1987 CHARACTER ANALYSIS SHEET - COLORADO COOPERATIVE FISHERY UNIT

SPECIES Salmo clarki pleuriticus LOCALITY M. Fork Elk.

COLLECTED BY Larry Wykoff Jim Nankervis DATE 8-11-82

Cat. # _____ Measurements by JMW DATE _____

Specimen # 12

	1	2	3	4	5	6	7	8
Total L.								
Standard L.	188	166	191	170	189	173	151	171
Body D								
Head L								
Orbit L								
Upper Jaw L								
Dors. Orig. to Snt. tip								
Dorsal fin basal L								
Dorsal fin depressed L								
Adip. fin depressed L								
Caudal peduncle D								
Caudal peduncle L								
Vertebrae								
1st Arch gillrakers (up)	7	7	7	8	7	7	7	6
(lower)	11	12	12	13	13	12	11	12
(total)	18	19	19	20	20	19	18	18
Branchiostegal rays right								
(left)								
Dorsal rays								
Anal rays								
Pectoral fin rays								
Scales in lateral line								
Scales above lateral line	39	43	~~36~~ 43	44	47	43	40	42
Scales 2 rows above lat.	204	194	210	217	205	195	196	227
Pelvic fin rays								
Pyloric caeca	31	33	36	27	32	34	30	31
~~Dentition~~ Basibranchial Teeth	19	8	14	11	15	17	15	10

1982 CHARACTER ANALYSIS SHEET - COLORADO COOPERATIVE FISHERY UNIT

SPECIES Salmo clarki pleuriticus LOCALITY mitchell ck

COLLECTED BY Larry Wykoff Jim Nankervis DATE 8-11-82

Cat. # _____ Measurements by JMN DATE _____

Specimen # 12

	9							
Total L.								
Standard L.	151							
Body D								
Head L								
Orbit L								
Upper Jaw L								
Dors. Orig. to Snt. tip								
Dorsal fin basal L								
Dorsal fin depressed L								
Adip. fin depressed L								
Caudal peduncle D								
Caudal peduncle L								
Vertebrae								
1st Arch gillrakers (up)	4							
(lower)	11							
(total)	15							
Branchiostegal rays right								
(left)								
Dorsal rays								
Anal rays								
Pectoral fin rays								
Scales in lateral line								
Scales above lateral line	40							
Scales 2 rows above lat.	195							
Pelvic fin rays								
Pyloric caeca	35							
Dentition Best	9							

1982 CHARACTER ANALYSIS SHEET - COLORADO COOPERATIVE FISHERY UNIT

SPECIES Salmo clarki pleuriticus LOCALITY SNELL CK 2N 89W sec 24

COLLECTED BY Larry Wykoff Jim Nankervis DATE 8-18-82

Cat. # 15 Measurements by LKW DATE

Specimen #	1	2	3	4	5	6	7	8
Total L.								
Standard L.	167	157	177	151	170	188	149	136
Body D								
Head L.								
Orbit L								
Upper Jaw L								
Dors. Orig. to Snt. tip								
Dorsal fin basal L								
Dorsal fin depressed L								
Adip. fin depressed L								
Caudal peduncle D								
Caudal peduncle L								
Vertebrae								
1st Arch gillrakers (up)	6	6	5	6	6	7	6	6
(lower)	13	11	12	12	12	13	12	11
(total)	19	17	17	18	18	20	18	17
Branchiostegal rays right								
(left)								
Dorsal rays								
Anal rays								
Pectoral fin rays								
Scales in lateral line								
Scales above lateral line	45	48	49	46	49	45	42	43
Scales 2 rows above lat.	196	191	194	184	187	182	189	182
Pelvic fin rays.								
Pyloric caeca	31	34	40	40	35	38	36	–
Dentition								
Basi teeth	8	9	7	6	9	8	6	13

1982 CHARACTER ANALYSIS SHEET - COLORADO COOPERATIVE FISHERY UNIT

SPECIES Salmo clarki pleuriticus LOCALITY Snell Ck

COLLECTED BY Larry Wyckoff Jim Nankervis DATE 8-18-82

Cat. # 15 Measurements by _____ DATE _____

Specimen #	9	10						
Total L.								
Standard L.	172	163	Left for future Control					
Body D								
Head L								
Orbit L								
Upper Jaw L								
Dors. Orig. to Snt. tip								
Dorsal fin basal L								
Dorsal fin depressed L								
Adip. fin depressed L								
Caudal peduncle D								
Caudal peduncle L								
Vertebrae								
1st Arch gillrakers (up)	6	7						
(lower)	12	12						
(total)	18	19						
Branchiostegal rays right								
(left)								
Dorsal rays								
Anal rays								
Pectoral fin rays								
Scales in lateral line								
Scales above lateral line	46							
Scales 2 rows above lat.	193	183						
Pelvic fin rays								
Pyloric caeca	43							
Dentition								
Basi teeth	8	6						
Uniform spotting, typical pleuriticus								

1987 CHARACTER ANALYSIS SHEET - COLORADO COOPERATIVE FISHERY UNIT

SPECIES *Salmo clarki pleuriticus* LOCALITY *East Meadow Ck 5S 79W S20*

COLLECTED BY *Larry Wykoff Jim Nankervis* DATE *7-29-82*

Cat. # _____ Measurements by *LCW* DATE _____

Specimen #	1	2	3	4	5	6	7	8
Total L.								
Standard L.	161	166	181	154	186	163	191	184
Body D								
Head L								
Orbit L								
Upper Jaw L								
Dors. Orig. to Snt. tip								
Dorsal fin basal L								
Dorsal fin depressed L								
Adip. fin depressed L								
Caudal peduncle D								
Caudal peduncle L								
Vertebrae								
1st Arch gillrakers (up)	7	7	8	7	8	7	7	6
(lower)	12	12	13	12	15	13	12	11
(total)	19	19	21	19	23	20	19	17
Branchiostegal rays right								
(left)								
Dorsal rays								
Anal rays								
Pectoral fin rays								
Scales in lateral line								
Scales above lateral line	47	45	46	43	46	45	46	47
Scales 2 rows above lat.	210	212	225	206	220	230	234	231
Pelvic fin rays								
Pyloric caeca	33	36	34	36	35	35	36	30
Dentition								
basi teeth	24	8	27	27	17	15	16	20

