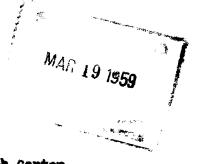
RR CAL COOPERATION Roney Bros. Cattle Wts.



(A)

Susanville Research Center

March 18, 1959

George and Elwin Roney Rt 4, Bex 456 Chico, California

Dear Elwin and George:

The following data on eattle grased on Harvey Valley in 1958 are enclosed.

JUNE 1988

Shrink data - (graphs)

Graph A - Steer calves and steers

Graph B - Meifer calves, heifers and nows

Seasonal weight gain data (June to Oct)

Table 1 Heifers grased in Units 4 & 1

Table 2 Heifers grased in Units 5 & 1

Smaph 2 Heifers grased in Units 5 & 1

Table 5 Heifer calves grased in Unit 4

Table 4 Heifer calves grased in United 4 & 1

Graph 4 Heifer calves grased in Units 4 & 1

Table 5 Heifer calves grased in Units 5 & 1

The shrink curves are self explanatory. The end points on these curves probably best reflect the relationship between weight or age classes. I doubt for example that the heifer ealf curves and the 600 and 800 pound heifer curves normally eross as shown. The curves for the lighter animals probably fall below the curves for the heavier ones throughout under normal circumstances. I doubt too that the 600 pound steer curve normally undulates as shown.

2-George and Elwin Roney-5/18/69

When we were weighing last fall I noticed that young light calves did not gain as much as heavier ones. So I graphed out one group of heifer calves (Table 4) to see the relation between weight gain and weight at beginning of the season. Unfortunately only three calves weighed less than 100 pounds. However these three gained an average of 101 per head compared with the group average of 165 pounds. The curve is very weak on the beginning end but I believe reasonable. This curve shows two things to me - (1) Calves 150 pounds and ever do well on the range. (2) Weight gains of young calves (70 - 125 pounds at the beginning of the season) probably sannot be used to judge the performance of the animals. They may eatch up at a later age.

Notice that heifers (Graph 2) between 500 and 500 pounds gained about the same. Above 500 pounds the heavier animals gained a little less than the lighter ones. Notice also the greater variation in weight gain in the 800 to 900 pounds class. A let of things are happening to heifers of this size. You figure out what this all means.

You may wish to plot a few more curves for other animal groups so I emplosed a few sheets of graph paper.

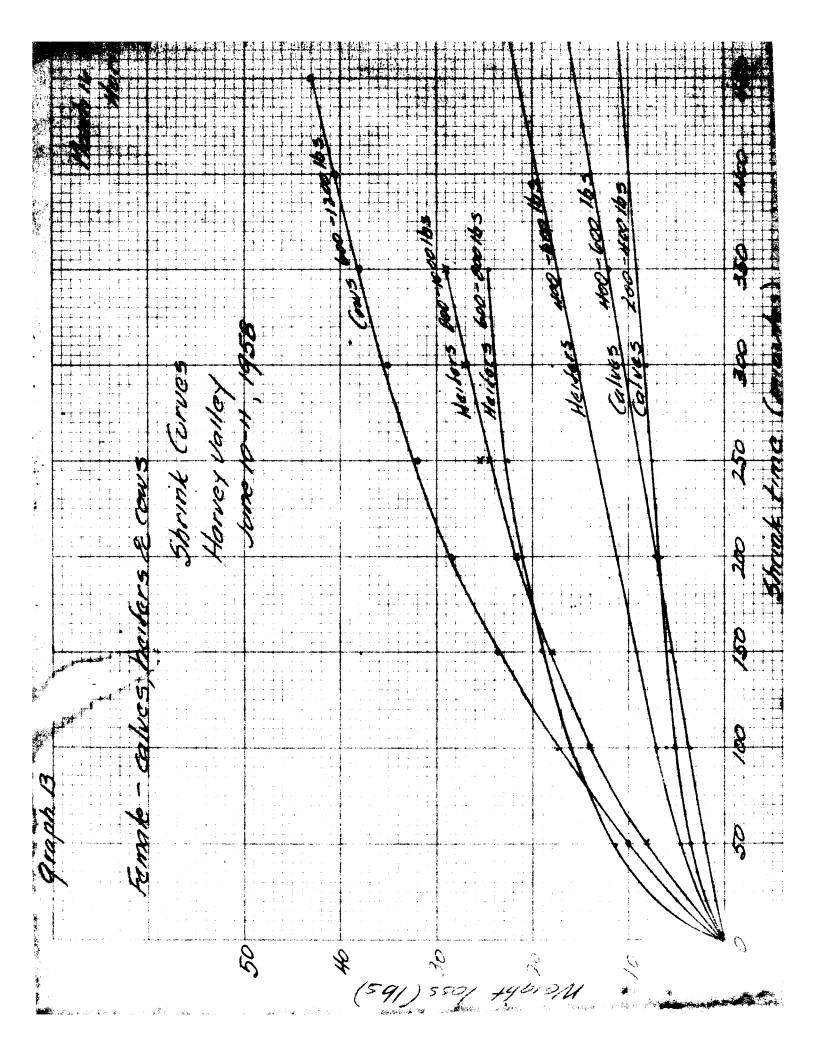
One thing strikes me is the great variation in animals and the need for careful culling. I'm sure the weight date will be helpful for this. I'm sure also that the way we have all planned operations for this coming summer we will get more reliable weights than we have in the past.

