

The Comparison of the Ages and Weights of Beef Cattle

A Thesis

Presented in partial fulfillment of the requirements for the

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of the

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by

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THE COMPARISON OF THE AGES AND WEIGHTS OF CATTLE.

In making the comparison of the ages and the weights of cattle I have taken the four chief breeds; i.e., Angus, Herefords, Short-Horns and Galloways as they have been recorded at the American Royal and the International Stock Shows for the last three years, 1906 - 1907 - 1908.

This comparison is made according to classes as they are given in the Catalogues; i.e., age classes, two years old and under three, senior yearlings, junior yearlings, senior calves and junior calves. In each class I have taken the age and weight of each individual shown and from these taken an average of the age and weight of the total number of the individuals shown for the three years for each breed. Then from these I have arranged tables showing the comparative age and weight for the four breeds.

It is also my purpose to show the comparative gain, for each and all breeds, from a calf to a yearling, from a yearling to a two-year-old and from a two-year-old to a three-year-old.

Table I.

Royal Show.

A N G U S

International Show.

Aged Bulls.

Year	No.	Age. Yr. Mo.	Weight. Das. Lbs.
1906	7	3 - 10 - 2	2007
1907	4	3 - 11 - 11	1847
1908	7	4 - 55 - 21	1940
Total, 18		10 - 26 - 34	5794
Aver.,		4 - 1 - 1	1931

Year.	No.	Age. Yr. Mo. Das.	Weight. Lbs.
1906'			
1907	5	4 - 2 - 9	2022
1908	6	4 - 10 - 21	1999
Total, 11		8 - 12 - 20	4021
Aver.,		4 - 6 - 10	2010

Bulls, 2 Years and Under 3.

1906	6	2 - 11 - 13	1746
1907	6	2 - 6 - 12	1786
1908	4	2 - 9 - 3	1663
Total, 16		6 - 26 - 28	5195
Aver.,		2 - 8 - 29	1731

1906'			
1907	12	2 - 10 - 26	1855
1908	6	3 - 0 - 9	1833
Total, 18		5 - 10 - 35	3688
Aver.,		2 - 11 - 17	1844

Senior Yearling Bulls.

1906	5	2 - 0 - 2	1524
1907	6	2 - 00 - 6	1443
1908	7	2 - 0 - 17	1454
Total, 18		6 - 0 - 25	4420
Aver.,		2 - 0 - 8	1473

1906'			
1907	8	2 - 1 - 3	1509
1908	9	2 - 1 - 7	1581
Total, 17		4 - 2 - 10	3090
Aver.,		2 - 1 - 5	1545

Junior Yearling Bulls.

1906	12	1 - 7 - 12	1301
1907	7	1 - 7 - 6	1215
1908	5	1 - 5 - 25	1226
Total, 24		3 - 19 - 43	3742
Aver.,		1 - 6 - 24	1244

1906	9	1 - 9 - 8	1501
1907	4	1 - 8 - 27	1397
1908	9	1 - 8 - 9	1416
Total, 22		3 - 25 - 44	4314
Aver.,		1 - 8 - 24	1438

'Weights not given

Table I - Continued.

Royal Show.

International Show.

A N G U S

Year.	No.	Age.			Senior Bull Calves. Weight. Lbs.	Year.	No.	Age.			Weight. Lbs.
		Yr.	Mo.	Das.				Yr.	Mo.	Das.	
1906	12	0	-11	- 11	913	1906	10	1	- 3	- 13	1029
1907	7	0	-11	- 26	887	1907	16	1	- 1	- 3	986
1908	9	1	- 0	- 8	885	1908	13	1	- 1	- 8	1002
Total,	28	1	-22	- 45	2685	Total,	39	3	- 5	- 24	3017
Aver.,		0	-11	- 25	895	Aver.,		1	- 1	- 28	1006

Junior Bull Calves.

1906	6	0	- 7	- 28	715	1906	9	0	- 9	- 0	767
1907	8	0	- 7	- 21	658	1907	11	0	- 9	- 26	844
1908	7	0	- 8	- 17	664	1908	9	0	- 9	- 15	787
Total,	21	0	-22	- 66	2037	Total,	29	0	- 27	- 41	2398
Aver.,		0	- 8	- 2	679	Aver.,		0	- 9	- 13	799

Cows, 3 Years Old and Over.

1906	10	5	- 8	- 34	1552	1906	6	5	- 1	- 3	1620
1907	9	5	- 1	- 27	1595	1907	14	5	- 0	- 6	1664
1908	5	5	- 1	- 20	1611	1908	10	5	- 15	- 18	1591
Total,	24	15	-10	- 81	4758	Total,	30	15	- 6	- 27	4875
Aver.,		5	- 4	- 7	1586	Aver.,		5	- 2	- 9	1625

Cow or Heifer, 2 Years Old and Under 3.

1906	9	2	-10	- 19	1444	1906	10	3	- 00	- 1	1485
1907	8	2	-10	- 12	1412	1907	11	2	- 10	- 27	1388
1908	11	2	-10	- 7	1355	1908	14	2	- 10	- 3	1388
Total,	28	6	-30	- 38	4211	Total,	35	7	- 20	- 31	4261
Aver.,		2	-10	- 12	1403	Aver.,		2	- 11	- 0	1420

Table I - Continued.

A N G U S .

Royal Show.

International Show.

Senior Yearling Heifers.

Year. No.	Age.	Weight.	Year. No.	Age.	Weight.
Yr. Mo. Das.	Lbs.		Yr. Mo. Das.	Lbs.	
1906 11	2 - 0 - 9	1242	1906 12	2 - 2 - 5	1308
1907 8	2 - 0 - 9	1146	1907 9	2 - 1 - 24	1227
1908 9	1 - 28 - 27	1111	1908 14	2 - 1 - 18	1207
Total, 28	5 - 8 - 44	3499	Total, 35	6 - 3 - 67	3742
Aver.,	1 - 11 - 4	1166	Aver.,	2 - 1 - 22	1247

Junior Yearling Heifers.

1906 10	1 - 6 - 10	1022	1906 10	1 - 8 - 5	1091
1907 14	1 - 8 - 0	1082	1907 17	1 - 9 - 15	1083
1908 16	1 - 7 - 29	1065	1908 19	1 - 9 - 2	1114
Total, 40	3 - 21 - 39	3169	Total, 46	3 - 26 - 22	3288
Aver.,	1 - 7 - 13	1056	Aver.,	1 - 8 - 27	1099

Senior Heifer Calf.

1906 14	1 - 0 - 2	825	1906 16	1 - 1 - 23	913
1907 19	1 - 0 - 3	812	1907 21	1 - 1 - 19	877
1908 16	0 - 11 - 22	799	1908 21	1 - 1 - 15	850
Total, 49	2 - 11 - 27	2436	Total 58	3 - 3 - 57	2640
Aver.,	0 - 11 - 29	812	Aver.,	1 - 1 - 19	880

Junior Heifer Calf.

1906 14	0 - 8 - 0	645	1906 14	0 - 10 - 0	689
1907 17	0 - 8 - 17	636	1907 21	0 - 10 - 0	661
1908 18	0 - 8 - 6	632	1908 19	0 - 10 - 1	722
Total, 49	0 - 24 - 23	1913	Total, 54	0 - 30 - 1	2072
Aver.,	0 - 8 - 7	637	Aver.,	0 - 10 - 0	690

Table I - Continued.

Royal Show.

International Show.

A N G U S N.

Fat Class.

Steer, Spayed or Martin Heifer, 2 Years and Under 3.

