

1972 Summer Beef Progeny Test
A. T. Ralston and T. P. Davidson*

Fifty-four head of cattle from five breeders were tested at the Umatilla Branch Experiment Station during the summer of 1972. As in past years, the fall calves were somewhat heavier entering the trial but their average daily gains were below the gains made by the spring dropped calves.

The ration fed up to an animal weight of 650 lbs. consisted of 45% steam rolled barley, 20% alfalfa pellets, 10% cull peas, 10% mill run, 7% beet pulp, 0.50% tract mineralized salt, 0.50% ground limestone and 7% molasses. From 650 to 850 lbs. animal weight, the alfalfa pellets were reduced to 15% with compensating adjustments to 46.75% barley, 10% beet pulp and 0.75% trace mineralized salt. From 850 lbs. to slaughter weight of cattle, the alfalfa pellets were further reduced to 10% and the barley changed to 51.75%.

The steer calves were implanted with 12 mg. of stilbestrol and the heifer calves implanted with Synovex H at the start of the test period.

It is interesting to note that the youngest calves in the trial were the heaviest initially and made the greatest feedlot gains. They were also the heaviest per day of age and had the heaviest carcasses per day of age.

Only two of the seven pens of cattle averaged low choice or better, with all of the steers in pen 3 grading low choice or better. Although most of the steers were fed for a considerable time, only four head fell to the 4 cutability grade, primarily due to excessive backfat.

There was a wide range in feed efficiency. Pen 1 had a low of 805 and Pen 7 a high of 891 lbs. of feed per hundredweight of gain. The feed costs of gain reflect the feed efficiencies.

Caution should be exercised in making comparison of crossbreds with straightbred cattle for not only are the sires' potential being evaluated but also the heterosis expressed in the hybrid.

*A. T. Ralston is Professor of Animal Nutrition; T. P. Davidson is Superintendent of the Umatilla Branch Experiment Station.

<u>Pen No.</u>	<u>Owner's name</u>	<u>Address</u>
1	Ernest Patjens	Bake Oven Route Maupin, Oregon 97037
2	Ralstin Herefords	Craigmont, Idaho 83523
3	George W. Neuner	Box 1205 Roseburg, Oregon 97470
4	T. T. Ranch R. Wiswall, Manager	P.O. Box 605 Connell, Washington 99326
5	Ralstin Herefords	Craigmont, Idaho 83523
6	John Beckman	Star Route Etna, California 96027
7	John Beckman	Star Route Etna, California 96027

PEN 1.

Animal No.	Days on feed	Initial wt. lbs.	Plant wt. lbs.	ADG lb.	Age days	Wt/day age(lb) lbs.	Warm wt. lbs.	Carcass wt/day lbs.	Conf: MS ²	Grade ³	BF(in.)sq.in.	Ribeye	Yield %
314	195	595	1075	2.46	410	2.62	675	1.65	18	16	.65	11.5	48.4
317	216	505	1055	2.55	411	2.57	630	1.53	17	16	.63	11.2	48.9
320	202	515	1100	2.90	407	2.70	671	1.65	17	13	.31	12.3	51.4
318	176	605	1080	2.70	394	2.74	611	1.55	17	15	.56	11.3	49.8
319	169	655	1075	2.49	389	2.76	645	1.66	15	15	.45	9.9	48.4
315	169	680	1090	2.43	389	2.80	665	1.71	16	15	.36	11.3	50.5
313	202	615	1150	2.65	424	2.71	683	1.61	18	17	.60	11.4	48.7
321	216	480	1120	2.96	412	2.72	675	1.64	18	16	.43	13.2	51.0
Total	1545	4650	8745	21.14	3236	21.62	5255	13.00	136	123	3.99	92.1	397.1
Average	193	581	1093	2.64	404	2.70	656	1.62	17	15.3	.49	11.5	49.6

PEN 2.

