# NORTH CAROLINA AGRICULTURAL EXTENSION SERVICE

N. C. STATE COLLEGE OF AGRICULTURE AND ENGINEERING
AND
UNITED STATES DEPARTMENT OF AGRICULTURE
COOPERATING
1.0.SCHAUB, DIRECTOR

# NARRATIVE REPORT

1938

mp. case

# DAIRY CATTLE, BEEF CATTLE, SHEEP, SWINE, AND HORSES

Report Only This Year's Extension Activities and Results That Can Be Verified

1	THEM THEM	Dair: cattle	Beef cattle	Sheep (c)	Swine	Horses and mules	Other livestock <sup>1</sup>	
214	. Days devoted to line of work by:	(4)	(6)	(c)	(d)	(e)	()	-
	(1) Home demonstration agents			-				h
153	(2) 4-H Club agents	-	95	50		69	/6	214
	(3) Agricultural agents		4298203	161.9.9.7		290.6	37.2	214
915	(4) Specialists	1	86 96.5	50 3615		28.0	14	J
216	Number of voluntary local leaders or committeemen assisting		33	14 21.05	antesan-ing	# J2	3 89	215
217	Days of assistance rendered by voluntary leaders or committeemen		33 158	14 62.		23	3	216
218	Number of adult result demonstrations conducted.	The State of	48 /48 /6.0	23	7.73.74.75	4119.0	3.0	217
	Number of meetings at result demonstrations.	H-ma	23	9	6	-47	, 19	218
	Number of method-demonstration meetings held.		26 62	15		, 7		219
	Number of other meetings held.		31 00	9 471	4	80	2	220
	Number of news stories published	1	48	19	2	4	3	221
	Number of different circular letters issued.	-	27	21	//	55	+ 1#	222
	Number of farm or home visits made.		3 148	47	6	1	10	223
	Number of office calls received.		82 4 845	47	ritter mains of	7000	14	224
000	(1) Boys		30	11	7	4	6-1-62	225
226.	Number of 4-H Club members enrolled. (2) Girls		3 18		The second of		7	226
227.	Number of 4-H Club members com- (1) Boys		138	10 12	1	3	6	Taxo.
	pleting.		3 16	OK O BITEROLE	con dell'	HA P	/	227
220.	Number of animals in projects conducted by 4-H Club members completing		27 184	136	- /	3 35	29	228
229.	Number of farmers assisted in obtaining purebred sires. Number of farmers assisted in obtaining high-grade		50 185	23 87	metor dal 25	31	Williable	229
	or purebred females.  Number of bull, boar, ram, or stallion circles or clubs	400000000	325	20	2.	185	21	230
	organized or assisted		7		and property of	3	TOPOLOGICA .	231
232. 233.	Number of members in preceding circles or clubs	ananda	127	24	Lestrine et	202	radaus)	232
	organized or assisted.	ilbono zo		Seislan al	Bofsissa in	Diction 1	Totalam V	233
234. 235.	Number of members in these associations	redto re	P	18	habelies or	DATES TO	Total Land	234
236.	Number of families assisted in home butchesing	The same	9-16-	23	OHA 110 79		2	235
237.	Number of families assisted in butter and cheese mak-	xxxx	158	13	x	xxx	19	236
	Number of farmers following parasite-control recom-	uduota	xxxx	xxxx	xxxx	xxx	xxxx	237
	Number of farmers following disease-control recom-		27 121	293	THE PERSON	431	4-	238
	Number of farmers following marketing recommenda-	talmin usflbas	11 340	120	2	299	203	239
	Number of farmers essisted in using timely		31 559	14 le 5.7.	75	82	3	240
1	information as a basis for readjusting enterpriseo not include rabbits, game, and fur animals, which should be reported	under Wi	833	544	TOTAL DE ST	553	75	241

# AGRICULTURAL ECONOMICS

Report Only This Year's Extension Activities and Results That Can Be Verified

							Public problems	FARM	MANAGI	EMENT			1
			ITEM				and eco- nomic plan ning on county or community basis <sup>1</sup>	Farm rec- ords (in- ventories, accounts, etc.)	Individual farm plan- ning	Farm and home fi- nancing (short and long time)	Outlook	Marketing buying, selling, an financing	d
-					-		(a)	(6)	(c)	(d)	(e)	O	1
244.	Days devo	oted to lir lome dem	ne of work onstration	by:	LUCY TR					aslama I	ottelline	100	
	(2) 4-	H Club a	gents	-45	FE #9.								1
	(3) A	griculture	al agents			ORCERNA.	Liberan	August Street	Server dela				
	(4) S <sub>1</sub>	pecialists					10000000	YELDINGO:	TO RELIGIOUS		ASSESSED TO		-11-
245. I 246. I	Number of Number of	commun	ition in m	biolom - 1						***********	noday.		2
	Days of as	sistance	rendered 1	by volum				entage e amiliar	and the state of	and dute	e diala i	To leave	2
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	Number of								15.6				24
50. N	Number of	method-d	lemonstra	tion most	tings bald								24
51. N	Number of	other me	etings bel	a a meet	ungs neid.						4 F WOLL 2	*andronis	25
52 N	Jumber of	nows at	deniga ner		11.27					1000000	STREET, STREET		25
E9 N	Number of	news stor	ries publis	hed					OTHER MAN	ly mund p	of forms to	- Fintern Z	25
00. 1	Number of	different	circular lei	tters issu	ed					droor all a	a serific )	- Property	25
54. N	Tumber of	farm or h	ome visit	s made			-	(to ne					25
55. N	Tumber of	office call	s received	L	- No.			LD 653		-	S-S-SA-SA-SA-SA-SA-SA-SA-SA-SA-SA-SA-SA-		25
66. N	fumber of rolled	4-H Cl	ub memb		(1) Boys (2) Girls.		xxxx	os any	-			xxxx	25
57 N	tunal and d						Total Par	4 10 10 10	*********	XXXX	xxxx	xxxx	.84
00	umber of pleting	4-H Clu	b member				xxxx -			xxxx	xxx	xxxx	055
		200			(2) Girls.		XXXX		The state of the	xxxx	xxx	xxxx	257
8. N	umber of f	armers ke	eping fari	n accoun	ts through	hout the	year und	ler superv	rision of a	gent{	(a) Regu	lar}	250
9. NI	umber of f	armers ke	ening cos	t-of-prod	notion	CONTRACTOR SANCE					(b) A.A.	1	250
1. Ni	umber of f	armers as	sisted in r	naking i	ang tinu i	neerbre	ung their	accounts			Lancour Contract		260
2. Nu	umber of fa	armers as	sisted in o	btaining	credit	or creur	t stateme	nts		2001 30			261
4. Nu	imber of fa	armers as	sisted in r	naking n	ortgage o	r other	debt adju	stments.					$\frac{262}{263}$
5. Nu	imber of fa	arm busin	less or ent	ornrico e	ood in org	amaing	during ti	ie year					264
3. Nu	imber of fa	rmers ma	king recor	mmended	l abanasa i	- 41	cen durinț	year					265
7. Nu	mber of o	ther farm	ers adopt	ing cropp	oing, lives	tock, o	r complet	e farming	systems	according			
3. Nu	mber of fa	rmers ad	vised rela	tive to le	eases						20 L		267
). Nu	mber of fa	rmers ass	sisted in d	levelopin	g supplem	nental s	ources of	income	Parter sprin	restut seem	Constratores	ortonion 2	268
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	(b) By 1 (c) By 1			- macili	югу					State of the last		Surphy )	
	11 7	partering	farm or h	ome pro	ducts for	other co	ommoditi	es or serv	ices		1121 112	1000000	

1938

ANNUAL REPORT

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EXTENSION WORK IN ANIMAL HUSBANDRY

IN

NORTH CAROLINA

By: L. I. Case, SPECIALIST IN ANIMAL HUSBANDRY.

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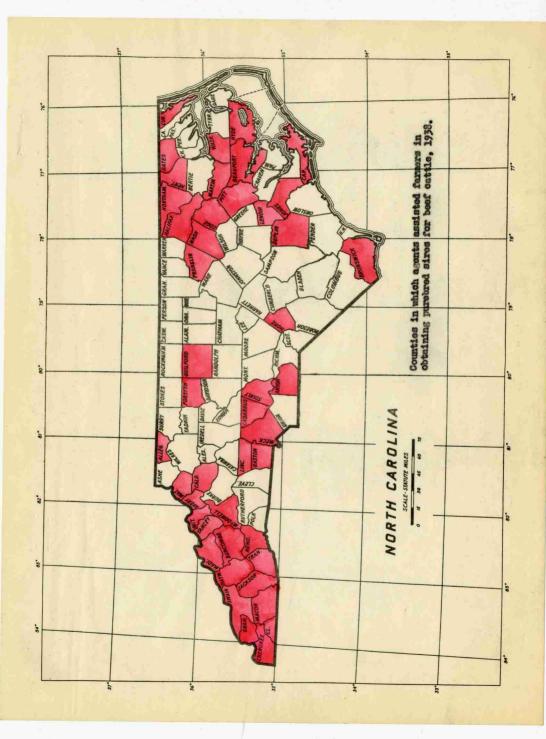
#### INTRODUCTION

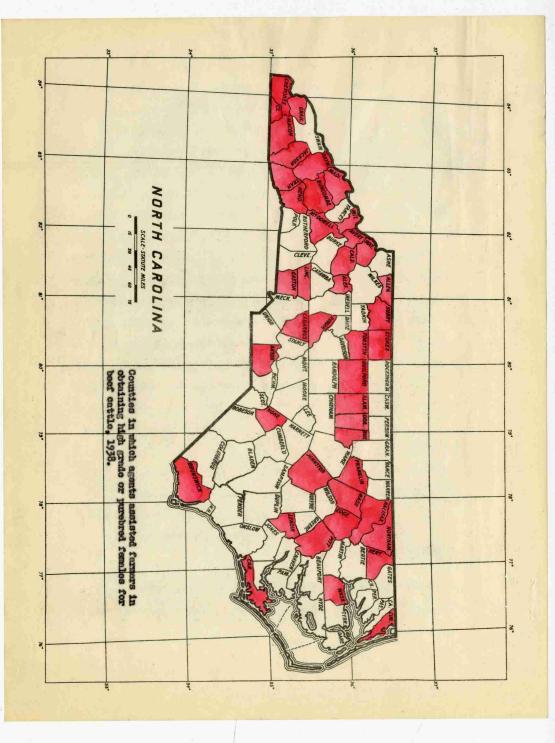
Ninoteen hundred and thirty eight resulted in greater progress in the Animal Husbandry field in North Carolina than any year during the past decade. This was especially true in respect to beef cattle and the calls for breeding stock were so numerous and strong that our normally surplus areas were unable to supply the demand with the result that approximately fifteen hundred head of females were shipped into the state from Texas, Nebraska and other western states. Several factors are responsible for this unusual interest. The Soil Conservation Program is increasing the supply of available feed. The majority of cotton farmers feel that the boll weevil and declining market outlets are sounding the doom of that crop. Cattle prices have been high in comparison with most other farm commodities.

In addition to increased interest in greater numbers of beef cattle, quality improvement is gaining more and more advocates each year. It is believed that 4-H Beef Calf Club work, show yard competition for 4-H Club members and adults, and increased knowledge of U. S. Standard grades are all playing an important part in this interest in better cattle.

#### I. BEEF CATTLE PROJECTS

Deterioration in the quality of our state beef cattle went on for many years. The main reason, we believe, for this was the high percentage of medicare bulls in service which resulted in many low grade steers and heifers being produced. This lowering of quality was seriously handicapping the market for our feeder steers in Southwestern and Northern





Virginia. For these reasons the replacement of common bulls with better type animals has been one of our main lines of work in 1938.