1982 CHARACTER ANALYSIS SHEET - COLORADO COOPERATIVE FISHERY UNIT

SPECIES Salmo clarki pleuriticus LOCALITY E Meadow Crk

COLLECTED BY Larry Wyckoff Jim Nankervis DATE

Cat. # Measurements by DATE

Specimen #

	9	10						
Total L.								
Standard L.	170	145						
Body D								
Head L.								
Orbit L								
Upper Jaw L								
Dors. Orig. to Snt. tip								
Dorsal fin basal L								
Dorsal fin depressed L								
Adip. fin depressed L								
Caudal peduncle D								
Caudal peduncle L								
Vertebrae								
1st Arch gillrakers (up)	7	7						
(lower)	12	13						
(total)	19	20						
Branchiostegal rays right								
(left)								
Dorsal rays								
Anal rays								
Pectoral fin rays								
Scales in lateral line								
Scales above lateral line	40	41						
Scales 2 rows above lat.	220	218						
Pelvic fin rays.								
Pyloric caeca	33	31						
Dentition								
basi teeth	12	17						

1982 CHARACTER ANALYSIS SHEET - COLORADO COOPERATIVE FISHERY UNIT

SPECIES Salmo clarki pleuriticus LOCALITY Northwater Ck

COLLECTED BY Larry Wykoff Jim Nankervis DATE

Cat. # Measurements by DATE

Specimen #

	1	2	3	4	5	6	7	8	9	10
Total L.										
Standard L.	148	163	150	151	147	142	143	140	139	146
Body D										
Head L										
Orbit L										
Upper Jaw L										
Dors. Orig. to Snt. tip										
Dorsal fin basal L										
Dorsal fin depressed L										
Adip. fin depressed L										
Caudal peduncle D										
Caudal peduncle L										
Vertebrae										
1st Arch gillrakers (up)	7	7	6	7	7	7	7	7	7	7
(lower)	12	12	12	11	12	12	13	12	11	10
(total)	19	19	18	18	19	18	20	19	18	17
Branchiostegal rays right										
(left)										
Dorsal rays										
Anal rays										
Pectoral fin rays										
Scales in lateral line										
Scales above lateral line	45	42	45	44	45	42	44	44	43	43
Scales 2 rows above lat.	182	187	195	186	187	180	191	186	192	194
Pelvic fin rays										
Pyloric caeca	34	31	31	32	35	30	32	31	33	34
~~Dentition~~ Dass	1	6	0	3	6	5	5	9	3	6

S. c. pleuriticus JQS Guld

JMN, JMN means

#10

	1	2	3	4	5	6	7	8	9	10
GR	17	19	17	18	17	18	18	17	18	18
scales above	46	44	42	43	40	41	45	41	43	42
2 scales	189	186	185	187	183	186	189	181	179	183
P. caecum	30	31	30	32	30	33	31	33	32	31
Bas:	7	7	6	7	10	8	8	7	8	8

S. c. pleuriticus Miller Ck

#4 JMN, JMN

	1	2	3	4	5	6	7	8	9	10
GR	20	19	17	18	19	16	18	17	18	17
Scales Above	42	43	40	42	39	40	43	40	41	40
2 scales Above	171	170	172	178	170	174	178	170	176	171
P. caecum	33	34	30	29	32	30	31	30	33	32
Bas:	7	9	8	9	8	8	7	6	7	7

S. c. pleuriticus

#14 Cabin Ck JMN LCW

	1	2	3	4	5	6
GR	17	19	19	17	19	19
Scales Above	44	44	46	46	45	40
2 Scales Ab	186	189	193	190	194	179
P. caecum	35	33	34	31	35	31
Bas:	9	7	10	9	8	9

CHARACTER ANALYSIS SHEET - COLORADO COOPERATIVE FISHERY UNIT

SPECIES S. clarki pleuriticus LOCALITY Miller Cr. → Eagle R drainage T5S R81W S20

COLLECTED BY JMN, LCW DATE 7-28-82

Cat. # Measurements by E. Wagner DATE 1-27-83

Specimen #	2	7	6	4	5	1	3	8	10	9
Total L.										
Standard L.	170	163	149	161	153	176	169	143	142	139
Body D										
Head L										
Orbit L										
Upper Jaw L										
Dors. Orig. to Snt. tip										
Dorsal fin basal L										
Dorsal fin depressed L										
Adip. fin depressed L										
Caudal peduncle D										
Caudal peduncle L										
Vertebrae										
1st Arch gillrakers (up)	7	7	7	8	7	8	6	7	7	7
(lower)	11	12	12	12	13	13	10	11	11	11
(total)	18	19	19	20	20	21	16	18	18	18
Branchiostegal rays right										
(left)										
Dorsal rays										
Anal rays										
Pectoral fin rays										
Scales in lateral line										
Scales above lateral line										
Scales 2 rows above lat.	198	197	189	203	193	—	183	184	184	200
Pelvic fin rays										
Pyloric caeca										
Dentition	6	5	8	10	6	2	6	9	18	2

