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Beef Progeny Testing Report 1976-1977



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Agricultural Experiment Station
Oregon State University, Corvallis

BEEF PROGENY TESTING REPORT 1976-1977

A. T. Ralston and T. P. Davidson

There was a drastic reduction in the number of cattle entered in the progeny test program of 1976-77. The depressed economy of the cattle industry and a more closely controlled minimum weight no doubt influenced the decision each breeder faced.

Eighty-eight head of cattle from eight different breeders finished the test. Results of the test compared favorably with tests of previous years as shown in table 1.

Table 1. Summary of eight years progeny testing for average daily gain and liveweight or carcass weight per day of age

Year	Average daily gain, lb		Liveweight/day, lb		Carcass weight/day, lb	
	Heifers	Steers	Heifers	Steers	Heifers	Steers
1969	2.39	2.60	2.08	2.22	1.24	1.34
1970	2.42	2.67	2.22	2.31	1.32	1.41
1971	2.69	2.76	2.24	2.40	1.32	1.46
1972	2.38	2.56	2.15	2.34	1.33	1.42
1973	2.15	2.79	2.23	2.45	1.32	1.46
1974	2.46	2.76	2.21	2.44	1.33	1.49
1975	2.50	2.81	2.16	2.37	1.30	1.43
1976	2.68	2.84	2.37	2.53	1.44	1.56

Two rations were used during the test as shown in table 2. Although the cattle were slaughtered at heavier weights, the amount of backfat remained the same as the previous year. The percent of estimated trimmed cuts was almost one percent greater. This is no doubt a reflection of the percentage of crossbred cattle in the test. Care must be taken in pen comparisons due to hybrid vigor expressed in the crossbred cattle.

A. T. Ralston is professor of animal nutrition; T. P. Davidson is superintendent of the Umatilla Branch Experiment Station.

Table 2. Progeny test rations

Ingredients	to 850 lbs %	to slaughter %
Alfalfa	15.00	10.00
Beet pulp	10.00	10.00
Steam rolled barley	59.25	66.75
Trace mineralized salt	0.75	0.75
Limestone	0.50	0.50
Molasses	7.00	7.00
OSU (40% protein) supplement	7.50	5.00

The variation in carcass weight per day of age was much less this year. This may mean that the less desirable sires have been culled.

PEN NO.BREEDER'S NAME

1	C & B Livestock Co., Hermiston, OR
2	Dan Landers, Wilsall, MT
3	Tom Dashiell, Fairfield, WA
4	Tom Dashiell, Fairfield, WA
5	Dan Landers, Wilsall, MT Tom Dashiell, Fairfield, WA Harrell Herefords, Baker, OR
6	Brent Horn, Hermiston, OR
7	Brent Horn, Hermiston, OR
8	TT Herefords, Connell, WA
9	TT Herefords, Connell, WA
10	TT Herefords, Connell, WA
11	Ernest Patjens, Maupin, OR
12	Brent Horn, Hermiston, OR

SUMMARY OF PROGENY TESTING 1976-1977 HEIFERS

Pen no.	Breeder	No. of head	Days on feed	Initial wt. lb.	Final wt lb	ADG lb.	Age days	Wt/day of age lb	Carcass wt. lb.	Carcass wt/day lb	Conf. ¹	MS ²	Gr. ³	Back-fat in.	Rib-eye sq. in.	Yield of trim %	Daily feed lb.	lb. feed/cwt. gain ⁴	Feed cost/cwt. gain ⁴ \$
2	Landers	4	169	500	979	2.87	410	2.40	598	1.46	18	10	14	.63	11.3	49.5	18.6	702	37.89
	Dashiell	4	187	511	975	2.48			588		18	13	16	.68	12.2	50.0			
	Harrell	1	172	460	920	2.67	412	2.23	563	1.37	17	11	16	.60	11.0	49.3			
4	Dashiell	8	169	517	976	2.71			605		17	11	16	.65	12.1	49.4	19.9	735	39.58
12	Horn	3	182	467	942	2.60			584		19	12	16	.63	11.3	49.5	17.7	677	37.65
AV.			175	502	969	2.68	410	2.37	595	1.44	18	11	16	.65	11.8	49.6	19.0	711	38.53

