# MARKETING ASPECTS OF RANGE SHEEP PRODUCTION LIBRARY TEXAS COLLEGE STATION, TEXAS

in **TEXAS** 







# Summary

This study of sheep and lamb marketing practices was conducted to determine the production practices followed, and practices, costs and transportation of stock involved in the marketing of sheep and lambs in Texas. Ranchmen in nine West Texas counties were interviewed to obtain this information.

Most ranchmen on the Edwards Plateau graze a combination of sheep, cattle or goats, or all three together, on their ranches. Of these three types of livestock, sheep were listed by most respondents as the major source of income. Farther west, in the Trans-Pecos area, sheep and cattle predominate.

The counties listed in this study can be divided into two groups. The first group includes Gillespie, San Saba, Menard and Uvalde counties. The second group includes Sterling, Crockett, Val Verde, Pecos and Presidio counties. The first distinguishing characteristics of these two groups are the sizes of breeding ewe flocks and the sizes of ranch operation. In the first group of counties, flock and ranch sizes were relatively small, while the ranches and breeding flocks were large in the second group. Most of the ranchmen in the first group of counties had less than 1,000 ewes and grazed less than 2,500 acres, while many county ranchmen in the second group grazed more than 2,500 acres and had more than 1,000 ewes.

Another distinguishing characteristic of the two groups of counties is the higher percentage of fat lambs produced in the first than in the second. Ranchmen in the first group sold 29 to 84 percent of their lambs fat, while those in the second sold less than 20 percent of their lambs fat. This difference in production of fat lambs is caused mainly by grazing conditions in the two groups of counties.

There was a difference in the use of hired labor between the small operations in group one and the larger operations in group two. Relatively few producers in group one used hired labor, while the opposite was true of the larger operations in group two.

Of the total number of lambs sold, order and local buyers purchased 88 percent. Auction and central markets accounted for 8 and 4 percent, respectively, of the lambs sold.

Approximately 70 percent of the total number of lambs were sold during July-October. Gillespie, San Saba and Uvalde were the only counties where

significant numbers of lambs were sold dura spring.

The lack of important data on net returns as quality and finish, made it impossible to mine accurately the net returns per head a alternative methods of marketing. However, was an indication that net returns per head highest from sales to packers. Sales at central kets appeared to yield slightly lower net returns while sales to dealers and commission ment is still lower net returns. This probably is in list the actual situation because of differences in ity, finish and weights of lambs sold throught native outlets.

The average size of lamb shipment for all ties studies was 723 head, with an average m of 71 pounds per head.

All direct sales included sales agreement one type or another. Thirty-nine percent had weighing conditions in the sales agreement enty-two percent included sorting privileges a sale agreement and 38 percent included some percent, in the sale agreement, usually 3 percent, in the sale agreement and types of sales agreements: pencil shrink, prevening conditions and sorting privileges.

Only 13 percent of the ranchmen interest contracted the sale of their sheep and lambs in Of these contract sales, 86 percent were handle local and order buyers. Val Verde county has highest percentage of sales contracted with the cent.

The average cash marketing cost reported per head for all sales was 19 cents in 1956. On costs of marketing were highest at terminal maining because of transportation charges. It were lowest on direct sales, although these were some charges on many of these.

Forty-two percent of the ranchmen interior felt that fat lambs brought higher prices at a commarket, while 57 percent felt that stocker and learness brought higher prices from local buyers.

Of the ranchmen interviewed, 61 percent sidered market price quotations from central kets more closely than other sources. Twenty-percent considered local auction markets and intrading more closely. Fifteen percent relied a combination of sources.

# Marketing Aspects of Range Sheep Production in Texas

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WHILE SHEEP ARE RAISED in most areas of Texas, the major concentration is in the western part of the State in the Edwards Plateau and Frans-Pecos areas, Figure 1. Almost 90 percent of the sheep were located in those areas and surnumber of the second se mising is primarily a range operation. Therefore, most of the Texas sheep production is prolaced under range conditions. Sheep numbers ave changed drastically in recent years in both lexas and in the United States. They rose, until the early 1940's and then declined sharply until 957. Since 1957 there has been some increase. The major factor causing the severe decline in numbers was the severe drouth experienced in lexas during that period. Within the major deep-producing areas of the State, sheep and amb numbers have declined relative to cattle numbers, Figure 2.

Since little was known about marketing practices of range sheep producers in the State, this sudy was undertaken in 1957.

The nine counties in West Texas selected for study were Crockett, Gillespie, Menard, Pecos, Presidio, San Saba, Sterling, Uvalde and Val Verde, Figure 3. More than 300 ranchmen were atterviewed in these counties to obtain information on ranch operations, marketing practices followed, costs of marketing, sources and use of market information and prices received for sheep and lambs sold.

Based on an analysis of this information, probares are pointed up and recommendations improving marketing practices are made.

# Characteristics of Range Sheep Production in Texas

Sheep are produced in Texas under many difment conditions. Even within the major range deep-producing areas there is much variation in and organization, breeding and marketing practes, seasonality of production, size of operation

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#### TYPES OF LIVESTOCK

Ranching operations in the Edwards Plateau and Trans-Pecos areas of Texas are diversified. Most stock includes more than one species—sheep and cattle, sheep and goats, or sheep, cattle and goats. Of the three, sheep were the leading source of income for most of the ranchmen interviewed.

Among the ranchmen interviewed, 80 percent had some combination of livestock on their ranches, while 20 percent had only sheep. Thirty-five percent had a combination of sheep and cattle. Another 35 percent had a combination of sheep, cattle and goats, while 10 percent stocked sheep and goats.

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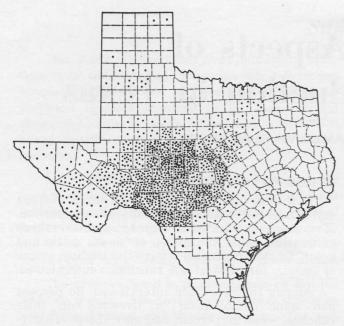


Figure 1. Distribution of sheep and lambs in Texas, 1954. Each dot equals 5,000 head.

Types and combinations of livestock stocked depend upon range conditions, ranch organization, preferences of the owner and many other factors. Therefore, there was considerable variation between counties in types of livestock carried. Ranches having all three types of livestock were most predominant in Gillespie and Uvalde counties, Table 1. More than 40 percent of the ranchmen interviewed in these two counties were raising sheep, cattle and goats. Eighty-four percent interviewed in Sterling county had a combination of sheep and cattle. Pecos, Presidio and San Saba counties had the highest percentages of

specialized livestock operations. More the percent of the ranchmen interviewed in Peresidio counties had only sheep on their man Approximately 32 percent of the producers viewed in San Saba county had sheep only other counties there were approximately a proportions of the different combinations of stock operations.

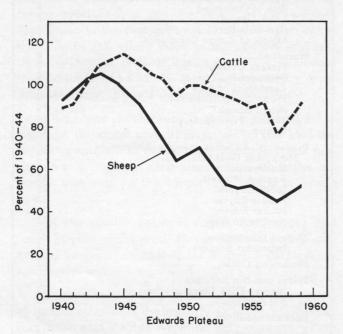
With the exception of Uvalde county, than 80 percent of the producers in each or indicated that sheep provided their majors of income. However, only 65 percent of the Uvalde county indicated sheep as their majors of income; 23 percent listed goats as major source of income.

#### BREEDS OF SHEEP

Texas sheep are known primarily for fine wool production. The Rambouillet's most important breed in Texas. Rambou ewes and rams were stocked by 58 percent of ranchmen interviewed. Thirteen percent had laine Merino ewes and rams. Six percent some other breeds. Almost one-fourth of ranch operations studied were using crossing

With the increase of lamb prices relative wool prices in recent years, more emphasis been placed on lamb production. It was change in relative prices that led to crossing of Suffolk and Hampshire rams with a bouillet and other wool-type ewes.

With the exception of Gillespie and Maccounties, all of the counties had a majority Rambouillet-type lambs, Table 2. Gillespie couranchmen had 62 percent Delaine lambs and percent crossbred lambs. In Menard county percent were Rambouillet lambs; 32 percent.



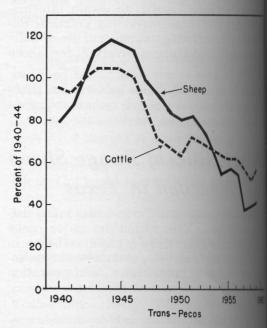


Figure 2. Relative changes in cattle and sheep numbers, Edwards Plateau and Trans-Pecos areas of Texas, January 1, 18 59 (1940-44—100).

rossbred lambs; of the remainder, Delaine and Debuillet lambs predominated. Rambouillet type lambs were predominant in Crockett, Val Werde and Pecos counties, accounting for more than 90 percent of the ranches.