1982 CHARACTER ANALYSIS SHEET - COLORADO COOPERATIVE FISHERY UNIT

SPECIES Salmo clarki pleuriticus LOCALITY Cattle Ck T 2S R 85W S 15

COLLECTED BY Larry Wyckoff Jim Nankervis DATE 8-11-82

Cat. # 13 Measurements by _____ DATE _____

Specimen #	1	2	3	4	5	6	7	8
Total L.						169		
Standard L.	188	140	159	157	185	169	194	149
Body D								
Head L.								
Orbit L								
Upper Jaw L								
Dors. Orig. to Snt. tip								
Dorsal fin basal L								
Dorsal fin depressed L								
Adip. fin depressed L								
Caudal peduncle D								
Caudal peduncle L								
Vertebrae								
1st Arch gillrakers (up)	8	6	6	6	7	6	7	7
(lower)	12	11	12	11	10	12	10	11
(total)	20	17 ~~18~~	18	17	17	18	17	18
Branchiostegal rays right								
(left)								
Dorsal rays								
Anal rays								
Pectoral fin rays								
Scales in lateral line								
Scales above lateral line	45	40	44	42	42	41	44	39
Scales 2 rows above lat.	~~190~~ 166	196	168	199	166	168	165	188
Pelvic fin rays.								
Pyloric caeca	35	30	34	30	31	40	33	34
Dentition								
Basi teeth	12 ~~9~~	3 ~~8~~	3	6	1	0	0	3

some variability
but generally typical pleuriticus
3 specimens with spots on their heads

1982

CHARACTER ANALYSIS SHEET - COLORADO COOPERATIVE FISHERY UNIT

SPECIES Salmo clarki pleuriticus LOCALITY Cattleck T 2S R 85 W S-15

COLLECTED BY Larry Wykoff Jim Nankervis DATE 8-11-82

Cat. # _____ Measurements by _____ DATE _____

Specimen #	9	10						
Total L.								
Standard L.	145	184						
Body D								
Head L								
Orbit L								
Upper Jaw L								
Dors. Orig. to Snt. tip								
Dorsal fin basal L								
Dorsal fin depressed L								
Adip. fin depressed L								
Caudal peduncle D								
Caudal peduncle L								
Vertebrae								
1st Arch gillrakers (up)	9	7						
(lower)	11	12						
(total)	20	19						
Branchiostegal rays right								
(left)								
Dorsal rays								
Anal rays								
Pectoral fin rays								
Scales in lateral line								
Scales above lateral line	42	43						
Scales 2 rows above lat.	186	176						
Pelvic fin rays								
Pyloric caeca	27	23						
Dentition								
Basi teeth	8	0						

1982 CHARACTER ANALYSIS SHEET - COLORADO COOPERATIVE FISHERY UNIT

SPECIES Salmo clarki pleuriticus LOCALITY Nickelson Ck

COLLECTED BY Larry Wykoff Jim Nankervis DATE 8-13-82

Cat. # 14 Measurements by LCW DATE

Specimen #	1	2	3	4	5	6	7	8
Total L.								
Standard L.	160	164	180	175	170	162	165	157
Body D								
Head L								
Orbit L								
Upper Jaw L								
Dors. Orig. to Snt. tip								
Dorsal fin basal L								
Dorsal fin depressed L								
Adip. fin depressed L								
Caudal peduncle D								
Caudal peduncle L								
Vertebrae								
1st Arch gillrakers (up)	6	7	7	7	8	7	8	7
(lower)	12	11	13	12	11	12	11	11
(total)	18	18	20	19	19	19	19	18
Branchiostegal rays right								
(left)								
Dorsal rays								
Anal rays								
Pectoral fin rays								
Scales in lateral line								
Scales above lateral line	51	48	47	48	45	46	44	41
Scales 2 rows above lat.	184	160	191	196	183	184	196	191
Pelvic fin rays								
Pyloric caeca	35	37	33	36	41	48	37	26
Dentition								
Basi teeth	3	4	7	2	3	2	4	3

1982 CHARACTER ANALYSIS SHEET - COLORADO COOPERATIVE FISHERY UNIT

SPECIES Salmo clarki pleuriticus LOCALITY Nickelson Ck

COLLECTED BY Larry Wykoff Jim Nankervis DATE 8-13-82

Cat. # 14 Measurements by LCW DATE

Specimen #	9	10						
Total L.								
Standard L.	155	171						
Body D								
Head L								
Orbit L								
Upper Jaw L								
Dors. Orig. to Snt. tip								
Dorsal fin basal L								
Dorsal fin depressed L								
Adip. fin depressed L								
Caudal peduncle D								
Caudal peduncle L								
Vertebrae								
1st Arch gillrakers (up)	7	8						
(lower)	12	12						
(total)	19	20						
Branchiostegal rays right								
(left)								
Dorsal rays								
Anal rays								
Pectoral fin rays								
Scales in lateral line	<							
Scales above lateral line	42	44						
Scales 2 rows above lat.	165	192						
Pelvic fin rays								
Pyloric caeca	35	31						
Dentition								
Basi teeth	0	6						

Slight variability in spotting
Generally typical pleuriticus

1982 CHARACTER ANALYSIS SHEET - COLORADO COOPERATIVE FISHERY UNIT

SPECIES Salmo clarki pleuriticus LOCALITY Hat Crk 6 S 83 W 27

COLLECTED BY Larry Wyckoff Jim Nankervis DATE 8-5-82

Cat. # 9 Measurements by LCW DATE

Specimen #	1	2	3	4	5	6	7	8
Total L.								
Standard L.	180	265	162	225	155	184	170	159
Body D								
Head L.								
Orbit L.								
Upper Jaw L								
Dors. Orig. to Snt. tip								
Dorsal fin basal L								
Dorsal fin depressed L								
Adip. fin depressed L								
Caudal peduncle D								
Caudal peduncle L								
Vertebrae								
1st Arch gillrakers (up)	8	6	7	7	7	7	8	8
(lower)	10	11	11	12	12	13	13	12
(total)	18	17	18	19	19	20	21	20
Branchiostegal rays right								
(left)								
Dorsal rays								
Anal rays								
Pectoral fin rays								
Scales in lateral line								
Scales above lateral line	46	48	49	43	43	41	39	41
Scales 2 rows above lat.	185	177±10 thick epidermis	197	189	191	187	194	188
Pelvic fin rays.								
Pyloric caeca	37	36	35	32	Cxca rotten			
Dentition								
Basi teeth	16	10	4	6	9	10	10	4