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

⁴Figure in these columns are for the total pen

SUMMARY OF PROGENY TESTING 1976-1977 STEERS

Pen no.	Breeder	No. of head	Days on feed	Initial wt. lb.	Final wt lb	ADG lb.	Age days	Wt/day of age lb	Carcass wt. lb.	Carcass wt/day lb	Conf. ¹ lb.	MS ²	Gr-3	Back-fat in.	Rib-eye sq. in.	Yield of trim %	Daily feed lb. ⁴	lb. feed/cwt gain ⁴	Feed cost/cwt gain ⁴
1	C & B	10	231	548	1176	2.73	460	2.57	744	1.63	20	13	16	.36	14.9	52.2	21.6	793	43.10
3	Dashiell	10	212	528	1076	2.60			687		20	11	16	.74	12.8	48.8	20.1	776	42.15
5	Landers	2	155	620	1108	3.18	400	2.77	669	1.68	18	9	13	.50	12.7	50.6	19.2	719	39.01
	Dashiell	4	208	554	1053	2.44			652		18	13	16	.72	11.9	48.5			
	Harrell	4	211	510	1102	2.85	444	2.49	680	1.54	19	14	17	.60	10.8	48.2			
6	Horn	7	149	729	1194	3.14			744		19	10	14	.50	13.6	50.5	21.9	699	38.47
7	Horn	6	192	531	1088	2.91			689		19	13	17	.57	12.1	49.4	20.1	674	37.23
8	TT Herefords	5	184	505	1122	3.35	455	2.47	689	1.52	19	12	16	.70	11.9	48.6	23.1	688	37.78
9	TT Herefords	5	174	551	1128	3.33	444	2.55	697	1.57	18	13	16	.48	12.1	50.1	19.4	603	33.19
10	TT Herefords	9	188	537	1096	2.98	448	2.45	682	1.53	20	12	16	.66	11.7	48.7	20.4	685	37.73
11	Patjens	6	217	556	1118	2.66	435	2.59	701	1.62	18	12	15	.33	13.0	51.2	20.5	793	43.41
AV.			197	559	1119	2.84	447	2.53	700	1.56	19	12	16	.56	12.7	49.8	20.6	723	39.56

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

⁴Figure in these columns are for the total pen

PROGENY TEST 1976-77

PEN 1. C & B Livestock Co. - Steers

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 %
6217	242	575	1185	2.52	508	2.33	741	1.46	20	11	16	.50	13.9	49.8
6259	200	570	1160	2.95	386	3.01	707	1.83	20	9	14	.10	13.5	53.0
6365	235	550	1170	2.64	490	2.39	740	1.51	21	24	20	.60	14.1	50.3
6526	242	515	1160	2.62	480	2.42	741	1.54	20	11	16	.50	14.6	51.6
6706	235	500	1240	3.15	466	2.66	784	1.68	19	10	14	.40	16.2	52.8
6715	221	530	1180	2.94	451	2.62	722	1.60	18	12	16	.20	14.0	53.0
6778	235	570	1175	2.57	458	2.56	758	1.66	20	12	16	.30	15.4	53.0
6779	242	540	1100	2.31	495	2.22	774	1.56	20	15	17	.40	15.9	52.8
6851	235	560	1185	2.66	446	2.66	695	1.56	19	10	14	.20	15.5	54.2
6904	221	565	1205	2.90	421	2.86	777	1.85	19	14	17	.40	15.6	51.9
Average	231	548	1176	2.73	460	2.57	744	1.63	20	13	16	.36	14.9	52.2

PEN 3. Dashiell - Steers

678	165	630	1105	2.88			714		20	11	16	.50	13.3	50.3
679	182	575	1080	2.77			687		20	11	16	.80	12.4	48.0
680	214	510	1070	2.62			703		20	15	17	.90	13.3	48.1
681	229	495	1080	2.55			695		19	12	16	.50	12.7	50.0
682	214	535	1090	2.59			697		19	13	16	1.10	12.4	46.7
683	214	485	1070	2.73			682		20	14	17	.70	12.1	48.4
684	214	580	1120	2.52			705		20	10	14	.50	13.8	51.0
685	235	455	1035	2.47			643		20	11	16	.80	12.8	48.9
686	235	490	1015	2.23			638		20	14	16	.60	12.3	49.8
687	214	520	1090	2.66			710		20	13	16	1.00	13.0	46.9
Average	212	528	1076	2.60			687		20	11	16	.74	12.8	48.8