#### FLOCK SIZES

The average size of breeding ewe flocks was 1970. Flocks ranged in size from less than 500 more than 4,000 breeding ewes. Forty perent of the ranchmen surveyed had flocks with 1881 than 500 breeding ewes. Twenty-one perent of those interviewed had flocks with 501 to 1990 ewes and 20 percent had 1,001 to 2,000 weeding ewes. Seven percent of the ranchmen meteriewed had 3,000 or more breeding ewes.

The smallest flocks were in Gillespie and San Sia counties where over 90 percent of the flocks and less than 500 breeding ewes, Table 3. The merage size flock in these counties was 184 for Gillespie and 160 for San Saba. Over 50 percent of the flocks in Menard and Uvalde counties had lever than 500 ewes. The ranches surveyed in Serling, Crockett, Val Verde, Pecos and Presidio muttes had flocks ranging from 501 to more than 3,000 breeding ewes; 18 percent of the repondents in Val Verde county were in the latter alegory.

#### LAMBING PERIODS

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Lambing seasons are correlated closely with grazing season. Lambs usually are dropped orly before the grazing season so that best mb gains can be made on the spring and sumgrasses. The breed of sheep also may afthe time lambs are born. Different breeds sheep have certain natural periods during hich they come into heat. The Rambouillet and bring come into heat early compared with cermutton breeds that will not breed until late the summer or fall. Most of the lambs covnd by this study were dropped in the late winand early spring. Approximately 71 percent me born during February and March. Fall and inter, October through January, accounted for percent. A small percentage of the lambs apped in both the fall and spring.

In San Saba and Uvalde counties, lambs were apped earlier than in the other counties, Table In San Saba county, 76 percent of the lambs are dropped between November and January, will in Uvalde county, approximately 60 percent the lambs were dropped between October and lamary, with 40 percent between February and will. Two factors are responsible for the fall of winter lambing in these counties. First, and of the ranchmen interviewed had smaller lambs. With the relatively smaller number of lambs, better care and attention could be given and during the winter in order to sell lambs on spring market. Second, more temporary winter per animal unit was available on the latter sheep operations.

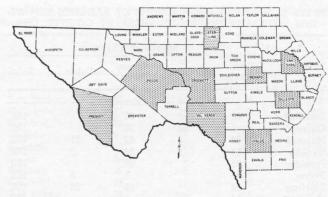


Figure 3. Location of nine counties in West Texas selected for a study of marketing practices of sheep producers, 1957.

In the remaining counties, more than twothirds of the lambs were dropped in the spring.

#### TYPE OF LAMB SOLD

A majority of the range lambs produced in Texas are of the feeder and stocker type. Most sheep in the major Texas producing areas are bred mainly for wool production. Range forage conditions in most years are not adequate for the production of high percentages of fat lambs. Relatively few lambs are drylot fed in Texas. Most lambs that are held for further fattening go to grazing areas to be finished on grass and are sold the following spring as "old crop" lambs. These lambs usually are born in the spring and carried until late summer or fall on the mother They usually are purchased and shipped to winter grazing areas until late spring when they are marketed. These grazing areas are located in Central Texas. Most of the lambs purchased for winter grazing come from the Trans-Pecos area because winter grazers like to start with the light, good-quality lambs that are produced in the western portion of Texas.

A majority of the lambs in Texas are sold directly from the ewe. If they are fat, these lambs are sold to packers for slaughter. If they are not in slaughter condition, they are sold as

TABLE 1. RELATIVE PROPORTIONS OF RANCHES REPORT-ING DIFFERENT TYPES AND COMBINATIONS OF LIVE-STOCK, BY COUNTY, 1957

	Types of livestock										
County	Sheep	Sheep and cattle	Sheep and goats	Sheep, cattle and goats	Total						
		357-0508	— Per	cent — — — —							
San Saba	32	45	3	20	100						
Gillespie	7	39	6	47	100						
Menard	24	37	13	26	100						
Uvalde	18	21	20	41	100						
Presidio	60	20		20	100						
Pecos	41	35	6	18	100						
Sterling	10	84		6	100						
Crockett	17	38	17	28	100						
Val Verde	25	14	22	39	100						

TABLE 2. RELATIVE PROPORTIONS OF RANCHES REPORT-ING DIFFERENT BREEDS OF SHEEP, BY COUNTY, 1957

	Breeds of sheep										
County	Ram- bouillet	Delaine	Cross- bred	Other	Total						
-			— Percen								
San Saba	65		35		100						
Gillespie		62	38		100						
Menard	39	8	32	21	100						
Uvalde	54	5	34	7	100						
Presidio	80		20		100						
Pecos	94			6	100						
Sterling	58		16	26	100						
Crockett	94		6		100						
Val Verde	92		8		100						

feeder or stocker lambs. Many producers will have some of each type. In marketing their lambs, they may sort them by condition or they may sell them unsorted.

Only about 25 percent of the ranchmen interviewed sorted and sold fat lambs in 1956. Sixty-eight percent sold stocker and feeder lambs, while 7 percent indicated that they did not sort their lambs. Fat lambs in this connection may mean milk fat lambs sold off the ewe or grass fat "old crop" lambs sold off pasture.

In San Saba county, 84 percent of the lambs marketed were fat, Table 5. Approximately one-third of these were "old crop" lambs that were grazed through the fall and winter and sold in late spring and early summer. Gillespie county producers interviewed sold an average of approximately 25 percent fat lambs. Most of these lambs were milk fat and sold off the ewe. Twenty-nine percent of the producers in Menard county sold fat lambs. Five percent of these were "old crop" lambs, and the remaining 95 percent were milk fat lambs. Uvalde county producers sold 18 percent of their lambs fat.

Sterling, Crockett, Pecos, Presidio and Val Verde counties producers sold most of their lambs as stockers and feeders or in unsorted lots including both fat and stockers.

TABLE 3. DISTRIBUTION OF RANCHES BY SIZES OF BREEDING EWE FLOCKS, AND AVERAGE SIZE OF BREEDING FLOCKS, BY COUNTY, 1957

			Flock	size			
County	Under 500	501- 1000	1001- 1500	1501- 2000	Over 2000	Total	Average
			— Per	cent -			Head
San Saba	91	5		4		100	160
Gillespie	93	7				100	184
Menard	50	33	8	4	5	100	545
Uvalde	52	32	10	3	3	100	709
Presidio	25	25	25	25		100	1,000
Pecos	6	37	13	25	19	100	1,005
Sterling	16	33	6	12	33	100	1,434
Crockett		21	26	19	34	100	1,725
Val Verde		20	14	19	47	100	2,327

The types of lamb produced are mill fluenced by lambing dates, range conditionsize of the flock.

On the Edwards Plateau, there was a relation between the type of lambs sold all size of the producer's flock. Producers where the producer's flock. Producers where the strength of the producer's flock. Producers where the strength of the producers with flock in the strength of the lamb flock sizes ranging from 18 over 4,000 sold 8 percent and less of their flat, with the remainder being stocker and type.

Few ranchmen sheared their lambs is sale. Approximately 80 percent sold their in the wool; of these, 45 percent stated that lambs brought a better price in the wool percent said that they sold their lambs is they were old enough to shear. Of those sold shorn lambs, 77 percent gave the pris wool as the major reason for shearing pris sale. Better lamb gains and better lamb were reasons given by 16 percent for selling of the wool.

San Saba and Uvalde counties had the sest percentages (approximately 40) of protection who sheared their lambs before sale. "Old or lamb operations accounted for the higher centage of shorn lamb sales in those counties."

By breeds, Delaine flocks had the highest centage of lambs that were sheared before Thirty-four percent of the Delaine lambs sheared, compared with 20 percent and less Rambouillet, Debouillet and crossbred lambs. Delaine sheep is bred mainly for wool product Delaine lambs are held 1 to 3 months longer Rambouillet and crossbred lambs since it longer to fatten Delaine lambs for market. It ing this period, extra wool growth is obtained and the shear this wool before marketing the lambs.

#### SIZE OF OPERATION

The average size of the ranches covered this study was 9,624 acres. Gillespie corranches were the smallest, averaging 1,400 are while Val Verde county ranches averaged 19,18 acres, Table 6. San Saba, Menard and Unit counties ranches averaged 2,845, 4,600 and 5,000 acres, respectively. Sterling, Crockett, Peos at Presidio county ranches averaged more to 15,000 acres.