90	195	530	960	2.21	499	1.92	583	1.17	19	15	.75	11.6	48.9
24	146	595	1005	2.81	420	2.39	611	1.45	17	15	.86	11.9	48.7
97	195	530	965	2.23	497	1.94	598	1.20	19	16	.70	12.4	49.8
98	141	655	1055	2.84	440	2.40	637	1.45	19	14	.66	13.0	50.3
92	195	585	985	2.05	508	1.94	607	1.19	19	15	.86	11.4	48.2
23	188	570	1020	2.39	477	2.14	628	1.32	19	16	.51	12.5	50.7
Total	1060	3465	5990	14.53	2841	12.73	3664	7.78	112	60	4.34	72.8	296.6
Average	176	577	998	2.42	473	2.12	610	1.29	18.6	15	.72	12.1	49.4

¹Conformation 14 = average good, 17 = average choice

²Marbling score 12 = average small, 15 = average modest, 18 = average moderate

³Grade 14 = average good, 17 = average choice

PEN 3.

Animal No.	Days on feed	Initial wt. lbs.	Plant wt. lbs.	ADG lb.	Age days	Wt/day age(lb)	Warm wt. lbs.	Carcass wt/day lbs.	Conf!	MS ²	Grade ³	BF(in)	Ribeye sq.in.	Yield %
43	225	450	920	2.09	504	1.83	563	1.12	17	15	17	.70	9.8	48.7
42	225	475	790	1.40	504	1.57	474	0.94	16	14	16	.50	9.9	50.3
37	225	430	945	2.29	512	1.85	583	1.14	17	11	16	.45	10.5	50.0
25	188	545	1030	2.47	497	2.07	618	1.24	19	16	17	1.00	10.5	46.4
44	225	425	890	2.07	504	1.77	538	1.07	17	19	18	.53	10.2	49.8
32	176	590	1035	2.53	475	2.18	627	1.32	18	15	17	.93	12.0	48.0
41	225	490	1010	2.31	507	1.99	638	1.26	17	12	16	.66	10.8	48.2
48	225	425	995	2.53	499	1.99	610	1.22	17	16	17	.80	10.0	47.3
46	202	490	1020	2.62	474	2.15	631	1.33	18	16	17	.70	11.0	48.4
30	188	555	1090	2.85	487	2.24	651	1.34	17	15	17	.68	11.1	48.4
26	225	460	1000	2.40	532	1.88	613	1.15	17	16	17	.60	11.4	49.6
Total	2329	5335	10725	25.56	5495	21.52	6546	13.13	190	165	185	7.55	117.2	535.1
Average	211	485	975	2.32	499	1.95	595	1.19	17	15	16.8	.68	10.6	48.6

PEN 4.

100	225	560	1085	2.33	484	2.24	663	1.37	17	15	17	.90	11.2	47.0
7	225	555	1035	2.13	469	2.21	640	1.36	18	13	16	.63	10.6	48.4
110	202	595	1050	2.25	477	2.20	640	1.34	17	15	17	.43	12.2	51.0
107	202	565	1070	2.50	479	2.23	663	1.38	18	15	17	.66	11.0	48.4
22	195	630	1100	2.41	472	2.33	653	1.38	18	12	16	.43	11.6	50.5
108	225	465	950	2.16	488	1.95	585	1.20	17	12	16	.71	11.4	49.1
104	176	655	1090	2.47	452	2.41	644	1.32	17	13	16	.76	10.9	48.2
2	225	535	945	1.82	491	1.92	519	1.06	17	15	17	.71	9.2	48.2
21	225	425	980	2.46	422	2.32	592	1.40	17	12	16	.63	10.1	48.7
Total	1900	4985	9305	20.53	4234	19.81	5599	11.81	155	122	148	5.86	98.0	439.5
Average	211	553	1033	2.28	470	2.20	622	1.31	17.3	13.5	16.4	.65	10.8	48.8

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PEN 5.

Animal No.	Days on feed		Initial Plant		ADG lb.	Age day	Wt/day age(lb)	Warm		Carcass wt/day lbs.	Conf. ¹ MS ²	Grade ³	BF(in)	Ribeye sq.in.	Yield %
	wt. lbs.	lbs.	wt. lbs.	wt. lbs.											
64	118	600	950	2.97	422	2.25	565	1.34	18	15	16	.50	13.2	52.1	
61	146	570	920	2.40	449	2.05	570	1.27	18	15	17	.65	13.2	51.0	
68	169	530	935	2.40	467	2.00	584	1.25	19	9	14	.68	13.6	51.0	
65	141	570	965	2.80	441	2.19	576	1.31	18	10	14	.58	13.2	51.4	
72	141	570	935	2.59	435	2.15	572	1.31	19	10	14	.50	14.2	52.8	
27	169	555	950	2.34	467	2.03	593	1.27	19	10	15	.51	13.7	52.3	
Total	884	3395	5655	15.50	2681	12.67	3460	7.75	111	69	90	3.42	81.1	310.6	
Average	147	565	942	2.58	446	2.11	576	1.29	18	11.5	15	.57	13.5	51.7	

PEN 6.

