

**TEXAS AGRICULTURAL EXPERIMENT
STATION**

R. D. LEWIS, Director

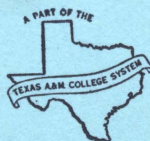
SUBSTATION NO. 14

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**

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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. Fed 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.	365 days Clean wt.	Staple Staple length	Spin- ning count	Body conf.	Belly wool	Skin Fold	Face cov- ering
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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	21.1	10.7	3.56	64s	2.5	2.5	46	3.5
20	2832	17	89	186	87	18.0	8.9	3.20	64s	2.5	3.7	37	3.0
21	2852	13	67	183	116	15.2	6.2	3.23	70s	2.8	3.7	22	3.0

Aver.	2838	13	102.8	191.5	88.8	1022	18.0	19.1	9.1	3.56	70s	2.4	2.7	16	2.9
23	2917	13	83	183	100		17.2	15.2	7.1	2.62	70s	2.2	4.0	16	1.0
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	106.5	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. grain	Fleece record Grease wt.	Clean wt.	365 days Staple length	Spinning count	Body conf.	Belly wool	Skin Fold	Face covering
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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	67	162	95		19.1	8.3	3.43	70s	2.8	2.2	90	3.0
71	4290	14	90	222	122		18.1	8.3	3.43	62s	2.8	2.2	90	3.0

Aver.	80	82	84	85	Aver.	100	117.8	83.4	19.9	8.1	3.08	2.7	2.4	2.9		
	4273	4275	4300	4332		90	241	145	21.9	10.4	3.84	64s	2.2	2.5	63	3.0
						75	183	108	19.0	8.1	3.37	70s	3.0	1.7	46	3.2
						77	205	128	18.0	8.9	3.44	70s	2.0	2.2	45	1.7
						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.	365 days Clean Staple wt. length	Spin- ning count	Body conf.	Belly wool	Skin Fold	Face cov- ering
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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		2.9
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		8.0	3.33					

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
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
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

22	418	13	89	208	110	17.1	11.0	4.30	50s	1.2	1.5	28	2.0
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 Grease wt.	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		12.8	6.5	3.23	70s	3.2	2.7	30	3.0
34	703		66	163	79		13.9	7.1	3.33	70s	3.3	2.3	34	3.0
36	811		75	174	99		13.1	6.2	3.29	70s	2.2	3.0	21	2.0

33	651	66	163	79	13.9	7.1	3.23	70s	3.2	3.2	24	2.5
34	703	68	161	82	14.1	6.3	3.50	64s	2.5	2.7	25	2.2
35	734	69	154	83	13.4	6.3	3.23	70s	3.2	3.2	24	2.5
37	832	70	163	93	14.9	6.3	3.09	80s	2.5	3.0	37	1.0
38	839	66	158	92	14.6	6.3	3.23	80s	2.5	2.5	24	2.2
39	856	60	132	72	11.0	4.9	3.23	80s	2.5	3.5	26	1.0
40	873	64.4	156.5	89.9	13.4	6.2	3.23	80s	2.6	3.0	31	3.0
Aver.				92.1								2.1

Sire 1062; Owner—Noelke & Owens, Sheffield

43	1397	14	72	176	104	12.6	7.5	3.90	50s	1.5	2.2	16	1.0
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Sire 1005; Owner—Noelke & Owens, Sheffield

44	1371	14	81	201	120	13.9	7.0	3.76	58s	1.2	2.7	9	1.0
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RAMBOUILLETS — PASTURE FED

Sire 1479; Owner—Substation No. 14, Sonora

68	4245	14	89	174	85	14.9	7.1	3.91	70s	3.5	2.5	32	3.0
70	4266	14	66	159	93	13.3	6.8	3.17	64s	3.0	2.7	48	1.7
72	4295	14	88	179	91	22.5	9.2	3.43	64s	3.5	2.0	94	2.7
74	4334	14	77	159	82	12.2	7.1	3.76	62s	2.2	2.0	26	3.2
77	4396	13	64	140	76	13.3	6.3	3.29	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

81	4274	14	68	148	80	14.1	6.3	3.43	70s	2.8	2.7	24	2.0
83	4291	14	84	185	101	17.2	7.8	2.89	64s	2.8	2.5	46	3.0
88	4398	13	70	148	78	14.6	6.8	3.17	70s	2.8	3.5	24	2.2
90	4403	13	65	140	75	10.5	4.9	3.36	80s	2.8	2.5	22	1.0
91	4405	13	78	175	97	13.4	5.8	2.76	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

92	4412	12	74	142	68	14.1	6.0	2.76	70s	3.2	2.7	63	3.5
93	4414	12	69	155	86	10.9	5.8	3.36	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.	Final wt.	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 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

(Continued from First Page)

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.

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