

TEXAS AGRICULTURAL EXPERIMENT
STATION

R. D. LEWIS, Director

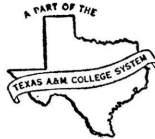
SUBSTATION NO. 14

SONORA, TEXAS

W. T. HARDY, Superintendent

RANCH DAY

MAY 12, 1951



MISCELLANEOUS PUBLICATION 75

Improvement of Sheep Through the Selection
of Performance-Tested and Progeny-
Tested Breeding Animals, 1950-51

TEXAS AGRICULTURAL EXPERIMENT STATION

SUBSTATION No. 14

and

COOPERATING SHEEP BREEDERS

SONORA, TEXAS

RANCH DAY, MAY 12, 1951

Improvement of Sheep Through the Selection of Performance-Tested and Progeny-Tested Breeding Animals, 1950-51.

This report presents results of the third year's work of Sheep Improvement Through the Selection of Performance-Tested and Progeny-Tested Breeding Animals.

The first test (1948-49) included 75 rams entered by 12 breeders of registered Rambouillet sheep. In the second test (1949-50), 132 rams were entered by 18 breeders. Rambouillet, Delaine-Merino, Corriedale and Debouillet breeds were represented. This, the third test (1950-51), included Rambouillet, Delaine-Merino, Corriedale, Columbia and some crossbreds.

All ram lambs were delivered to the Station on or about September 1, 1950. They were shorn, paint branded, dipped and drenched on September 4 and 5. They were weighed on to the feeding trial September 6 and started on a growing ration consisting of equal parts by weight of threshed oats and alfalfa hay. The quantity of feed was increased gradually until the rams were getting all they would clean up. Refused feed was weighed back and credited to the rams refusing it.

Twenty-nine sire groups of 4 rams each were fed in small progeny pens, beginning October 16, when the pens were completed. Prior to that date they were group fed in two large pens. Feed consumption records by sire groups are reported from October 16.

Twenty-six rams were continued on feed in the large pen, receiving a ration of equal parts by weight of oats and alfalfa hay. Another group of 16 rams, which were progeny of the same sires represented in the small pens, were wintered on pasture with the same allowance of oats but without the hay. This pasture group provides a basis for comparison of performance on a liberal feed-lot ration with a more practical wintering ration on the range.

The feeding test period closed April 18, when the final weight was taken, making a total of 224 days on feed. The rams were shorn April 19, giving a 226-day growing period. Various body characteristics were evaluated before and after shearing.

(Continued on Last Page)

Ram test no.	Ear tag no.	Age mo.	Initial wt. 9/6/50	Final wt. 4/18/51	Total gain	Feed per *100 lbs. grain	Fleece record Grease wt.	Clean 365 days Staple length	Spinning count	Body conf.	Belly wool	Skin Fold	Face covering
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RAMBOUILLETS — INDIVIDUAL PEN FED

Sire 8056; Owner—S. S. Bundy, Roosevelt

								(inches)						
1	163	13	75	171	96		18.0	8.6	3.76	64s	2.8	2.5	28	2.5
2	166	13	76	189	113		18.1	8.4	3.63	62s	2.2	2.5	24	2.5
3	165	13	83	183	100		16.7	7.1	3.49	62s	3.0	3.2	47	3.0
4	164	13	66	172	106		17.5	7.9	4.04	70s	3.0	3.2	47	1.0
Aver.			75	178.8	103.8	816	17.5	8.1	3.73		2.8	2.8		2.2

Sire S. H. 6; Owner—E. G. Branch, Rankin

5	551	13	61	157	96		14.9	8.1	3.71	70s	3.5	3.0	61	3.2
6	555	13	85	181	96		17.0	7.9	3.18	64s	2.8	3.0	61	3.5
7	556	13	66	172	106		16.8	8.4	3.99	64s	3.0	3.2	22	3.7
8	573	13	64	181	117		17.2	9.2	3.99	62s	2.8	2.0	67	3.5
Aver.			69	172.8	103.8	792	16.5	8.4	3.72		3.0	2.8		3.5