If you need additional data please let me know. Also let me know as soon as you can when you plan to mark the Harvey Valley cattle. I'll come down and help.

Sincerely,

A. L. HOMERY Center Leader

Rnels. ALKsAP CC: EJMeolfelk Marh 16 1939 Hormay Calves 200-400165 (a/ves 400 163 350 Shrink time (minutes) June 9-10 1958 Shrink Crues Horwy Valley ç,



	Harn	sted for	7		17/59 Hormay
1 1 1	- grazea	in unit	5 4 & 1 Saasonal gain 185 146 132 N7		
*507801120	840 841 811 816 843 854 814	995 126 926 926 196 196 196 1975 975	155 138 139 153 144 140 156 144		
15 67 8 0 X X X X X X X X X X X X X X X X X X	749 754 749 749 776 779 532	808 796 879 161 776 741 854	118 154 102 130 190 100 114 104		
15 15 27 29 6.50	333 652 573 679 613 638	195 760 643 866 720 934 987	162. 120. 167. 131. 139.	12	901

Table /		le Weig Larrey	45 -19 Unley	758			
Vactors.	grazen	1 10 111	1.5 4-), (i)		
Anmal No	Marght June 11 165	Maybt at 9	Scasona Jain 165				
632345678903927025787461247458	93653831944451116422228184942172	12131899898062838881910109988109888	460355046277712936253358152799685			Page 1	