Only 8

1982 CHARACTER ANALYSIS SHEET - COLORADO COOPERATIVE FISHERY UNIT

SPECIES Salmo clarki pleuriticus LOCALITY Hahn Ck 1N 9D W Sec 34

COLLECTED BY Larry Wyckoff Jim Nankervis DATE 8-17-82

Cat. # 15 Measurements by LCW DATE 10-20-82

Specimen #	1	2	3	4	5	6	7	8
Total L.								
Standard L.	182	171	159	143	154	168	159	146
Body D								
Head L.								
Orbit L								
Upper Jaw L								
Dors. Orig. to Snt. tip								
Dorsal fin basal L								
Dorsal fin depressed L								
Adip. fin depressed L								
Caudal peduncle D								
Caudal peduncle L								
Vertebrae								
1st Arch gillrakers (up)	6	8	6	7	6	8	7	7
(lower)	12	12	12	12	11	13	11	13
(total)	18	20	18	19	17	21	18	20
Branchiostegal rays right								
(left)								
Dorsal rays								
Anal rays								
Pectoral fin rays								
Scales in lateral line								
Scales above lateral line	41	40	37	36	40	45	41	39
Scales 2 rows above lat.	180	183	186	200	179	200	192	224
Pelvic fin rays.								
Pyloric caeca	29	30	31	30	29	32	34	28
Dentition								
basi teeth	8	3	2	4	4	5	0	4

1987 CHARACTER ANALYSIS SHEET - COLORADO COOPERATIVE FISHERY UNIT

SPECIES Salmo clarki pleuriticus LOCALITY Hahn CK

COLLECTED BY Larry Wykoff Jim Nankervis DATE

Cat. # Measurements by DATE

Specimen #	9	10						
Total L.								
Standard L.	179	145						
Body D								
Head L								
Orbit L								
Upper Jaw L								
Dors. Orig. to Snt. tip								
Dorsal fin basal L								
Dorsal fin depressed L								
Adip. fin depressed L								
Caudal peduncle D								
Caudal peduncle L								
Vertebrae								
1st Arch gillrakers (up)	7	7						
(lower)	12	11						
(total)	19	18						
Branchiostegal rays right								
(left)								
Dorsal rays								
Anal rays								
Pectoral fin rays								
Scales in lateral line								
Scales above lateral line	39	41						
Scales 2 rows above lat.	179	180						
Pelvic fin rays.								
Pyloric caeca	32	33						
Dentition								
Basi teeth	1	6						

1982 CHARACTER ANALYSIS SHEET - COLORADO COOPERATIVE FISHERY UNIT

SPECIES *Salmo clarki pleuriticus* LOCALITY *Nolan Ck*

COLLECTED BY *Larry Wykoff Jim Nankervis* DATE *8-5-82*

Cat. # _____ Measurements by *Jim* DATE *11-7-82*

Specimen #	1	2	3	4	5	6	7	8
Total L.								
Standard L.	160	189	179	194	149	157	154	182
Body D								
Head L								
Orbit L								
Upper Jaw L								
Dors. Orig. to Snt. tip								
Dorsal fin basal L								
Dorsal fin depressed L								
Adip. fin depressed L								
Caudal peduncle D								
Caudal peduncle L								
Vertebrae								
1st Arch gillrakers (up)	6	7	6	7	7	7	7	7
(lower)	11	13	11	12	11	11	12	11
(total)	17	20	17	19	18	18	19	18
Branchiostegal rays right								
(left)								
Dorsal rays								
Anal rays								
Pectoral fin rays								
Scales in lateral line								
Scales above lateral line	43	43	43	47	41	45	41	40
Scales 2 rows above lat.	192	192±5	195	201	203	201	198	206
Pelvic fin rays.		thick epid.						
Pyloric caeca	26	31	32	31	31	29	32	28
Dentition	1	1	2	4	4	0	1	7

Spotting relatively uniform spots throughout body, but concentrated posteriorly

1982 CHARACTER ANALYSIS SHEET - COLORADO COOPERATIVE FISHERY UNIT

SPECIES Salmo clarki pleuriticus LOCALITY Nolan Ck

COLLECTED BY Larry Wykoff Jim Nankervis DATE 8-5-82

Cat. # _____ Measurements by JMN DATE _____

Specimen #	9	10						
Total L.								
Standard L.	185	157						
Body D								
Head L								
Orbit L								
Upper Jaw L								
Dors. Orig. to Snt. tip								
Dorsal fin basal L								
Dorsal fin depressed L								
Adip. fin depressed L								
Caudal peduncle D								
Caudal peduncle L								
Vertebrae								
1st Arch gillrakers (up)	7	6						
(lower)	11	12						
(total)	18	18						
Branchiostegal rays right								
(left)								
Dorsal rays								
Anal rays								
Pectoral fin rays								
Scales in lateral line								
Scales above lateral line	40	42						
Scales 2 rows above lat.	202	196						
Pelvic fin rays.								
Pyloric caeca	26	30						
Dentition	0	7						