Sire V.I.P.T. 4460; Owner—F.M. Bierschwale, Segovia

9	4382	15	80	175	95		15.1	6.6	3.02	64s	2.5	3.2	19	3.2
10	4386	15	72	181	109		15.9	6.6	3.02	64s	2.5	3.5	30	2.5
11	4389	15	82	192	110		18.5	7.1	3.02	62s	2.0	3.5	28	2.5
12	4397	15	72	183	111		15.9	6.3	2.83	64s	2.2	3.7	32	2.0
Aver.			76.5	182.8	106.3	870	16.4	6.6	2.97		2.3	3.5		2.6

Sire F. M. B. 3551; Owner—F. M. Bierschwale, Segovia

13	4712	12	83	206	123		17.5	7.6	3.57	70s	2.5	3.2	22	1.0
15	4728	12	82	202	120		16.4	6.6	3.56	70s	1.8	3.5	17	1.7
16	4739	12	83'	190	107		15.4	6.8	3.36	64s	2.8	3.5	23	2.5
Aver.			82.7	199.3	116.7	824	16.4	7.0	3.50		2.4	3.4		1.7

Sire Leo 661; Owner—Leo Richardson, Iraan

17	2770	17	98	180	82		18.8	7.5	3.36	64s	2.8	2.2	19	3.2
18	2812	17	110	202	92		18.3	9.1	4.04	70s	1.8	3.5	11	2.0
19	2831	17	114	199	87	8.5	21.1	19.7	3.58	64s	2.5	3.5	46	3.5
21	2852	13	67	183	116		15.2	6.2	3.23	70s	2.8	3.7	22	3.0

19	2831	17	114	199	116	15.2	6.2	3.23	70s	2.8	3.7	22	3.0
21	2852	13	67	183	134	17.3	9.1	4.04	70s	1.8	3.2	16	2.2
22	2853	13	96	230	100	15.2	7.1	2.62	70s	2.2	4.0	16	1.0
23	2917	13	83	183	116.7	15.9	7.5	3.30		2.2	3.6		2.1
Aver.			82.0	198.7	116.7	804	15.9	7.5	3.30	2.2	3.6		2.1
Sire BFB-134; Owner—B. F. Bridges, Brante													
25	311	13	68	188	120	15.4	6.5	3.43	70s	2.0	3.0	17	3.7
26	321	13	58	162	104	13.4	6.2	2.83	64s	1.5	2.7	24	3.0
27	327	13	71	179	108	18.0	7.5	3.43	70s	2.2	2.7	28	3.0
28	339	13	91	218	127	16.7	7.0	3.50	64s	1.8	3.2	33	3.0
Aver.			72.0	186.8	114.8	797	15.9	6.8	3.30	1.9	2.9		3.2
Sire R.R.-389; Owner—John Williams, Eldorado													
29	4404	15	99	199	100	22.0	7.8	2.96	64s	2.8	3.0	68	3.5
30	4430	14	98	198	100	19.3	8.7	3.02	80s	2.0	2.0	42	3.0
31	4426	15	111	231	120	20.6	9.6	3.50	80s	2.0	2.2	55	3.0
32	4435	15	113	220	107	24.5	11.5	3.84	64s	2.9	2.2	55	1.2
Aver.			105.3	212	106.8	933	21.5	9.4	3.33	2.4	2.4		2.7
Sire J.W.-3982; Owner—Pat Rose Jr., Del Rio													
33	1277	17	111	209	98	21.4	9.6	4.10	64s	2.0	1.7	55	3.0
34	1287	17	108	214	106	19.9	8.9	3.23	64s	2.2	2.2	30	2.0
35	1291	14	100	227	127	22.8	10.4	3.57	64s	2.0	2.0	67	1.2
36	1295	15	107	218	110 111	20.9	9.9	3.70	70s	1.8	2.0	53	2.0
Aver.			106.5	217	112.5 110.5	888	21.2	9.7	3.65	2.0	2.0		2.1
Sir J.K.M.-2273; Owner—Pat Rose Jr., Del Rio													
37	1341	13	83	215	132	20.9	8.9	3.90	64s	1.5	2.2	47	1.2
38	1349	12	85	206	121	19.1	9.1	4.04	70s	2.2	2.7	31	2.0
39	1351	11	57	169	112	19.6	9.6	4.24	64s	2.5	2.2	60	3.0
40	1353	11	77	203	126	19.9	9.7	3.57	62s	2.2	2.2	37	1.7
Aver.			75.5	198.3	122.8	733	19.9	9.4	3.94	2.1	2.3		2.0
Sire 4359; Owner—Wallace Hendricks, San Angelo													
45	4460	16	106	215	109	13.9	6.8	2.83	64s	1.8	3.5	28	3.0
46	4474	16	85	170	105 85	19.0	8.1	2.96	64s	2.8	2.5	29	3.0
47	4501	15	95	199	104	19.4	8.1	2.83	70s	1.8	3.0	53	3.5
48	MSH-105	16	100	208	108	19.3	9.4	3.30	70s	1.5	2.5	25	2.5
Aver.			96.5	198	106.5 101.5	984	17.8	8.1	2.98	2.0	2.9		3.0