The ranches ranged in size from less than 5 to more than 50,000 acres. Twenty-seven percent had less than 1,500 acres. Twenty-six percent had 1,501 to 6,500 acres. Forty percent le 6,501 to 25,000 acres. Ranches of more than 25,000 acres accounted for 7 percent of the total

The operations studied can be divided roughly into two groups. The first group included operations in San Saba, Uvalde, Menard and Gillespie counties. These counties had smaller operations, some farming and the availability of supplemental grazing in the form of small grain fields and river bottomlands. More than half of the ranches studied in these counties had holdings of less than 2,500 acres.

In the second group of counties — Sterling, Crockett, Val Verde, Pecos and Presidio—holdings were considerably larger and were strictly range operations. In these counties, holdings ranged from 4,501 to more than 50,000 acres in size. This difference in grazing areas has considerable effect on the degree of finish of the lambs produced in each area.

The ranches in Gillespie county ranged from less than 250 to 4,500 acres, with 68 percent between 251 and 1,500 acres. In San Saba county, approximately 83 percent of the ranches had less than 2,500 acres, while 17 percent were in the 4,501 to 25,000 category. Menard and Uvalde counties ranches were distributed between 251 and 25,000 acres. Most of the Sterling, Crockett, Val Verde, Pecos and Presidio county ranches were larger than 4,501 acres.

#### LAND LEASED

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per ha One-third of the ranchmen interviewed leased part or all of their grazing land. Of those who leased land, more than half (56 percent) leased more than three-fourths of their grazing land, Table 7. Sixteen percent leased 51 to 75 percent of their land, and another 16 percent leased 26 to 50 percent of their land. Twelve percent of the producers who leased land had less than 25 percent of their operation leased.

Leasing was more prevalent in Pecos, Uvalde and Crockett counties than in Sterling, Gillespie and Menard counties. In Pecos county, 87 percent of the ranchmen were leasing land. Of these, 85 percent leased more than three-fourths of their total holdings.

TABLE 5. RELATIVE PROPORTIONS OF LAMBS SOLD, BY TYPE, BY COUNTY, 1956

C	Proportion of	type of l	ambs sold as	Total
County	Feeder	Fat	Unsorted	Ιοται
		F	Percent — — —	
San Saba	10	84	6	100
Gillespie	73	25	2	100
Menard	66	29	5	100
Uvalde	65	18	17	100
Presidio	60	20	20	100
Pecos	94	6		100
Sterling	96	2	2	100
Crockett	54	41	5	100
Val Verde	84		16	100

Lease values in the counties studied varied considerably, depending on the type of grazing land and the carrying capacity of the land. Figure 4 shows there is a direct relationship between lease values and the estimated carrying capacity of the land. Eighty percent of the producers who leased land in San Saba county paid \$1.75 to more than \$2 per acre, which is an indication of a relatively high carrying capacity.

Lease values in Menard county also were relatively high, ranging from 76 cents to \$2 per acre. Lease values in the other counties studied ranged mostly from 25 cents to \$1 per acre. These counties with low lease values were farther west, and fewer animal units were grazed per section of land. In counties where lease values were more than \$2 per acre, almost all of the land leased carried more than 80 animal units per section. In counties where lease values were 26 cents to 50 cents per acre, fewer than 30 animal units were grazed per section.

#### USE OF LABOR

The use of hired labor other than during peak seasons such as shearing, varied with the size of ranch operation. In Gillespie county, where the average size of operation was relatively small, only 5 percent of the ranchmen used extra labor throughout the year. In Sterling, Crockett, Val Verde, Pecos and Presidio counties, where the

TABLE 4. RELATIVE DISTRIBUTION OF RANCHES BY LAMBING MONTHS, BY COUNTY, 1957

					Month				
County	October	November	December	January	February	March	April	Other <sup>1</sup>	Total
					— Percent —				
San Saba		52	14	10	10	9		5	100
Gillespie	5	8	5	5	33	33	9	2	100
Menard				3	33	50	11	3	100
Uvalde	10	10	16	23	32	6	3		100
Presidio					25	50	25		100
Pecos				6	12	69	13		100
Sterling				5	21	53	21		100
Crockett				2	30	57	9	2	100
				4	88	8			100
Val Verde				The state of the s			0	4	

Otal Ruchmen who had lambs dropped in both the spring and fall months.

TABLE 6. DISTRIBUTION OF RANCHES BY SIZE GROUP AND AVERAGE SIZE OF RANCH, BY COUNTY, 1987

					Siz	e group (	acres)				
County	Under 250	251- 750	751- 1500	1501- 2500	2501- 4500	4501- 6500	6501- 10,000	10.001 25,000	Over 25,000	Total	Avera
						— Perce	nt — — —				
San Saba	17	40	13	13		3	3	11		100	2.85
Gillespie	1	34	34	19	12					100	1.47
Menard		16	22	13	11	19	13	6		100	4.60
Uvalde	4	16	11	18	14	9	14	14		100	5,05
Presidio						25		50	25	100	15,70
Pecos					6	19	6	50	19	100	18.15
Sterling				5	10	5	10	54	16	100	16.58
Crockett					2	13	34	40	11	100	15,22
Val Verde					4	6	26	43	21	100	19.18

average size of ranch operation was large, 65 to 92 percent of the ranchmen used hired labor during most of the year.

#### EFFECTS OF RANGE CONDITIONS

The prolonged drouth in Texas, which lasted nearly 8 years in some areas, reduced sheep and cattle numbers considerably. The drouth also had some effect on the marketing of Texas sheep and lambs. Some producers held their lambs longer before selling to get the usual amount of weight on the lambs, while other producers sold their lambs earlier than usual because adequate forage was not available. Table 8 shows the effects of pasture conditions on sheep and lamb marketing.

Three-fourths of the ranchmen interviewed stated that range conditions had affected their operations. Twenty-eight percent said the principal effect was the production of lighter lambs. Eighteen percent of the producers reported they sold their lambs earlier because of a lack of forage. Seven percent of the producers cut their flock sizes further in 1956. Most of the producers had cut their flock sizes before 1956. Another 7 percent said that their lambs were lighter than usual and were sold earlier. Eight percent re-

TABLE 7. RELATIVE PROPORTIONS OF RANCHMEN LEAS-ING GRAZING LAND AND DISTRIBUTION OF THE PERCENT OF HOLDING LEASED, BY THOSE WHO LEASED LAND BY COUNTY, 1957

	Distribution of ranches by per- cent of holding leased											
County	Percent of ranchmen leasing land	1-25	26-50	51-75	76-100	Total						
				Perce	nt — —							
San Saba	33	10		30	60	100						
Gillespie	19	37	25		38	100						
Menard	22	12	25	13	50	100						
Uvalde	41	5	11	17	67	100						
Presidio						100						
Pecos	87		7	8	85	100						
Sterling	16	33		33	34	100						
Crockett	43	10	35	10	45	100						
Val Verde	31	13	7	27	53	100						

ported various other effects caused by pasts conditions.

One-fourth of the producers reported that ture conditions had not had any effect on the marketing operations. The highest percents of producers reporting no effect were located San Saba, Gillespie, Menard and Uvalde counts while the counties farther west had a smaller percentage of ranchmen reporting no effect.

# Marketing

Marketing represents the end of the prolition process as far as the individual ranchm is concerned. Much of his financial success of pends on his ability to market his products to best advantage. Some important decisions to made in marketing are the choice of a market outlet, season of sale and conditions of sale. So important economic considerations in market are comparative prices, costs, shrink, sorts a risk and uncertainty.

#### MARKET OUTLETS

Texas sheep producers have several mark outlets through which they may sell their she and lambs. The major outlets available are public markets and direct (country or ranch) sale Public markets may be either auction markets terminal markets (stockyards). Major types buyers involved in direct sales are packer buyer local order buyers, feeder buyers and other she producers.

Among the ranchmen interviewed in 1956 direct sales were the most prevalent, accounting for 87.6 percent of all the lambs sold. Auction market sales accounted for 9.4 percent and terminal market sales, 3 percent. Direct sales accounted for less than two-thirds of the lambs sold in only two counties, Gillespie and Menard, Table 9. In those counties, terminal market and auction market sales were relatively more important.

In terms of the number of sales, distribution was somewhat different because the average size of consignment varied. Direct sales accounted for

8.0 percent of the sales reported, compared with 2.8 percent for auction markets and 9.2 percent for terminal markets. Average size of consignment was 807 head for direct sales, 258 head for section markets and 206 head for terminal markets.

Size of flock has an important bearing on marketing. In 1956, small flock owners (less than 1,000 ewes) sold a lower percentage of their lambs direct than did medium-size flock owners (1,000-1,999 head) or large flock owners (2,000 or more head), Table 10. The average size of the consignment tended to increase with the size of the flock.