#### A. Boef Bull Placement

The problem of beef bull replacements was attacked:

- 1. By having each county agent where possible include this work in his plans for the year. Each agent set up a definite goal for the placing of a certain number of purebred beef bulls in his county during the year.
- 2. By using every means possible to make fermers conscious of better cattle. (a) News articles. County agents in 48 counties used a total of 159 news articles relative to better bulls and better breeding generally in 1938. (b) Circular letters. A total of 66 circular letters were used by 27 county agents in calling attention to beef cattle improvement through improved breeding. (c) Meetings. Eighty-nine beef cattle meetings were held in 31 counties. (d) Farm visits. Extension workers made 3148 farm visits in connection with beef cattle improvement. (e) Judging contests and judging demonstrations. One hundred twenty-seven 4-H Club boys and forty-eight adults took part in two major judging contests held in the state during the year. (f) Fairs and exhibitions. Four state or regional exhibitions of beef cattle and numerous community and county shows were held during the year. It is thought, however, that these small shows create considerable interest in live stock improvement. Beby beef club work is very definitely calling attention to better cattle.
- 3. Selection and purchase of bulls. The large majority of beef bulls placed during the year were by individual selection and purchase, the county agent or specialist assisting with the transaction.

Boof bull placements planned 139
Actual number placed 185

Several of these bulls were rather outstanding individuals selected to head purebred herds at prices of \$2500.00, \$1000.00 and on down to from \$200.00 to \$500.00

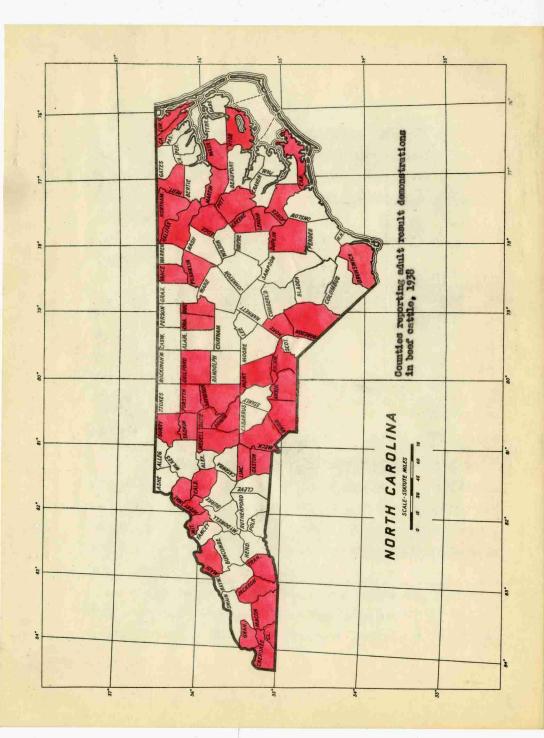
#### B. Breeding Herds Established

One of the limiting factors in beef cattle improvement in the state is an inadequate supply of good breeding cattle. Considerable time and much effort has, therefore, been spent in encouraging the owners of purebred herds already established and in the starting of new herds on farms where it was thought that enterprise practical.

Three hundred twenty farmers in forty-three counties of the state were assisted in obtaining purebred or high grade females during the year. Two breeders of Polled Herefords added two car loads of excellent breeding cattle to their herds. These were purchased from some of the best herds in the west.

#### C. Feeds and Feeding

Work under the heading of Feeds and Feeding was carried on in very much the same way as outlined under the provious project heading. Much of this work is reported under the heading of Agronomy but as this is the foundation of the live stock industry it will bear repetition. No attempt has been made to separate these figures according to types of live stock raised.



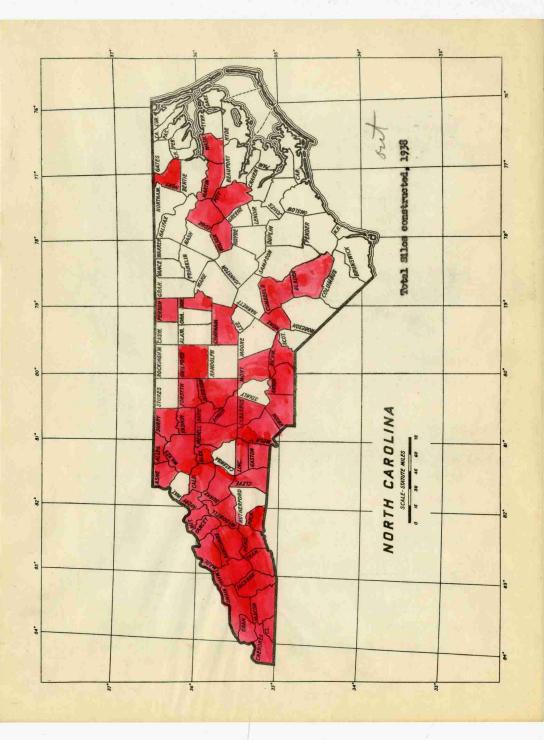
1. Pastures. There is no question but what pasture is the foundation of economical live stock production. Much more research is needed along this line. However, there is a great deal that can be done with our present knowledge of adapted varieties, fertilizing practices and better care and management of our pastures.

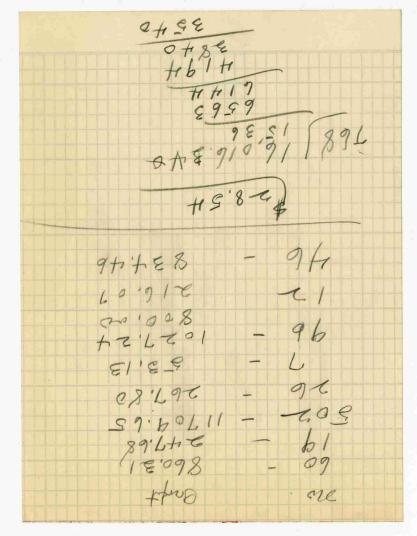
That this state is making progress I think is evident by the following statistics:

	No. Counties Reporting	No. Demonstra- tions, etc.
Result pasture demonstrations	76	1159
Meetings at demonstrations	47	143
Pasture news articles published	71	219
Circular letters in regard to pasture	61.	159
Farmers following fertilizer recommendations - pasture	75	4477
New pastures established	63	1786

2. Silos and Silage. The use of silage in the winter feeding of beef cattle is becoming more and more popular. No doubt the introduction of the trench silo has had much to do with this increasing popularity. Corn is the main crop used for silage, although cane is used to some extent and experimental work is being done in the use of grasses and legumes with black strap molasses added to correct acidity.

During the year 224 silos were built in 51 counties. These were built on all types of live stock farms and no attempt has been made to determine how many of these were constructed on beef cattle and sheep farms.





J. Cover Crops. It is believed that too much emphasis cannot be placed upon the advantage of winter cover crops for wintering cattle and sheep. This advantage is particularly great on the sandy loam soil of the Coastal Plain and Tide Water sections of the state. On this type of soil live stock can graze practically all winter without regard to the moisture condition of the soil. Many of our flocks of sheep in Eastern North Carolina make their entire living on fields of Abruzzi Rye, other small grains, and winter legumes. Many of our best cattle farmers winter their herds of dry cows and other mature cattle on field gleanings and winter cover crops. These cattle in many instances never secure any harvested feed nor are they kept under roof the entire winter.

It is impossible to make a statement relative to the increasing use of winter cover crops in the state, although without question this practice is increasing to a considerable extent.

#### D. Fattening Cattle for Market.

The winter of 1937-38 due to an unfavorable outlook and consequent advice to go easy, resulted in a considerable decrease in the feed lot fattening of cattle. Last fall however, more than the normal number of cattle were put in the feed lot and good returns from feeding operations are in prospect. Approximately 2000 head are on feed, the majority of which are being handled under the guidance of extension workers.

Special forms are in use for the securing of records of cattle feeding. One of these records follow. This farmer has shown a very low credit for the manure produced. We suggest an average credit allowance of \$4.00 per ton for this item although the usual value is placed at \$2.00.

Attention is called to the fact that this record is for a truck load of cattle. We are encouraging the fattening of cattle either in large or small numbers with the production of manure for soil building the main thought in mind. It is felt that this is practical on most any type or sized farm where the keeping of a breeding herd is only adapted to special farms where adequate pasture is available.

#### E. Management.

Managerial practices, especially in Eastern North Carolina are of a low order. This is due largely to the fact that in most cases cattle raising in this section of the state is of minor importance and the so called cash crops are given first consideration. Among the things that are being attempted in a corrective way are as follows:

- 1. Controlled breeding. (a) To have calves dropped in the spring of the year. (b) Prevent heifers from getting bred too young.
  - 2. Castration and dehorning of calves at proper age.
- 3. Adequate shelter and dry feed lots in order to conserve feed and mamure.

During the year 181 herd management demonstrations were conducted in 48 counties. There were 62 meetings held on these farms during the year and they were frequently visited by the county agent, and as often as possible by the specialist.

Surry

4.00

County
Name of Feeder I. W. Barbor Address Mt. Airy, N. C.
No. of Head Fed 7 Age 2 to 3 yrs. Sex Formale
Total Buying Wt. 4835 lbg.ver. Wt. 690.7 Place Mt. Airy Date Doc. 1, 1937
Total Wt. Unloading Pt. 4835 Av. Wt. 690.7 Shrink None assumed
Total Wt. When Put on Feed 4835 (a) Aver. Wt. 690.7 Date Dec. 1, 1937
How were cattle handled between time received and time started on feed? On Doc. 1, 1937, the cattle were brought by truck from the range on the mountains
to the stock yard at Mt. Airy, N. C., unloaded, weighed, reloaded, and taken to the feeding shed on the farm 20 miles and started on feed at once. They were on full feed
in about four weeks. They were weighed again on March 2, 1938, at Mt. Airy and sold.
Total Home Wts. When Sold 5875 (b) Aver. Wt. 839.3 Date March 2, 1938
Total Gain Feed Lot (b) minus (a) 1040 Aver.Gain 148.6 Av. Daily
Gain 1.63
Total Wt. at Stock Yards 5875 Aver. Wt. 839.3 Shrink
Financial Statement
Cost of Value of Feeder Cattle

CATTLE FEEDING RECORD

Total Initial Cost or Value 197.40 Sale Price: At Home At Stock Yards 352.50 No. Head 7 at 6 cts. per lb. Total \$ 352.50 No. Head at cts. per lb. Total \$ No. Head at \_\_\_\_cts. per lb. Total \$ Grand Total \$ 352.50 Freight and Stock Yard Charges to Market (Trucking) 4.00 Commission Charges 0.00 Total Marketing Costs 4.00

Freight and Other Charges to Farm (Trucking)

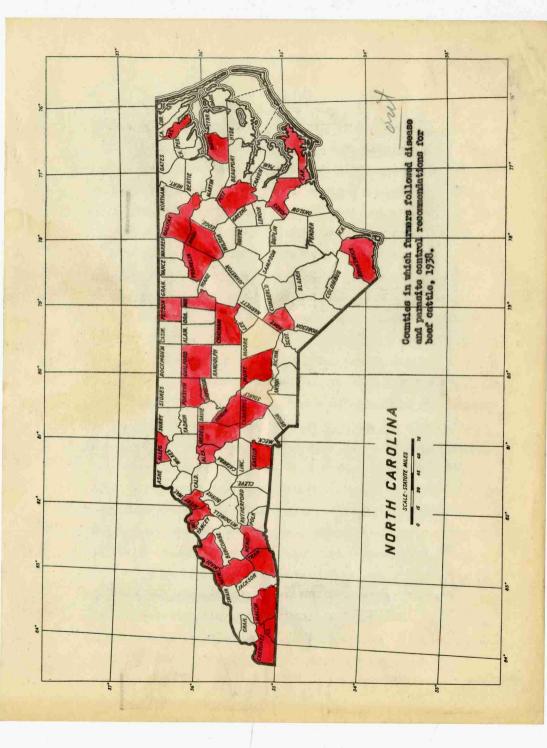
Further Explanation: This little bunch of cattle included 7 grade Herefords and, I think, would be classed as fair feeders. They were not weighed at the farm; only the stock yard weights at Mt. Airy were used in both buying and selling. The cattle had been brought perhaps 25 miles by truck before being weighed when bought, and then taken 20 miles further to the feed shed. When sold, they were taken by truck from the feed shed to the same stock yard and weighed. When cattle were on full feed, they received and consumed each per day: C.S.Meal 3 lbs.; Shelled corn 12 lbs.; Corn silage 21 lbs; and dry roughage, corn fodder, wheat straw, and a little grass hay.

