permits available from **Invercauld Estates Office** and Countrywear, Bridge Street, Ballater. Tel: (013397) 55453. Brown trout, fly only. £2.50 per day, £5.00 per week, £25.00 per season. Season: March 15 - Aug 11 or Sept 20.
Loch Votrachan, near Glenshee Chairlift: Permits available from Ballater Angling Association. Tel: (013397) 55365. Brown Trout, fly fishing only. Prices on application. Season: March 18 - Aug 11.
Loch Nan Eun and Loch Bainnie: Permits from **Invercauld Estates Office, Braemar. Tel:(013397) 41224**, Mr G Kerr. Tel: (01250) 88506 or the Tourist Information Centre. Tel: (013397) 41600. Brown trout, fiy fishing only. Prices: £5.00 per day, £25.00 per season.
Covers both lochs.
Pony Trekking: Balmoral Estate: Available from mid April to end July. Treks through policies and woods. Riders over 12 years only. Hard hats provided free. Charges: Half day (2 hours) £13.50. Bookings: Tel: (013397) 42334/5.
Walks: A range of walks leaflets is available from the Information Centre. A summer programme of Ranger led GuidedWalks is also available — book at the Information Centre.
Children's Play Area: Havelock Recreation Park, approached to rear of Invercauld Arms, provides both traditional and adventure play equipment.
Glenshee Chairlift Co, Cairnwell, Braemar. Tel:(013397) 41320. Snacks and lunches served in a restaurant situated by roadside in highest mountain pass in Scotland. Shop open daily, chairlift nearby ascends Cairnwell Mountain (3059 feet) in summer - weather permitting.
Sauna: At the Fife Arms Hotel. Tel: (03397) 41644. Available to non-residents (1 hour notice required). Price: £10.00 for 1 hour (up to 5 people).
Highland Dancing Display: Victoria Hall, Braemar. Every Tuesday during July and August at 20.30.
Coming Events: See "What's On in Kincardine and Deeside" available from the Tourist Information Centre.

Arts and Crafts

The Capercaillie, 3 Invercauld Road. Tel: (013397) 41249. Quality crafts inc. pottery, wooden sculptures, wildlife figures, candle sconces, Harris tweed woollens and footstools, also baskets, dried flowers, books, prints and designer clothes. (DD).

Gift Shops/China

"The Highlander", Invercauld Road. Tel. (013397) 41602. Pottery, glass, tartan souvenirs. Wide range of gifts.
"Alt-na-Clunie", Mar Road. Tel. (03397) 41629. High class crystal, china, jewellery and collectors items. (DD)

Knitwear/Clothing

"The Knitwear Shop", Mar Road. Tel. (013397) 41629. Large range of quality knitwear and tartans. Agents for Braemar, Pringle, Ballantyne. (DD)
"Airlie House Classics" Auchendryne Square. Tel. (013397) 41425. Ladies and Gents outfitters. Classic designs for country or town. Stockists of Burberry, Aquascutum, Geiger. (DD).

Fine Art Galleries

The Braemar Gallery, Mar Road. Tel: (013397) 41618. Work by Scottish Artists - paintings, etchings, linoprints, prints and cards, pottery, sculpture and wood carving. Artists materials and expert framing service. Open 7 days.

Places of Interest

Braemar Highland Heritage Centre, Mar Road, Braemar. Tel: (013397) 41944. Fax: (013397) 41405. Open daily 1000 - 1800. (extended hours in summer months). International award winning film and exhibition featuring the Braemar Highland Games, Queen Victoria, Balmoral Castle and the history of Braemar's beautiful area. Specialist clan heritage shop. Adults: £1.90, OAP's £1.20, Children: 95p.
Braemar Castle Tel: (013397) 41219:16 miles West of and ½ mile North-East of Braemar on A93. Castle built in 1628. Hanovarian garrison post after 1745. Fully furnished. Open Easter - end October, 1000 - 1800 daily, except Fridays. Adults: £1.90, O.A.P's £1.50, Children: 90p. Special rates for groups.
Braemar Royal Highland Society, Coilacriech, Ballater. Tel: (013397) 55377. Organisers of Braemar Highland Gathering which takes place on the first Saturday in September anually. Seat tickets bookable from 1 February 1995.
National Nature Reserve, Morrone Birchwood: The finest example of upland birchwood in Britain. 225 hectares. Footpaths, reserve signs, car park. Access from Chapel Brae.
Kindrochit Castle: Balnellan Road: Ruins of ancient important fortification.
Linn of Dee: 6 mles west of Braemar. A narrow chasm on the River Dee and a local beauty spot. The Linn of Quoich in the same direction is also greatly admired.