#### SEASONALITY OF SALES

The month or season in which Texas sheep and lambs are sold is correlated closely with the grazing season and with the time of birth. Lambs hopped in the spring usually are sold in the summer or fall. Lambs born in the fall, usually are sold in the spring. In the western portions of Texas, the major grazing season is during the late spring and summer. Most Texas lambs are sold after this peak in range conditions. months of concentrated marketing usually are by through October, depending on range contions and location, Figure 5. Lamb marketings were highly concentrated in these months in all of flocks. Small flocks had a higher perentage of lambs marketed during the spring, but wen there, two-thirds of the lambs were marated during the July-October period. In large beks, 90 percent of the lambs were marketed ben, compared with 82 percent for the mediumize flocks.

Gillespie, San Saba and Uvalde counties had imificant numbers of lambs marketed in the pring, from March through June. This can be attributed to the different types of range conditions and the different lambing seasons in these counties compared with the other counties. Also contributing to spring marketings are the "old cop" lambs grazed in these counties. Peak range conditions in Gillespie, San Saba and Uvalde counties are during the early spring, while peak conditions in counties farther west occur during the summer. In those counties, more than 80 percent of the lambs sold were marketed during the laty-October period.

#### CONDITIONS OF SALE

Since direct sales are negotiated between buyand seller, many considerations other than pice may enter into the sale. Among these are preveighing conditions, the weighing point, "penal" shrink and sorting privileges. Just as the pice to be paid for lambs is determined by the producer and buyer, so must these marketing armagements be determined. Each arrangement important to both the buyer and seller in that taffects the actual weight and pay weight of the

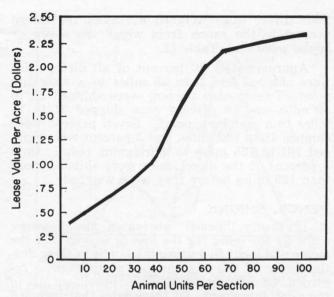


Figure 4. Relationship between lease values per acre and animal units grazed per section of land, 1956.

lambs, and it affects the number of lambs to be sold at a certain price.

#### PREWEIGHING CONDITIONS

Of the direct sales made by the ranchmen interviewed, 62 percent included no preweighing conditions, while 38 percent included them. The preweighing conditions in nearly all cases was overnight pen shrink without fee. Feeder buyers had the highest percentage of sales including preweighing condition agreements, while relatively fewer sales to commission firms and packers involved such conditions.

Lambs may be weighed almost anywhere agreeable to both buyer and seller. Approximately four-fifths of all direct sales were weighed at a nearby town scales. The remainder were weighed at terminal markets, auction markets or at the ranch. With the exception of San Saba county, all counties had at least 60 percent of

TABLE 8. DISTRIBUTION OF RANCHMEN BY REPORTED TYPE OF CHANGES IN PRODUCTION OR MARKETING PRACTICES AS A RESULT OF CHANGED RANGE CONDITIONS, BY COUNTY, 1956

	Type of change											
County	Lambs lighter	Sold earlier	Sold later	Re- duced flock size	Other	None	Total					
	7			- Percen	ıt — —	4 10						
San Saba	26	16	6		10	42	100					
Gillespie	23	25		5	6	41	100					
Menard	24		6	6	8	56	100					
Uvalde	22	30	5	6	10	27	100					
Presidio	25		20	20	15	20	100					
Pecos	25	6		33	18	18	100					
Sterling	37	31	6		7	19	100					
Crockett	60	21		2	6	11	100					
Val Verde	55	9	7	8	6	15	100					

their direct sales weighed at scales that were nearest to the ranch from which the sheep or lambs were sold, Table 11.

Approximately 40 percent of all direct sales were shipped less than 25 miles to a weighing point. Twenty-nine percent were shipped 26 to 50 miles and 16 percent were shipped 51 to 75 miles to a weighing point. Seven percent were shipped 76 to 100 miles, and 3 percent were shipped 101 to 125 miles to a weighing point. Only 5 percent of the direct sales were shipped more than 125 miles before they were weighed.

#### PENCIL SHRINK

In theory, "pencil" shrink is an allowance made by the seller for the loss in weight that the buyer will incur in getting the lambs to their destinations. Of the total number of direct sales recorded, 38 percent specified a pencil shrink in the sales agreement. Of those sales that included pencil shrink, approximately 80 percent specified 3 percent. Thirteen percent specified 1.5 percent, 5 percent specified 2 percent and 2 percent specified 1 percent.

Since only 3 percent of the sales were weighed at the ranch, most lambs were transported var-

ious distances before being weighed. Of the percent were shipped less than 26 miles weighing point. Forty percent were shipped to 50 miles. Ten percent were shipped more 51 miles before being weighed. Generally, to will not ask as much shrink on sales that be shipped long distances to be weighed. As all of the sales involving 2 or 3 percent shrink were shipped less than 50 miles, while 43 per of the sales involving 1.5 percent shrink shipped more than 50 miles. However, in extreme case, one sale involved transport lambs more than 100 miles and a 3 per shrink.

#### SORTING PRIVILEGES

Sorting privileges were included in appropriately 72 percent of all direct sales. The mately 72 percent of all direct sales. The common sorting agreement was a 5 to 10 percent on each shipment. This served to separ lambs of different quality and lambs with using degrees of finish. The buyer, after taking cut, usually purchased the lambs that were an at a different price or turned them back to seller. Also included in most sorting privilegements and in most sales with no soft

TABLE 9. DISTRIBUTION OF LAMBS SOLD, LAMB SALES, AND AVERAGE SIZES OF CONSIGNMENT BY TYPE OF SALL COUNTY, 1956

	month in			The state of	Type of	sale		A Property	
County		Direct sale	s	Auction markets			Terminal markets		
San Saba Percent of lambs sold Percent of sales Average size of consignment	90.0	47.7	1071	2.9	22.7	73	7.1	29.6	136
Gillespie Percent of lambs sold Percent of sales Average size of consignment	35.2	32.1	106	41.8	48.1	84	23.0	19.8	113
Menard Percent of lambs sold Percent of sales Average size of consignment	53.9	56.8	304	42.2	34.1	398	3.9	9.1	139
Uvalde Percent of lambs sold Percent of sales Average size of consignment	89.2	71.9	624	7.1	17.6	204	3.7	10.5	176
Presidio Percent of lambs sold Percent of sales Average size of consignment	100.0	100.0	1159						
Pecos Percent of lambs sold Percent of sales Average size of consignment	100.0	100.0	857						
Sterling Percent of lambs sold Percent of sales Average size of consignment	67.5	68.2	672	11.4	18.2	425	21.1	13.6	1050
Crockett Percent of lambs sold Percent of sales Average size of consignment	96.4	91.4	929	3.6	8.6	375			
Val Verde Percent of lambs sold Percent of sales Average size of consignment	92.4	96.4	1402	7.6	3.6	1			

<sup>&</sup>lt;sup>1</sup>Too few sales to derive a meaningful average.

agreement was the option for the buyer to cut out undesirable sheep and lambs. These were sick or crippled lambs or those with undesirable qualities.

Order-buyer sales had the highest percentage of sorting privilege agreements with packer-buyer and feeder-buyer sales next highest. Commission companies had the lowest percentage of sales with sorting agreements.

Approximately 40 percent of the sales that included agreements concerning preweighing conditions also had some amount of "pencil" shrink in the agreement. Ten percent of the direct sales included "pencil" shrink, preweighing conditions and sorting privileges.

#### CONTRACTING

Many sheep and lambs sold directly by producers in Texas and other Western States are contracted for a future delivery date. The length of time between the contract date and the delivery date may be fairly long. However, in Texas in 1956, the contract specified delivery within a relatively short time after the contracts were signed.

Most contract sales had specified delivery dates during the same month that the agreement was made. The term between the contract date and delivery date of the majority of sales ranged from 1 to 5 weeks. Only four contracts were executed more than 2 months prior to contract delivery date. Two of these were made 7 months prior to the specified delivery date. Two other contract sales were made approximately 2 months before the specified delivery date. The number of sheep and lambs sold by contract varies from part to year, depending on market expectations, range conditions and in many cases, on the buyers need for a guaranteed number of sheep or lambs of a specified quality on a certain date.

Only 13 percent of the ranchmen interviewed contracted the sales of their sheep and lambs in 1956. Of these, 91 percent were lamb sales (usually stockers and feeders with some "old crop"

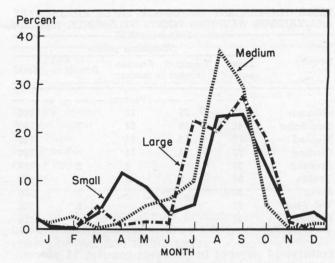


Figure 5. Seasonal distribution of lamb sales by size of flock, 1956.

lambs); 6 percent were ewe sales; and 3 percent were pair sales—a ewe and a lamb sold as a unit.