#### Feed Consumed in Feed Lot.

Kind Amou	nt How Fed#		Farn	n Value*
White corn 7066	Shelled - put of	on silage	\$	104.58
C.S.Meal 2331	On silage	e \$1.40 per 100 1	Lbs.	32.63
Corn silage 6.	61 tons © \$8.00			52.88
Salt				2.85
Dry feed - hay and	top fodder (corn fo	ddor)		19.52
Pork \$28.35 plus 7	pigs 0 \$5.00 = \$350 rom Pigs Followin	tel Feed Cost C	attle .Total Valu	212.46 \$ (f) 63.35 ne \$ (g)
	nerals Consumed 20	The second secon		\$ 5.00
	n Supplement Cons		Cost	\$ 10.95
Corn	amounts of Other	Feeds Fed to Ho	gs: Cost	11.50 \$
Buttormilk		- Alles	Cost	\$
Paid for care of	two sows at farrowin	R orner	Cost	\$
	Total Cost	of Pork Produce	edb	\$ (h)
	Profit on H	Hogs (g) minus	(h)	\$ ( <u>i</u> )
	Sun	nmary		
Total Cost or Va	lue of Cattle (c)			Lines in the
Marketing Cost	(cattle) (e)			Visit III
Feed Cost	(cattle) (f)	\$		management wanted Trans
Total Cost (c) p	lus (e) plus (f)-			413.86 \$(j)
Profit or Loss	(cattle) (d) min	nus (j)		61.36 \$ (k)
	n Cattle and Hogs		Loss	\$ 47.96
Estimated Manure		Tons	Value	52.50 (m)
	Manure (1) plus	(m) Profit \$4.54		<u></u>

<sup>#</sup>Designate whether ground or whole. In case of corn, whether broken ear, shelled, corn and cob meal, etc. etc.

<sup>\*</sup>Show value on farm at beginning feeding period.



#### F. Beef Calf 4-H Club Work.

Beef calf club work was started in North Carolina in 1935. This work has been built around a Fat Cattle Show held at Asheville for the past four years and spensored by the Asheville Chamber of Commerce. In 1936 a small premium list was added to the State Fair list of awards and this was increased considerably in 1937 and again in 1938. During the past year 199 boys and girls were enrolled in beef calf club work from 26 counties. It is interesting to note that 138 boys completed their projects while every girl that enrolled went through to completion.

There has been a steady improvement in the quality, conformation and condition of the cattle shown and the interest in better cattle is very noticeable in sections where this type of club work is being carried on.

when beef calf club work was started in 1935 at Asheville many were of the opinion that we should have a feeder calf show rather than a fat cattle show at that point because Asheville is in the center of a feeder cattle producing area. The majority of the county agents, however, were in favor of a fat cattle show and the classes were set up on that basis in 1935 and 1936. In 1937, however a Feeder Calf Class was added with only two entries. Good prices and good profits were realized from them and in 1938 twelve entries from seven counties were shown. It is expected that this class will continue to increase its popularity and numbers as time goes on.

Another class that was added in 1937 was a Get-of-Sire Class. The purpose was to encourage the production of the right kind of cattle at home rather than to find it necessary to import calves for club work each year. This class calls for three steers bred, owned and exhibited from one county and the get of a registered bull of one of the beef breeds.

talky + tolub from this exchain of premium of \$24 40.18, Inducting the losses. \$# 133.81 on pleren had - the 80 head make a drofit of \$2306.37 or an arrange \$28.83 on head. When prize money is included on 5 out } To head bot money, and the average grofit on the total secuntar mas # 47.04 per head. Totals For Rosky Int., Aherille + N.C. State Fair. 140 head - 105723 lb = \$13,257.50

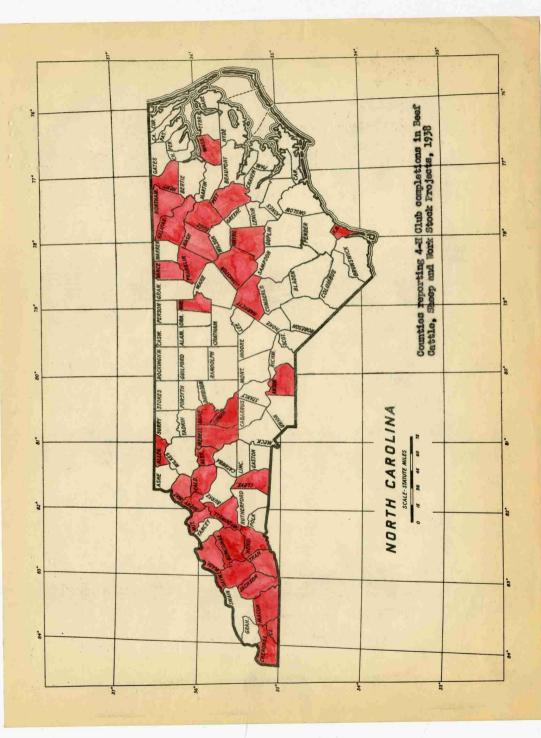
Condition cows for Feb. colving. If necess 8 481 of nor the that much some 48.2 ale For Richy my

A third fat stock show was started in 1938. This was at Rocky
Mount, North Carolina and was sponsored by the Chamber of Commerce. This
show consisted of classes for fat cattle and hogs. There were only a small
number of entries in the cattle department this year largely due to the
unfavorable outlook for cattle prices. Some increase is expected in 1939.

County agents were requested to furnish reports of financial returns derived from 4-H Baby Beef Club work in 1938. Reports on only 36 steers were received and these showed profits made on 35 and a loss on one.

Deducting the loss from the profits we have a total profit of \$1791.55 on the 36 head or an average profit of \$49.76 per calf. These figures include cash awards.

Reports of awards and resume of sales at Asheville and the State
Fair follow:



#### Class 1 Light Weight

1	\$15.00	Maston Hodges	Watauga County
2	12.00	Joe Brown	The state of the s
3	10.00	Burl Greene	
4	9.00	Carmen Curto	Transylvania County
5	8.00	J. D. Wallen	Madison "
6	7.00	Gay Snelson	Buncombe
7	6.00	Fred Bryan	Madison "
8	5.00	Wayne Thompson	Bunc ombe "
9	4.00	David Farthing	Watauga
10	3.00	Burl Greene	# III

#### Class 2 Medium Weight

1	\$15.00	Frank Mast	Watauga County
2	12.00	Council Henson	No. of the last of
3	10.00	J. C. Dockery	Buncombe #
4	9.00	Romulus Dockery	9.0
5	8.00	Gilbert Edmisten	Watauga "
6	7.00	Council Henson	A # 12 74 # 1
7	6.00	Carmen Curto	Transylvania County
8	5.00	Henry Curto	9 11
9	4.00	Henry Curto	10.00
10	3.00	Ben Owenby Jr.	Buncombe

#### Class 3 Heavy Weight

1	\$15.00	Earl Edmisten	Watauga (	County
2	12.00	Way Abel	Haywood	117
3	10.00	Joe Brown	Watauga	u
4	9.00	John Abel	Haywood	- 17
5	8.00	John Edmisten	Watauga	11
6	7.00	Asa L. Reese		- 11
7	6.00	Dennis Franklin	Madison	18
8	5.00	Hope Tweed		u
9	4.00	Helen Hipps	Haywood	
10	3-00	Francis Boyd		181

#### Class 4 County Groups

1	\$25.00	Watauga County
2	20.00	Haywood "
3	15.00	Buncombe **
4	10.00	Madison "
5	5.00	Transylvania County

### Class 5 Get-of-Sire

1	\$20.00	Watauga C	County
2	15.00	Haywood	. 19
3	10.00	Cherokee	18

### Class 6 Champions

Grand Champion - Frank Mast Watauga County Reserve Champion - Earl Edmisten " "

## Class 7 - Feeder Calves

1	\$12.00	Frank Taylor	Watauga County
2	10.00	C. B. Briggs	Madison "
3	9.00	Chas. J. Ferguson	Macon
A	8.00	Rafe Teague	**************************************
5	7.00	Rafe Teague	
6	6.00	Paul Ammons	
7	5.00	Carmen Curto	Transylvania County
8	4.00	Russell Dockery	Buncombe
9	3.00	Donald Ramsey	Cherokee
in	3-00	Robert Lovingood	n.

# Class 8 Get-of-Sire (Feeders) No Entries

## North Carolina Hereford Breeder's Special

1	\$25.00	Frank Mast	Watauga County
2	15.00	Earl Edmisten	No. of the last of
3	10.00	Way Abel	Haywood "

#### Class 9 Showmanship

1	Way Abel	Haywood County
2	John Edmisten	Watauga "
3	Hope Tweed	Madison "

RESUME OF AUCTION SALE 4-H CLUB FAT STEERS - ASHEVILLE FAT AND FEEDER
CATTLE SHOW 1938

Thirty-two head of fat steers sold for an average of \$8.90 per cwt.

Sixteen head sold for less than \$9.00 per cwt.

The White Provision Company, Atlanta, Ga., bought 21 head at a weighted average of \$8.92 per cwt.

The East Tennessee Packing Company of Knoxville, Tennessee bought 7 head at an average of \$8.97 per cwt.

Other buyers were as follows: V. Davis, 1 head at \$8.50 per cwt., and The Dixie Stores bought 1 the morning after the show and sale at \$8.25 per cwt.

Seven head of feeder steers sold for an average of \$7.15. The buyers in this division were Ed English, Madison County, 3 head; T. C. Gibbs, one, and East Tennessee Packing Company, two head.

# Light Weight Class

1st 2nd 3rd 4th 5th 6th 7th 8th 9th 10th 11th 12th 13th	\$12.00 12.00 12.00 10.00 10.00 10.00 8.00 8.00 6.00 3.00 3.00	Romulus Dookery Maston Hodges Council Henson Wayne Thompson Hal Thomas Erwin Gay Snelson Joe Brown Graham Penny John Pugh Jones Andrews Lester Earl Turnage B. C. Powell Lynwon Whittington	Buncombe County Watauga " Watauga " Buncombe " Pitt " Buncombe " Alleghany " Alleghany " Pitt " Johnston " Johnston " Johnston " Johnston "
13th 14th	3.00	Holton Whittington	Johnston "

### Medium Weight Class

# Heavy Weight Class

	St. ustrola in	A STATE OF THE STA	Haywood County
lst	\$12.00	Way Abel	
2nd	12.00	John Abel	Hay wood
3rd	12.00	Q. S. Leonard, Jr.	FIGURETIE
	10.00	John Edmisten	Watauga "
4th		Gilbert Edmisten	Watauga "
5th	10.00		Watauga "
6th	10.00	Earl Edmisten	The state of the s
7th	8.00	Harold Grant	Johnston
8th	8.00	Dan Hill	Buncombe "
A STATE OF THE PARTY OF THE PAR		Francis Boyd	Haywood "
9th	6.00		Watauga "
10th	6.00	Joe Brown	Johnston "
11th	3.00	Cyrus Lee	Joinis con
12th	3,00	Elmer Tucker	Pitt
And to be a second	3.00	Lamay Penny	Johnston "
13th	760000000000000000000000000000000000000		Wayne "
14th	3.00	Oswald Thompson	Durham "
15th	3.00	Glen Ellis Taylor	Durnam

#### County Groups

lst Watauga County
2nd Haywood "
3rd Buncombe "
4th Johnston "
5th Pitt "
6th Wayne "

Alleghany

7th

#### Showmanship Awards

lst Earl Edmisten Watauga County
2nd Romulus Dockery Buncombe "
3rd Council Henson Watauga "
4th Gay Snelson Buncombe "

Grand Champion Steer - Frank Mast, Valle Crucis, Watauga County

Reserve Champion Steer - Bomulus Dockery, Weaverville, Buncombe County. RESUME OF AUCTION SALE 4-H CLUBS AFAT STEERS NORTH CAROLINA STATE FAIR 1938

Grand Champion sold to the White Packing Company, Salisbury, N. C. for \$53.00 per cwt.