Year.	No.	Yr.	Age. Mo.	Das.	Weight. Lbs.	Year.	No.	Yr.	Age. Mo.	Das.	Weight. Lbs.
1906	3	2	- 10	- 16	1683	1906	12	2	- 11	- 2	1631
1907	5	2	- 9	- 8	1432	1907	13	2	- 9	- 6	1508
1908	4	2	- 9	- 4	1507	1908	15	2	- 9	- 18	1556
Total, 12		6	- 28	- 28	4622	Total, 40		6	- 29	- 26	4695
Aver.,		2	- 9	- 19	1540	Aver.,		2	- 9	- 28	1565

Steer, Spayed or Martin Heifer, 1 Year and Under 2.

1906	4	1	- 10	- 20	1213	1906	8	1	- 11	- 2	1375
1907	8	1	- 8	- 26	1171	1907	20	1	- 11	- 20	1298
1908	5	1	- 4	- 26	1191	1908	25	2	- 0	- 4	1313
Total, 17		3	- 12	- 72	3575	Total, 53		4	- 22	- 26	3986
Aver.,		1	- 4	- 24	1191	Aver.,		1	- 11	- 18	1328

Steer, Spayed or Martin Heifer Under 1 Year.

1906	5	1	- 7	- 5	845	1906	9	1	- 0	- 24	936
1907	2	0	- 11	- 6	840	1907	20	0	- 10	- 35	917
1908	8	1	- 0	- 6	845	1908	24	1	- 1	- 22	959
Total, 15		2	- 18	- 17	2530	Total, 53		2	- 11	- 72	2812
Aver.,		1	- 2	- 5	843	Aver.,		1	- 0	- 4	937

Table I. - Continued.

H E R F O R D S.

Royal Show.

International Show.

Aged Bulls.

Year.	No.	Age.	Weight.		Year.	No.	Age.	Weight.
		Yr. Mo. Das.	Lbs.				Yr. Mo. Das.	Lbs.
1906	7	5 - 7 - 7	2290		1906	7	5 - 2 - 8	2131
1907	8	4 - 8 - 0	2178		1907	5	3 - 11 - 6	2086
1908	9	4 - 7 - 18	2999		1908	12	4 - 10 - 15	2328
Total,	24	12 - 22 - 25	7467		Total,	24	12 - 23 - 29	6545
Aver.,		4 - 11 - 18	2489		Aver.,		4 - 7 - 29	2181

Bulls, 2 Years and Under 3.

1906	7	2 - 7 - 22	1932	1906	10	2 - 10 - 12	1997
1907	9	2 - 8 - 9	1792	1907	7	3 - 2 - 6	2007
1908	9	2 - 8 - 3	1952	1908	11	2 - 8 - 29	1871
Total,	25	6 - 23 - 34	5676	Total,	28	7 - 20 - 47	5875
Aver.,		2 - 8 - 1	1892	Aver.,		2 - 11 - 5	1958

Senior Yearling Bulls.

1906	8	1 - 11 - 26	1601	1906	6	2 - 1 - 9	1880
1907	12	1 - 11 - 26	1461	1907	6	2 - 0 - 22	1546
1908	11	1 - 11 - 16	1549	1908	9	2 - 1 - 20	1701
Total,	31	3 - 33 - 58	4611	Total,	21	6 - 2 - 51	5127
Aver.,		1 - 11 - 19	1537	Aver.,		2 - 1 - 7	1709

Junior Yearling Bulls.

1906	10	1 - 6 - 30	1256	1906	13	1 - 8 - 29	1377
1907	19	1 - 6 - 24	1314	1907	13	1 - 8 - 14	1340
1908	20	1 - 6 - 8	1341	1908	15	1 - 8 - 19	1379
Total,	49	3 - 18 - 62	3911	Total,	41	3 - 24 - 62	4096
Aver.,		1 - 6 - 20	1303	Aver.,		1 - 8 - 20	1365

Table I. - Continued.

H E R E F O R D S.

Royal Show.

International Show.

Year.	No.	Age.		<u>Senior Bull Calves.</u>		Year.	No.	Age.		Weight.	
		Yr.	Mo.	Das.	Lbs.			Yr.	Mo.	Das.	Lbs.
1906	13	0	-11	- 26	1017	1906	12	1	- 1	-10	1047
1907	18	1	- 0	- 3	915	1907	15	1	- 1	-18	1041
1908	15	0	-11	- 26	1005	1908	18	1	- 1	-19	1101
Total,	46	0	-22	- 55	2937	Total	45	3	- 3	-15	3189
Aver.,		0	-11	- 18	979	Aver.,		1	- 1	-15	1063

Junior Bull Calves.

1906	8	0	- 8	- 10	742	1906	12	0	- 9	-20	817
1907	7	0	- 7	- 22	688	1907	14	0	- 9	- 1	833
1908	17	0	- 8	- 18	790	1908	11	0	- 7	-18	763
Total,	32	0	-23	- 50	2220	Total	37	0	-25	-39	2413
Aver.,		0	- 8	- 6	740	Aver.,		0	- 8	-23	804

Cows, 3 Years Old and Over.

1906	7	4	- 2	- 2	1672	1906	11	4	- 9	-11	1625
1907	13	4	- 9	- 5	1678	1907	10	4	-11	-27	1686
1908	7	3	-13	- 22	1679	1908	13	5	- 1	-28	1643
Total,	27	11	-24	- 29	5029	Total	34	13	-21	-66	4954
Aver.,		4	- 4	- 9	1676	Aver.,		4	-11	-22	1651

Cows or Heifers, 2 Years and Under 3.

1906	7	2	- 8	- 21	1514	1906	10	2	-10	-16	1492
1907	12	2	- 9	- 22	1491	1907	10	2	-11	-22	1507
1908	12	2	- 9	- 13	1499	1908	8	3	- 0	-10	1608
Total	31	6	-26	- 56	4504	Total	28	7	-21	-48	4607
Aver.,		2	- 9	- 8	1501	Aver.,		2	-11	-16	1535

Table I. - Continued.

H E R F O R D S.

Royal Show.

International Show.

Senior Yearling Heifer.

Year	No.	Age.	Weight.		Year.	No.	Age.	Weight.
		Yr. Mo. Das.	Lbs.				Yr. Mo. Das.	Lbs.
1906	10	1 - 11 - 15	1206		1906	10	2 - 0 - 27	1307
1907	13	2 - 0 - 1	1280		1907	17	2 - 1 - 23	1318
1908	15	2 - 1 - 9	1292		1908	14	2 - 1 - 12	1234
Total, 38		5 - 12 - 25	3778		Total, 41		6 - 2 - 62	3859
Aver.,		2 - 0 - 8	1259		Aver.,		2 - 1 - 10	1286

Junior Yearling Heifer.

1906	9	1 - 7 - 11	1076	1906	15	1 - 9 - 9	1135
1907	18	1 - 8 - 3	1078	1907	10	1 - 9 - 19	1200
1908	15	1 - 8 - 5	1159	1908	15	1 - 9 - 26	1232
Total, 42		3 - 23 - 19	3313	Total, 40		3 - 27 - 54	3567
Aver.,		1 - 7 - 26	1104	Aver.,		1 - 9 - 18	1169

Senior Heifer Calf.

1906	13	1 - 0 - 1	856	1906	24	1 - 1 - 10	890
1907	20	1 - 1 - 4	797	1907	18	1 - 1 - 14	894
1908	30	1 - 0 - 10	844	1908	21	1 - 1 - 24	926
Total, 63		3 - 1 - 15	2497	Total, 63		3 - 3 - 58	2710
Aver.,		1 - 0 - 15	832	Aver.,		1 - 1 - 19	903

Junior Heifer Calf.