Ram test no.	Ear tag no.	Age mo.	Initial wt. 9/6/50	Final wt. 4/18/51	Total gain	Feed per *100 lbs. gain	Fleece record Grease wt.	365 days Clean wt.	Staple length	Spin- ning count	Body conf.	Belly wool	Skin Fold	Face cov- ering
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RAMBOUILLETS — INDIVIDUAL PEN FED

Sire L.L.R.-24; Owner—R. Q. Landers, Menard

49	R-330	18	76	186	110	19.0	7.6	2.83	64s	2.2	2.5	68	2.0
50	R-346	18	91	203	112	18.1	6.5	2.89	64s	2.0	3.0	30	2.5
51	R-347	18	97	191	92 94	16.7	6.3	3.02	64s	2.0	3.0	36	2.2
52	R-354	17	98	199	101	22.5	10.7	3.70	70s	2.5	2.0	57	3.0
Aver.			90.5	194.8	103.8 104.2	986	19.1	7.8	3.11	2.2	2.6		2.4

Sire R-230; Owner—R. Q. Landers, Menard

53	R-359	17	95	194	99	16.4	8.3	3.36	64s	2.8	2.2	52	3.0
54	R-362	17	92	201	109	15.7	6.5	3.63	64s	2.0	3.0	17	1.0
55	R-368	16	91	190	99	15.7	6.8	3.10	70s	2.0	3.7	23	1.2
56	J-27	16	75	178	103	15.9	8.1	4.04	64s	2.2	3.0	21	2.5
Aver.			88.3	190.8	102.5	941	15.9	7.5	3.53	2.2	3.0		1.9

Sire E. O. 221; Owner—Noelke and Owens, Sheffield

57	713	14	92	181	89	14.1	6.3	3.17	70s	2.8	2.7	22	2.0
58	720	14	87	199	112	13.9	7.1	3.29	70s	2.8	2.7	17	3.0
59	730	14	90	208	118	18.8	8.6	3.23	64s	2.0	2.7	32	3.5
60	738	14	101	204	103	19.0	9.6	3.29	64s	2.8	2.5	40	2.7
Aver.			92.5	198	105.5	837	16.5	7.9	3.24	2.6	2.6		2.8

Sire VIP-T 4232; Owner—V. I. Pierce, Ozona

61	6811	13	109	237	128	18.0	8.7	3.23	64s	2.5	3.0	50	2.2
62	6832	13	75	173	98	18.0	9.6	3.84	64s	3.0	2.2	32	3.5
63	6902	13	88	198	110	18.3	9.2	3.29	64s	2.2	2.2	37	3.0
64	6917	13	94	193	99	20.4	9.1	3.36	64s	2.2	2.2	39	3.7
Aver.			91.5	200.3	108.8	888	18.6	9.1	3.43	2.5	2.4		3.1

Sire US 1479; Owner—Substation 14, Sonora

65	4237	14	85	212	127	22.2	10.4	3.36	62s	2.8	1.7	81	3.0
67	4243	14	81	196	115	20.4	7.6	2.83	64s	3.0	2.5	112	3.0
69	4256	14	87	182	95	19.1	8.3	3.43	70s	2.8	2.3	99	3.0