1982 CHARACTER ANALYSIS SHEET - COLORADO COOPERATIVE FISHERY UNIT

SPECIES *Salmo clarki pleuriticus* LOCALITY Cross Creek

COLLECTED BY Larry Wyckoff Jim Nankervis DATE 8-26-82

Cat. # 19 Measurements by LCW DATE

Specimen #	1	2	3	4	5	6	7	8
Total L.			216					
Standard L.	222	213	183	183	188	171	187	145
Body D								
Head L.								
Orbit L								
Upper Jaw L								
Dors. Orig. to Snt. tip								
Dorsal fin basal L								
Dorsal fin depressed L								
Adip. fin depressed L								
Caudal peduncle D								
Caudal peduncle L								
Vertebrae								
1st Arch gillrakers (up)	8		7	8	8	7	8	8
(lower)	13		13	13	12	11	14	12
(total)	21	19	20	21	20	19	22	20
Branchiostegal rays right								
(left)								
Dorsal rays								
Anal rays								
Pectoral fin rays								
Scales in lateral line								
Scales above lateral line	45	43	43	42	45	46	43	43
Scales 2 rows above lat.	194	207	158	188	195	184	184	186
Pelvic fin rays								
Pyloric caeca	33	41	39	38	41	40	39	
Dentition								
Basi teeth	18	14	8	5	11	3	16	7

relatively uniform spotting
but spots are found throughout lateral area

1987 CHARACTER ANALYSIS SHEET - COMMONS COOPERATIVE FISHERY UNIT

SPECIES Salmo clarki pleuriticus LOCALITY Cross CK

COLLECTED BY Larry Wykoff Jim Nankervis DATE 8-26-80

Cat. # 19 Measurements by LCW DATE

Specimen #	9	10						
Total L.								
Standard L.	168	152						
Body D								
Head L.								
Orbit L								
Upper Jaw L								
Dors. Orig. to Snt. tip								
Dorsal fin basal L								
Dorsal fin depressed L								
Adip. fin depressed L								
Caudal peduncle D								
Caudal peduncle L								
Vertebrae								
1st Arch gillrakers (up)	7	7						
(lower)	12	12						
(total)	19	19						
Branchiostegal rays right								
(left)								
Dorsal rays								
Anal rays								
Pectoral fin rays								
Scales in lateral line								
Scales above lateral line	39	40						
Scales 2 rows above lat.	172	197						
Pelvic fin rays.								
Pyloric caeca	36	40						
Dentition								
Basi teeth	9	6						

1982 CHARACTER ANALYSIS SHEET - COLORADO COOPERATIVE FISHERY UNIT

SPECIES Salmo clarki pleuriticus LOCALITY Cross Ck. (WEST ? Asklarry)

COLLECTED BY Larry Wykoff Jim Nankervis DATE 8-26-82

Cat. # _____ Measurements by JMN + LCW DATE 10-15-82

Specimen #	1	2	3	4	5	6	7	8
Total L.								
Standard L.	197	187	148	174	172	168	152	148
Body D								
Head L								
Orbit L								
Upper Jaw L								
Dors. Orig. to Snt. tip								
Dorsal fin basal L								
Dorsal fin depressed L								
Adip. fin depressed L								
Caudal peduncle D								
Caudal peduncle L								
Vertebrae							8	
1st Arch gillrakers (up)	8	7	7	9	8	7	13	6
(lower)	12	12	12	12	13	13		11
(total)	20	19	19	21	21	20	21	17
Branchiostegal rays right								
(left)								
Dorsal rays								
Anal rays								
Pectoral fin rays								
Scales in lateral line	~~184~~							
Scales above lateral line	42	42	41	40	40	41	41	40
Scales 2 rows above lat.	176	157	174	165	179	167	202	192
Pelvic fin rays.	~~35~~							
Pyloric caeca	35	32	32	37	34	31	33	32
Dentition	13	2	11	1	5	5	8	9

Large spots throughout body

1987 CHARACTER ANALYSIS SHEET - COLORADO COOPERATIVE FISHERY UNIT

SPECIES Salmo clarki pleuriticus LOCALITY Cross Ck (west?)

COLLECTED BY Larry Wyckoff Jim Nankervis DATE 8-26-82

Cat. # _____ Measurements by JMN DATE 10-15-82

Specimen # Continued:	9	10						
Total L.								
Standard L.	143	206						
Body D								
Head L								
Orbit L								
Upper Jaw L								
Dors. Orig. to Snt. tip								
Dorsal fin basal L								
Dorsal fin depressed L								
Adip. fin depressed L								
Caudal peduncle D								
Caudal peduncle L								
Vertebrae								
1st Arch gillrakers (up)	8	8						
(lower)	13	13						
(total)	21	21						
Branchiostegal rays right								
(left)								
Dorsal rays								
Anal rays								
Pectoral fin rays								
Scales in lateral line								
Scales above lateral line	40	41						
Scales 2 rows above lat.	179	152						
Pelvic fin rays.								
Pyloric caeca	35	30						
Dentition	7	6						

1982 CHARACTER ANALYSIS SHEET - COLORADO COOPERATIVE FISHERY UNIT

SPECIES Salmo clarki pleuriticus LOCALITY Corral Creek

COLLECTED BY Larry Wykoff Jim Nankervis DATE 8-20-82

Cat. # _____ Measurements by _____ DATE _____

(None for 10)

Specimen #	1	2	3	4	5	6	7	8
Total L.								
Standard L.	135	135	162	136	138	155	155	150
Body D								
Head L								
Orbit L								
Upper Jaw L								
Dors. Orig. to Snt. tip								
Dorsal fin basal L								
Dorsal fin depressed L								
Adip. fin depressed L								
Caudal peduncle D								
Caudal peduncle L								
Vertebrae								
1st Arch gillrakers (up)	7	8	8	8	7	7	7	8
(lower)	11	14	12	12	11	13	11	13
(total)	18	22	20	20	18	20	18	21
Branchiostegal rays right								
(left)								
Dorsal rays								
Anal rays								
Pectoral fin rays								
Scales in lateral line	41	42	39	38	35	40		39
Scales above lateral line								
Scales 2 rows above lat.	206	205	205	188	189	200	195	203
Pelvic fin rays								
Pyloric caeca	39	40	36	29	32	33	30	31
Dentition								
Basi teeth	12	5	4	6	5	7	12	6