1906	6	0 - 8 - 18	658	1906	16	0 - 9 - 27	728
1907	15	0 - 8 - 11	647	1907	16	0 - 10 - 4	750
1908	17	0 - 8 - 11	653	1908	15	0 - 10 - 1	762
Total, 38		0 - 24 - 40	1958	Total, 47		0 - 29 - 32	2240
Aver.,		0 - 8 - 13	652	Aver.,		0 - 10 - 0	746

Table I. - Continued.

Royal Show.

International Show.

H E R F O R D S.Fat Class.

Year.	No.	Age.	Weight.		Year.	No.	Age.	Weight.
		Yr. Mo. Das.	Lbs.				Yr. Mo. Das.	Lbs.
1906	6	2 - 6 - 5	1553		1906	4	2 - 11 - 0	1737
1907	5	2 - 9 - 24	1608		1907	7	2 - 11 - 27	1562
1908	6	2 - 7 - 14	1464		1908	8	2 - 8 - 13	1600
Total, 17		6 - 22 - 43	4625		Total, 19		6 - 30 - 40	4899
Aver.,		2 - 7 - 24	1541		Aver.,		2 - 10 - 13	1633

Steer, Spayed or Martin Heifer, 1 Year and Under 2.

1906	8	1 - 10 - 14	1310	1906	10	2 - 0 - 10	1451
1907	7	1 - 6 - 2	1166	1907	8	1 - 10 - 3	1317
1908	7	1 - 11 - 12	1284	1908	12	1 - 10 - 9	1298
Total, 22		3 - 27 - 28	3760	Total, 30		4 - 20 - 22	4066
Aver.,		1 - 9 - 9	1253	Aver.,		1 - 10 - 26	1355

Steer, Spayed or Martin Heifer, Under 1 Year.

1906	3	0 - 10 - 9	863	1906	9	1 - 0 - 8	921
1907	2	1 - 0 - 11	887	1907	12	1 - 0 - 24	943
1908	7	0 - 10 - 10	790	1908	16	1 - 0 - 24	914
Total, 12		1 - 20 - 30	2540	Total, 37		3 - 0 - 56	2778
Aver.,		0 - 11 - 0	846	Aver.,		1 - 0 - 18	926

Table I. - Continued.

Royal Show.

International Show.

S H O R T - H O R N SAged Bulls.

Year.	No.	Age.	Weight.	Year.	No.	Age.	Weight.
		Yr. Mo. Das.	Lbs.			Yr. Mo. Das.	Lbs.
1906	13	4 - 7 - 0	2113	1906'			
1907'				1907	17	5 - 0 - 20	2285
1908	7	4 - 6 - 13	2177	1908	10	5 - 0 - 23	2324
Total,	20	8 - 12 - 13	4290	Total,	27	10 - 0 - 43	4609
Aver.,		4 - 6 - 21	2145	Aver.,		5 - 0 - 21	2304

Bulls, 2 Years and Under 3.

1906	6	2 - 10 - 9	1916	1906'			
1907'				1907	9	2 - 8 - 0	1903
1908	7	2 - 8 - 29	1909	1908	13	2 - 9 - 25	1963
Total,	13	4 - 18 - 38	3825	Total,	22	4 - 17 - 25	3866
Aver.		2 - 9 - 19	1912	Aver.,		2 - 8 - 27	1922

Senior Yearling Bulls.

1906	6	1 - 11 - 16	1491	1906'			
1907'				1907	8	2 - 7 - 0	1693
1908	4	1 - 11 - 9	1443	1908	4	2 - 0 - 14	1803
Total	10	2 - 22 - 25	2934	Total,	12	4 - 7 - 14	3496
Aver.,		1 - 11 - 12	1467	Aver.,		2 - 3 - 22	1748

Junior Yearling Bulls.

1906	11	1 - 6 - 24	1348	1906'			
1907'				1907	15	1 - 7 - 19	1390
1908	7	1 - 6 - 0	1267	1908	10	1 - 7 - 26	1485
Total,	18	2 - 12 - 24	2615	Total,	25	2 - 14 - 45	2875
Aver.,		1 - 6 - 12	1307	Aver.,		1 - 7 - 23	1437

'Weights not obtained.

Table I. - Continued.

S H O R T - H O R N S

Royal Show.					<u>Senior Bull Calves.</u>					International Show.				
Year.	No.	Age.			Weights.	Year.	No.	Age.			Weight.			
		Yr.	Mo.	Das.	Lbs.			Yr.	Mo.	Das.	Lbs.			
1906	25	0	-	11	-17	936	1906'							
1907'							1907	24	1	-	1	-	1	1187
1908	19	0	-	11	-29	949	1908	20	1	-	1	-	11	1106
Total,	44	0	-	22	-46	1885	Total,	44	2	-	2	-	12	2293
Aver.,		0	-	11	-23	942	Aver.,		1	-	1	-	6	1146

Junior Bull Calves.

1906	15	0 - 8 - 1	740	1906'				
1907'				1907	23	0 - 10 - 6	920	
1908	9	0 - 8 - 15	770	1908	19	0 - 9 - 29	879	
Total,	24	0 - 16 - 16	1510	Total,	42	0 - 19 - 35	1799	
Aver.,		0 - 8 - 8	755	Aver.,		0 - 10 - 2	899	

Cows, 3 Years Old or Over.

1906	11	4	-	20	-27	1654	1906'							
1907'							1907	10	3	-11	-	29	1780	
1908	13	4	-	5	-26	1683	1908	7	5	-	2	-23	1817	
Total,	24	8	-	25	-53	3337	Total,	17	8	-13	-	52	3597	
Aver.,		5	-	1	-11	1668	Aver.,		4	-	7	-	11	1798

Cow or Heifer, 2 Years Old and Under 3.

1906	10	2 - 7 -11	1439	1906'				
1907'				1907	11	2 -11 - 9		1571
1908	10	2 - 10 -16	1541	1908	15	2 -11 - 16		1571
Total, 20		4 - 17 -27	2980	Total	26	4 -22 -25		3142
Aver.,		2 - 8 -28	1490	Aver.,		2 -11 -12		1571

'Weights not obtained.

Table I. - Continued.

S H O R T - H O R N S

Royal Show. International Show.

Senior Yearling Heifers.

Year.	No.	Age. Yr. Mo. Das.	Weight. Lbs.	Year.	No.	Age. Yr. Mo. Das.	Weight. Lbs.
1906	11	2 - 0 - 4	1228	1906'			
1907'				1907	19	2 - 1 - 10	1332
1908	15	1 - 10 - 14	1225	1908	7	2 - 2 - 1	1315
Total, 26		2 - 10 - 18	2453	Total, 26		4 - 3 - 11	2647
Aver.,		1 - 11 - 9	1226	Aver.,		2 - 1 - 20	1323

Junior Yearling Heifers.

1906	15	1 - 6 - 27	1063	1906'			
1907'				1907	17	1 - 9 - 26	1200
1908	15	1 - 7 - 3	1082	1908	14	1 - 8 - 21	1258
Total, 30		2 - 13 - 30	2145	Total, 31		2 - 17 - 47	2458
Aver.,		1 - 7 - 0	1072	Aver.,		1 - 9 - 8	1229

Senior Heifer Calves.

1906	24	0 - 11 - 8	812	1906'			
1907'				1907	26	1 - 1 - 9	886
1908	23	0 - 11 - 16	849	1908	26	1 - 1 - 10	928
Total, 47		0 - 22 - 24	1661	Total, 52		2 - 2 - 19	1824
Aver.,		0 - 11 - 12	830	Aver.,		1 - 1 - 9	912

Junior Heifer Calves.