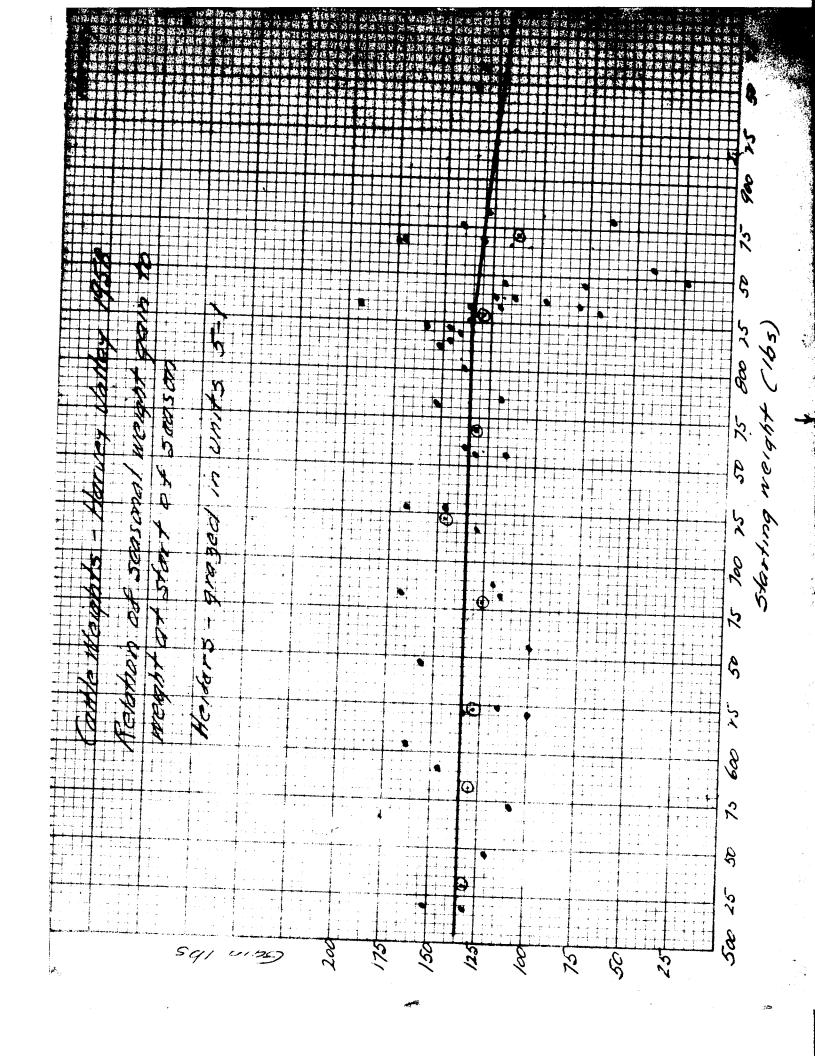
Tuble1 Carle Noights -1958

				and the Committee specific to	and the second s	and the second second second second			and the second s		· · · · · · · · · · · · · · · · · · ·		Processor Part College College
	Cont	fovo	d									ě	
	He	far.	5 -9	143	cd 1	20	nt5	4	/				
The state of the s	An	ma!	MA	inst	Wal	ah+	500	Samo			: .		
	1	6	Se	De 11	ar	9	ga	7/17		٠			
egesper-ripe/sich = 1-4			/	65	12	3	1	65		•			
	Z	6	,	992	16	42		50					
		9	2	967	10	04	/	37		•	• • •		
And the second	3	2	9	774	. //	15	1	41					
9 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	a e	9	2	16 54	10	19							
and the second	/	6	E	67 83		711	/	12 04 41					
** **		13	6	63 E6	2	124 124		36					
		14	8	56	9	24		75		*			
*													
Total		66	7	92	4	27		35					
	1						'						
er statum singa managan a 1 mm an										Beautiful Conference of the Co			
	. ,												-
and the second s								- Tanana					Andrew Street
								and the second					Comments of Contraction
enter transfer				and the same of th									a. 130 diplomost a proposition
				es parameter de la constant					And the second s				graduation of the state of the
Mes et a second				Market Constitutions				and the second	e semente de la constante de l			described on the state of	
eren a		No. of the last of	and the second	Andrews of the second						er a production de la constante de la constant		resident contract	- Andrews
			manufacture and the second					The Property Control of the Party Control of the Pa	Section of the sectio			Blanco introdución	
kontrant in the second			en godennakt og de er verde	4000	o and a since of the control of the		The order of the control of the cont		er - (o -) pro America			e Cope	
Anger a		Section of the sectio			continues of here were			Attantage and the control of the con	and district the state of the s	age of the state o	· Del committé · · · · · · · · · · · · · · · · · ·		
entre de la companya	erin Albert Commerce	9	SECTION OF THE PROPERTY.	e de la prima del la prima de la prima del la prima de la prima del la prima de la prima dela prima del la prima dela pr	And the second s	Brown Co. Co.	and the second					· · · · · · · · · · · · · · · · · · ·	We a second of the second of
	erijderij e		of the department of the contract of	· · · · · · · · · · · · · · · · · · ·		domaine.		A. M. A. C.	6 -	13		3	4 38 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
			o magazinophia a ranga	a production of the contract o	republic vicenos v	English contribution of	on brokensky on the factor of	To a control of the c	:		7	Tile stress and the	1
	*	N TOUR	and the second			j	diameter and the second	1		*			

 Tubk		Harvey 1	ghts -195		1	Horn	oy na
		T 1	corral	rink)			
Heifar:	5-91930	ed in un	1/5 5-1				
Animal	Noight	Moight Cit 9	Sussimal Agin				
	lbs	165	155				
309	219	943 983	149				
48	A35	914	79				
50	655 866	155	100				
71	645	739 802	157				
75	716 821	945	129				
79	591 621	707 754	146				
85	687 582	8-7 699	RC N7	a commence control of the control of			
91 92	602 832	76.5 966	136				
400	547	963	19				
2	827 882	963	136		•		
79	758 875	895 1016	137		:		
12	518 855	649 896	131	1 1 1 1			
19	1030	1111	¥1 81 24				
22	947	1083	136				
				\$ \$	Rig		