¹Conformation 14 = average good, 17 = average choice

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

³Grade 14 = average good, 17 = average choice

PROGENY TEST 1976-77

PEN 4. Dashiell - Helpers

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 %
688	172	515	975	2.67			612		17	13	17	.60	13.5	51.0
689	165	535	975	2.67			616		20	11	16	.80	12.7	48.4
690	165	520	1005	2.94			614		20	11	16	.70	10.8	47.7
691	172	520	970	2.62			617		17	11	16	.50	12.9	50.8
692	172	515	990	2.76			603		16	10	13	.50	13.2	51.2
693	165	545	1000	2.76			611		16	11	16	.50	11.4	49.7
694	172	500	940	2.56			568		17	11	16	.80	10.5	48.0
695	172	485	955	2.73			602		16	10	14	.80	11.7	48.3
Average	169	517	976	2.71			605		17	11	16	.65	12.1	49.4

PEN 6. Horn - Steers

80	163	785	1250	2.85			781		18	12	16	.50	13.1	49.8
C-99	107	840	1200	3.36			742		20	6	11	.60	14.2	50.3
C-131	163	680	1210	3.25			770		19	15	17	.40	14.3	51.2
C-137	171	635	1165	3.10			744		20	6	13	.40	15.0	52.2
461-98	163	670	1190	3.19			756		19	12	16	.50	14.5	50.7
462-C6	131	815	1185	2.82			728		19	9	13	.50	13.4	50.6
463-C132	142	675	1160	3.42			685		16	10	14	.60	10.6	48.7
Average	149	729	1194	3.14			744		19	10	14	.50	13.6	50.5

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³Grade 14 = average good, 17 = average choice

PROGENY TEST 1976-77

PEN 7. Horn - Steers

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 ¹	MS ²	Grade ³	BF(in)	Ribeye sq. in.	Yield %
21	198	575	1045	2.37			672		18	16	18	.50	11.0	49.3
C122	198	505	1080	2.90			673		19	14	17	.40	11.6	50.0
465-20	198	540	1050	2.58			679		19	13	16	.60	11.0	48.4
466-0627	171	550	1125	3.36			727		20	13	17	.60	14.4	50.6
467-0629	191	540	1135	3.12			697		20	11	16	.50	13.5	50.7
468-C107	198	475	1095	3.13			687		19	13	16	.80	11.0	47.3
Average	192	531	1088	2.91			689		19	13	17	.57	12.1	49.4

PEN 8. TT Herefords - Steers

469	156	680	1160	3.08	428	2.71	727	1.70	19	9	14	.80	12.0	47.4
481	191	450	1115	3.48	461	2.42	672	1.46	19	11	16	.50	12.0	50.0
482	198	435	1040	3.06	444	2.34	659	1.48	19	14	17	.70	11.0	48.2
483	191	465	1160	3.64	454	2.56	699	1.54	20	15	17	.80	11.2	47.0
484	184	495	1135	3.48	490	2.34	687	1.40	20	13	16	.70	13.5	50.3
Average	184	505	1122	3.35	455	2.47	689	1.52	19	12	16	.70	11.9	48.6

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PEN 9. TT Herefords - Steers

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 ¹	MS ²	Grade ³	BF(in)	Ribeye sq. in.	Yield %
328	173	530	1085	3.21	438	2.48	663	1.51	18	13	17	.60	11.0	48.7
486	158	565	1090	3.32	410	2.66	687	1.68	18	14	17	.30	12.5	51.2
487	158	660	1230	3.61	453	2.72	745	1.64	18	12	16	.40	12.0	50.0
488	193	515	1085	2.95	474	2.29	675	1.42	18	15	17	.40	12.6	51.1
490	186	485	1150	3.58	444	2.59	716	1.61	20	9	14	.70	12.5	49.3
Average	174	551	1128	3.33	444	2.55	697	1.57	18	13	16	.48	12.1	50.1