1906	21	0 - 8 - 4	674	1906'			
1907'				1907	23	0 - 9 - 29	775
1908	16	0 - 8 - 20	683	1908	22	0 - 9 - 20	752
Total, 37		0 - 16 - 24	1357	Total, 45		0 - 18 - 49	1527
Aver.,		0 - 8 - 12	678	Aver.,		0 - 9 - 24	763

'Weights not obtained.

Table I. - Continued.

S H O R T - H O R N S

Royal Show.

International Show.

Fat Class'

'Weights not obtained.

Table I. - Continued.

Royal Show.

G A L L O W A Y S

International Show.

Aged Bulls.

Year.	No.	Age.	Weight.	Year.	No.	Age.	Weight.
		Yr. Mo. Das.	Lbs.			Yr. Mo. Das.	Lbs.
1906'				1906	4	4 - 6 - 26	1845
1907	3	3 - 6 - 25	1973	1907	9	5 - 0 - 12	1831
1908	5	5 - 2 - 6	1789	1908	2	4 - 7 - 15	1927
Total,	8	12 - 8 - 31	3762	Total,	15	13 - 13 - 53	5603
Aver.,		6 - 10 - 15	1881	Aver.,		4 - 8 - 27	1867

Bulls, 2 Years Old and Under 3.

1906'				1906	1	2 - 8 - 0	1715
1907	6	2 - 8 - 1	1341	1907	4	2 - 8 - 20	1621
1908	6	2 - 6 - 11	1498	1908	2	2 - 9 - 15	1442
Total,	12	4 - 14 - 12	2839	Total,	7	6 - 25 - 35	5078
Aver.,		2 - 7 - 6	1419	Aver.,		2 - 8 - 28	1692

Senior Yearling Bulls.

1906'				1906	6	1 - 11 - 9	1201
1907	10	1 - 9 - 22	1080	1907	7	1 - 9 - 0	1225
1908	10	1 - 7 - 1	1117	1908	4	1 - 9 - 17	1377
Total,	20	2 - 16 - 23	2197	Total,	17	3 - 29 - 26	3803
Aver.,		1 - 8 - 11	1098	Aver.,		1 - 9 - 28	1267

Junior Yearling Bulls.

1906"				1906"
1907"				1907"
1908"				1908"

'Weights not obtained.

"Data same as preceding class.

Table I. - Continued.

G A L L O W A Y S

Royal Show.

International Show.

Senior Bull Calves.

Year.	No.	Age.	Weight.		Year.	No.	Age.	Weight
		Yr. Mo. Das.	Lbs.				Yr. Mo. Das.	Lbs.
1906'					1906	7	0 - 10 - 7	782
1907	3	0 - 8 - 7	650		1907	8	0 - 10 - 23	752
1908	5	0 - 9 - 20	710		1908	4	0 - 8 - 21	725
Total,	8	0 - 17 - 27	1360		Total	19	0 - 28 - 51	2259
Aver.,		0 - 8 - 19	680		Aver.,		0 - 9 - 27	753

Junior Bull Calves.

1906"	1906"
1907"	1907"
1908"	1908"

Cows, 3 Years Old or Over.

1906'					1906	4	6 - 11 - 26	1505
1907	4	7 - 4 - 6	1498		1907	9	5 - 11 - 13	1426
1908	8	5 - 7 - 16	1451		1908	5	5 - 2 - 28	1602
Total,	12	12 - 11 - 22	2949		Total,	18	16 - 24 - 67	4533
Aver.,		6 - 5 - 17	1474		Aver.,		5 - 12 - 22	1511

Cow or Heifer, 2 Years and Under 3.

1906'					1906	4	2 - 8 - 27	1298
1907	6	2 - 9 - 3	1212		1907	9	2 - 10 - 22	1217
1908	6	2 - 9 - 9	1143		1908	5	2 - 9 - 19	1244
Total,	12	4 - 18 - 12	2355		Total,	18	6 - 27 - 68	3759
Aver.,		2 - 9 - 6	1177		Aver.,		2 - 9 - 22	1253

'Weights not given.

"Data same as preseding class.

Table I. - Continued.

G A L L O W A Y S

Royal Show.

International Show.

Senior Yearling Heifers.

Year.	No.	Age.	Weight.
		Yr. Mo. Das.	Lbs.
1906'			
1907	2	2 - 1 - 3	1070
1908	4	2 - 0 - 4	1093
Total,	6	2 - 1 - 7	2163
Aver.,		2 - 0 - 18	1081

Year.	No.	Age.	Weight.
		Yr. Mo. Das.	Lbs.
1906	4	2 - 0 - 22	1135
1907	8	2 - 1 - 19	1037
1908	4	2 - 1 - 1	1072
Total,	16	6 - 2 - 42	3244
Aver.,		2 - 1 - 4	1081

Junior Yearling Heifers.

1906'			
1907	2	1 - 6 - 13	885
1908	7	1 - 7 - 18	894
Total,	9	2 - 13 - 31	1779
Aver.,		1 - 6 - 30	889

1906	8	1 - 8 - 22	973
1907	12	1 - 8 - 21	928
1908	6	1 - 8 - 29	955
Total,	26	3 - 24 - 72	2856
Aver.,		1 - 8 - 24	952

Senior Heifer Calves.

1906'			
1907	6	0 - 11 - 20	697
1908	6	0 - 11 - 4	743
Total,	12	0 - 22 - 24	1440
Aver.,		0 - 11 - 12	720

1906	9	1 - 1 - 27	784
1907	7	1 - 0 - 19	685
1908	5	1 - 0 - 19	773
Total,	21	3 - 1 - 65	2242
Aver.,		1 - 1 - 1	747

Junior Heifer Calves.

1906'			
1907	3	0 - 6 - 21	550
1908	5	0 - 7 - 24	538
Total,	8	0 - 13 - 45	1088
Aver.,		0 - 7 - 5	544

1906	8	0 - 9 - 19	613
1907	9	0 - 8 - 26	616
1908	6	0 - 9 - 7	624
Total,	23	0 - 26 - 52	1853
Aver.,		0 - 9 - 7	617

'Weights not given.

Table I. - Concluded.

G A L L O W A Y S

Royal Show.

International Show.

Fat Class.

Steer, Spayed or Martin Heifer, 2 Years and Under 3.

Year.	No.	Age.	Weight.	Year.	No.	Age.	Weight.
		Yr. Mo. Das.	Lbs.			Yr. Mo. Das.	Lbs.
1906'				1906	6	2 - 8 - 18	1400
1907'				1907	3	2 - 9 - 29	1395
1908'				1908	5	2 - 7 - 5	1387
Total,				Total, 14	6	-24 - 52	4182
				Aver.,		2 - 8 - 17	1394

Steer, Spayed or Martin Heifer, 1 Year and Under 2Y

1906'				1906	6	1 -11 - 20	1190
1907'				1907	5	1 - 8 - 13	1076
1908'	1	1 - 9 - 22	1300	1908	4	1 -11 - 9	1212
Total,	1	1 - 9 - 22	1300	Total, 15	3	-30 - 42	3478
				Aver.,		1 -10 - 14	1159

Steer, Spayed or Martin Heifer, Under 1 Year.

1906'				1906	3	0 - 10 -28	850
1907'				1907	3	0 - 11 - 9	850
1908	1	1 - 1 - 9	925	1908	3	1 - 0 -24	913
Total,	1	1 - 1 - 9	925	Total, 9	1	- 21 -61	2613
				Aver.,		0 - 11 -20	871

'Weights not obtained.

The above table is an average of the ages and weights of
the total number of individuals shown in each class
for each year, and an average taken so as to
show the comparison given in the
following table.