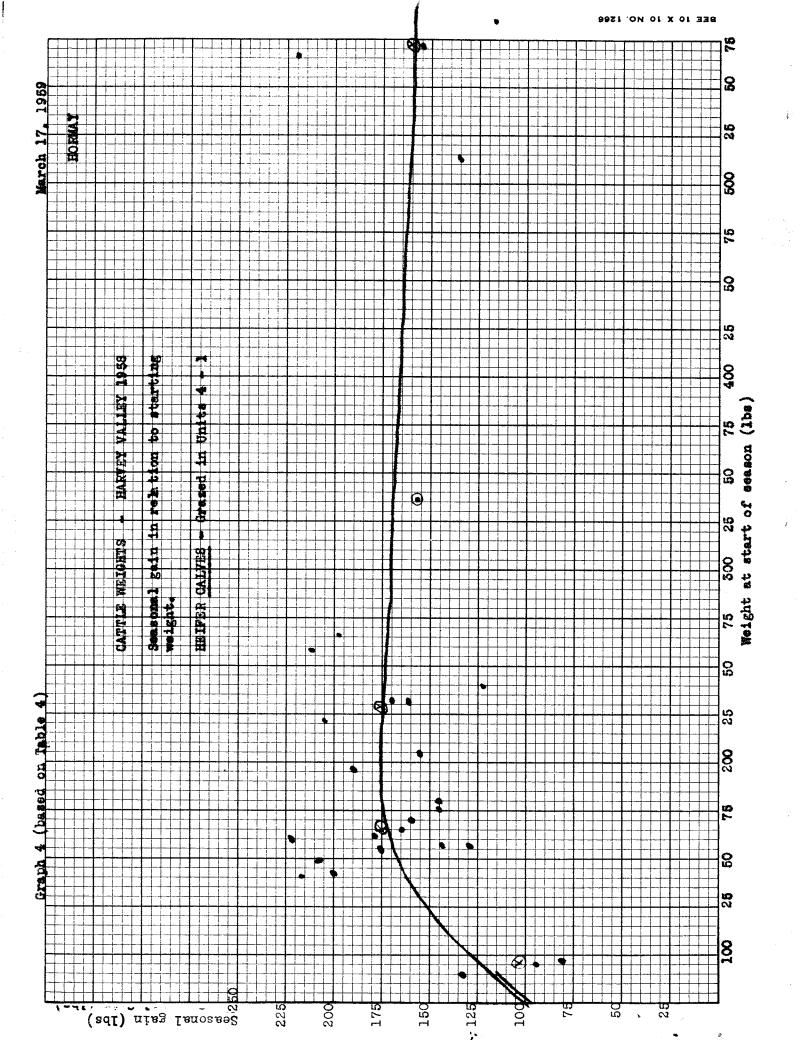
g. West.

- 1	ntin	000	Carle Ha					
Ani	mail lo	Noghi L'salo	Norgh,	+ Sons	nal	-1		
		165	165	99,				
	>3 14 15	10.60	1168	14.8	/			
,	19	533 836	754 954 932	- 79 121	·	Trabl	1 Calve	ed
	3/	838 571	952 678	144				
i	7	840 156 160	973 872 940	146	3		:	
	<i>8</i> ' '	150	868	139 132 4.8	-			
7	5	95E 811	1041	133				
5	7	83) 24	962 1024 932	151 193 1 151			!	B main immigration when the
5.	7	821 966-	96.8 1038	1/2		•		
6	3	755 637 - 867	870 960 997	カチ				
47		377 127	621 894	130 52 67				
over/ 15	7		, O-2 -	6181		•	ł	i i i
Wheat of	Or Mey)		. 694 -	121		:	,	:
<> 5		723	<i>898</i>	125			lige Z	: :
	i		670	145				



		///	for shr	inte)	- rar	17/5%
Herbar Animal		Noght	Sasona, Jain 165			
55 60 61	204 549 254 240	404 656 41E 423	200 107 164 153			
86 87 90 92 90 103	175 635 365 300 160	321 769 531 499 346	136 134 146 159 186			
104	215 235 165 260 180	436 471 344 441 385	771 736 159 151 265		i	
115	730 730 240 730 706	401 446 356 371 406	121 216 116 181 200			
061/19 20	272	444	122			
				Coly a		