Local and order buyers purchased most sheep and lambs sold by contract. Local buyers, order buyers and commission companies bought 88 percent of the sheep and lambs sold by contract. Feeders and packers purchased 8 and 4 percent, respectively, of the sales contracted.

Approximately 80 percent of all contract sales were in June, July, August and September. July and September had the highest percentage of contract sales. Each month had 23 percent of the total contract sales.

With the exception of Uvalde and San Saba counties, the majority of contracting was in the summer and fall. San Saba county producers made 50 percent of their contract sales in the spring. Of the contract sales in Uvalde county, 83 percent were made from February to June.

Approximately 44 percent of the sales made in Val Verde county in 1956 were contract sales. Contracting accounted for 17 percent of the total sales in Presidio county, 15 percent in Pecos

MALE 10. DISTRIBUTION OF LAMBS SOLD, LAMB SALES, AND AVERAGE SIZE OF CONSIGNMENT BY TYPE OF SALE, BY SIZE OF FLOCK, 1956

to the t					Type of s	sale			
Size of Flock	Direct sales			Au	ction ma	rkets	Terminal markets		
Small  Fercent of lambs sold  Percent of sales  Average size of consignment	69.3	50.5	301	20.8	34.2	133	9.9	15.3	142
Redum Rescent of lambs sold Rescent of sales Average size of consignment	95.8	93.6	715	4.2	6.4	460			
large Percent of lambs sold Percent of sales Average size of consignment	90.8	92.2	1645	7.4	6.5	1910	1.8	1.3	1

TABLE 11. PERCENT OF DIRECT SALES WEIGHED AT VARIOUS WEIGHING POINTS BY COUNTY, 1956

	Weighing points						
County	Local scales	Terminal market	Auction market	Ranch	Total		
			- Percent				
Gillespie	62	25	13		100		
San Saba	41	30	22	7	100		
Menard	72	14	14		100		
Sterling	72	14	14		100		
Crockett	96		2	2	100		
Uvalde	90	7	3		100		
Pecos	93			7	100		
Val Verde	95			5	100		
Presidio	100				100		

county, 14 percent in Crockett county, 11 percent in Uvalde county, 8 percent in San Saba county and 7 percent in Sterling county. No contract sales were recorded in Gillespie and Menard counties.

Sixty-five percent of the contract sales included a forfeit payment agreement in which both buyer and seller deposited in escrow a specified amount subject to forfeit, (usually \$1 per head for lambs). In case the contract was broken, the responsible party forfeited his deposit to the other. Thirty-six percent of the contracts included a maximum weight agreement. Here, a maximum weight was specified in the contract, and all lambs exceeding this weight at the delivery date were cut out of the sale or sold at a lower price. Twenty-seven percent of the contract sales included a minimum weight agreement. minimum weight was specified in the contract, and all lambs under this weight at the delivery date were cut out of the sale or sold at a lower price.

# Producers' Attitudes toward Alternative Marketing Channels

No marketing outlet is completely satisfactory to all producers. Each has certain advantages and disadvantages for individual producers. Ranchmen interviewed were asked to give advantages and disadvantages of certain marketing outlets.

#### STOCKYARDS

Advantages of marketing through central markets featured strong demand and higher prices and the ability to handle large shipments.

Thirty percent of the ranchmen interviewed gave "strong demand" as a major advantage of central markets. Ten percent said that stockyards were "good fat-lamb markets." "Good seasonal prices" was given by 10 percent; another 10 percent said the ability to handle "large ship-

ments" was an advantage of stockyards. It teen percent named various other factors a vantages of marketing through central man Twenty-six percent gave no advantage.

Distance, cost and price uncertainty were major disadvantages given. Fifty-three per of the ranchmen interviewed gave "distance the major disadvantage of marketing the central markets. Commission, shrink and expenses of marketing were given by 16 per as being other disadvantages of central make Eight percent of the ranchmen named "price certainty" as a major disadvantage of stocking Twelve percent gave still other disadvantage marketing through central markets. Elevent cent gave no disadvantage.

#### **AUCTION MARKETS**

According to the ranchmen interviewed major advantages of marketing through and markets is convenience. Approximately 27 cent indicated that handling "small lots" w major advantage of auction sales. Eight pen said that "culls and cut-backs" could be through auctions more advantageously to through other marketing outlets. Eleven personal control of the co gave "short distance from the ranch" as a ma advantage of auction sales. All who gave distance as an advantage of auction sales a from Gillespie, San Saba, Menard, Sterling Uvalde counties, where markets are convenient strong demand" was given by 10 percent of producers interviewed as being an advantage marketing through auction sales. Thirty pers of the producers named various other factor advantages of selling through auction marks Fourteen percent gave no advantage.

The disadvantage of selling through autimarkets named most consistently was "price certainty". Approximately 21 percent of the producers interviewed considered unreliable prices disadvantage of auction markets. Eight percentage and the possibility of spreading disease a dadvantage of auction sales. "Commission of pense" was given by 4 percent, and another percent indicated that only small lots of she and lambs were handled at auction markets. Various other disadvantages accounted for 25 percent. Thirty-eight percent gave no disadvantages.

#### LOCAL BUYERS

The local buyer, as a marketing outlet, provides one convenience that is not furnished a most auction sales and central markets. Rand men, by selling to local buyers, can in many as deliver their sheep and lambs at their ranch. The is convenient since they can avoid transportation and other expenses involved in selling through public markets.

Being able to "sell on the place" was name by 36 percent of the ranchmen as a major advanage of selling to local buyers. Eleven percent gave "no commission charge" as an advantage, while 4 percent named "less shrink" as a major advantage of selling to local buyers. "Good prices" given by local buyers was named by 6 percent of the ranchmen and 25 percent named other advantages of selling to local buyers. Eighteen percent gave no advantages.

The main disadvantage named by 29 percent of the ranchmen was that the offering prices of local buyers usually were low. Most of these complaints came from San Saba and Gillespie counties where almost half of the ranchmen said that local buyers or country traders tried to "buy too cheap." Three percent said that competition was not strong enough between local buyers. In other words, these producers did not feel that they had received enough price bids from local buyers. Five percent of the producers interviewed criticized the buying patterns of local buyers as being too erratic and undependable. Eight percent named various other disadvantages of marketing through local buyers. Slightly more than one-half gave no disadvantage.

#### FEEDER BUYERS

Feeders, as buyers, are important in Texas since considerable numbers of the lambs available for sale are of feeder type. Feeder buyers purchase sheep and lambs to be finished in drylot feeding operations or to be finished on grain or alfalfa fields. Even though feeder buyers are important to Texas sheep producers, they are responsible for a relatively small percentage of the frect lamb purchases. Many feeders let order and local buyers handle their purchases since these buyers are familiar with the type of sheep and lambs available. First sales of most sheep and lambs in Texas are handled by local or order layers, auction sales or stockyards. Ranchmen isted "good prices for quality lambs," "good prices for feeder lambs," "can sell lambs on the place," and "less expense involved" as the main advantages of selling directly to feeder buyers. Inity-seven percent of the ranchmen named rood prices for quality lambs" as an advantage marketing lambs through feeder buyers. Eight rement indicated "good prices for feeder lambs," percent indicated "less expense" and 5 percent micated "can sell on the place" as advantages calling sheep and lambs to feeder buyers. Forty percent gave no disadvantages.

The only disadvantage of selling to feeder buyers named by ranchmen was that they were but always buying. Thirteen percent of the producers named this as a disadvantage.

#### PACKER BUYERS

Packer buyers purchase sheep and lambs dimetly from producers when supplies of sheep and lambs are light at central markets and when they am buy more profitably in the country. Since

TABLE 12. RELATIVE PROPORTIONS OF RANCHMEN PRE-FERRING ALTERNATIVE TYPES OF SALES FOR FAT AND FEEDER LAMBS, 1956

Type of sale	Fat lambs	Feeder lambs
	P	ercent — — —
Terminal market	42	8
Auction market	15	25
Local buyer	31	57
Packer buyer	12	
Feeder buyer		10
Total	100	100

most of the range lambs produced in Texas are of stocker-feeder type, the volume of direct purchases by packers is not great.

Of the ranchmen interviewed, 34 percent mentioned convenience, 20 percent mentioned less expense, 7 percent mentioned best prices for fat lambs and 10 percent mentioned other factors as advantages of selling directly to packer buyers. Twenty-nine percent gave no advantage.

Disadvantages pointed out were low offering prices, too much shrink, lack of competition between packers and too much cut.

#### ADVICE TO SELL

In an attempt to obtain a true measure of their market preferences, ranchmen were asked which marketing outlet they would recommend to a person starting ranching in their areas. The answers received varied considerably, depending on the location of the ranchmen. In counties where auction and terminal markets were relatively convenient, ranchmen advised selling through these channels. In counties where no auction markets or central markets were convenient, ranchmen usually advised selling through local or feeder buyers.