Table II is a summary of Table I. In this table it is shown that, with but two exceptions, the Short-Horns are the heaviest breed. As aged bulls they are 56.6 pounds heavier than a Hereford. In the two-year-old and under three-year-old class the Herefords are the heaviest by 8 pounds, with the Short-Horns next. In the senior yearling bull class the Herefords again predominate by 16 pounds. It is shown by the three classes mentioned that the Herefords and Short-Horns run very close, but in the remaining classes it is shown that the Short-Horns out weigh the Herefords. Thus it is shown by these weights that the Short-Horns are the heaviest, Herefords second, Angus third, and the Galloways fourth.

Table III.

SUMMARY OF TABLE II.

COMPARATIVE GAINS FOR ONE YEAR.

Royal Show.					International Show.				
Breed.	No.	Age.	Av.Wt. 3 years	Gain.	No.	Age.	Av. Wt. 3 years	Gain.	Av.Gain 2 shows
Angus	49	Jr. & Sr.B. Calves	787		68	Jr. & Sr.B Calves.	902.5		
	42	Jr. & Sr.Yr. Bulls	1358	571	39	Jr. & Sr.Yr.1495.5 Bulls		593	582
	25	B.2 Yr. & under 3.	1731	373	28	B.2 yr. & under 3.	1844	352.5	362.78
	18	Aged Bulls.	1931	200	11	Aged Bulls2010		166	183
Herefords	78	Jr. & Sr.B. Calves.	901		82	Jr. & Sr.B. 933.5 Calves.			
	80	Jr. & Sr.Yr. Calves.	1420	519	62	Jr. & Sr.Yr.1537 Calves.		604.5	561.75
	25	B.2 yr. & under 3.	1895	475	28	B.2 yr. & 1953 Under 3. & Under 2.		421	448
	24	Aged Bulls.	2255	360	24	Aged Bull 2181		223	291.5

Table III. - Concluded.

Summary of Table II.

COMPARATIVE GAINS FOR ONE YEAR.

Royal Show.

International Show.

Bulls.

Breed	No.	Age	Av. Wt. 3 years.	Gain	No.	Age	Av. Wt. 3 years.	Gain	Av. Gain. 2 shows.
Short-Horns									
	68	Jr. & Sr.B. Calves.	848.5		86	Jr.&Sr.B. Calves.	1020.5		
	28	Jr. & Sr.Yr. Bulls.	1387	538.5	37	Jr.&sr.yr Bulls.	1592.5	572.3	555.25
	13	B.2 yr. & Under 3.	1912	525	22	B.2 Yr.& Under 3.	1922	330.5	427.75
	20	Aged Bulls	2145	233	27	Aged Bull	12304	382	307.5
Galloways									
	8	Jr.& Sr.B. Calves.	680		19	Jr.&Sr.B. Calves.		1129	
	20	Jr. & Sr.Yr. Bulls.	1090	410	17	Jr.&Sr.Yr. Bulls	1267	138	274
	12	B. 2 yr. & Under 3.	1419	329	7	B.2 yr.& Under 3.	1696	229	279
	8	Aged Bulls.	1881	462	15	Aged Bull	1867	171	215.5

Table III is a summary of Table II, Showing the gain in weight of the bulls from a calf to a yearling, from a yearling to a two-year-old, and from a two-year-old to a three-year-old. In this table it is shown that the Angus are the earliest in maturing; i.e., they make the largest gain (561.75 lbs.). From a yearling to a two-year-old the Herefords make the largest gain (448 lbs.), while the Short-Horns make a gain of 427.75 lbs. The largest gains from two-year-old to three-year-old are made by the Short-Horns (307.5 lbs.) and the least is made by the Angus.

Table IV.

Summary of Table III.

COMPARATIVE GAINS FOR ONE YEAR.

Royal Show.

International Show.

Cows.

Breed	No.	Age.	Av. Wt. 3 yrs.	Gain	No.	Age.	Av. Wt. 3 yrs.	Gain	Av. Gain 2 shows
<u>Angus</u>	98	Jr. & Sr.H. Calves.	724.5		112	Jr.&Sr.H. Calves.	785		
	68	Jr. & Sr.Yr. Heifers.	1127.5	430	51	Jr.&Sr.Yr. Heifers.	1174	389.	396
	28	H.2 yrs.& Under 3.	1403	275.5	35	H.2 yrs.& Under 3.	1420	246	260.75
	24	Aged Cows.	1586	183	30	Aged Cows.	1625	195	189
<u>Herefords</u>	80	Jr. & Sr.H. Calves.	742		110	Jr. & Sr.H. Calves.	824.5		
	80	Jr. & Sr.Yr. Heifers.	1181.5	439.5	81	Jr.&Sr.Yr. Heifer	1237.5	413	426.25
	31	H.2 yrs. & Under 3,	1501	319.5	28	H.2 yrs.& Under 3.	1535	297.5	308.5
	27	Aged Cows.	1676	175	34	Aged Cows.	1651	116	145.5

Table IV. - Concluded.

Summary of Table III.

COMPARATIVE GAINS FOR ONE YEAR.

Royal Show.

International Show.

Cows.

Breed	No.	Age.	Av. Wt. 3 yrs.	Gain. lbs.	No.	Age.	Av. Wt. 3 yrs.	Gain lbs.	Av. Gain 2 shows
<u>Short-Horn</u>									
	84	Jr. & Sr. H. Calves.	782		97	Jr. & Sr.H. Calves.	837.5		
	56	Jr. & Sr.Yr. Heifers.	1149	367	37	Jr. & Sr.Yr. Heifers.	1276	438.5	402.75
	20	H.2 yrs.& Under 3.	1540	391	26	H.2 yrs.& Under 3.	1571	295	343
	24	Aged Cows.	1685	145	17	Aged Cows.	1798	227	186
<u>Galloways</u>									
	20	Jr. & Sr.H. Calves.	632		44	Jr.& Sr.H. Calves.	682		
	15	Jr. & Sr.Yr. Heifers.	967.5	335.5	42	Jr. & Sr. H. Heifers.	1016.6	334.6	335.25
	12	H. 2 yrs. & Under 3.	1177	210.5	18	H.2 yrs.& Under 3.	1279	252.4	231.45
	12	Aged Cows.	1474	297	18	Aged Cows.	1511	232.	264.5

Table IV is a summary of Table III, showing the gains for the cows. The Herefords make the largest gains from a calf to a yearling (436.25 lbs.); Short-Horns second (402.75 lbs.); the Angus third (396 lbs.); and the Galloways last (335.25 lbs.). The largest gain as a yearling to two-year-old is made by the Short-Horns (343 lbs.), while the Herefords make a gain of 308.5 lbs. The Galloways make the largest gain (364.5 lbs.) from a two-year-old to a three-year-old; thus it is shown that the Herefords are the earliest in maturing and the Galloways last.

TABLE V.
COMPARISON OF THE GAINS FOR ONE YEAR.

Breed	Name	Age 1st shown.	<u>Bulls.</u>		Gain lbs.	Av. Gain for Breed.
			wt. as Jr. C.	wt. as Jr. Yr.		
Angus.	Daogamo	Jr.B.Calf.	820	1425	605	
	Blackbird Brilliant.	" " "	820	1600	780	
	Booker T. 2nd.	" " "	560	1340	780	
	Ogarita's Prince.	" " "	530	1215	685	
	Dathan's Queen.	" " "	760	1325	565	
	Clansman	" " "	880	1438	558	662.1
Hereford.	Dislodger	" " "	845	1630	785	
	Princeps 15th.	" " "	1020	1465	445	
	Onward 45th.	" " "	840	1490	650	
	Alto Hescid	" " "	820	1390	570	
	Maj.General	" " "	590	1290	700	648.3
Short- Horns.	'Count Win- Field.	" " "	910	1570	660	
	Woodhill Starlight.	" " "	950	1565	615	
	King Cumber- land.	" " "	870	1590	720	665.
Gallo- Ways.	Victor of Meadowlawn	" " "	810	1275	465	
	Douglas of Meadowlawn.	" " "	785	1460	675	570.