CHARACTER ANALYSIS SHEET - COLORADO COOPERATIVE FISHERY UNIT

SPECIES S. clarki pleuriticus LOCALITY Cabin Creek Ranch Cr Drainage Grand Co., CO T15 R75W S2

COLLECTED BY DMN, LCW DATE 8-23-82

Cat. # Measurements by C. Wagner DATE 1-27-82

Specimen #	4	3	1	2	5	6		
Total L.								
Standard L.	155	161	133	157	145	136		
Body D								
Head L								
Orbit L								
Upper Jaw L								
Dors. Orig. to Snt. tip								
Dorsal fin basal L								
Dorsal fin depressed L								
Adip. fin depressed L								
Caudal peduncle D								
Caudal peduncle L								
Vertebrae								
1st Arch gillrakers (up)	7	6	6	7	7	7		
(lower)	10	12	12	12	12	11		
(total)	17	18	18	19	19	18		
Branchiostegal rays right								
(left)								
Dorsal rays								
Anal rays								
Pectoral fin rays								
Scales in lateral line								
Scales above lateral line								
Scales 2 rows above lat.	193	208	190	190	187	184		
Pelvic fin rays								
Pyloric caeca								
Dentition	4	5	4	6	4	2		
Typical pleuriticus spotting								

1982 CHARACTER ANALYSIS SHEET - COLORADO COOPERATIVE FISHERY UNIT

SPECIES *Salmo clarki pleuriticus* LOCALITY *Black Cow Ck*

COLLECTED BY *Larry Wyckoff Jim Nankervis* DATE *7-27-82*

Cat. # *3* Measurements by *JM* DATE

Specimen # *1 2 3 4 5 6* / *Only 6 Fish*

	1	2	3	4	5	6		
Total L.								
Standard L.	197	174	164	163	149	160		
Body D								
Head L								
Orbit L								
Upper Jaw L								
Dors. Orig. to Snt. tip								
Dorsal fin basal L								
Dorsal fin depressed L								
Adip. fin depressed L								
Caudal peduncle D								
Caudal peduncle L								
Vertebrae								
1st Arch gillrakers (up)	8	7/1	6	7	8	7		
(lower)	14	11/1	14	12	11	13		
(total)	22	18	20	19	19	20		
Branchiostegal rays right								
(left)								
Dorsal rays								
Anal rays								
Pectoral fin rays								
Scales in lateral line								
Scales above lateral line	45	45	43	41	42	45		
Scales 2 rows above lat.	200	163	169	194	140	178		
Pelvic fin rays.								
Pyloric caeca	36	38	33	34	31	37		
~~Dentition~~ Basibranchial	18	1	0	5	1	7		

Spotting is quite variable.
Some specimens look like obvious hybrids
+ others looks like pure cutthroat

CHARACTER ANALYSIS SHEET - COLORADO COOPERATIVE FISHERY UNIT

SPECIES S clarki pleuriticus LOCALITY JQS Gulch T5S R94W S26

COLLECTED BY JMN DATE 8-10-82

Cat. # _____ Measurements by Eric Wagner DATE 1-27-82

Specimen #	6	3	1	5	4	2	9	10	8	7
Total L.										
Standard L.	159	165	169	163	165	195	177	173	173	172
Body D										
Head L										
Orbit L										
Upper Jaw L										
Dors. Orig. to Snt. tip										
Dorsal fin basal L										
Dorsal fin depressed L										
Adip. fin depressed L										
Caudal peduncle D										
Caudal peduncle L										
Vertebrae										
1st Arch gillrakers (up)	7	6	7	6	8	7	7	6	7	7
(lower)	11	11	11	11	11	11	12	12	11	11
(total)	18	17	18	17	19	18	19	18	18	18
Branchiostegal rays right										
(left)										
Dorsal rays										
Anal rays										
Pectoral fin rays										
Scales in lateral line										
Scales above lateral line										
Scales 2 rows above lat.	183	176	199	189	187	186	191	189	205	192
Pelvic fin rays										
Pyloric caeca										
Dentition	0	5	0	3	6	4	3	2	2	1

S. C. Pleurotaenus — Butler Ck

Coll. by LCW + TMN 7-20-82

meas. - TMN

#1

	1	2	3	4	5	6	7	8	9	10
G.R	19	17	17	18	17	18	18	18	18	17
S. Above	43	41	41	47	45	43	43	41	42	41
2 Scales Above	198	195	190	194	199	190	191	188	185	191
Pyloric Caeca	35	33	33	34	31	32	31	30	32	33
Basi Branchial	7	9	9	7	8	7	8	8	8	9

CHARACTER ANALYSIS SHEET - COLORADO COOPERATIVE FISHERY UNIT

SPECIES *Salmo clarki pleuriticus* LOCALITY *Butler Creek → Rifle Cr drainage Garfield Co.* *T35 R92W S31*

COLLECTED BY *Wycoff, JMN* DATE *7-20-82*

Cat. # _____ Measurements by *E. Wagner* DATE *1/26/82*

Specimen #	10	2	4	5	7	1	3	8	9	6
Total L.									224	
Standard L.	161	210	176	200	192	206	204	180	190	162
Body D										
Head L										
Orbit L										
Upper Jaw L										
Dors. Orig. to Snt. tip										
Dorsal fin basal L										
Dorsal fin depressed L										
Adip. fin depressed L										
Caudal peduncle D										
Caudal peduncle L										
Vertebrae										
1st Arch gillrakers (up)	7	7	7	7	6	7	7	7	8	7
(lower)	10	11	12	12	11	12	11	11	11	12
(total)	17	18	19	19	17	19	18	18	19	19
Branchiostegal rays right										
(left)										
Dorsal rays										
Anal rays										
Pectoral fin rays										
Scales in lateral line										
Scales above lateral line										
Scales 2 rows above lat.	165	188	175	181	181	186	199	173	174	186
Pelvic fin rays										
Pyloric caeca										
Dentition	3	5	2	4	0	2	8	1	0	6

Spotting varies - some with large spots typical of stomias
+ others with smaller spots throughout body + concentrated posteriorly
3 specimens with spots on the head.