Reserve Champion sold to the Green Grill Restaurants, Raleigh, N. C. for \$25,00 per cwt.

Top 10 head including champions; averaged \$18.30 per cwt.

Top 20 head including champions; 14.78 per cwt.

Entire offering including champions; " 12.79 per cwt.

Top 10 head excluding champions; " 13.17 per cwt.

Entire offering excluding champions; " 11.19 per cwt.

Twenty-seven head sold for \$10.00 or more per cwt.
Only 3 head sold for less than \$9.00 per cwt.

White Packing Company, Salisbury, N. C. purchased 11 head at an average of \$14.81 per cwt.

The Carolina Hotel, Raleigh, N. C. purchased 3 head at an average of \$13.67 This included the heavy weight champion at \$16.50 per cwt.

Armour and Company purchased 7 head at an average of \$12.08.

Swift and Company purchased 9 head at an average of \$11.29.

The Mullens Grocery Company of Boone, N. C. bought one Watauga County calf at \$12.50.

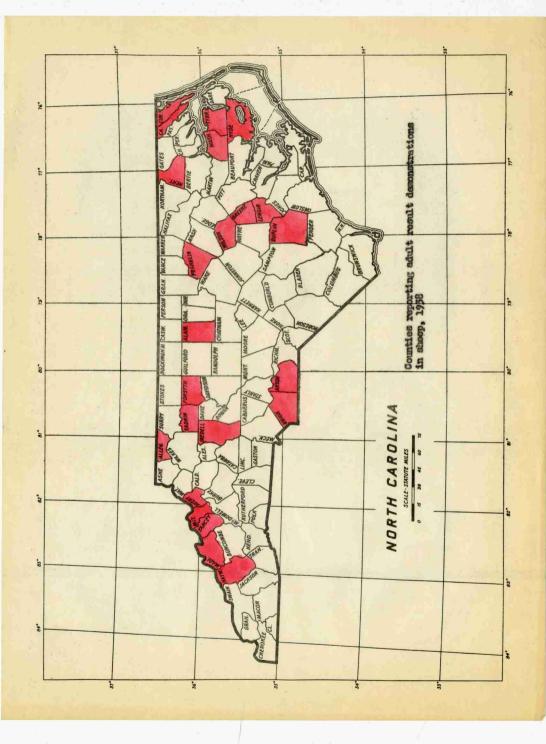
Two light unfinished western calves went to Wilson County to be fed for the Rocky Mount Show and several eastern calves with insufficient finish were taken back home to be fed on for the Rocky Mount Show.

#### II. SHEEP PROJECTS

Prices for lambs and wool in 1938 were not as favorable as the previous year. Then too a greater than normal rainfall resulted in much damage from internal parasites and lambs generally were not as good as usual. This may have been a blessing in disguise, however, for many ewe lambs that normally would have been sent to market were held back for replacement purposes. As a result it is thought that 1938 showed some increase in sheep population. If this is the case it will be the first increase in many years.

#### A. Farm Flock Records

Records secured on farm flocks throughout the state showed a gross income per ewe of \$7.18 compared with \$9.36 in 1937. As was true last year western flocks showed a larger income than the eastern flocks. The average gross income for western flocks was \$8.72 and from eastern \$6.41. A Farm Flock Record follows:



# COOPERATIVE EXTENSION WORK

IN

NORTH CAROLINA STATE COLLEGE OF AGRICULTURE AND ENGINEERING NORTH CAROLINA COUNTIES AND UNITED STATES DEPARTMENT OF AGRICULTURE COOPERATING

# AGRICULTURE AND HOME ECONOMICS STATE OF NORTH CAROLINA

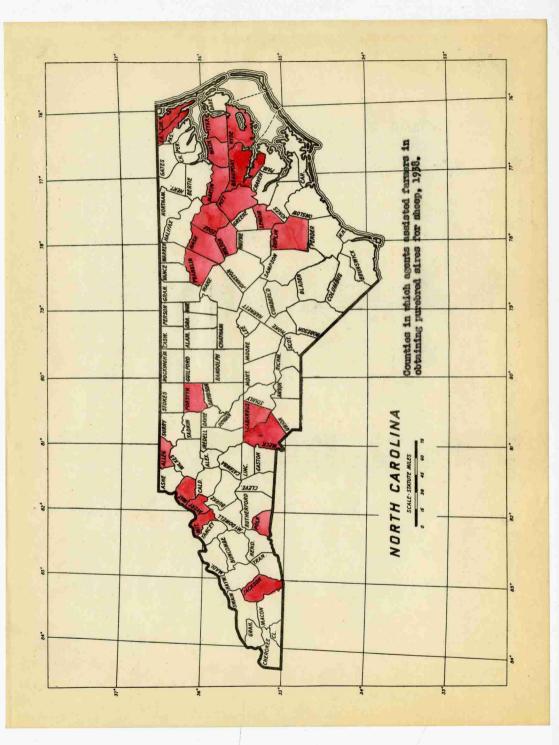
EXTENSION SERVICE

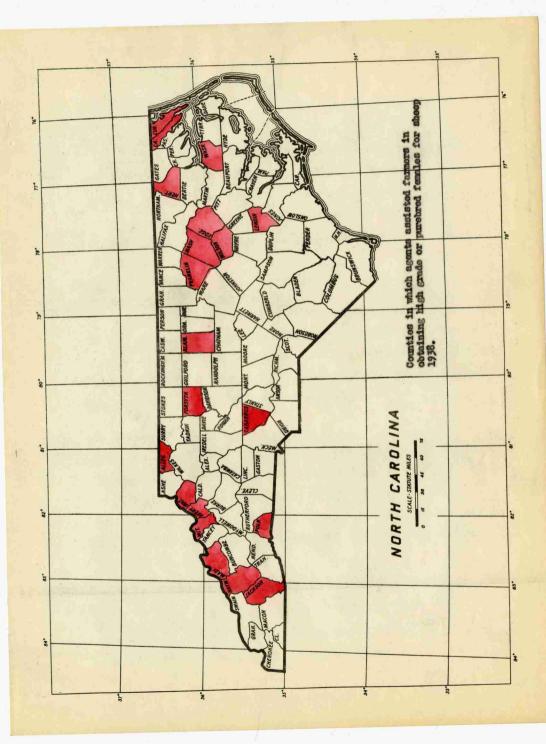
FARM FLOCK RECORD (SHEEP)
(For Commercial Flocks Only)

on Farm of	D. J. Jones	7	the state of the s		<u> </u>	Annual Contract of the	
Post office	Stratford, N. C	) <u>.</u>					
	Alleghany					ه – د د لمون	
County Agent_	R. E. Black						A 5-0180
Number ewes ex	posed to rem_	16			<b>H</b>		- (SA)
Were ewe lambs	exposed? If s	o state	number	3			
Number lambs r	aised to market	weight		24			
Total value of	lambs sold or	kept			\$_	33,52	
Number fleeces	sold	20					
Number pounds	of wool solde_	99					
*Total value o	of wool	.,			\$	24.75	
Tota	l Income		**************************************		\$\$_	58,27	
Gross Income	per ewe				\$\$	8.33	-

<sup>\*</sup>To include market value of wool made into blankets etc.

Was a purebred ram used/
If so what breed? Hampshire
At what time did most lambs come? Merch 15 to April 1.
When were most of lambs sold? Ancust 1 to September 1.
Were lambs creep fed?
Were lambs docked? Yes Castrated? Yes
How many times was flock treated for stomach worms?
What treatment was used? Bluestone
Number of times flock dipped 0
Wes flushing practiced? No
Tell briefly how flock was wintered. Fed small amount of shelled corn, when
and ensilege and winter pasture
A STATE OF THE STA
The state of the s
A CONTRACTOR OF THE PROPERTY O
How was wool sold? Allegheny wool pool
How were lambs sold? Alleghany lamb pool
REMARKS:





#### B. Ram Placements

It is usually the case that ram replacements are more difficult when prices of lambs and wool are low. Mineteen thirty-eight was no exception to the rule and only 37 replacements in 23 counties were reported.

As previously stated more ewes were held back last year and 20 counties reported 174 farmers assisted in obtaining high grade and purebred ewes.

### C. Parasite and Disease Control

The problem of parasite and disease control is something that has to be harmoned away on year after year for there is the human tendency to do nothing until the sheep are showing advanced symptoms of disease. Thirty counties reported 293 farmones assisted with parasite control and 15 counties reported 120 farmones assisted with disease control.

### D. Docking and Castrating Lambs

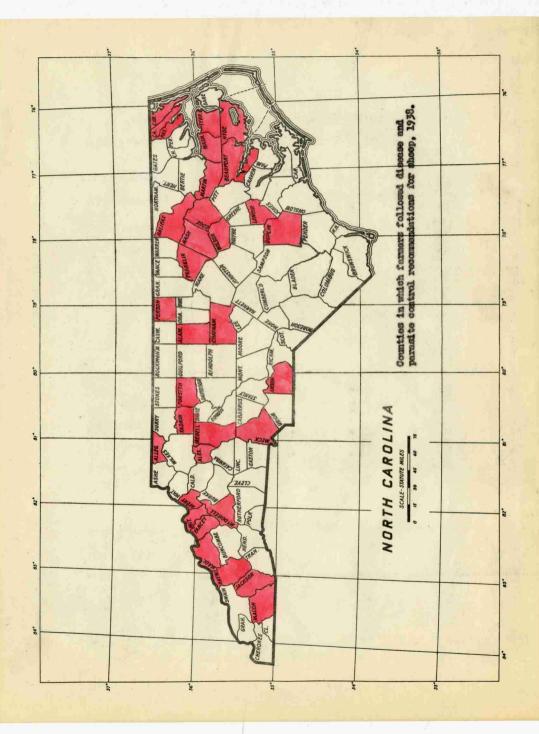
Grading and cooperative selling of lambs is helping to emphasize
the value of docking and castration of lambs intended for market. A penalty
of \$1.00 per cwt. on ram lambs compared with ewe and wether lambs is a
strong argument in favor of trimming. There is still need for work along
this line, however, and 49 demonstrations were conducted in 15 counties
during the season.

#### E. Marketing

1. Lamb Grading and Cooperative Sales.

The cooperative selling and shipping of lambs did not work out as smoothly as during previous years. There were several reasons for this, the most important of which was a halt in direct bids following three eastern shipments. This necessitated two consignments to another selling agency. Another thing, local buyers were more active than usual in some sections and very good prices offered by them resulted in country sales, where cooperative shipments were made the previous year. It is interesting to note, however, that in Alleghany and Watauga Counties where this work was initiated, and where good work has been done by the county agents, cooperative sales have increased each year. The following table shows the percentage of lambs of the various grades sold cooperatively for the past four years from these counties as well as the totals for each year.