Sire 3928; Owner—Substation 14, Sonora

67	4245	14	67	162	115	20.4	7.6	2.83	64s	3.0	2.5	112	3.0
69	4256	14	67	162	95	19.1	8.3	3.43	70s	2.8	2.2	99	3.2
Sire 3928; Owner—Substation 14, Sonora													
80	4273	14	96	241	145	21.9	10.4	3.84	64s	2.2	2.5	63	3.0
82	4275	14	75	183	108	19.0	8.1	3.37	70s	3.0	1.7	46	3.2
84	4300	14	77	205	128	18.0	8.9	3.44	70s	2.0	2.2	45	1.7
85	4332	14	67	184	117	17.7	8.6	3.58	70s	3.0	2.2	80	1.5
Aver.			78.8	203.3	124.5	778	19.1	9.1	3.56		2.5	2.2	2.4
Sire US 1756; Owner—Substation 14, Sonora													
94	4297	14	69	189	120	17.8	7.8	3.30	62s	2.5	2.5	56	3.0
96	4338	14	66	170	104	17.2	8.1	3.44	62s	2.2	2.2	41	3.0
97	4365	13	68'	188	120	17.3	7.8	3.58	62s	2.2	2.7	44	3.0
98	4369	13	72	203	121 131 ^c	20.9	7.6	3.18	62s	2.5	2.7	52	3.0
Aver.			68.8	187.5	116.3 118.8	758	18.3	7.8	3.38		2.3	2.5	3.0
Sire 3986; Owner—Substation 14, Sonora													
99	4240	14	70	168	98	15.2	6.2	3.03	62s	2.7	2.7	36	3.5
100	4261	14	80	202	122	18.0	7.5	3.11	64s	2.5	2.5	47	2.2
101	4264	14	72	171	99	14.1	5.8	2.90	64s	2.8	3.0	63	3.0
102	4322	14	76	193	117	21.7	7.8	3.30	70s	2.5	2.5	112	3.5
Aver.			74.5	183.5	109.0	758	17.2	6.8	3.08		2.6	2.7	3.1
Sire R241; Owner—Substation 14, Sonora													
103	4241	14	79	186	107	18.1	7.9	2.56	64s	2.0	1.7	80	4.0
104	4247	14	69	191	122	22.0	9.6	3.10	64s	2.8	2.2	85	4.0
105	4270	14	93	226	133	21.9	7.9	2.56	62s	2.8	2.7	77	2.2
106	4330	14	87	201	114	17.3	7.6	2.69	62s	2.2	2.2	74	2.0
Aver.			82	201	119.0	841	19.8	8.3	2.73		2.5	2.2	3.1
Sire W.L.D. 242; Owner—W. L. Davis, Sonora													
200	564	12	79	204	125	19.4	7.6	3.43	64s	1.8	2.7	36	2.2
201	589	12	82	209	127	19.8	7.8	2.76	70s	2.0	2.5	53	2.7
202	660	11	72	186	114	15.9	6.3	2.68	70s	3.0	3.0	64	3.2
203	599	12	82	210	128	18.8	7.5	3.17	62s	2.2	2.0	64	2.2
Aver.			78.8	202.3	123.5	770	18.5	7.3	3.01		2.2	2.6	2.6
Aver. all Rambouillets, in individual pens					110.8			8.1	3.34				

Ram test no.	Ear tag no.	Age mo.	Initial wt. 9/6/50	Final wt. 4/18/51	Total gain	Feed per *100 lbs. gain	Fleece record Grease wt.	Clean wt.	365 days Staple length	Spin- ning count	Body conf.	Belly wool	Skin Fold	Face cover- ing
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RAMBOUILLETS — GROUP FED LARGE PEN

Sire J.K.M.-2273-N; Owner—Pat Rose Jr., Del Rio

(inches)

41	1289	14	97	180	83	14.1	7.0	3.24	80s	2.5	2.5	34	4.0
42	1329	13	65	155	90	14.1	7.3	3.37	80s	2.2	2.2	31	3.5
43	1331	13	92	203	111	16.4	7.9	3.30	80s	2.0	2.5	29	3.7
44	1345	12	81	189	108	14.1	6.6	3.17	80s	2.5	2.7	44	3.5
Aver.			83.8	181.8	98.0	14.6	7.1	3.27		2.3	2.5		3.7

Sire 1479; Owner—Substation No. 14, Sonora

66	4242	14	86	217	131	17.5	7.9	3.36	70s	2.0	2.5	49	2.0
73	4296	14	83	200	117	19.9	9.7	3.63	70s	2.5	1.5	66	3.0
75	4344	13	63	185	122	18.6	8.3	3.50	64s	2.2	2.7	40	3.0
76	4347	13	82	196	114	15.7	7.6	3.23	64s	2.0	2.7	47	3.5
Aver.			78.5	199.5	121.0	18.0	8.4	3.43		2.2	2.4		2.6