1982 CHARACTER ANALYSIS SHEET - COLORADO COOPERATIVE FISHERY UNIT

SPECIES Salmo clarki pleuriticus LOCALITY N. Fork Swan River

COLLECTED BY Larry Wykoff Jim Nankervis DATE 8-20-82

Cat. # _____ Measurements by JMN DATE _____

Specimen # 17

	1	2	3	4	5	6	7	8
Total L.								
Standard L.	159	157	169	168	177	151	142	152
Body D								
Head L								
Orbit L								
Upper Jaw L								
Dors. Orig. to Snt. tip								
Dorsal fin basal L								
Dorsal fin depressed L								
Adip. fin depressed L								
Caudal peduncle D								
Caudal peduncle L								
Vertebrae								
1st Arch gillrakers (up)	7	7	8	7	6	6	6	6
(lower)	12	11	12	11	11	12	11	12
(total)	18	18	20	18	17	18	17	18
Branchiostegal rays right								
(left)								
Dorsal rays								
Anal rays								
Pectoral fin rays								
Scales in lateral line								
Scales above lateral line	46	48	45	40	42	41	40	44
Scales 2 rows above lat.	204	199	184	208	198	196	185	194
Pelvic fin rays								
Pyloric caeca	32	31	29	29	33	30	29	33
~~Dentition~~ Basi D. Teeth	8	2	2	10	15	6	16	16

1982 CHARACTER ANALYSIS SHEET - COLORADO COOPERATIVE FISHERY UNIT

SPECIES Salmo clarki pleuriticus LOCALITY

COLLECTED BY Larry Wyckoff Jim Nankervis DATE

Cat. # Measurements by DATE

Specimen #

	9	10						
Total L.								
Standard L.	150	150						
Body D								
Head L								
Orbit L								
Upper Jaw L								
Dors. Orig. to Snt. tip								
Dorsal fin basal L								
Dorsal fin depressed L								
Adip. fin depressed L								
Caudal peduncle D								
Caudal peduncle L								
Vertebrae								
1st Arch gillrakers (up)	6	6						
(lower)	13	13						
(total)	19	19						
Branchiostegal rays right								
(left)								
Dorsal rays								
Anal rays								
Pectoral fin rays								
Scales in lateral line								
Scales above lateral line	42	41						
Scales 2 rows above lat.	223	210						
Pelvic fin rays.								
Pyloric caeca	29	30						
~~Dentition~~ Basibranchial	9	2						

1987 CHARACTER ANALYSIS SHEET - COLORADO COOPERATIVE FISHERY UNIT

SPECIES Salmo clarki pleuriticus LOCALITY Lost Trail Creek T 11 S R. 87W S 20, 21

COLLECTED BY Larry Wyckoff Jim Nankervis DATE 8-12-82

Cat. # 13 Measurements by LCW DATE 10-16-82

Specimen #	1	2	3	4	5	6	7	8
Total L.								
Standard L.	144	194	151	171	192	189	147	165
Body D								
Head L								
Orbit L								
Upper Jaw L								
Dors. Orig. to Snt. tip								
Dorsal fin basal L								
Dorsal fin depressed L								
Adip. fin depressed L								
Caudal peduncle D								
Caudal peduncle L								
Vertebrae								
1st Arch gillrakers (up)	6	6	6	6	7	7	6	7
(lower)	12	15	10	11	12	12	11	12
(total)	18	21	16	16	19	19	17	19
Branchiostegal rays right								
(left)								
Dorsal rays								
Anal rays								
Pectoral fin rays								
Scales in lateral line								
Scales above lateral line	36	39	34	42	41	36	41	40
Scales 2 rows above lat.	210	201	196	190	199	thick spot	201	193
Pelvic fin rays.								
Pyloric caeca	18	30	29	28	26	24	32	25
Dentition								
Basi Teeth	6	0	8	9	4	7	6	12

1983 CHARACTER ANALYSIS SHEET - COLORADO COOPERATIVE FISHERY UNIT

SPECIES Salmo clarki pleuriticus LOCALITY Lost trail

COLLECTED BY Larry Wykoff Jim Nankervis DATE

Cat. # Measurements by DATE

Specimen #	9	10						
Total L.								
Standard L.	144	150						
Body D								
Head L								
Orbit L								
Upper Jaw L								
Dors. Orig. to Snt. tip								
Dorsal fin basal L								
Dorsal fin depressed L								
Adip. fin depressed L								
Caudal peduncle D								
Caudal peduncle L	6	6						
Vertebrae	11	12						
1st Arch gillrakers (up)	17	18						
(lower)								
(total)								
Branchiostegal rays right								
(left)								
Dorsal rays								
Anal rays								
Pectoral fin rays								
Scales in lateral line								
Scales above lateral line	40	42						
Scales 2 rows above lat.	192	189						
Pelvic fin rays.								
Pyloric caeca	33	27						
Dentition								
Basi teeth	5	11						