Forty-two percent of the ranchmen advised the interviewers to sell fat lambs through terminal markets, Table 12. Thirty-one percent advised the selling through local buyers; 15 percent advised selling through auction markets; and 12 percent recommended packers as the best market outlet for fat lambs.

Fifty-seven percent of the ranchmen interviewed felt that local buyers offered the best outlet for feeder lambs. Twenty-five percent advised selling through auction markets; 10 percent advised selling to feeder-buyers; and 8 percent advised selling through terminal markets.

Many ranchmen seem to feel that certain marketing outlets, other than the one they currently were using, might increase their returns. However, in their own marketing operation, custom and convenience apparently were more important than the possibility of increasing returns by selling through a different market outlet.

More than half of the producers having flock sizes of less than 500 ewes advised selling fat lambs at central markets. Approximately one-fourth of the producers having 1,000 to more than 4,000 ewes advised selling fat lambs through terminal markets.

More than half of the ranchmen having fewer than 500 ewes advised selling feeder lambs through auction markets. More than 80 percent of those having over 1,000 breeding ewes advised selling feeder lambs to local buyers. Small producers probably prefer auction markets because these markets are located in areas where there are many small producers and they handle small shipments.

# **Market Information**

In most areas, sheep and lamb producers have a choice of marketing outlets. Market price information from the various marketing outlets enables producers to compare markets and select the outlet offering the greatest returns.

Four principal agencies collect and disseminate market news to Texas livestock producers. These are the Federal Market News Service, the State Market News Service, commission companies and auction markets. These collecting agencies disseminate daily and weekly market prices through radio, television, mail reports and newspapers. Livestock producers also obtain market prices by talking with neighbors and other producers and by attending local auction market sales.

The most important sources of market news, the markets watched most closely by the ranchmen interviewed and the use made of this market news are important.

#### IMPORTANT SOURCES

Approximately 58 percent of the ranchmen interviewed gave radio as their principal source of market news. Radio was a more important medium for small than for large producers. Seventythree percent of the ranchmen having less than 500 ewes, named radio as their major source of market news. Radio was less significant as a source of market news among producers with more than 2,000 ewes. These producers relied more on newspapers, local buyers and prices received by neighboring ranchmen. Seventeen percent of the ranchmen named newspapers as their major source of market prices. Eight percent named local buyers and 5 percent listed prices received by neighbors as their main source of Auction markets and mail remarket prices. ports accounted for 8 and 4 percent of the ranchmen interviewed, respectively.

Sixty-one percent of the ranchmen into ed watched price reports from one of three inal markets — Fort Worth, San Antonio cago. More than two-thirds named For I while the remainder named San Antonio cago as the central market they watched closely. Twenty-four percent of the ran interviewed obtained their principal prices from local auctions, local buyers or made by other ranchmen. Of these, 711 watched local traders, local auctions and made by neighbors more closely; 29 p watched auction markets in San Angelo closely. Fifteen percent followed market from a combination of terminal markets and and local trading.

Ranch location is a strong factor affective choice of a market to follow. Ranchme Gillespie and Uvalde counties watched the Antonio market, while those in San Sala Menard counties watched the Fort Worth more closely. Sterling and Pecos county men watched the auction market prices in Angelo more closely than ranchmen in the counties. Ranchmen in Pecos, Uvalde, Marand Crockett counties depended more heart price information obtained from local to than did ranchmen in other counties.

Of those ranchmen selling their lambs the Fort Worth or San Antonio Stockyan 1956, 83 percent paid closer attention to prices coming from central markets. Forth cent of the ranchmen who sold their through the various other market outlets was market prices coming from central markets closely. Ranchmen who sold their lambs through the auction sales, to commission companies as local buyers paid closest attention to prices of from the auction market sales in San An Those who sold their lambs through auction kets, to local buyers and to other ranchmen closest attention to market prices from sales.

In an attempt to determine the usefulne present market information available to sand lamb producers, ranchmen who used the ious sources of market information also asked to state how much this information better in making marketing decisions. They asked to state generally whether this market formation helped them "a lot," "some," or much" in deciding when to sell. While these not precise statements subject to objective murement, they provided some indication of relative usefulness of present market infortion.

Forty-three percent of the ranchmen in viewed said the market information obtain from the several sources helped "a lot" in making marketing decisions. Fifty percent said the formation helped some and 7 percent said the it helped very little. Many of the ranchmen in

<sup>&</sup>lt;sup>1</sup>W. H. Walter and John G. McNeely, Livestock Market News Service in Texas, Texas Agricultural Experiment Station, Bulletin 811, July 1955.

sid that the information helped only some or very little had poor range conditions or were selling fat lambs. In the case of poor range conditions, the lambs had to be sold regardless of the prices received because of lack of forage. Ranchmen who sold fat lambs, felt that they had to sell when the lambs became fat or reached their peak andition to realize maximum income.

# **Marketing Costs**

Because Texas sheep and lamb producers have choice of a variety of marketing outlets, there is a great deal of confusion regarding marketing costs. Many are of the opinion that no marketing costs are incurred on direct sales at the ranch. Actually, prices received probably are adjusted in reflect the marketing costs of each shipment seen when no actual cash costs are paid by the color. A packer-buyer, speaking to a meeting texas sheep producers in 1958, made the following statement:

"One of the major factors involved in the difference between buying at central markets and in the country is the cost of buying. In the ong run these costs have to come out of the difference between what packers can get for the dressed lambs and what they can pay producers. For that reason livestock producers have a definite interest in this question. In most cases it is obvious that buying livestock in the country carries an expense. . . . But for the meat packer, it requires more men to cover the territory and bid on a given number of livestock. Automobile costs and other travel expenses have been increasing rapidly over the past several years. In addition, a considerable part of the buyer's time is spent in the unproductive job of getting from one spot to the other,"2

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Costs of marketing sheep and lambs in Texas present charges for services and must be paid someone on every shipment of sheep and labs. Services such as locating, bargaining, uting and transportation are necessary to move be and lambs through the marketing process lamb the producer to the ultimate consumer.

Marketing costs that are important considerins for sheep producers may be divided into reategories — total costs and cash or "out-of-cet" costs. "Out-of-pocket" costs are direct to outlays paid for transportation and other reating services, while total costs are costs of complete sales transaction and in addition to the costs may include items such as shrinkage it transportation paid by the buyers and may borne partly by the seller and partly by the generally speaking, the more of the marting costs paid by the producer, the higher a price unit (pound or head) he will receive this lambs. The price received will be lower be does not pay a significant portion of the marketing cost. In other words, prices received

tend to reflect marketing costs. If the seller pays only a small portion of the marketing cost, the buyer usually will bid lower to compensate for the marketing costs he must pay. Under competitive conditions, net returns to producers probably are much the same whether cash marketing costs are paid by the producer or the buyer.

Three principal factors affect the level of These are the distances that marketing costs. lambs are to be transported, the marketing channel through which the shipment is sold and the terms or agreements included in the sale transaction. When sheep are sold through auction or central markets, both transportation and commission fees (plus yardage and feeding at central markets) are "out-of-pocket" costs that must be paid. Cash payment by the producer in direct sales in many cases involves only transportation costs, and often only a portion of those. The customary agreement in direct sales is for the seller to pay transportation costs to the agreed delivery point, which usually is the nearest public scales. Some of the ranchmen interviewed also paid a weighing fee at the delivery point. Commission charges also were paid by some ranchmen who sold direct. However, this was not a general practice.

The average total cash costs reported paid by the ranchmen interviewed was 19 cents per head. There were considerable differences between types of sales. Sales at terminal markets cost an average of 94 cents per head, while sales to other ranchmen involved reported costs of only 10 cents per head. A major factor in the higher cost at terminal markets was transportation, which averaged 50 cents per head. pocket" costs also were high for sales through auction markets. Ranchmen who sold through auction markets reported an average cash cost of 61 cents for transportation. The essential factor that made transportation costs high for auction markets was small shipments. In most areas there is a minimum charge for hauling a load of livestock. For example, if a ranchman were sending only 25 sheep to an auction market, a minimum charge for transportation might be \$15. If he had shipped 200 head, his cost per head would be much lower. Average total costs of selling sheep and lambs through auction markets were 55 cents per head.

Average costs reported for selling sheep and lambs directly to buyers ranged from 18 cents per head for commission companies to 10 cents per head for ranchmen. Transportation costs for selling direct to buyers were low, relative to costs of sales through central markets and auction markets. The lower transportation costs involved in direct sales can be attributed to larger shipments and to shorter hauling distances to delivery points. Some of the ranchmen who sold direct had commission charges, weighing fees and other

Packer-buyer's Views on Marketing Sheep and lak," Jim Adle, Highland Sheep and Goat Raisers' location Workshop, Alpine, Texas, July 10, 1958.