Sire 3928; Owner Substation No. 14, Sonora

78	4249	14	78	197	119	19.0	9.2	3.29	62s	2.2	2.5	64	3.7
79	4252	14	91	231	140	18.8	7.8	3.36	64s	2.2	2.5	56	3.0
86	4333	14	74	215	141	19.4	9.2	3.23	62s	2.0	2.5	68	2.0
89	4401	13	62	183	121	15.2	7.6	3.36	70s	2.3	3.2	31	3.0
Aver.			76.3	206.5	130.3	18.1	8.4	3.31		2.2	2.7		2.9

Aver. all Rambouillets, group fed in large pen 116.4

AVERAGE OF 8 PROGENY (4 in small pen plus 4 in large pen)

Sire J.K.M. 2273; Owner—Pat Rose, Del Rio

			79.6	190.0	110.4		17.2	8.3	3.60		2.2	2.4		2.8
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Sire 1479; Owner—Substation No. 14, Sonora

			80.4	199.5	119.2		19.0	8.3	3.26		2.4	2.4		2.8
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Sire 3928; Owner—Substation No. 14, Sonora

			77.6	204.9	127.4		18.6	8.7	3.44		2.4	2.4		2.6
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21	413	13	70	174	104		19.4	10.0	4.24	50s	2.0	2.5	14	2.0
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			77.6	204.9	127.4	18.6	8.7	3.44		2.4	2.4	2.6	
21	413	13	70	174	104	19.4	10.0	4.24	50s	2.0	2.5	14	2.0
22	418	13	84	203	119	20.4	11.0	4.30	50s	1.2	1.5	28	1.0
23	420	13	74	191	117	17.2	8.9	4.57	50s	1.2	2.5	12	1.0
24	430	13	76	168	92	16.0	8.1	3.97	50s	2.0	2.0	32	1.5
Aver.			76.0	184.0	108.0	784	18.3	9.6	4.27	1.6	2.1		1.4

Sire 1062; Owner—Noelke & Owens, Sheffield

25	1417	15	57	130	73	16.4	8.9	4.71	56s	2.2	1.7	15	1.7
26	1367	15	93	221	128	19.8	12.0	4.97	50s	2.2	2.7	8	1.0
27	1405	13	61	191	130	13.6	7.3	4.57	58s	2.0	2.7	15	1.0
28	1422	13	67	178	111	14.7	8.1	4.91	58s	2.2	3.0	4	1.0
Aver.			69.5	180.0	110.5	768	16.4	9.1	4.79	2.2	2.5		1.2

Sire 1005; Owner—Noelke & Owens, Sheffield

29	1381	15	68	177	109	18.1	9.4	5.05	60s	2.2	2.2	25	2.0
30	1360	15	66	170	104	18.1	11.3	4.78	58s	2.0	1.5	19	1.0
31	1361	15	70	165	95	18.5	11.7	5.38	50s	2.2	2.5	13	1.0
32	1376	14	66	175	109	22.8	11.0	4.44	50s	2.2	2.2	45	1.2
Aver.			67.5	171.8	104.3	795	19.4	10.9	4.91	2.2	2.1		1.3
Aver. all Corriedales					107.6			9.8	4.65				

COLUMBIAS — INDIVIDUAL PEN FED

Sire C-649; Owner—L. A. Norden, San Antonio

9	518	13	78	186	108	16.7	9.2	4.84	50s	1.5	3.2	9	1.0
10	549	13	70	177	107	15.6	8.9	4.51	50s	1.8	4.0	13	1.0
11	591	13	93	220	127	15.9	8.7	5.25	56s	1.2	4.0	4	1.0
12	623	13	72	172	100	11.8	6.0	4.17	56s	1.8	4.0	7	1.0
Aver.			78.3	188.8	110.5	819	14.9	8.3	4.69	1.6	3.8		1.0

Sire C-701; Owner—L. A. Norden, San Antonio

13	416	14	78	174	96	16.2	8.6	4.97	58s	3.0	3.7	9	1.0
14	427	14	75	188	113	17.5	9.2	5.38	58s	2.2	4.0	6	1.0
15	490	13	91	208	117	21.1	11.8	5.12	50s	2.0	3.0	8	1.0
16	498	13	91	228	137	23.5	12.6	4.97	56s	2.0	3.7	15	1.0
Aver.			83.8	199.5	115.8	906	19.6	10.5	5.11	2.3	3.6		1.0
Aver. Columbias, individual pen fed					113.2			9.4	4.90				