162	225	580	1060	2.13	538	1.97	667	1.24	17	10	15	.48	12.9	50.7
163	195	635	1115	2.46	508	2.19	669	1.32	16	8	11	.50	13.0	51.0
1017	225	520	1100	2.58	489	2.25	674	1.38	17	10	14	.51	13.6	51.2
1022	225	575	1030	2.02	478	2.15	619	1.29	16	9	14	.43	11.6	51.0
167	225	480	920	1.96	533	1.73	558	1.05	17	11	15	.46	9.9	49.8
182	169	630	1080	2.66	467	2.31	669	1.43	17	13	16	.60	11.1	48.7
185	169	625	1025	2.37	466	2.20	643	1.38	18	12	16	.76	11.4	48.7
197	225	520	1095	2.56	459	2.39	686	1.49	18	13	16	.78	10.9	47.0
Total	1658	4565	8425	18.74	3938	17.19	5185	10.58	135	86	117	4.52	94.4	398.1
Average	207	570	1053	2.34	492	2.14	648	1.32	17	10.7	14.6	.56	12.4	49.7

PEN 7.

160	188	590	1010	2.23	502	2.01	607	1.21	17	12	16	.56	13.1	50.7
168	195	425	844	2.15	504	1.67	523	1.04	19	10	15	.46	12.4	52.3
175	195	525	945	2.15	496	1.91	586	1.16	18	9	15	.56	11.6	50.3
176	195	515	965	2.31	496	1.95	595	1.20	18	9	15	.80	11.9	49.1
190	176	565	970	2.30	470	2.06	588	1.25	17	9	15	.76	11.3	48.9
198	188	515	975	2.45	479	2.04	574	1.20	17	9	15	.65	11.0	49.3
Total	1137	3135	5709	13.59	2947	11.64	3473	7.08	106	58	91	3.79	71.3	300.6
Average	189	522	951	2.26	491	1.94	578	1.18	17	9.6	15.1	.63	11.8	50.1

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SUMMARY OF 1972 SUMMER PROGENY TEST

Pen No.	No.	Days on feed	Initial wt. lbs.	Final wt. lbs.	ADG lbs. days	Age days	Wt/day of age lb.	Warm wt. lbs.	Carcass wt/day lbs.	Conf: MS ²	G ³	BF	Ribeye sq. in.	Yield of trim cuts %	Daily feed eaten ⁴ lb.	Lbs. of feed gain ⁴	Feed cost/cwt gain ⁴ \$
1	8	193	581	1093	2.64	404	2.70	656	1.62	17.0	10.7	.49	11.5	49.6	21.3	805	25.08
2	6	176	577	998	2.42	473	2.12	610	1.29	18.6	10.0	.72	12.1	49.4	21.0	882	27.10
3	11	188	485	975	2.32	499	1.95	595	1.19	17.2	15.0	.68	10.6	48.6	19.2	829	25.58
4	9	211	553	1033	2.28	470	2.20	622	1.31	17.3	13.5	.65	10.8	48.8	19.5	857	26.62
5	6	147	565	942	2.58	446	2.11	576	1.29	18.5	11.5	.57	13.5	51.7	21.3	833	25.09
6	8	207	570	1053	2.34	492	2.14	648	1.32	17.0	10.7	.56	12.4	49.7	19.8	850	26.68
7	6	189	522	951	2.26	491	1.94	578	1.18	17.7	9.6	.63	11.8	50.1	20.2	891	27.62
Average	54	187	550	1006	2.41	466	2.17	612	1.31	17.6	11.6	.61	11.8	49.7	20.3	849	26.25

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⁴Figures in these columns are for the total pen.