_



Months Calves - grangered is units 5-1 Months of Wy Wy Wy Give Animal Wy			(-	11/10	hord	for		nk)				
202 4112 564 152 264 457 539 82 4 430 576 146 65 240 420 180 5 450 511 C1 70 147 330 183 7 185 350 165 72 232 418 186 8 295 428 133 24 422 575 103 11 400 521 121 15 312 473 161 12 462 570 188 95 333 569 236 14 3555 485 130 310 577 638 121 15 398 529 131 467 291 501 210 16 310 400 120 120 17 360 463 163 165 1761 36 348 489 141 21 412 575 163 21 412 575 163 21 412 575 163 21 412 575 163 22 320 485 130 23 420 615 145 24 412 575 163 25 320 415 125 36 463 177 37 460 475 215 38 306 463 177 38 306 463 177 38 306 463 177 38 306 463 177 38 376 465 89	do mai	1 MH	m	500	*	Ani	mail lo	Nt June	nt			
5 450 511 67 70 141 330 185 8 195 418 133 74 412 575 83 11 400 521 121 75 312 418 14 355 485 130 310 517 638 121 15 398 529 131 467 291 501 210 16 310 480 170 19 300 463 163 7661 36 348 489 141 21 412 575 163 21 412 575 163 21 412 575 163 21 412 575 163 21 412 575 163 21 412 575 163 21 412 575 163 21 412 575 163 21 412 575 163 21 412 575 163 21 412 575 163 21 412 575 163 21 412 575 164 21 575 164 21 575	202	165	16s 564	146		26	#	157 240	539 420	10	80	
14 355 485 130 310 517 638 701 501 501 501 501 501 501 501 501 501 638 701 501 638 529 131 407 291 501 210 638 300 463 103 7061 38 348 489 141 50 448 573 125 163 125 163 175 163 175 163 175 163 175 175 175 175 175 175 175 175 175 175	5	185 195 400	350 448 52/	165	3 /		5	732 472 312	418 575 473	/	26 03 61	
20 448 573 125 100 21 412 575 163 23 420 615 145 25 205 320 145 27 260 475 215 21 441 525 84 22 449 535 86 27 251 451 200 28 306 483 177 26 465 89	15	355 398 310	485 529 400	130	0	3.	67	517 291	638 501	2	10	
27 260 475 215 31 441 575 84 32 449 535 86 37 251 451 200 38 306 463 177 40 376 465 89	21	417 417 470	573 575 615	14	5 3 5				,,,,			
306 463 137 376 465 89 391 506 105 391 506 105 391 459 106 391 459 106 391 459 106 391 459 106	17 12 13			2 1 1 1.	,							
The state of the s	56	306 376 306	46:	17	7 9 9							
		34/	115 115 15		897	A CHARLES OF THE PROPERTY OF T				Conty	pa	*

.

STANDARD FORM NO. 64 SUSANVILLE RESEARCH CENTER SESTIMATION STATES GOVERNMENT

33

E. J. WOOLFOLK

FROM : A. L. HORMAY

MAR 25 1959

DATE:

MARCH 23, 1959



JAH.

SUBJECT: RR-CAL-COOPERATION, Harvey Valley Cattle Wts.

E) W - Don hot very little Time To open on this per your request

- and found nothing.

mill.

You recall, at Roneys, I pointed out the need for rating stocking in Harvey Valley in terms of a rather refined breakdown of animal units instead of the head basis used by national forest administration. The need for such a breakdown by classes of cattle and ages within classes is acute with us right now. It is the only basis on which we can maintain desired grazing pressure in the various units during the season and on the allotment from year to year.

I have prepared an animal unit scale (attached) for different classes and ages of cattle for use until information can be obtained for a better one. We need this scale to formulate the cattle groups that will graze in Harvey Valley this summer. May I have your suggestions on the ratings.

Joe, we or someone should round up known information on this subject. It is going to be needed in intensive range management. It is a fine student project. Maybe the University could be interested. I'm sure there is a wealth of information in the literature on the food intake and capacity of cattle. There is also information in commercial feed yards and elsewhere. The following article may have several references in it as a starter. "THE JOURNAL OF AGRICULTURAL SCIENCE, Vol. XVI, Part 4, October, 1928, "The Food Capacity of Cattle" by J. Alan Murray, pages 574-583." I'm sure you're way ahead of me on all of this. However, it is not too early to start getting the information.

Attach.

J. L. Hormay

Take the or of the come of the

ANIMAL UNIT SCALE

FOR BEEF CATTLE

Class, Age or	Weight	Animal Unit Rating
Cow (wet - ca	lf at side 4 yrs. plus)	1.00
Cow (wet - ca	lf at side 2 - 3 yrs.)	•95
Cow (dry)	·	•90
Heifer (bred)		•80
Heifer - wean	ing to breeding((vr.)	• 50
Heifer calf -	4 mos. to weaning	. 35
Heifer calf -	birth to 4 mos.	•15
Steer	14 mos. and older	•75
Steer	weaning to 14 mos.	•50
Steer	4 mos. to weaning	•35
Steer	birth to 4 mos.	•15