'All for which data was given.

Table V. - Continued.

COMPARISON OF THE GAINS FOR ONE YEAR.

Bulls.

Breed.	Name.	Age 1st shown.	Wt. as Jr.Yr.	Wt. as 2-yr.-old	Gain	Av. Gain for Breed
<u>Angus.</u>	Alden of Meadowbrook	Jr.Yr.B.	1650	2075	425	
	Well's Highlander	" " "	1465	1840	375	
	King Donald	" " "	1385	1720	335	
	Kilt's Hale Lad	" " "	1341	1675	334	
	Royal Hyperion	" " "	1090	1680	590	411.8
<u>Herefords.</u>	Prime Lad 16th	" " "	1640	1965	325	
	Alto Hesoid	" " "	1635	1920	285	
	Arthur Sauers	" " "	1145	1710	565	
	Bonnie Brae 8th	" " "	1290	1685	395	
	Onward 16th	" " "	1450	1910	460	
	Governor	" " "	1450	1900	450	413.3
<u>Short- Horns.</u>	Born Champion	" " "	1220	1735	515	
	Champion of Lyndale	" " "	1360	1835	475	
	Signet	" " "	1480	1865	385	
	Scotch Goods	" " "	1640	1820	180	
	American Archer	" " "	1190	1960	770	465
<u>Galloways.</u>	Standard Favorite	" " "	1315	1785	470	
	Captain 4th of Tarebreach	" " "	1375	1780	405	
	Speculation	" " "	1250	1705	455	
	Tarebreach Edward	" " "	1260	1610	350	420

Table V.- Continued.

COMPARISON OF THE GAINS FOR ONE YEAR.

Royal Show.		Bulls.		International Show.			
Breed.	Name.	Age 1st shown	Wt. as Sr. Yr.	Wt. as 2-Yr.-old	Gain	Av. gain for breed	
<u>Angus'</u>	Golden Gleam	Sr.Yr. B.	1675	1935	260		
	Leroy of Meadowbrook.	" " "	1420	1920	500	380	
<u>Herefords.</u>	Bonnie Brae 3rd	" " "	1840	2200	360		
	General Manager	" " "	1800	2045	245		
	Prime Lad 9th	" " "	1640	1980	340		
	Improver's Winner	" " "	1660	1990	330		
	Princeps 8th	" " "	1595	1925	330		
	Young Beau Brummel	" " "	1520	1910	390	332.5	
<u>Short-Horns'</u>	Anoka Sultan	" " "	1810	2135	325	325	
<u>Galloways'</u>							
' All for which data was given.							
" Same as Junior Yearling Bulls.							
.....							
<u>Angus.</u>	McDonald Lad	B.2 yrs.& Under 3.	1600	1710	110		
	Key	" " "	1505	1671	165		
	Eglamour of Quietdale	" " "	1720	1805	85		
	Glenfoil Thickset	" " "	1990	2095	105		
	Lord Ellenre	" " "	2115	2330	215	136	
<u>Herefords</u>	Privateer 2nd	" " "	2330	2580	250		
	Admiral Dewey	" " "	1810	2110	300		
	Bonnie Brae 3rd	" " "	2170	2305	135		
	Prime Lad 9th	" " "	1980	2150	170		
	Prime Lad 16th	" " "	1965	2300	335	238	

Table V. - Concluded.

COMPARISON OF THE GAINS FOR ONE YEAR.

Royal Show.		<u>Bulls.</u>		International Show		
Breed	Name.	Age 1st shown.	Wt. As Sr.Yr.	Wt. as 2-yr-old	Gain	Av.Gain for Breed.
<u>Short-Horns.</u> '	Avondale	B.2 yrs. & under 3	2080	2325	245	
	Signet	" " "	1865	1970	105	175
<u>Galloways</u> '	Standard "Favorite"	" "	1785	2020	235	235

'All for which data was given.

#####

The data for the above table is taken for those individuals that were shown in the class as headed, and again the next year, there being no note taken of the year, only the classes. Their gain is computed and the average gain for the breed.

In some of the classes there were limited numbers. The data for the Short-Horns was not obtained in 1907 at the Royal and in 1905 at the International, and for the Galloways in 1906 at the Royal Show.

Table VI.

SUMMARY TABLE SHOWING AVERAGE GAIN FOR EACH BREED.

AND THE

AVERAGE GAIN FOR ALL BREEDS.

(From Table V.)

Bulls.

Breed	No.	Age.	Av. gain for Breed for 1 yr. from 1st shown.	Av. Gain for all Breeds.
Angus,	6	Jr.B. Calf	662.1	
Herefords,	6	" " "	648.3	
Short-Horns,	3	" " "	665.3	
Galloways,	2	" " "	570.	636.4 lbs.
.....				
Angus,	8	Sr.B. Calf	495	
Herefords,	8	" " "	535.6	
Short-Horns,	4	" " "	616.2	
Galloways,	2	" " "	570	554.2 "
.....				
Angus,	5	Jr.Yr.Bull	411.8	
Herefords,	7	" " "	413.3	
Short-Horns,	6	" " "	465.	
Galloways,	4	" " "	420	427.5 "
.....				
Angus,	2	Sr.Yr.Bull	380.	
Herefords,	7	" " "	340.7	
Short-Horns,	1	" " "	325.	
Galloways,	4	" " "	420.	366.4 "
.....				
Angus,	5	B.2-yrs.& Under 3.	136	
Herefords,	5	" " "	238	
Short-Horns,	2	" " "	175.	
Galloways,	1	" " "	235.	196. "

Table VI is the summary of Table V showing the average gain for each breed, the average for all breeds, and the age at which the largest gains are made for the bulls.

It is shown in this Table that the Angus make the largest gain (695.5) as a Junior bull calf, but the Short-Horns make the largest gain (616.2) as a Senior bull calf. Taking the average for the two classes the Short-Horns rank first with a gain of 640.75 pounds, and the Angus second with a gain of 595.2 pounds. Thus it is shown that the Short-Horns are the earliest in maturity. The largest gain, from a 2-year-old to a 3-year-old, is made by the Herefords, showing that they are the latest to mature.

It is clearly shown that the largest gains are made as a calf and gradually decrease to maturity.

Table VII.

COMPARISON OF THE GAINS FOR ONE YEAR.

Breed	Name.	<u>Cows.</u>			Gain	Av. Gain for Breed.
		Age 1st shown.	Wt. as Jr.Calf.	Wt. as Jr.Yr.		
<u>Aus.</u>	Blackbird Lady	Jr.H.Calf	660	1070	410	
	Queen Lass of Alta 3rd.	" " "	730	1290	560	
	Blythe of Meadow- brook.	" " "	590	1055	465	
	Enterprise Ann	" " "	585	1090	505	
	Her Majesty 2nd	" " "	685	1185	500	
	Brookhurst Lillian	" " "	840	1235	395	
	Heatherbloom of Quietdale 5th	" " "	920	1370	450	
	Metz Heatherbloom	" " "	690	1105	415	
	Sunflake Queen	" " "	669	1145	456	461.7
<u>Herefords.</u>						
	Miss Filler 6th	" " "	800	1265	465	
	Aileen Donald 2d	" " "	900	1325	425	
	Lady Donald	" " "	770	1230	460	
	Lassie	" " "	740	1255	515	
	Miss Filler 5th	" " "	740	1260	520	
	Mildred	" " "	650	1290	640	
	Princeps Lady	" " "	640	1110	470	
	Lady Fairfax 4th	" " "	730	1270	540	
	Lady Fairfax 6th	" " "	700	1210	510	
	Princess 7th	" " "	770	1235	465	501.