Year	Choice	Good	Good Bucks	Modium	Medium Bucks	Common & Gull	Total No.
1935	2.4	62.9	1.7	24.5	2.7	5.9	2324
1936	10.5	62.9	3.9	18.9	2.1	1.7	2410
1937	23.2	54.7	6.3	9.7	2.3	3.9	2824
1938	19.8	49.6	6.3	17.0	3.0	4.2	2881



The following tabulation gives detailed information regarding lambs marketed cooperatively from North Carolina in 1938:

		Alleghan			Net per cwt.	Net
	Home	Percent		Average per head wt.	lbs.home wt.	Returns
rade No.	Weight	By need:	By weight	Lbs.	Dollars	Dollars
	1.bs. 24855	19.2	21.6	90.1	8.80	2187.77
hoice 276		.8	.9	96.1	8.03	84.90
hoice bucks 11	1057	46.1	46.1	79.8	8.05	4261.80
ood 664	52956	8.1	8.9	88.2	7.14	730.82
ood bucks 116	10236	THE CALL STATE OF THE STATE OF	13.0	72.3	6.67	993.70
ledium 206	14895	14.4	3.4	72.9	5.82	225.09
ledium bucks 53	3866	3.7		61.4	5.71	287.37
ommon 82	5036	5.7	4.4	56.8	4.49	48.45
kips 19	1080	1.3	•9	99.3	3.90	34.91
heep 9	894	.6	•0		The second secon	\$8854.81
Totals 1436	114875	100.0	100.0	80.0	7.71	\$00,4.01
		Ashe	County			
		10.0	19.5	86.4	8.56	791.19
hoice 107	9246	17.8		99.1	7.92	211.97
Choice bucks 27	2677	4.5	5.7 38.1	78.2	7.91	1428.33
Good 231	18053	38.6	13.1	87.3	7.04	436.47
Good bucks 71	6201	11.9		67.0	6.77	335.25
Medium 74	4955	12.4	10.5	70.9	5.95	231.98
Medium bucks 55	3899	9.2	8.2	60.0	4.68	72.98
Common 26	1560	4.5	3.3	109.7	4.66	35.82
Sheep 7	768	1,1				\$3543.99
Totals 598	47359	100.0	100.0	79.2	7.48	92242.77
			en County		0 60	2240.36
Choice 279	26115	18.3	20.6	93.6	8.58 6.62	33.5
Choice bucks 5	507	-3	.4	100.1	7.75	5004.3
Good 766	64550	50.3	50.9	84.3	6.93	419.4
Good bucks 65	6052	4.3	4.7	93.1	6.22	1302.7
Medium 284	20938	18.6	16.5	73.7	5.75	153.3
Medium bucks 35	2668	2.3	2.1	76.2	6.71	82.8
Common 18	1235	1.2	1.0	68.6	5.16	5.1
Skips 2	1.00	.1	.1	50.0	3.36	132.1
Mixed, Com-Skp 65	3931	4.3	3.1	60.5	2.01	14.6
Sheep 5	731	.3	.6	146.2		
Totals 1524	126827	100.0	100.0	83.2	7.40	\$9388.5

		Home	Percent o	of total	Average	Net per cwt.	Net
rede	No.	Weight	By head:	By Weight		lbs.home wt.	Returns
		Lbs.			Lbs.	Dollars 8,63	Dollars 128.92
hoice	18	1486	6.8	8.8	82.5	8.40	378.03
lood	61	4500	23.2	26.7	73.8	7.00	5.60
lood bucks	1	80	.4	5	80.0 64.5	7.72	263.98
ledium	53	3420	20.2	20.3	80.0	6.53	5.22
ledium bucks	1	80	.4	.5		6.84	200.55
ommon	55	2930	20.9	17.4	53.3	6.43	62.38
lixed, com-skp	s.16	970	6.1	5.8	60.6	4.79	161.59
kips	58	3370	22.0	20.0	58.1		
Totals	263	16836	100.0	100.0	64.0	7.16	\$1206.27
			Edgecom	be County			
Choice	51	4303	40.5	46.3	84.4	9.32	401.1
choice bucks	î	73	.8	.8	73.0	9.25	6.7
Good	33	2448	26.2	26.3	74.2	8.82	216.0
Medium	18	1112	14.3	11.9	61.8	7.83	87.0
Medium bucks	9	595	7.1	6.4	66.1	7.85	46.6
Mixed.com-skp		776	11.1	8.3	55.4	6,77	52.5
Totals	126	9307	100.0	100.0	73.9	8.70	810.1
	Tyrr	ell - Was	hington -	Hyde - Mar	rtin Counties		
Choice	48	4398	9.3	13.3	91.6	9.37	411.9
Good	65	4768	12.6	14.4	73.3	8.87	423.1
Good bucks	3	263	.6	.8	87.7	9.17	24.1
Medium	71	4707	13.7	14.2	66.3	8.47	398.7
Medium bucks	6	442	1.2	1.3	73.7	8,20	36.2
Common	104	6740	20.1	20.4	64,8	5.94	500.4
Skips	162	8530	31.3	25.8	52.7	4.07	346.7
Mixed.com-skg	8 57	3117	11.0	9.4	54.7	5.98	186.4
Sheep	1	145	.2	.4	145.0	1.95	2.8

### Sumaries

A11 5	Shipment	s Combine	d Accordin	ng to Grade	1938		W-A
Grade	No.	Home Weight	Percent (	By weight	per head wt.	Net per cwt. 1bs.home wt.	Returns Dollars
Choice Choice bucks Good bucks Medium Medium bucks	779 44 1820 256 706 159 285	158. 70403 4314 147275 22832 50027 11550 17501	17.5 1.0 40.9 5.7 15.8 3.6 6.4	20.2 1.2 42.3 6.6 14.4 3.3 5.0	1bs. 90.4 98.0 80.9 89.2 70.1 72.6 61.4	8.75 7.82 7.95 7.08 6.76 6.05 6.54	6161.38 337.19 11711.65 1616.42 3381.42 698.59 1144.17
Common Skips Mixed-com-skp Sheep	241	13080 8794 2538	5.4 3.4 .5	3.8 2.5 .7	54.3 57.9 115.4	4.30 4.93 3.48	561.98 433.48 88.22
Totals	4464	348314	100.0	100.0	78.0	7.50	\$26134.50

		Indiv	Idual Shipment Averages		
Origin - Date Alloghamy 5/31* 7/2 8/1 9/3	85 340 456 555	7179 28395 37427 41874	84.4 83.5 82.1 75.4	8.53 8.65 7.88 6.77	612.56 2457.07 2948.69 2836.49
5/31* 7/2 8/1 9/3 Asho 7/2 8/1 9/3	125 236 237	10037 18863 18459	80.3 79.9 77.9	8.34 7.66 6.83	837.41 1445.81 1260.77
Camden, etc. 5/12 6/13**	141	8666 8170	61.5 67.0	7.89 6.39	683.67 522.60
Edgecombo 5/11	126	9307	74.3	8.70	810.16
Washington 5/13 6/17***	186	13025	70.2 60.7	8.13 6.33	1058.63
Watauga 7/2 8/1	378 623 523	32623 52752 41452	86.3 84.6 79.3	8.46 8.08 5.71	2759.40 4262.41 2366.76
9/17**** Total	4464	348314	78.0	7.50	26134.50

\*The lambs trucked from Boone, West Jefferson and Sparta to Wytheville, Va. and sold in the auction market shrank 4.8 percent of their home weight.

<sup>\*\*8.3</sup> percent of home weight shrink to Jersey City.

\*\*\*5.3 percent of home weight shrink to Jersey City.

\*\*\*\*5.4 percent of home weight shrink to Jersey City. This shrink was considerably above normal, probably because of a very light market fill. The average shrink for this section last season was 11 percent.

#### 2. Wool Sales.

Not quite as much wool was handled cooperatively in 1938 as in the previous year. In round numbers 45000 pounds were sold through the assistance of extension workers as compared with 50000 pounds in 1937. The greater part of this was concentrated and sold to The Chatham Manufacturing Company, Elkin, N. C., although some was sold to dealers and in the eastern counties farmers shipped their own wool under the direction of the county agents.

Judging from reports from farmers and county agents the pooled wool sold for an average of four and one-half cents per pound more than wool sold by individual farmers to local buyers. It is also true that local buyers always pay more in sections where wool is being pooled. It is estimated, therefore that extension efforts in assisting farmers with wool sales put fully \$2500.00 more in the pockets of the sheep farmers.

The following tabulation gives an incomplete record of wool sold by the help of extension workers in North Carolina in 1938

County	Pounds of Wool	To Whom Sold	Price Clear Wool	Price Gen. Rec'd.
Alleghany	14500	Chatham Mfg. Co.	25¢	20-22¢
Watauga	16500	A. W. Hodgson	25¢	504
Ashe	3186	Chatham Mfg. Co.	23¢	
Avery	4200	Richardson & Hutton,	25¢	19-20¢
Mitchell	2769	Glade Springs, Va. Fields Mfg. Co. Mouth of Wilson, Va.	21%	16-18¢
Yancey	2094	Fields Mfg. Co. Mouth of Wilson, Va.	2194	18-20¢
Chatham	1150	A. W. Payne, Burlington, N.C.	20¢	-
Tyrrell	290	Producers Coop. Exchange Richmond, Va.	14%	
Canden	1207	Producers Coop. Exchange Richmond, Va.	21¢	16¢
Washington	2400			

#### III. MISCHILANEOUS ACTIVITIES

### 1. Farm Tours

The Animal Husbandry Specialist attended farm tours in Buncombe and Mitchell counties. These are two of our better beef cattle counties. Requests were received to accompany farmers on several more of these tours but time did not permit.

### 2. Lamb Grading School.

Lamb grading has been done by three trained graders in Ashe, Alleghany, and Watauga counties and by Paul L. Fletcher of the State Department of Agriculture and the Extension Animal Husbandman. In order that grading be as near perfection and as uniform as possible a grading school was held in Watauga county in July. Fifty-four lambs representing all grades were graded by the above as well as by several county agents. The grading was then compared and where there was much variation in the grading the lambs were gone over again.

### 3. Hereford Breeders' Meeting

The fourth annual get-together of State Hereford Breeders was held at Mr. Jack Hipps' farm in Haywood county on September 9. There were about 100 in attendance and much interest in the promotion of the breed was in evidence. They decided to raise money again in 1939 for special prizes on Hereford steers both at Asheville and the State Fair. This year \$50.00 is being awarded at Asheville, \$25.00 first, \$15.00 second and \$10.00 third. This, of course, is just awarded on Hereford steers. Next year the offer will be made on Hereford steers bred in North Carolina and sired by a purebred Hereford bull. Twelve counties were represented at the meeting, they being

Macon, Haywood, Buncombe, Jackson, Transylvania, Henderson, McDowell, Watauga, Caldwell, Rowan, Anson and Stanly. A judging contest was conducted for breeders in attendance. This consisted of one class of aged cows, one class of bred heifers and one class of open heifers. Small cash prizes were awarded and the winners were first. J. M. Carpenter, McDowell County: second, W. L. Wilkins, Buncombe County; third, Geo. D. Stamey, Haywood County; The matter of forming an association of Hereford breeders as well as the matter of an annual sale was discussed. It was finally decided to turn both of these matters over to a committee which would go into the matter further and report back to the members of the association. This committee is as follows: Dr. J. M. Lynch, Fairview, N. C.; Adam Lockhart, Wadesboro, N. C.; B. B. Miller, Mt. Ulla, N. C.; R. C. Hunter, East LaPorte, N. C. and R. C. Shipley, Vilas, N. C. This committee met at a later date and decided to form a North Carolina Hereford Association. The matter of an annual sale was discussed but in view of the scarsity of sale cattle it was decided to postpone action indefinitely.