Balmoral Castle Grounds, Gardens and Ballroom Exhibition: 9 miles east of Braemar. Open to the public daily, except Sundays, from 1 May 1995 - 31 July 1995, 1000 - 1700. Country walks, shops, refreshment room. Adults £2.50, O.A.P.s £2.00. Children under 16 free. There is a car park nearby (meter payment) operated by the Regional Council. Enquire at Main Gate for disabled facilities.

Crathie Church: 9 miles east on A93. Services are at 1130 on Sundays. Open April - Oct. 0930 - 1730; Sundays 1400 - 1700. (Royal Family attend services in Crathie Church when in residence in Balmoral).

Royal Lochnagar Distillery Visitor Centre, Crathie, Ballater, Aberdeenshire. Tel: Crathie (013397) 42273. Adjacent to Balmoral Castle. Guided tour and whisky taste.Coffee shop and distillery shop. Open Easter - October: Mon. - Sat. 1000 - 1700; Sun. 1100 - 1600. Nov - Easter: Mon. - Fri. 1000 - 1700. Admission £2.00. Disabled toilets. Coaches by appointment only. (DD).

Glen Muick, Loch Muick and Lochnagar: Beautiful Highland glen off South Deeside Road. 12 miles SouthWest of Ballater. This minor road is not suitable for caravans. There is aVisitor Centre, car park and toilets at the Spittal.

Muir of Dinnet National Nature Reserve: Tel: (013398) 81667. Area of outstanding natural beauty, 5 miles East beside A93 and A97. Within the reserve are the lovely Burn O'Vat and the Lochs Davan and Kinord.

Corgarff Castle: Off A939 Ballater-Tomintoul road, 14 miles North-west of Ballater. Open: Good Friday - 30 Sept., weekdays 0930 - 1800., Sundays 1400 - 1800. Visits during other months can be arranged with the custodian, Mr Paget. Tel: Corgarff (019756) 51460. Adults £2.00; Children 75p O.A.P.s £1.25.

Dee Valley Manufacturing Confectioners, Station Square, Ballater. Tel: 55499. Sweet factory and Shop. Hand-made sweets made in the traditional way. Viewing area. (DD)

Braeloine Interpretive Centre, Glen Tanar. Tel: Aboyne (013398) 86072. Exhibition about natural history and land-use in the Glen. Ranger service, nature trail, viewpoint, walks, picnic area. Guided walks by arrangement. Off B976, west of Aboyne. Open daily 1000 - 1700, April - September.

The North East Falconery Centre, Broadland, Cairnie, by Huntly. Tel: Cairnie (01466) 760328. Approx. 40 Birds of Prey on view (not caged). Four Flying Displays daily. Open daily 1000 - 1800. Cafeteria and Gift Shop. Picnic area. Suitable for wheelchair access to all areas. **(D)**

Revack Estate, Revack Lodge, Grantown-on-Spey, Moray. Tel: (01479) 872234. Highland Estate set in beautiful grounds, Woodland walks, Orchid Houses, Plant sales, Gift Shop, Licensed Restaurant/Cafeteria. Open daily 1000 - 1800.

Speyside Heather Centre, Skye of Curr, Dulnain Bridge, Inverness-shire. Tel: (01479) 851359. Garden /Visitor Centre, "Heather Story " Exhibition, Show Gardens, Gift Shop, Heather Alpine Sales, etc. Clootie Dumpling Tearoom with cosy fire. Open February - December.