Table VII. -Continued.

COMPARISON OF THE GAINS FOR ONE YEAR.

Breed	Name	Age 1st shown.	Wt. as Jr. C.	Wt. as Jr.Yr.	Gain	Av. Gain for Breed.
<u>Short-Horns</u>	Missie 166th	Jr.H. C.	730	1255	525	
	Sweet Afton	" " "	630	1240	610	
	Snowbird	" " "	930	1370	440	
	Lady Graceful	" " "	770	1225	455	
	Beaufort Princess	" " "	825	1250	425	
	Lady Doretha 4th	" " "	640	1280	640	
	Ramsden Flower	" " "	580	1120	540	
	Roan Lady 5th	" " "	540	1145	605	530
<u>Galloways</u>	Meadow Lawn Rose	" " "	580	885	305	
	Princess May	" " "	560	810	250	
	Lily Maid	" " "	505	1055	510	
	Lady of Maples	" " "	765	1070	305	
	Defender's Pet	" " "	630	990	360	352

Table VII. - Continued.

COMPARISON OF THE GAINS FOR ONE YEAR.

Breed.	Name.	Age 1st shown.	Wt. as Sr. C.	Wt. as Sr. Yr.	Gain	Av. Gain for Breed
<u>Angus</u>	Queen of Viewpoint	Sr.H.C.	810	1110	300	
	Sunflower Mary	" " "	910	1110	200	
	Enna's Lass	" " "	800	1170	370	
	Maplehurst Queen 38th.	" " "	710	1165	455	
	Bluegrass Ridge Drusilla	" " "	830	1000	170	
	Bluegrass Ridge Quarta	" # "	680	1170	490	
	Brookside Quality Queen	" " "	970	1335	365	
	Varina of Oakland	" " "	760	1025	265	
	Eza Lass	" " "	740	1285	545	351.1
<u>Herefords.</u>	Garland	" " "	830	1310	480	
	Vivian	" " "	1010	1420	410	
	Mary Gertrude	" " "	880	1300	420	
	Margaret	" " "	900	1310	410	
	Princess 2nd	" " "	980	1420	440	
	Princess 3rd	" " "	930	1385	455	
	Miss Princeps 4th	" " "	880	1350	470	
	Miss Roseberry	" " "	840	1215	375	
	Distributor Lass	" " "	945	1345	400	428.8

Table VII. -Continued.

COMPARISON OF THE GAINS FOR ONE YEAR

Cows.

Seed.	Name.	Age 1st. Shown.	Wt. as Sr. Calf	Wt. as Sr. Yr.	Gain	Av. Gain for breed
<u>Short-Horns</u>	June Mount 3rd.	Sr. H. Calf.	900	1400	500	
	Crown Rose	7th " "	915	1110	195	
	Queenie	" "	895	1370	475	
	Princess Margaret 3rd.	" "	875	1370	497	
	Ellendorf Lassie	" "	1040	1405	365	
	Lady Dorothy 3rd.	" "	780	1330	550	
	Anoka Gloster 2nd	" "	960	1390	430	
	Monarch's Lady	" "	770	1285	515	440.6
<u>Galloways</u>	Annie David	6th " "	795	1155	360	
	Lady Belle	4th " "	775	1050	275	
	Darnetta of Rivers	" "	705	1015	310	
	Vinolia 3rd of Maples	" "	870	1165	295	
	Vada	" "	690	1015	325	
	Evita of Rivers	" "	675	940	265	
	Vinolia 4th of Maples.	" "	770	1160	390	319.

Table VII.--Continued.

COMPARISON OF THE GAINS FOR ONE YEAR.

Cows.

Breed.	Name.	Age 1st shown.	Wt. as Sr.Yr.	Wt. as 2-Yr-old.	Gain	Av.Gain for Breed
<u>Angus</u>	Mapleleaf Imo	Jr.Y. H.	1275	1510	235	
	Myrtle 2nd of Meadowbrook	" " "	1165	1320	155	
	Brookside Pride 4th	" " "	1130	1330	200	
	Alicia of Quiet- dale	" " "	935	1270	335	
	Queen Lass of Alta 3rd.	" " "	1290	1555	265	
	Her Majesty 2d	" " "	1185	1530	345	
	Queen Mother Johnson	" " "	1185	1545	360	
	Snowflake Queen	" " "	1140	1235	95	248.7
<u>Herefords</u>	Jemima	" " "	1275	1455	180	
	Sunshine	" " "	760	1530	570	
	Prairie Queen	" " "	1200	1600	400	
	Miss Fuller 7th	" " "	1250	1605	355	
	Brydella	" " "	1270	1460	190	
	Ladina	" " "	940	1305	365	343.3

TableVII. - Continued.

COMPARISON OF THE GAINS FOR ONE YEAR.

Cows.

Breed.	Name.	Age 1st Shown.	Wt. as Jr.Yr.	Wt. as 2-yr-old.	Gain.	Av. Gain for Breed
<u>Short-Horns</u>	Sweet Duchess of Gloster.	Jr.Yr.H.	1410	1610	200	
	Annogathle	" " "	1235	1630	395	
	Lady Dorothea 4th.	" " "	1280	1550	270	
	Julia C	" " "	1140	1435	290	
	Scottish Belle	" " "	1175	1415	240	
	Alice of Meadowlawn	" "	1320	1865	545	
	Missie of Brown- dale.12th.	" " "	1310	1620	310	321.1
<u>Galloways</u>	Hawkeye Lady	" " "	1030m	1350	320	
	Sadie of Meadow- Lawn.	" " "	1065	1265	200	
	Mischief of Rivers	" " "	865	1070	205	
	Lady Graceful	" " "	1000	1250	250	
	Lady Douglas 3d	" " "	1180	1155	75	210.

Table VII. -Continued.

COMPARISON OF THE GAINS FOR ONE YEAR.

Cows.

Breed.	Name.	Age 1st shown.	Wt. as Sr.Yr.	Wt. as 2-yr-old.	Gain.	Av. Gain for Breed
<u>Angus</u>	Alicia of Quiet- dale.	Sr.Yr.H.	1270	1445	175	
	Gay Lawn Bonnie Lass	" " "	1345	1380	35	
	Metz Ogrita	" " "	1225	1340	115	
	Queen of Cherokee 10th	" " "	1210	1380	170	
	Sunflower Corine 2nd	" " "	1130	1280	150	
	Blackbird Lassie of Alta	" " "	1200	1370	170	135.8
	Imoonette	" " "	1180	1385	205	
<u>Herefords</u>	Miss Filler 2d	" " "	1475	1775	300	
	Dina Fairfax	" " "	1290	1725	435	
	Margaret	" " "	1380	1695	315	
	Ethel 2d	" " "	1300	1600	300	
	Garland	" " "	1310	1475	165	286.6
	Anetta 9th	" " "	1205	1480	275	
<u>Short-Horns</u>	Monarch's Ruby	" " "	1285	1565	280	
	Poppyar 144	" " "	1305	1480	175	
	Popular Park Queen	" " "	1410	1665	255	
	Sinnissippi Rose	" " "	1355	1640	285	
	Merry Maid	" " "	1550	1825	275	240.8
	Cora of Meadow- Lawn.	" " "	1210	1460	250	
<u>Galloways</u>	Standard Pet	" " "	1065	1260	195	
	Druid's Lelia	" " "	1075	1280	105	
	Vinolis 3d of maples	" " "	1165	1300	135	
	Lady Belle 4th	" " "	1050	1100	60	149.