### 4. Judging

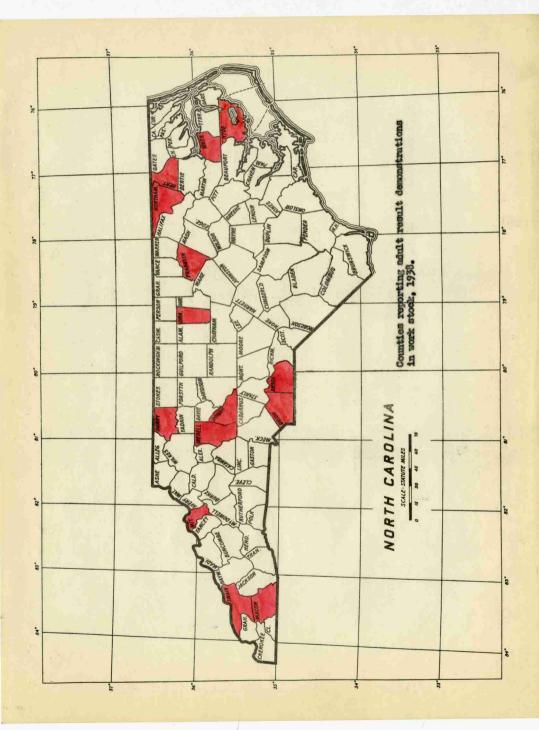
In response to a request from R. E. Davis, Animal Husbandry
Specialist in Georgia, a trip was made to Atlanta, Georgia on April 19-20,
where assistance was given in judging the fat cattle show there. In addition
judging of cattle and sheep was done at three county fairs, three judging
contests were conducted and assistance given several county agents in training 4-H judging teams.

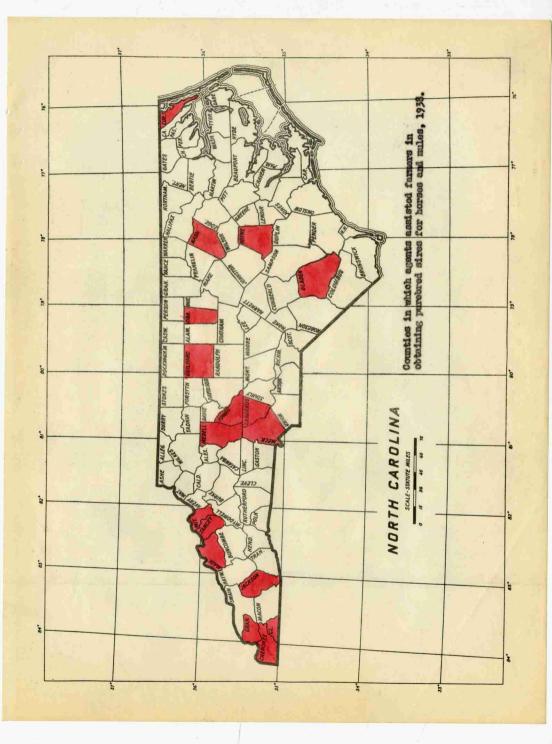
### 5. Cold Storage and Freezer Locker Unit

The interest in freezer lookers which started in the northwest several years ago has spread to this state. Two small units were started in 1937 and last year a very up to date plant was opened at Lumberton in Robeson County. This plant is in charge of R. E. Nance who was formerly connected with the Animal Husbandry Department of State College. It opened in November and is doing a very good business. Much interest has been shown in this plant and several parties have visited it from Eastern and Piedmont North Carolina. It is predicted that other plants of the kind will be opened soon.

### 6. Out of State Trips

Attendance was made during the year to the Southern Agricultural Workers Meeting in Atlanta, Ca., the American Society of Animal Production, in Chicago, Ill., The International Livestock Exposition, and a Market Lamb Conference in Bristol, Va.





STATISTICAL SUMMARY

(As taken from Annual Reports of County Agents)

		Beef Cattle		Sheer		Work Stock		
		STATE OF THE PARTY	Units		. Units		. Units	
1.	No. days devoted to line of work by county agents and assistants	85	982	50	199	69	290	
2.	No. days devoted to work by Specialist	42	97	16	36	6	28	
3.	No. adult result demonstrations conducted	48	181	23	100	14	47	
4.	No. meetings at result dems.	23	62	9	12	6	7	
5.	No.method demonstration meetings held	26	82	15	49	11	80	
6.	No. other meetings held	18	32	13	39	10	17	
7.	No. news stories published	48	159	19	47	24	55	
8.	No different circular letters issued	27	66	21	63	11	11	
9.	No. farm visits made	85	31.48	47	639	61	1.000	
10.	No. office calls received	82	4845	47	1343	59	2378	
11.	No. 4-H Club members completing projects	30	154	10	12	13	30	
12.	No. farmers assisted in obtaining sires	50	185	23	87	17	31	
13.	No. farmers assisted in obtaining high grade or purebred females	43	325	20	174	23	185	
14.	No. families assisted in home butchering, meat cutting & curing	8	158	4	13			
15.	No. farmers following parasite & disease control recommend's.	41	461	45	413	23	730	
16.	No. farmers following marketing recommendations	28	559	27	657	7	82	

Williams ?

### 1939 STATISTICAL SUMMARY one full time specialist and one for three mouths

Number days in the field
Number days in the field
Number days in the office
Number days on annual leave;
Number days on sick leave
Number automobile miles traveled
Number railroad miles traveled
Number visits to demonstrators
Number other visits
Number meetings addressed
Total attendance above meetings28./.4. + 322 = 4///
Number office consultations
Number letters written
Number different circular letters3
Number articles prepared
Number radio talks prepared and given

### STATISTICAL SUMMARY

(From Specialist Reports)

Number days in the field	168
Number days in the office	128
Number days on annual leave	7
Number days on sick leave	2
Number automobile miles traveled	21821
Number railroad miles traveled	2000
Number visits to county agents	176
Number visits to demonstrators	200
Number other visits	127
Number meetings addressed	19
Total attendance above meetings	453
Musber office consultations	119
Number letters written	1368
Number different circular letters	35
Number articles prepared	10
Number radio talks prepared and given	

#### OUTLOOK

The outlook for progress in the Animal Husbandry field is exceedingly bright. More interest is evident among farmers and this is being reflected in increased interest among county agents. This line of work is handicapped by lack of training of personnel which goes back to home environment and college training. This statement is meant as no reflection on the Animal Husbandry Staff at State College for a very good job has been done for the teaching facilities available. Laboratory equipment is sadly lacking, however, and in most cases what there is, is so involved in research that its usefulness for teaching work is much impaired. In spite of this criticism which is meant to be constructive the animal husbandry graduates in extension are the best in the work. Many have had practically no livestock training whatsoever.

Phases of work to be emphasized in 1939.

- 1. Beef Calf Club Work
- 2. Better feeding and herd and flock management
- 3. Grading and cooperative selling of market lambs
- 4. Improved purebred herds and flocks for supplying stud sires.

Circular Letters and News Articles:

On the following pages will be found sample circular letters used during the year and clippings of news articles published.

### IN

NORTH CAROLINA STATE COLLEGE OF AGRICULTURE AND ENGINEERING NORTH CAROLINA COUNTIES AND UNITED STATES DEPARTMENT OF AGRICULTURE COOPERATING

### AGRICULTURE AND HOME ECONOMICS STATE OF NORTH CAROLINA

EXTENSION SERVICE

State College Station Raleigh, N. C. March 9, 1938.

### TO COUNTY AGENTS IN EASTERN NORTH CAROLINA:

Sometime ago Mr. E. H. Austin, Secretary, Chamber of Commerce, Rocky Mount, N. C. sent you several copies of the classification and premium list of the Fat Stock Show scheduled for April 7, and 8th at Rocky Mount, N. C. If you will refer to one of these you will note that Rule 3 states that the closing date for making entries is April 1, 1938.

Entries in the fat cattle department will be rather limited this year due to high prices for feeder cattle last fall and the prospect at that time for a drop in prices. It is suggested, therefore, that you see that anything qualified to show from your county be entered and exhibited. Remember that animals shown in Classes 1, 2, 3, and 4 must be halter broken.

In making entries in the cattle department it is unnecessary to designate the class as that will be determined by weight after the animal reaches the show.

Do not overlook the Showmanship Class. Four H Club members should have some special training in the proper methods of showing animals.

Remember also the Judging Contest and give all time possible to training a 4-H Club team. Note the rules of the contest.

Yours very truly,

L. I. Case, Specialist in Animal Husbandry.

### IN

### AGRICULTURE AND HOME ECONOMICS STATE OF NORTH CAROLINA

NORTH CAROLINA STATE COLLEGE OF AGRICULTURE AND ENGINEERING NORTH CAROLINA COUNTIES AND UNITED STATES DEPARTMENT OF AGRICULTURE COOPERATING EXTENSION SERVICE

State College Station Raleigh, N. C. April 25, 1938

TO ALL COUNTY AGENTS:

Last week a letter was written you in regard to marketing wool. This may look like putting the cart before the horse but anyway there are given below some brief instructions for:

Preparing the Wool For Market.

Shearing should be done as soon as the weather is warm enough to bring the grease or yolk up into the fleece. This varies with the season and with the section but as a rule may be done in North Carolina from May 1st to 15th.

The shearer should keep in mind that he is harvesting a valuable crop and should treat the wool as such.

Cut off all dung tags before shearing is started.

Keep the wool free from trash by shearing on a canvas or a clean floor.

Do not shear when the fleeces are wet.

Avoid cutting the wool twice.

Machine clippers, properly used, will do a smoother job, avoid more second cuts, and save more wool.

Tie each fleece separately, skin side out, with paper twine. Binder or coarse twine of any kind should not be used.

Black, burry, dead or dirty fleeces should be kept separate from the rest.

Sack wool in regular wool bags and if not sold immediate - . ly, store in a clean dry place.

Perhaps you can use these brief suggestions to advantage either in a circular letter or news article or both.

Yours very truly,

L. I. Case, Animal Husbandry Specialist.

IN

### AGRICULTURE AND HOME ECONOMICS STATE OF NORTH CAROLINA

EXTENSION SERVICE

NORTH CAROLINA STATE COLLEGE OF AGRICULTURE AND ENGINEERING NORTH CAROLINA COUNTIES AND UNITED STATES DEPARTMENT OF AGRICULTURE COOPERATING

State College Station Raleigh, N. C. August 10, 1938

TO COUNTY AGENTS DOING BABY BEEF CLUB WORK:

Please send me at your earliest convenience a complete list of names, initials, and post office addresses of owners of beef steers that will be shown at either The Asheville Fat Stock Show, The State Fair or both, Also indicate the breed of the animal, (the breed is determined by the sire), whether or not the owner is a 4-H Club Member, and in case of feeder calves and fat steers to be shown in Get-of-Sire Class at Asheville, give the name and registration number of the sire. Please be accurate as this list will be used in claiming money from Breed Associations, etc. A report form is being enclosed for your convenience.

A State Fair catalog will be sent you as soon as they are printed which they say will be in two or three weeks. Suffice it to say here that after a hard fight the 4-H Baby Beef Club premiums are considerably higher than last year. There will be twenty prizes in each of the three weight classes, ten prizes for County Groups of three head, three Showmanship awards and the usual extra offers of 25 per cent additional by the three National Beef Cattle Breed Associations. Then there is the Special North Carolina Cottonseed Products Association Scholarship award. In this connection remember that the record book, showmanship and participation in club activities in addition to the individuality of the animal, all play a part in the awarding of this prize.

Plens are shaping up well for the Auction Sale of fat steers at the State Fair. Only feeder steers and such other animals as it seems desirable will be disposed of at Asheville.

In case you need combs, brushes and other equipment I am asking one of the stockmen's supply companies to send you a catalog. Expensive equipment such as factory made leather halters, blankets, etc. are unnecessary. A rope halter, properly made to draw under the jaw of the animal is good enough.

In my opinion it is very desirable that either the county agent or assistant agent stay at the show barn day and night with the club boys and their calves. This will assure the animals getting proper care and attention and also that the boys conduct themselves properly.

If you can get good kodak pictures of your baby beeves and owners send prints, properly labeled to Mr. Fred Weed, Manager, Asheville Chamber of Commerce and or Mr. Frank Jeter, State College Station, Raleigh.

Yours very truly,

L. I. Case, Animal Husbandry Specialist

IN

NORTH CAROLINA STATE COLLEGE OF AGRICULTURE AND ENGINEERING NORTH CAROLINA COUNTIES AND UNITED STATES DEPARTMENT OF AGRICULTURE COOPERATING

### AGRICULTURE AND HOME ECONOMICS STATE OF NORTH CAROLINA

EXTENSION SERVICE

August 22, 1938

Dear County Agent:

In order that we may have a comprehensive picture of cooperative efforts in the marketing of wool I am asking that you fill out the following form and return to me at your convenience.