Ram test no.	Ear tag no.	Age mo.	Initial wt. 9/6/50	Final wt. 4/18/51	Total gain	Feed per *100 lbs. grain	Fleece record 365 days Clean wt.	Staple length	Spinning count	Body conf.	Belly wool	Skin Fold	Face covering
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COLUMBIAS — LARGE PEN FED

Sire C-640; Owner—L. A. Norden, San Antonio, Texas

(inches)

17	459	14	81	213	132	17.5	10.0	4.73	56s	1.5	3.0	13	1.0
18	486	13	82	204	122	15.6	9.7	4.18	50s	1.5	3.0	15	1.0
19	546	13	72	181	109	17.3	9.7	3.91	50s	1.8	3.0	18	1.0
20	633	13	64	186	122	15.9	9.4	3.77	56s	1.5	3.2	19	1.0
Aver.			74.8	176.0	121.3	16.5	9.7	4.15		1.6	3.1		1.0
Aver. all Columbias				196.0	115.9		9.5	4.65					

DELAINES — INDIVIDUAL PEN FED

Sire 3120; Owner—H. C. & G. H. Johansen, Brady

1	3491	13	58	163	105	18.3	5.7	3.04	70s	2.8	2.5	39	1.0
2	3494	13	63	180	117	19.1	6.8	3.30	80s	2.5	3.0	37	3.0
3	3497	13	67	157	90	18.8	7.3	3.58	80s	2.8	2.0	33	2.2
4	3498	13	64	146	82	18.5	5.5	2.83	64s	2.8	2.5	26	1.7
Aver.			63.0	161.5	98.5	873	18.6	6.3	3.19	2.7	2.5		2.0

Sire 8-B1; Owner—Van Brown, Harper, Texas

5	50B-31	15	67	144	77	19.3	10.9	2.62 4.51	60s	3.0	1.0	47	1.0
6	50B-34	15	74	166	92	17.2	8.6	3.83	62s	2.8	2.0	58	1.0
7	50B-35	15	67	156	89	19.9	10.0	3.97	58s	2.8	1.5	75	2.0
8	50B-36	15	67	176	109	22.7	11.7	4.04	60s	3.8	1.0	72	1.2
Aver.			68.8	160.5	91.8	873	19.8	10.4	3.62 4.09	3.1	1.4		1.3
Aver. all Delaines					95.2		8.4	3.40 3.64					

CROSS-BREDS — LARGE PEN FED (15/16 RAMBOUILLET: 1/16 ROMNEY) (BACK CROSS)

Sire 1717; Owner—Bluebonnet Farms, McGregor

33	637	59	147	88	13.8	6.5	3.33	70s	3.2	2.7	30	3.0
36	811	75	174	99	13.1	6.2	3.29	70s	2.2	3.0	21	2.0

Sire 1717; Owner—Bluebonnet Farms, McGregor						12.8	6.5	3.23	70s	3.2	2.7	30	3.0
33	637	59	147	88									
36	811	75	174	99		13.1	6.2	3.29	70s	2.2	3.0	21	2.0
37	832	61	164	103		13.3	5.5	3.09	80s	2.2	3.7	37	1.0
38	839	70	163	93		14.9	6.3	3.09	80s	2.5	3.0	24	2.2
39	856	66	158	92		14.6	6.3	3.23	80s	2.5	2.5	26	1.0
40	873	60	132	72		11.0	4.9	3.23	80s	2.5	3.5	31	3.0
Aver.		64.4	156.5	89.9 92.1		13.4	6.2	3.23		2.6	3.0		2.1

Sire 1062; Owner—Noelke & Owens, Sheffield						12.6	7.5	3.90	50s	1.5	2.2	16	1.0
43	1397	14	72	176	104								

Sire 1005; Owner—Noelke & Owens, Sheffield						13.9	7.0	3.76	58s	1.2	2.7	9	1.0
44	1371	14	81	201	120								