Table VII.-Concluded.

COMPARISON OF THE GAINS FOR ONE YEAR.

Breed.	Name.	Age 1st shown.	Cows.		Gain.	Av. Gain for Breed
			Wt. as 2-yr-old.	Wt. as 3-yr-old.		
<u>Aus</u>	Mina of Alta 5th	2-yr. & under 3.	1670	1775	105	
	Twill of Meadowbrook	" "	1465	1555	90	
	Winnie of Meadowbrook	" "	1440	1645	205	
	Elleen Lass	" "	1490	1655	165	
	Pride of Fashion	" "	1555	1710	155	
	Glenfoil Queen 2d.	" "	1520	1625	105	137.5
<u>Herefords</u>	Migonette	" "	1385	1470	95	
	Prairie Queen	" "	1600	1740	140	
	Pretty Face	" "	1660	1875	215	
	Princeps Lassie	" "	1400	1520	120	
	Princess	" "	1500	1730	230	158.
<u>Short-Horns</u>	Missie of Browndale 12th	" "	1620	1765	145	
	Dorothea 2nd	" "	1490	1955	485	
	Duchess of Lancaster 13th	" "	1660	1985	325	
	Anoka Broadhooks	" "	1410	1610	200	
	Thorny Bud	" "	1420	1545	125	252.
<u>Galloways</u>	Hawkeye Lady	" "	1350	1525	175	
	Cora of Meadowlawn	" "	1460	1560	100	
	Sadie of Meadowlawn	" "	1265	1575	310	
	Myrtle of Avondale	" "	1350	1365	15	150.

Table VIII.

SUMMARY OF TABLE VII SHOWING AVERAGE GAIN FOR EACH BREED

and the

AVERAGE FOR ALL BREEDS.

Breed.	No.	Age.	Av. Gain for Breed.	Av. Gain for all Breeds.
Angus,	9	Jr. H. Calf	461.7	
Herefords,	10	" " "	501.	
Short-Horns,	8	" " "	530.	
Galloways,	5	" " "	352.	461.1
Angus,	9	Sr. H. Calf	351.	
Herefords,	9	" " "	428.8	
Short-Horns,	8	" " "	440.6	
Galloways,	7	" " "	317.	384.3
Angus,	8	Jr. Yr. H.	248.7	
Herefords,	7	" " "	343.3	
Short-Horns,	7	" " "	321.1	
Galloways,	5	" " "	210.	280.7
Angus,	7	Sr. Yr. H.	135.8	
Herefords,	7	" " "	386.6	
Short-Horns,	6	" " "	240.8	
Galloways,	5	" " "	149.	203.
Angus,	7	Cow 2-yrs. & under 3.	137.5	
Herefords,	5	" " "	158.	
Short-Horns,	5	" " "	252.	
Galloways,	4	" " "	150.	174.3

This Table is very similar to Table VI and is taken from Table VII. Here we have the Short-Horns making the largest gains - 535 pounds - as a Heifer Calf, and the Herefords as a Yearling, and again the Short-Horns as a 2-year-old.

The constant increase in weight from a calf to a 3-year-old is again shown.

Table IX.

THE COMPARATIVE GAIN FOR TWO YEARS AND THE AVERAGE GAIN FOR BREED.

Bulls.

Breed and Name	Age 1st shown.	Wt. 1906	Wt. 1907.	Gain 06-07.	Av. Gain for Breed.	Wt. 1908.	Gain 07-08.	Av. Gain 07-08.	Total Gain 2 Yrs. for Breed	Av. Gain
<u>Angus</u>										
Glenfoil Thick-Jr. Yr.		1440	1990	550		2095	105		655	
set 2nd Glamore of Quietdale.	" "	1340	1810	470		1780	30		440	
Meroy 3d of Meadowbrook	Sr. B.C.	1135	1420	285		1920	500		785	
Golden Gleam	" " "	1170	1675	505	452.5	1935	260	208.7	765	661.2
<u>Shropshires</u>										
Bonniebrae 3d	Sr. Yr. B.	1840	2200	360		3225	1025		1385	
Prime Lad 9th	" "	1640	1980	340		2150	170		510	
Prime Lad 16th Jr.	" "	1640	1965	325		2300	335		660	
Dislagger	Jr. B.C.	845	1630	785	452.5	1945	315	461.2	1100	913.6
<u>Short-Horns'</u>										
Anoka Sultan	" " "	1000	1810	810	810.	2135	325	325.	1135	1135.
<u>Shalloways</u>										
Wild Douglas" 3-yr-old		1540	1750	210		1835	85		295	
Standard Favorite	Yr. B.C.	1315	1785	470	340.	2020	235	160.	705	500.

'Only data obtained.

"Three years old in 1906.

Table IX.-Continued.

THE COMPARATIVE GAIN FOR TWO YEARS AND THE AVERAGE GAIN FOR BREED.

Cows.

Breed and name.	Age 1st shown.	Wt. 1906.	Wt. 1907	Gain.	Av. Gain for Breed.	Wt. 1908	Gain 07-08.	Av. Gain 07-08.	Total gain 2-Yrs.	Av. Gain for Breed
<u>Angus</u>										
Queen of Cherokee 10th	Sr. Yr. H.	1315	1455	140		1365	90		50	
Alicia of Quietdale 9th	Sr. H. C.	935	1270	335		1445	175		510	
Queen Lass of Alta 3d	Jr. H. C.	730	1290	560		1550	260		820	
Her Majesty 2d.	" " "	685	1185	500		1530	345		845	
Snowflake Queen	" " "	680	900	220	351	1235	335	205	555	556
<u>Herefords</u>										
Mignonette	Sr. Yr. H.	1180	1385	205		1470	85		290	
Prairie Queen.	Jr. Yr. H.	1200	1600	400		1740	140		540	
Miss Filler 2d.	Sr. H. C.	1055	1475	420		1775	300		720	
Margaret	Sr. H. C.	960	1380	420	361	1695	315	210	735	571.

Table IX.-Concluded.

THE COMPARATIVE GAINS FOR TWO YEARS AND THE AVERAGE GAIN FOR BREED.

Cows.

Breed and name.	Age 1st shown.	Wt. 1906	Wt. 1907	Gain 06-07	Av. Gain for Breed.	Wt. 1908	Gain 07-08	Total gain 2-yrs.	Av. Gain for Breed	Av Gain 07-08.
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Short-Horns

Missie of B Browndale	Jr.Yr.H.	1310	1620	310		1765	145	455		
Anoka Gloster 2d	Sr.H. C.	960	1390	430		1660	270	700		
Monarch's Ruby	" " "	770	1285	515		1565	280	795		
Lady Dorothea 4th	Jr.H.C.	740	1280	540	447.7	1550	270	910	690	241.2

Galloways

Lora of Meadowlawn	Sr.Yr.H.	2210	1460	250		1560	100	350		
Ladie of Meadowlawn	Jr.Yr.H.	1065	1265	200		1575	310	510		
Linolia 3d of Maples	Sr.H. C.	870	1165	295		1300	135	430		
Lady Grace- ful.	Jr.H. C.	555	1000	445	297.5	1250	250	695	496.2	198.7

C O N C L U S I O N S .

1. The Short-Horns are the heaviest, Herefords second, Angus third, and the Galloways fourth.
2. By Table III it is shown that the Angus make the largest gains as a Bull Calf; thus the earliest in maturity, while in Table IV the Herefords are the first to mature as a Heifer calf.
3. The Galloways are the latest to mature.
4. From Table VI, which is from a limited number of individuals, the Short-Horns show the largest gain as a calf and the Herefords the latest to mature.
5. The largest gains are made as a calf and gradually decrease as age increases.