TABLE 13. ESTIMATED CASH COST OF MARKETING SHEEP AND LAMBS AT THE FORT WORTH STOCKYARDS, BY SIZE OF CONSIGNMENT 1958<sup>1</sup>

Size of consign- ment	Com- mission	Yardage	Feed and miscel- laneous	Total	Total per head
544.963			— Dollars -		
10	3.50	2.00	.30	5.80	.58
25	7.25	5.00	.75	13.00	.52
50	13.50	10.00	1.50	25.00	.50
75	19.00	15.00	2.25	36.25	.48
100	24.00	20.00	3.00	47.00	.47
150	31.60	30.00	4.50	66.10	.45
200	37.60	40.00	6.00	83.60	.42
250	43.60	50.00	7.50	101.20	.40

<sup>1</sup>Commission, yardage and feed costs were based on tariffs in effect at the Fort Worth Stockyards, 1958.

miscellaneous marketing costs. These costs were small on a per-head basis compared with auction markets and central markets which had relatively high commission and other marketing costs.

Gillespie and Sterling counties had the highest average marketing costs per head, with Uvalde and San Saba counties having the lowest. San Saba, Crockett, Val Verde, Uvalde and Pecos counties had low commission and other costs per head. Most sales in these counties were direct to buyers and involved less commission expense. Gillespie, Menard and Sterling counties had relatively high commission and other costs mainly because significant numbers of sheep and lambs from these counties were sold through central and auction markets.

Highest average costs per head for transportation were found in Gillespie and Sterling counties. In Gillespie county, small shipments and long distances to central and auction markets were the major causes of high transportation

TABLE 14. ESTIMATED CASH COSTS PER HEAD FOR MAR-KETING SHEEP AND LAMBS AT THE FORT WORTH STOCK-YARDS, BY COUNTY, 1958

County	Transporta- tion cost <sup>1</sup>	Cost at market <sup>2</sup>	Total cost <sup>3</sup>			
	Dollars					
Gillespie	.42	.42	.84			
San Saba	.30	.42	.72			
Menard	.39	.42	.81			
Uvalde	.59	.42	1.01			
Sterling	.46	.42	.88			
Crockett	.54	.42	.96			
Val Verde	.62	.42	1.04			
Pecos	.69	.42	1.11			
Presidio	.84	.42	1.26			

Based upon distance from county seat to Fort Worth and current Texas Railroad Commission tariffs for a load of 16,000 pounds.

costs. In Sterling county, long hauling is to delivery points was the major cause of tively high transportation costs per head in portation costs averaged 45 cents per head in ling county. Uvalde, Pecos and San Sahaties had the lowest transportation costs per Most shipments in these counties, with the ception of Pecos county, were for relatively distances. In Pecos county, large shipments relatively light-weight lambs were partly resible for low transportation costs per head

For purposes of comparison and for the ance of producers attempting to evaluate at alternative market outlets, cash costs of keting sheep and lambs at the Fort Worth syards, are shown in Table 13. Cash costs head decline significantly as the size of comment increases.

In addition to costs at the market, trap tation costs must be taken into consider Transportation charges vary with distance with load size. In Texas, transportation are regulated by the Texas Railroad Commiscopies of the latest tariffs may be obtained the commission.

The distances from county seats to Fort W were used to compute transportation costs load of 16,000 pounds also was used. Estimocash costs of marketing sheep and lambs at Worth (including transportation) are contain Table 14. Since the cost at market was as ed to remain constant, variations in total or reflect differences in transportation charges

# Prices and Net Receipts

Prices received for their products constraint an important concern of sheep and lamb prices. Three aspects of prices are important general level of sheep and lamb prices, seas variations in prices within the year and at prices received by producers.

The general level of economic activity with the nation, feed supplies and livestock numbers also affect the general level of sheep and in prices. Seasonal changes in prices are caused natural factors such as lambing time, grain seasons and marketing periods. Prices used are highest in the spring when marketings are highest in the summer and fall who marketings are heaviest. The season in which the producer sells his sheep and lambs is prably the most important single factor affect the price he receives.

Lamb prices tend to be highest seasonally the spring and lowest during the summer fall, Figure 6. During the 8 years, 1952-59, proof slaughter lambs on the Fort Worth man rose an average of 23 percent from December May. From May to December, they fell reliable to the proof of t

Includes commission, yardage and feed charges based upon current tariffs for the Fort Worth market and based upon a shipment of 200 head.

<sup>&</sup>lt;sup>8</sup>Allowances for shrinkage, death loss, crippling and such are not included.

tradily. Prices of feeder lambs were highest on the average during the late winter and early wing, reaching a peak in February and March. Lowest prices of feeder lambs occurred in July, after which, they began a slight rise.

Some important factors affecting prices at be local market level are location, the particular marketing channels used, shrinkage and the qualtum finish of lambs sold.

Accurate differential shrinkages by market utlet are not available. Shrinkage varies by me of market and by handling methods. Shrink-R especially "pencil" shrinkage, can be an imartant factor affecting prices. Producers often we faced with offers of different prices coupled th different shrinkage allowances. To assist making decisions of this type, Table 15 was breloped. Offering prices with specified perstages pencil shrink deducted are shown. For cample, if the offering price for a group of mbs were \$18 with a 6 percent shrink, the price atually received would be \$16.92. Conversely, 1 of \$17.50 by another buyer with a 3 perent shrink would result in an actual price of

Prices received, marketing costs, date of sale as all conditions were obtained from the ranchmateriewed. Important items lacking for an acquate analysis of prices were quality and finand shrinkages. However, bearing in mind as limitation of the data, some tentative constants appear to be in order.

Glespie, San Saba, Uvalde and Sterling my ranchmen averaged more than \$17 per adredweight for their lambs in 1956. anties had significant numbers of lambs sold that lambs during the spring. In addition, a ther percentage of their lambs were sold at and markets. These factors, along with heavamb weights, probably accounted for the ar average prices received in these counties. kett and Pecos were the only counties averless than \$16 per hundredweight for lambs. as received on a per-head basis corresponded eally with the hundredweight prices. ay lambs sold by the head and those so selling by were very lightweight feeder lambs. On whead basis, prices received in San Saba by were highest, with Gillespie and Menard aties next, in that order.

#### ARKET PRICE COMPARISONS

it is difficult to compare prices at alternative dets; however, they provide a general indimof the situation which prevailed. To evaluate they were compared with actual average as for the same months on the Fort Worth dyards. The results are shown in Table 16. It counties selling fat lambs, weighted averages received for lambs sold in April and were below the average prices received for

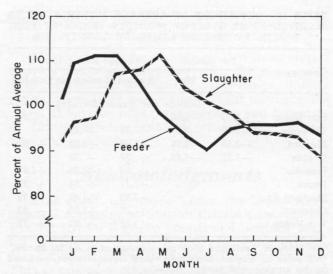


Figure 6. Seasonal variation in prices of feeders and slaughter lambs at Fort Worth (1952-59 average = 100).

slaughter lambs on the Fort Worth market during these months. The deviations were lowest in April, averaging —\$1.12 per hundredweight, compared with —\$4 per hundredweight during May.

On the other hand, average prices per hundredweight received for stocker-feeder lambs sold during August, September and October were higher than the average monthly prices reported at Fort Worth during these same months. Average deviations for these months were \$1.32 per hundredweight for August, 89 cents per hundredweight for September and 85 cents per hundredweight for October. Sterling county had the highest deviations at \$2.60, \$1.67 and \$1.32 per hundredweight for August, September and October, respectively.

These comparisons cannot be accepted at face value because of the previously mentioned limi-

TABLE 15. COMPARATIVE LAMB PRICES, DOLLARS PER HUNDREDWEIGHT, WITH SELECTED SHRINKAGE ALLOW-ANCES

Offering price	Shrinkage allowance, percent				
	2.0	3.0	4.0	6.0	
		— Dollars —			
21.50	21.07	20.85	20.64	20.21	
21.00	20.58	20.37	20.16	19.74	
20.50	20.09	19.88	19.68	19.27	
20.00	19.60	19.40	19.20	18.80	
19.50	19.11	18.92	18.72	18.33	
19.00	18.62	18.43	18.24	17.86	
18.50	18.13	17.94	17.76	17.39	
18.00	17.64	17.46	17.28	16.92	
17.50	17.15	16.98	16.80	16.45	
17.00	16.66	16.49	16.32	15.98	
16.50	16.17	16.00	15.84	15.51	
16.00	15.68	15.52	15.36	15.04	
15.50	15.19	15.04	14.88	14.57	
15.00	14.70	14.55	14.40	14.10	

Source: "Livestock Marketing Handbook," Western Livestock Marketing Research Committee.