RAMBOUILLETS — PASTURE FED

Sire 1479; Owner—Substation No. 14, Sonora						14.9	7.1	3.91	70s	3.5	2.5	32	3.0
68	4245	14	89	174	85								
70	4266	14	66	159	93				64s	3.0	2.7	48	1.7
72	4295	14	88	179	91				64s	3.5	2.0	94	2.7
74	4334	14	77	159	82				62s	2.2	2.0	26	3.2
77	4396	13	64	140	76				64s	3.2	2.0	30	3.5
Aver.			76.8	162.2	85.4		15.2	7.3	3.51		3.1	2.2	2.8

Sire 3928; Owner—Substation No. 14, Sonora						14.1	6.3	3.43	70s	2.8	2.7	24	2.0
81	4274	14	68	148	80								
83	4291	14	84	185	101				64s	2.8	2.5	46	3.0
88	4398	13	70	148	78				70s	2.8	3.5	24	2.2
90	4403	13	65	140	75				80s	2.8	2.5	22	1.0
91	4405	13	78	175	97				80s	3.0	3.5	43	2.0
Aver.			73.0	159.2	86.2		13.9	6.3	3.12		1.7 2.8	2.9	2.0

Sire 3939; Owner—Substation No. 14, Sonora						14.1	6.0	2.76	70s	3.2	2.7	63	3.5
92	4412	12	74	142	68								
93	4414	12	69	155	86				70s	2.8	3.5	15	3.0
Aver.			71.5	148.5	77.0		12.5	5.8	3.06		3.0	3.1	3.2

Ram test no.	Ear tag no.	Age mo.	Initial wt. 9/6/50	Final wt. 4/18/51	Total gain	Feed per *100 lbs. gain	Fleece Grease wt.	record Clean wt.	365 days Staple length	Spin- ning count	Body conf.	Belly wool	Skin Fold	Face cov- ering
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RAMBOUILLETS — PASTURE FED

Sire U.S. 1756; Owner—Substation No. 14, Sonora										(inches)				
95	4337	14	57	133	76		12.5	5.7	2.83	70s	3.2	2.2	26	4.0
Sire R-241; Owner—Substation No. 14, Sonora														
107	4373	13	72	158	86		17.7	7.0	2.69	64s	3.2	1.7	99	3.0
108	4390	13	88	189	101		16.4	6.6	2.69	64s	2.5	2.5	42	3.0
Aver.			80	173.5	93.5		17.0	6.8	2.69		2.8	2.1		3.0
Aver. pasture-fed Rambouillets					85.0			6.6	3.17					

CROSSBREEDS — PASTURE FED

Sire 18; Owner—Substation No. 14, Sonora														
42	4402		74	160	86		15.7	6.8	2.95	64s	2.8	2.5	52	2.7

LARGE PEN—26 Head

Aver.			86.1	183.2	97.1		805							
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PASTURE FED—16 Head

Aver.			88.6	159.0	70.4		567							
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*Based on feeding period 10/16/50 to 4/18/51

The individual fleeces were scoured and spinning counts estimated at the wool scouring laboratory at Bluebonnet Farm, McGregor, Texas. Grease wool, clean wool and staple length figures were converted from the 226 day test period to a 365-day basis.

Body conformation, belly wool and face covering records were obtained by averaging the individual appraisal values given by a committee of four sheepmen as follows:

Body Conformation: Excellent (1), Good (2), Medium (3), Poor (4).

Belly Wool: Dense Covering (1), Medium Covering (2), Poorly Covered (3), Bare (4).

Face Covering: Open (1), Medium (2), Covered (3), Wool Blind (4).

Skin fold values represent a total score for each animal based on the number, size and location of skin folds. The higher the score the greater the amount of skin folds. One person made all determinations.

S U M M A R Y

Considerable variation exists within sire groups and between sire groups in rate of gain, clean wool yield and staple length. Much of this variation is hereditary.

The use of rams whose record of performance is above average should raise the level of production in the flocks where used.

Progeny of certain rams have been consistent in their performance during the three years tests. Likewise progeny of one high testing ram (Station ram 3928 in 1948-49 test) have also performed creditably.

This test affords a means of identifying individuals and families of superior ability which in turn make it possible to do a more constructive job of breeding.

There is evidence that animals which perform well on test will also be good doers on the range.

Gaining ability, clean fleece weight and staple length are the measures of greatest economic value and should be given first consideration when selecting breeding animals.