Regardless of whether or not you assisted in the selling of any wool in your county it will be appreciated if you will return this form to me filled out as far as possible. A summary of replies will be used as a guide in the handling of wool next year.

Yours very truly,

L. I. Case, Animal Husbandry Specialist

1.	Number pounds of wool assisted in selling in 1938
2.	To whom sold:
3.	Date sold
4.	Price received: Clear wool Light burry Heavy burry
	Other classifications
5.	Was wool sold outright or consigned?
6.	Price received for wool sold individually to local buyer
Rem	erks:
1	
	County Agent.

IN

NORTH CAROLINA STATE COLLEGE OF AGRICULTURE AND ENGINEERING NORTH CAROLINA COUNTIES AND UNITED STATES DEPARTMENT OF AGRICULTURE COOPERATING

### AGRICULTURE AND HOME ECONOMICS STATE OF NORTH CAROLINA

EXTENSION SERVICE

State College Station Raleigh, N. C. September 2, 1938

Dear Hereford Breeder:

You have already received an invitation from Mr. W. F. Hipps to attend the annual Hereford Get-together at his farm in Haywood County on Friday September 9th. This is the fourth annual meeting of the kind, the others having been held at the farms of Dr. J. M. Lynch, Fairview, The Patterson School, Legerwood, and Robert G. Shipley, Vilas, during the years of 1935, 1936, 1937, respectively.

The purpose of these meetings is for Hereford breeders to get better acquainted and to talk over ways and means of improving and promoting the breed. Last year the matter of an annual sale was brought up and the breeders in attendance expressed themselves in favor of the same. This will be gone into more in detail this year and no doubt other things of general interest will be discussed.

I am sure you will get both pleasure and profit by coming to Mr. Hipps' farm on September 9th. Talk with your county agricultural agent and he will help you in making plans for the trip.

Looking forward to seeing you, I am

Very truly yours,

L. I. Case, Specialist in Animal Husbandry.

IN

NORTH CAROLINA STATE COLLEGE OF AGRICULTURE AND ENGINEERING NORTH CAROLINA COUNTIES AND UNITED STATES DEPARTMENT OF AGRICULTURE COOPERATING

### AGRICULTURE AND HOME ECONOMICS STATE OF NORTH CAROLINA

EXTENSION SERVICE

State College Station Raleigh, N. C. September 14, 1938

To County Agents in Alleghany, Watauga, Mitchell, Buncombe, Madison, Henderson, Transylvania, Jackson, Macon, Cherokee and Haywood Counties.

Gentlemen:

The Asheville Show has been definitely set for Wednesday October 5th. It will be held at the auction market as in the past.

In order to give the people in charge sufficient time to look after details, the cattle <u>must</u> be on the grounds not later than 3:00 P.M. Tuesday Oct. 4th

As we have discussed heretofore it will be advisable to take the majority of the fat steers on to the state fair. I will be glad to advise you which animals in my judgement should be taken to Raleigh. However, each exhibitor will have the privilege of selling any or all his cattle at Asheville. My advice is to sell the Grand Champion and perhaps the Reserve Champion, providing he brings a good price, and such others as will pay their way at the state fair.

In order to facilitate the shipment of cattle from Asheville to Raleigh it will be well to combine county exhibits. By this means we should be able to get all state fair cattle in two cars. Freight shipments will probably be a little more expensive than truck but the cattle will go through in better shape in a box car. The freight rate from Asheville to Raleigh is 35 cents per cwt. with a minimum of 20000 pounds for a 36 foot car. In addition each person going in the car with the cattle will have to pay regular fare which I believe is \$5,50.

In order that you may make some preliminary arrangements for shipping I am making the following estimates as to the number of steers that should go to Raleigh. Watauga ll, Buncombe 6, Haywood 5, Cherokee 3 to 5, Madison 1 to 3, Transylvania 3, Mitchell 1, Henderson 1, and Macon 1, Alleghany will probably not go to Asheville. Just for something to work on let me suggest that Watauga, Madison, Mitchell and Cherokee go in together on one car and Buncombe, Haywood, Transylvania, Macon and Henderson go together on the other, Two men or a man and a boy, one of whom has had experience in shipping show cattle should go with each car, Each car should be provided with ample bedding for both cattle and men, a large water barrel, tubs or feed boxes for feeding the cattle, one for each animal, ample feed and hay to last through shipment, buckets for watering the cattle, two forks for handling litter and the usual supply of brushes, combs, etc. as well as food and water for the men. Other accessories that should be carried are a good flash light, hammer or hatchet, nails, saw, and sufficient lumber for boarding up one door of car, providing places for the cattle, etc.

Just a few suggestions for the handling of the steers from now until show time. Have each owner practice leading and showing his or her steer each day. A good walk each day will help the appetite and keep the animal on his feet in better shape. Wash each steer at least three times between now and the Asheville Show. Groom each day and curl as often as possible. A few days before the Asheville Show clip the heads and tails of all cattle. This should be done or at least directed by one who has had experience.

I hope it will be possible for one of the agents or at least a reliable man who will follow instructions about taking cattle off feed and water as directed, etc. to be with the cattle at Asheville and Raleigh, night and day.

Don't forget to have blankets etc. for men and boys who will sleep at the barns.

Have all club boys and girls as far as possible on hand to show his or her calf at Asheville. Also as far as practical have them at the state fair.

Review the rules of the show and see that all are carefully observed. Remember that none other than dehorned steers that have been owned five months and especially prepared for the show should be taken to either Asheville or Raleigh.

If there are any questions of which you are not certain write me or the show management.

Yours very truly.

L. I. Case, Animal Husbandry Specialist

#### IN

NORTH CAROLINA STATE COLLEGE OF AGRICULTURE AND ENGINEERING NORTH CAROLINA COUNTIES AND UNITED STATES DEPARTMENT OF AGRICULTURE COOPERATING

### AGRICULTURE AND HOME ECONOMICS STATE OF NORTH CAROLINA

EXTENSION SERVICE

May 9, 1938

TO ALL COUNTY AGENTSE

### In Regard to Buying Stocker and Feeder Cattle.

My attention has been called in several instances to advertisements, post card announcements etc. from various parties in Towa in regard to white-faced stocker and feeder cattle. In practically every instance prospective buyers are led to believe that they can buy cattle at a very low price. Four and one-half cents per pound has been mentioned in several instances. When a farmer answers one of these ads they are usually answered by wire or a long distance call. We have assurances from several sources that cattle racketeers are operating in the middle wast and the purpose of this letter is to warn prospective buyers to stay away from that section. There are a plenty of reliable producers and commission firms throughout the country to be dealt with. Do not think that it is possible to buy cattle for less than they are really worth.

About ten years ago the southern states went through the same thing that they are going through now. Cattle operators in a certain western state were advertising in local papers throughout the south. They lured the prospects on by talking very low prices. In some cases where buyers went to see the cattle they were shown some good cattle and shipped something else. After several years the Department of Justice secured enough evidence to convict some of these men. Wallace's Farmer published at Des Moines, Iowa carried a full account of this racketsering several years ago.

I, personally, know of several people who have made trips to this section of the country and I think without exception they have been robbed. Just last week I saw some cattle in this state that were purchased as a result of one of these advertisements. Three farmers who wanted cattle delegated the man who had had the most experience to make the trip and buy the cattle. As I said they were led on by quotations of  $4\frac{1}{2}$  cents a pound for good and choice feeder steers. When the man in question arrived at his destination he was finally sold some little cattle at \$30.00 per head. I do not know all of the details but when the cattle arrived in North Carolina they were weighed up and it was found that they had cost them in the neighborhood of 12 cents per pound. The quality of the cattle was very poor and they were weak and emaciated. It is true that they had white faces but outside of that very little good could be said about them.

We must be careful to avoid libel suits but I think it is your duty to warn prospective buyers of cattle. My advice to prospective buyers is to wait until next fall when cattle will be cheaper. Quite a large number of surplus steers as well as heifers are sold out of our mountain counties each fall. I will be glad to help prospective buyers locate animals at that time.

Yours very truly.

L. I. Case, Specialist in Beef Cattle.

State College Station Raleigh, N. C. September 14, 1938

TO COUNTY AGENTS IN THE ROCKY MOUNT FAT STOCK SHOW TERRITORY.

Looking forward to another fat stock show at Rocky Mount next spring and having in mind assisting you in locating good steers to be fed for that show I found during a recent trip in the western part of the state that there will be quite a number of very good quality steers that will be shown at Asheville and Raleigh by 4-H Club members that are not fat enough to stand high in our shows this fall. Some of these steers will be shown as feeders at Asheville and some will be shown in the fat classes but will grade only as fleshy feeders. Many of these steers are of just as good, or better, conformation and quality as the steers that will stand above them in class. Furthermore, they probably are not fat enough to demand a top price from the butchers and my thought is that your 4-H Club boys could handle them to very good advantage to be carried on for the Rocky Mount Show next spring. Most of them will be too large to be carried over for the state fair in 1939, although there will probably be a few that could be carried that long.

The purpose of writing you this letter is to give you time to get in touch with your prospective feeders for the Rocky Mount Show and to make financial arrangements for buying these steers at the state fair provided they do not go too high. Some of these steers will be sold at Asheville unless I can give the folks in the western counties some assurance that there will be interest in purchasing them by prospective feeders in Eastern North Carolina. I will, therefore, appreciate it very mach if you will get in touch with people who are apt to participate in the Rocky Mount Show and line up some buyers and let me hear from you. If you have people who would like to purchase these or other steers to be fed for the Rocky Mount Show and are not financially able to pay cash for them I am sure that arrangements can be made through the Rocky Mount bankers to finance them in case local financial arrangements cannot be made. If you want details in regard to financing by the bankers of Rocky Mount I suggest that you write directly to Mr. E. H. Austin, Secretary, The Rocky Mount Chamber of Cormerce, Rocky Mount, N. C.

Trusting that I will hear from you within the next week or two,

Yours very truly,

L. I. Case, Animal Husbandry Specialist.

IN

NORTH CAROLINA STATE COLLEGE OF AGRICULTURE AND ENGINEERING NORTH CAROLINA COUNTIES AND UNITED STATES DEPARTMENT OF AGRICULTURE COOPERATING

### AGRICULTURE AND HOME ECONOMICS STATE OF NORTH CAROLINA

EXTENSION SERVICE

State College Station Raleigh, N. C. November 12, 1938

TO ALL COUNTY AGENTS AND ASSISTANTS:

SUBJECT: Baby Beef Club Work for 1939.

The good shows of fat steers by 4-H Club members at Asheville and the State Fair this year and especially the good sale at the latter show will no doubt add impetus to Baby Beef Club work in 1939. —— More agents planned for work of this kind for 1939 than for any previous year, and undoubtedly many others will want to initiate some of this type of 4-H Club work this coming year. It fits in nicely with the general extension of the beef industry which is very definitely taking place in North Carolina.

### Suggestions for Baby Beef Club Work 1939

Get it started at once. Select the boys and girls as well as the calves that are most suitable for this work. If you wait for clubs to be organized and the members to select this project on their own initiative it may be too late to find suitable calves.

Young, grade, cross-bred, or purebred calves of good type and conformation that are still on milk and that are locally bred have proved the most practical and profitable in the past. My advice is to select calves dropped from July 1938 up through January 1939. Of course I would not make dropped age limits absolute. An outstanding individual somethat older should these age limits absolute. An outstanding individual somethat older should not be over looked. Neither should a good February calf be ignored. (The not be over looked. Neither should a good February calf be ignored. (The self that stood first in the light class at Asheville was a March calf.)