TABLE 16. DEVIATIONS OF AVERAGE MONTHLY PRICES RECEIVED FROM AVERAGE MONTHLY PRICES AT FORT WORTH, BY TYPE OF LAMBS, BY COUNTY, 1956

County	Fat lambs <sup>1</sup>		Stocker-feeder lambs <sup>2</sup>		
	April	May	August	September	October
		- Dollars	per hun	dredweight	
San Saba	-1.00	-3.60			
Gillespie	-1.50	-2.30	+ .37	+ .99	
Menard	-3.50	-3.25	+1.48	+1.68	+ .92
Uvalde	-1.25	-4.80	+ .77	26	
Presidio			+ .97	+1.24	+1.22
Pecos			+1.11	+ .24	+ .47
Sterling			+2.60	+1.67	+1.32
Crockett			+1.12	+1.03	90
Val Verde			+1.25	+ .64	+ .72

<sup>1</sup>All sales in April and May were assumed to be fat lambs. <sup>2</sup>All sales in August, September and October were assumed to be stocker and feeder lambs.

tations in the data. However, since Fort Worth is most widely known as a slaughter lamb market, these general relationships very likely could prevail. Price reports from the Fort Worth market may be a more accurate barometer of the fat lamb market than of the stocker and feeder lamb market.

#### NET RECEIPTS

Average net receipts per lamb varied considerably among the counties and among the marketing channels. Those ranchmen who sold directly to packer buyers reported receiving the highest net receipts per lamb. Ranchmen selling through central markets received next highest net receipts per lamb; while those selling to feeder buyers received the lowest net receipts per lamb. Usually, those lambs sold directly to packer buyers and through central markets were relatively fat, while those sold to feeder buyers were usually a light feeder type. Much of the difference in net receipts between packer and central market sales and feeder sales can be attributed to the lamb weights and the higher prices per pound received for fat lambs.

TABLE 17. AVERAGE SIZE OF SHIPMENT, WEIGHT PER HEAD, NET RECEIPTS PER HEAD AND PER POUND OF LAMBS SOLD, BY COUNTY, 1956

County	Size of shipment		Net receipts per head¹	Per pound
E111	Number	Pounds	Dollars	Dollars
San Saba	633	83	\$16.47	\$ .20
Gillespie	109	76	10.60	.15
Menard	331	75	11.76	.16
Uvalde	638	75	13.86	.18
Presidio	1080	66	10.28	.15
Pecos	766	64	8.45	.13
Sterling	796	74	11.81	.16
Crockett	1058	70	10.11	.14
Val Verde	1545	66	10.27	.16

<sup>1</sup>Deducting only transportation and other cash marketing costs.

San Saba county ranchmen received the est average net receipts per lamb for all my sales at \$16.47. Uvalde county ranchmen received relatively high average net receipt head, while Pecos county ranchmen receipt average net receipts per lamb at Gillespie, Menard, Presidio, Sterling (mand Val Verde county ranchmen average) to \$11.81 net receipts per lamb.

Table 17 shows that average net receipt head were highest in San Saba and Uvalde ties. It also shows the relationships between average lamb weights and average net reper lamb in each county. In the three countries where net receipts were highest, the are weight of the lambs sold also was relatively. In Crockett, Val Verde and Pecos counties, average lamb weights were low, average as ceipts per head also were low.

In Gillespie, San Saba, Menard and In counties, where the size of shipment aver less than 700 head, average lamb weights relatively high. The location of the county be the principal factor affecting lamb were however, the size of operation might also factor to be considered in the finish and cond of lambs sold. On the smaller operations to in San Saba, Gillespie and Uvalde counties. care and attention can be given to ewe lambs, while the larger flocks located far west may not have received the care to smaller flock would. Also, in San Saba Uvalde counties, the relatively high percent of "old crop" lambs sold in the spring income the average weights of the lambs sold.

### Recommendations

Sheep and lamb producers should be an of the various marketing outlets available. It producer's choice of a market outlet is basely marily on consideration of net returns, he shoulded consider the price per hundredweight that he likely receive on the various markets. He ashould consider expected shrinkage, transportion costs, death loss and handling charges at various market outlets. In some cases, market costs can offset the higher prices received a particular market. Other factors such as a venience and price risk may be considered in lecting the appropriate outlet.

Producers should seek bids from anyone terested in their lambs. In addition, they she seek the advice of commission-firm salesment auction-market operators before deciding whand where to sell. All available market information also should be evaluated carefully.

Natural factors such as breeding and grain seasons and range conditions tend to affect to large extent the time sheep and lambs are no keted in Texas. Other than these natural for ess, some of which cannot be altered easily, seemen should base their marketing time on a number of head to be sold, the available feed apply, local demand and prices and the degree finish of the animals.

Marketing agreements involved in direct sales omay affect net returns to the sheep and lamb oducer. Pencil shrink, preweighing conditions of the distance to the weighing point affect the agreements are not necessary in a distransaction. Neither pencil shrink nor presching conditions are necessary in direct sales the distance to the weighing point is far enough allow for adequate shrinkage. Sheepmen allow for adequate shrinkage. Sheepmen to the distance to the weighing point is far enough allow for adequate shrinkage. Sheepmen to the distance to the weighing point is far enough allow for adequate shrinkage. Sheepmen to the distance to the weighing point is far enough allow for adequate shrinkage. Sheepmen to the distance to the weighing point is far enough allow for adequate shrinkage. Sheepmen to the distance to the weighing point is far enough allow for adequate shrinkage. Sheepmen to the distance to the weighing point is far enough allow for adequate shrinkage. Sheepmen to the distance to the weighing point is far enough allow for adequate shrinkage. Sheepmen to the weighing point is far enough allow for adequate shrinkage. Sheepmen to the weighing point is far enough allow for adequate shrinkage.

Sheep and lamb producers often can realize preased returns if they sell their sheep and miss in lots sorted according to quality and fininstead of in unsorted lots.

To Forfeit payments should be a significant porgh in of the expected value of sheep and lambs on be patract sales. Also, minimum and maximum

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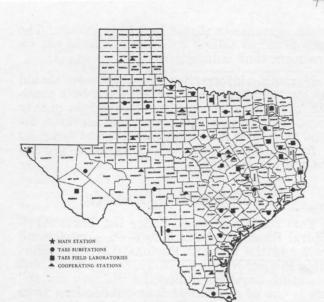
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weight agreements should be within reason. The sheep producer selling by contract should use an agreement that is legally sound.

Marketing information or market news should provide the sheep producer with the best available information concerning price range, quality range, receipts at various important markets, demand at various important markets and forecasts of future developments affecting lamb production and marketing.

# Acknowledgments

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Location of field research units of the Texas Agricultural Experiment Station and cooperating agencies

# State-wide Research

The Texas Agricultural Experiment Station is the public agricultural research agency of the State of Texas, and is one of ten parts of the Texas A&M College System

# ORGANIZATION

U. S. Department of Agriculture, University of Texas, Texas Technology, College, Texas College of Arts and Industries and the King Ranch. Sexperiments are conducted on farms and ranches and in rural home.

THE TEXAS STATION is conducting about 400 active research projects, greating 25 programs, which include all phases of agriculture in Texas.

IN THE MAIN STATION, with headquarters at College Station, are 16 at matter departments, 2 service departments, 3 regulatory services administrative staff. Located out in the major agricultural areas of Ten 21 substations and 9 field laboratories. In addition, there are 14 courses

stations owned by other agencies. Cooperating agencies include the Forest Service, Game and Fish Commission of Texas, Texas Prison Su

### **OPERATION**

these are:

Conservation and improvement of soil
Conservation and use of water
Grasses and legumes
Grain crops
Cotton and other fiber crops
Vegetable crops
Citrus and other subtropical fruits
Fruits and nuts
Oil seed crops
Ornamental plants
Brush and weeds
Insects

Plant disc

Beef cattle
Dairy cattle
Sheep and goats
Swine
Chickens and turkeys
Animal diseases and parasits
Fish and game
Farm and ranch engineering
Farm and ranch business
Marketing agricultural production
Rural home economics
Rural agricultural economics

Plant diseases

Two additional programs are maintenance and upkeep, and central serior

Research results are carried to Texas farmers, ranchmen and homemakers by county agents and specialists of the Texas Agricultural Extension Service AGRICULTURAL RESEARCH seeks the WHATS, the WHYS, the WHENS, the WHERES and the HOWS of hundreds of problems which confront operators of farms and ranches, and the many industries depending on or serving agriculture. Workers of the Main Station and the field units of the Texas Agricultural Experiment Station seek diligently to find solutions to these problems.

Joday's Research Is Tommorrow's Progress