1982 CHARACTER ANALYSIS SHEET - COLORADO COOPERATIVE FISHERY UNIT

SPECIES Salmo clarki pleuriticus LOCALITY Lost Ck 1 N 89 W S. 35

COLLECTED BY Larry Wyckoff Jim Nankervis DATE 8-12-82

Cat. # 14 Measurements by _____ DATE _____

Specimen #	1	2	3	4	5	6	7	8	9	10
Total L.										
Standard L.	171	149	159	198	148	166	189	196	169	143
Body D										
Head L.										
Orbit L										
Upper Jaw L										
Dors. Orig. to Snt. tip										
Dorsal fin basal L										
Dorsal fin depressed L										
Adip. fin depressed L										
Caudal peduncle D										
Caudal peduncle L										
Vertebrae										
1st Arch gillrakers (up)	8	8	6	7	5	7	7	7	8	7
(lower)	13	12	14	13	13	13	12	12	12	14
(total)	21	20	20	20	18	20	19	19	20	21
Branchiostegal rays right										
(left)										
Dorsal rays										
Anal rays										
Pectoral fin rays										
Scales in lateral line										
Scales above lateral line	43	46	47	48	45	45	46	44	46	45
Scales 2 rows above lat.	198	193	205	189	186	193	180	178	187	175
Pelvic fin rays.										
Pyloric caeca	38	36	38	32	34	40	39	38	40	37
Dentition										
Basi teeth	3	1	3	1	2	3	0	3	4	4

1982 CHARACTER ANALYSIS SHEET - COLORADO COOPERATIVE FISHERY UNIT

SPECIES Salmo clarki pleuriticus LOCALITY Bob tail CK

COLLECTED BY Larry Wykoff Jim Nankervis DATE 8-21-82

Cat. # 16 Measurements by LCW DATE

Specimen #	1	2	3	4	5	6	7	8
Total L.								
Standard L.	159	155	168	173	152	136		
Body D								
Head L								
Orbit L								
Upper Jaw L								
Dors. Orig. to Snt. tip								
Dorsal fin basal L								
Dorsal fin depressed L								
Adip. fin depressed L								
Caudal peduncle D								
Caudal peduncle L								
Vertebrae								
1st Arch gillrakers (up)	7	8	8	7	8	7		
(lower)	11	12	13	12	12	13		
(total)	18	20	21	19	20	20		
Branchiostegal rays right								
(left)								
Dorsal rays								
Anal rays								
Pectoral fin rays								
Scales in lateral line								
Scales above lateral line	39	40	37	41	39			
Scales 2 rows above lat.	164	207	220	202	215	208		
Pelvic fin rays.								
Pyloric caeca	34	37	36	33	35			
Dentition								
Bas.' teeth	6	19	14	20	12	9		

1982 CHARACTER ANALYSIS SHEET - COLORADO COOPERATIVE FISHERY UNIT

SPECIES Salmo clarki pleuriticus LOCALITY South Fork Ranch Creek T 15 75W S 35

COLLECTED BY Larry Wykoff Jim Nankervis DATE 8-23-82

Cat. # 19 Measurements by LCW DATE 10-12-82

Specimen #	1	2	3	4	5	6	7	8
Total L.								
Standard L.	160	140	204	161	182	135	180	158
Body D								
Head L								
Orbit L								
Upper Jaw L								
Dors. Orig. to Snt. tip								
Dorsal fin basal L								
Dorsal fin depressed L								
Adip. fin depressed L								
Caudal peduncle D								
Caudal peduncle L								
Vertebrae								
1st Arch gillrakers (up)	7	7	6	7	7	7	8	8
(lower)	13	12	12	13	11	11	12	13
(total)	20	19	18	20	18	18	20	21
Branchiostegal rays right								
(left)								
Dorsal rays								
Anal rays								
Pectoral fin rays								
Scales in lateral line								
Scales above lateral line	45	48	38	40	40	40	47	
Scales 2 rows above lat.	211	200	211	195	200	209	195	216
Pelvic fin rays								
Pyloric caeca	36	35	34	40	32	36	29	32
Dentition								
Basi teeth	17	4	7	14	6	8	6	8

1982 CHARACTER ANALYSIS SHEET - COLORADO COOPERATIVE FISHERY UNIT

SPECIES Salmo clarki pleuriticus LOCALITY S. Fork Ranch CK

COLLECTED BY Larry Wykoff Jim Nankervis DATE 8-23 82

Cat. # 19 Measurements by LCW DATE 10-12-82

Specimen #	9	10						
Total L.								
Standard L.	154	161						
Body D								
Head L								
Orbit L								
Upper Jaw L								
Dors. Orig. to Snt. tip								
Dorsal fin basal L								
Dorsal fin depressed L								
Adip. fin depressed L								
Caudal peduncle D								
Caudal peduncle L								
Vertebrae								
1st Arch gillrakers (up)	7	8						
(lower)	13	12						
(total)	20	20						
Branchiostegal rays right								
(left)								
Dorsal rays								
Anal rays								
Pectoral fin rays								
Scales in lateral line								
Scales above lateral line	42	40						
Scales 2 rows above lat.	212	202						
Pelvic fin rays.								
Pyloric caeca	36	32						
Dentition								
Bas. teeth	8	9						

1982 CHARACTER ANALYSIS SHEET - COLORADO COOPERATIVE FISHERY UNIT

SPECIES Salmo clarki pleuriticus LOCALITY Fawn Ck

COLLECTED BY Larry Wyckoff Jim Nankervis DATE 6-21

Cat. # #2 Measurements by _____ DATE _____

Specimen # Sample Not Preserved well

Total L.								
Standard L.								
Body D								
Head L								
Orbit L								
Upper Jaw L								
Dors. Orig. to Snt. tip								
Dorsal fin basal L								
Dorsal fin depressed L								
Adip. fin depressed L								
Caudal peduncle D								
Caudal peduncle L								
Vertebrae								
1st Arch gillrakers (up)								
(lower)								
(total)								
Branchiostegal rays right								
(left)								
Dorsal rays								
Anal rays								
Pectoral fin rays								
Scales in lateral line								
Scales above lateral line								
Scales 2 rows above lat.								
Pelvic fin rays								
Pyloric caeca								
Dentition								