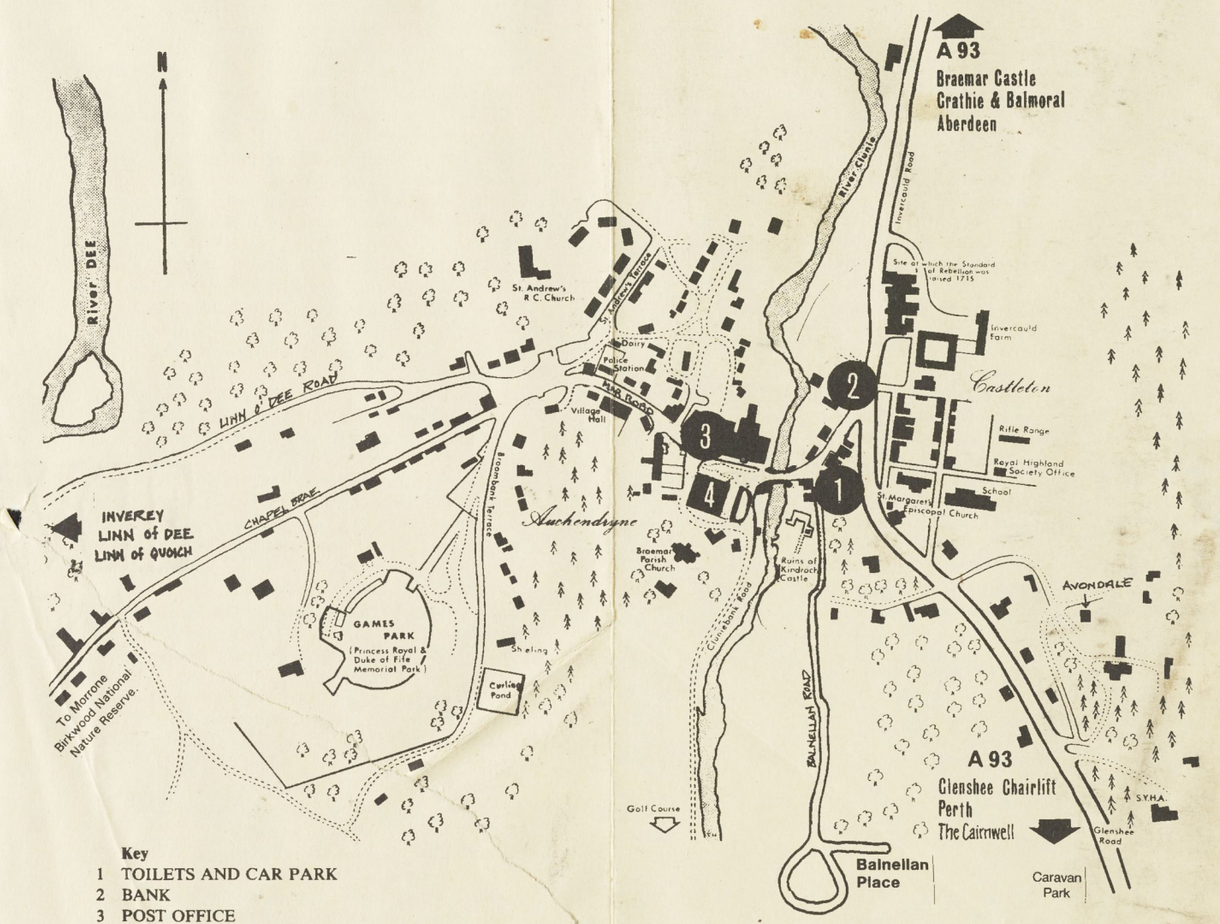
Facilities for the Disabled

The following symbols indicate the accessability of various attractions and facilities for disabled visitors:

(D) - access very easy; no steps; wide doorways; all on one level. Wheelchair and disabled toilets are usually available.

(DD) access possible but may include one or two steps. Help always available from staff. These attractions may be best visited outside peak times or by telephoning in advance.

Braemar



Key

1 TOILETS AND CAR PARK
2 BANK
3 POST OFFICE
4 TOURIST INFORMATION CENTRE

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Every care has been taken to ensure the accuracy of the information in this leaflet, but details may be subject to alteration.

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IN AND AROUND BRAEMAR

1995/96

Kindrochit Brooch