PEN 10. TT Herefords - Steers

361	200	500	1085	2.93	442	2.45	674	1.52	18	12	16	.60	12.2	49.1
381	193	545	1085	2.80	450	2.41	692	1.54	20	12	16	.70	11.6	48.0
387	193	510	1095	3.03	459	2.39	682	1.49	20	11	16	.70	10.6	47.5
597	193	555	1100	2.82	454	2.42	684	1.51	20	12	16	.60	11.5	48.7
538	169	590	1140	3.25	464	2.46	705	1.52	20	13	16	.60	11.8	48.7
564	186	590	1115	2.82	441	2.53	708	1.61	20	11	16	.90	12.5	47.9
632	200	445	1045	3.00	447	2.34	663	1.48	17	13	16	.60	11.3	48.9
664	186	505	1050	2.93	464	2.26	649	1.40	20	12	16	.70	11.5	49.0
670	169	595	1150	3.28	407	2.83	680	1.67	20	11	16	.50	12.6	50.7
Average	188	537	1096	2.98	448	2.45	682	1.53	20	12	16	.66	11.7	48.7

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

PROGENY TEST 1976-77

PEN 11. Patjens - Steers

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 %
484	251	535	1120	2.33	467	2.40	725	1.55	18	16	17	.20	16.0	54.3
629	251	575	1220	2.57	481	2.54	785	1.63	19	14	17	.60	12.1	47.6
635	194	570	1125	2.86	405	2.78	671	1.66	20	6	11	.20	12.6	52.0
637	218	515	960	2.04	423	2.27	605	1.43	17	13	16	.50	10.8	49.6
651	251	475	1095	2.47	464	2.36	690	1.49	18	15	17	.30	12.8	51.4
655	139	670	1185	3.71	370	3.20	727	1.96	18	9	14	.20	13.5	52.2
Average	217	556	1118	2.66	435	2.59	701	1.62	18	12	15	.33	13.0	51.2

PEN 12. Horn - Heifers

735	186	420	945	2.82			582		20	13	16	.50	12.7	51.3
1027	173	550	935	2.22			584		18	11	16	.70	10.8	48.8
1032	186	430	945	2.77			587		20	12	16	.70	10.5	48.3
Average	182	467	942	2.60			584		19	12	16	.63	11.3	49.5

¹Conformation 14 = average good, 17 = average choice

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³Grade 14 = average good, 17 = average choice

PROGENY TEST 1976-77

PEN 2. Landers - Heifers

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 %
673	165	570	1025	2.76	441	2.32	641	1.45	20	12	16	.80	12.0	48.7
675	172	450	940	2.85	407	2.31	583	1.43	17	10	13	.70	11.0	48.7
676	137	545	980	3.18	370	2.65	570	1.54	17	10	13	.50	12.1	51.0
677	200	435	970	2.68	420	2.31	599	1.43	18	10	14	.50	10.6	49.4
Average	169	500	979	2.87	410	2.40	598	1.46	18	10	14	.63	11.4	49.5
697	188	500	935	2.31			579		17	12	16	.80	13.0	49.9
698	200	505	1000	2.48			599		20	13	16	.60	11.6	49.6
699	172	535	970	2.53			585		16	13	17	.70	12.4	50.0
701	188	505	995	2.61			588		18	13	16	.60	11.6	50.5
Average	187	511	975	2.48			588		18	13	16	.68	12.2	50.0
705	172	460	920	2.67	412	2.23	563	1.37	17	11	16	.60	11.0	49.3

PEN 5. Landers, Dashiell, and Harrell Herefords - Steers

671	137	685	1145	3.36	407	2.81	683	1.68	17	10	13	.50	12.9	50.7
672	172	555	1070	2.99	392	2.73	654	1.67	18	8	12	.50	12.4	50.4
Average	155	620	1108	3.18	400	2.77	669	1.68	18	9	13	.50	12.7	50.6
696	188	600	1110	2.71			653		17	11	16	.60	11.7	49.2
700	229	555	1000	1.94			607		18	14	18	.50	11.1	49.8
702	229	530	1025	2.16			647		19	14	18	.80	11.7	47.8
703	221	540	1080	2.44			705		19	16	17	.90	12.0	46.8
704	172	545	1050	2.94			649		18	8	13	.80	12.9	48.7
Average	208	554	1053	2.44			652		18	13	16	.72	11.9	48.5
706	229	510	1135	2.73	470	2.41	706	1.50	19	11	16	.60	11.4	48.3
707	229	490	1035	2.38	460	2.25	648	1.41	18	15	18	.60	11.5	48.9
708	221	480	1115	2.87	430	2.59	683	1.59	17	18	18	.50	10.2	48.0
709	165	560	1125	3.42	414	2.72	681	1.64	20	10	14	.70	10.1	47.5
Average	211	510	1102	2.85	444	2.49	680	1.54	19	14	17	.60	10.8	48.2

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