### THINGS TO REMEMBER

Only steer calves are allowed to show. Use a Burdizzo if possible in altering the bull calf. If a knife is used make two incisions on the front of the scrotum being sure they are deep enough for good drainage.

All calves must be without horns. Use a caustic stick (sodium or potassium hydroxide) when the calf is only a few days old or a calf dehorner on older calves. In all cases where dehorning is done, except with caustic, perform the operation in cool weather and use pine tar or other fly

repellent as a safety measure. Go deep enough to avoid unsightly stubs.

Get accurate initial weights of all calves. In the past too many weights have been guessed at.

See that the club member keeps accurate feed records. The record is a very important part of the project.

Do not overlook the importance of halter breaking and proper training of calves for the show ring. The sooner this is done the easier it is.

#### THE ROCKY MOUNT SHOW

Competition for this show is limited to counties east of and including Granville, Durham, Wake, Harnett, Hoke and Scotland.

Steers for this show should be in good flesh now and be very liberally fed from now on. There is insufficient time to get thin animals in condition.

Details regarding feeding and management of beef calves are given in the circular entitled "Instructions in Baby Beef Production for 4-H Club Members."

Yours very truly,

L. I. Case, Animal Husbandry Specialist.

P. S. Several agents have expressed a desire for a Burdizzo Pincer for the bloodless castration of stock. The retail price is \$15,00 plus the shipping charge. I have been offered a 10 percent discount on these instruments in quantities of six or more. If you want one write me sending no money and I will give you the exact cost f.o.b. Raleigh as soon as I learn what it is.

L.I.C.

### SUGGESTIONS FOR FEEDING AND CARE OF LAMBS TILL MARKET TIME

# By L. I. Case Extension Animal Husbandman

Some lambs are already here and many more will be coming soon. The lamb crop is the sheepman's harvest and it pays to save as high a percentage as possible and to grow and fatten them rapidly up to marketing time.

Care of Ewes: The ewes should be in good strong condition at lambing time. Plenty of green winter cover crops will go a long way toward furnishing feed for the ewe flock. Good green, leafy legume hays should also be fed at will as they furnish the proteins and minerals so necessary for developing the unborn lambs. Corn or oats, or a mixture of the two in amounts of one half to one pound daily may be profitably fed for about one month before lambing time. Unless a good legume hay or plenty of green cover crop is available it is well to add a small amount of a protein feed, such as cotton seed meal, soybean meal or peanut meal to the grain. When grain is being fed in appreciable amounts it is well to reduce this feed for a few days before and after lambing. At this time give the ewes all the green feed, legume hay and water that they want.

If the ewe flock is being housed at night those heavy with lamb should be separated from the others. A lambing pen  $4 \times 4$  feet square will often prevent lambs wendering off and causing the ewes to disown them.

Feeding The Lambs: Of first importance in feeding lambs is milk and plenty of it. See that the ewes are fed for milk production. The same feeds are recommended for pregnant ewes may be fed, only in larger amounts, after the lambs are a few days old.

Creep Feeding the lambs usually pays. Partition off a bright corner of the barn or shed and leave a small opening or two that will admit the lambs yet exclude the ewes. Inside this creep keep a small raised trough supplied with feed. Corn should make up the majority of this ration and often it is the only grain feed. It should be ground until the lambs are six weeks old after which it may be fed shelled. Do not feed corn and cob or corn cob and shuck meal to lambs or ewes. If the ewes are not giving much milk it may pay to feed a more complete ration to the lambs. Four parts corn, two parts oats, and a small amount of a protein feed makes an excellent lamb feed. In addition to grain keep a small rack full of the choicest hay inside the creep where the lambs can nibble it as they like.

Trim The Lambs when they are from one to two weeks old. The docking and castration may both be done at one time. Do not neglect this for the packers usually pay \$1.00 per cwt. more for trimmed lambs than for rams.

Stomach Worm Control can be effected by sanitation, (keeping sheep on ground that is plowed each year) or by regular treatment. As a rule treatments should be started not later than June 1, and be repeated at least every four weeks until frost. Where the flock was not treated regularly the previous summer it may be well to give the ewes two drenchings two weeks apart at this time of the year. If this is done be very careful with ewes heavy with lamb.

Lambs need not be treated prior to June 1, unless the season is unusually early.

. mit. religiositas redritoris, acomina socia micede historia estre Detailed instructions for treating sheep for stomach worms accompany this circular. W. A. L. C. On Onle Blook arts wanted which sale to soon about me all

adman fraction out purification not respective a bereater into anti-definite out delimina. Lion, thungs and on Tind site to him me stands and la attenda a he laded to ared Long a amening west and make and at distances and a root ind wide titon of year confer of the ed it is the mail electrocket at ber write at where well a ritere call of . this, feed for a few eags; before and affect lambing. At this time give the ewes sport well just herer her and undered there, andre but Lie

Dear Sir: sel dain groun could totale terfound anied of froit out out all til

Jaivene merto film anamas dare a y N con unidans It will pay you to follow the above suggestions and get your lambs fat and ready for market as early as possible.

Cooperative lamb shipments will be made from Tarboro, Plymouth, Shawboro, and New Bern in May and June. Let me know if you want us to handle your lambs. the rape a few days olds

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NORTH CAROLINA STATE COLLEGE OF AGRICULTURE AND ENGINEERING NORTH CAROLINA COUNTIES AND UNITED STATES DEPARTMENT OF AGRICULTURE COMPRESSION

### AGRICULTURE AND HOME ECONOMICS STATE OF NORTH CAROLINA

EXTENSION SERVICE

STOMACH WORM TREATMENT FOR SHEEP (Prepared by the Animal Industry Division)

Dissolve four ounces of copper sulphate (blue stone) in one pint of boiling water, then add enough water to make a total of three gallons. Now add one ounce of a 40 percent solution of nicotine sulphate ("Black Leaf 40") to each gallon of the copper sulphate solution. The three gallons makes enough to dose 100 mature sheep. In as much as copper sulphate will corrode most metals, the solution should be mixed in a glass, porcelain or earthenware receptacle.

Table of Bosage	A 64 A STORMAN
Yearlings and mature sheep	3 to 4 ounces
Lambs 85 lbs. up	3 ounces
Lambs 65 - 85 lbs.	2½ ounces
Lambs 45 - 65 lbs.	2 ounces
Lambs 30 - 45 1bs.	1 to 1 ounces

Dose weak animals somewhat lighter than the above.

Treating Pregnant Ewes. The above treatment is not injurious to pregnant ewes, but if they are close up to lambing there is some danger due to careless or rough handling.

If there is much parasitic infestation in the flock this tweetment should be repeated every month from June to November inclusive, in the mountainous and well drained areas of Western North Carolina, while in the east treatment should be administered every two weeks during this time.

Method of Treatment . The treatment may be administered by means of a drenching tube, a metal dose syringe or bottle. The drenching tube consists of a rubber tube about  $3\frac{1}{2}$  feet long, and 3/8 inch in diameter, an enamel ware funnel about  $5\frac{1}{4}$  inches wide at the top, and a brass or copper tube about 6 inches long and 5/16 of an inch in diameter, all fitted together. The metal tube is placed thru the side of the animal's mouth, over its tongue and between the back teeth.

Precautions - Stir the solution occasionally while using. When dosing keep the sheep standing on all four feet, not tipped back on its rump.

Don't raise the head too high. (The nostrils should be above level with the eyes).

Don't try to drench too fast.

Don't put the instrument back too far in the animal's mouth, as it makes it difficult for the animal to swallow.

Other Control Measures - The moving of sheep and lambs from permanent pasture to clean fields such as cut over meadows, harvested grain fields, and annual pastures are effective means of controlling stomach worms. In fact, sheep can be carried on annual crops of soybeans, Sudan grass, etc. without treatments.

Breeding ewes early makes it possible to get lambs on the market before warm weather and resulting stomach worm trouble.

### FEEDING AND MANAGEMENT OF THE BEEF HERD

On the well managed farm beef cows are generally bred in the late spring or early summer in order that they may calve at the proper time. In Eastern North Carolina under average conditions the bull is allowed to run with the cow herd during May, June and July, and the calves arrive in February, March and April the following year. During the remainder of the year the bull is kept in a small strongly fenced pasture, or lot either by himself or with a bred cow for company. This same procedure, with perhaps some variations to suit local conditions, is followed in Piedmont and Western North Carolina.

There are several advantages for having the calves come at this time of the year. Dry cows can be much more easily and cheaply wintered than cows nursing calves. Winter and early spring calves usually grow off faster and make better animals than calves dropped in the summer and fall. Calves dropped close together in the spring of the year can all be weened at the same time. Their uniform ages makes it possible to pasture, house and feed them together.

Winter Feeding and Care of Calves. Beef calves are generally weaned at about eight months of age. Unless the herd is running on excellent pasture it is often practical to have the calves eating some grain before they are weaned. This prevents a set-back that might otherwise occur before or at weaning time.

The first year, and especially the first winter, it is a critical period in the calf's life. If it is to be fattened for the market at an early age it should, where practical, be started on grain when two or three months old and never be allowed to loose its calf fat.COm the other hand in the case of the heifer calf that is to be kept for breeding purposes, or steer calves to be carried over, one is more interested in proper growth than degree of fatness. Unless the mother is a poor milker the calf will usually do nicely running on good pasture with her until about weaning time. As previously stated, where is it practical to do so, it is well to have the calf on some supplementary feed prior to weaning. When this is impractical, feeding should by all means start at weaning time and be continued until pasture has made a good start the following spring. An average beef calf dropped in February or March should weigh about 400 pounds at weaning time. He should be wintered in such a way that he will gain from 60 to 75 pounds.

SUGGESTIONS FOR THE FEEDING, CARE, AND MANAGEMENT OF NEWLY ACQUIRED CATTLE.

Much of the trouble that often accompany cattle that are shipped in from a distance can be prevented by careful feeding, care, and management. It is well to remember that very often there is a wide change in environment and cattle need more careful attention for the first few months than at any other time. Ample feed of good quality will go a long way toward helping them to become acclimatized.

Feed and water upon arrival should be limited. First only allow cattle a small amount of water then more an hour or two later. Feed only roughage at first. A non-legumenous roughage such as grass hay or corn stover is the safest feed to start with. After they have had a good fill, a gradual change can be made to a legume hay and grain or other concentrated feed.

When strange cattle first arrive on the farm they should be isolated from other cattle until it is certain they are not carriers of any infectious disease.

Two common diseases often affecting cattle that are shipped in are described briefly in the following paragraphs.

Hemorrhagic Septicaemia (Shipping Fever) is a disease caused by a microorganism which is widely distributed in nature. Outbreaks pf the disease often occur when animals are devitalized from exposure in shipment or otherwise. Hense the name shipping fever is other applied. As a precautionary measure cattle are often treated either before or after shipment. (See U. S. Department of agriculture Farmers' Bulletin No. 1018). However good care and management will often prevent occurance of the disease.

Pink Eye or kerratitis is more common in the west than south. The first symptoms are the flow of tears from one or both eyes. Then the eye becomes a grayish or milky white. The disease spreads rapidly and the affected cattle show signs of intense pain and lose weight very rapidly. If caught in its early stages this disease is not hard to control.

Treatment: Isolate the affected animals so as to prevent the spread of the disease as much as possible.

Bath the affected eyes, gently, with a saturated solution of common salt, a saturated solution of boric acid or a 10% Argyrol Solution. Gently pull the lower eyelid out filling it with the solution. Repeat this treatment daily until a remedy is effected.

Put affected animals on a light diet and where possible keep them

in a darkened barn that is free from drafts.

In stubborn cases where eye becomes intensely inflamed and swollen call the local practicing veterinarian.

For general suggestions see Extension Circular entitled \*Feeding and Management of the Beef Herd.

## Suggested Daily Wintering Rations. For 400 Pound Calves

2

Corn Silage 12 pounds	Legume Hay	5 pounds
Legume Hay 5	Corn Stover	
Corn Stover at will	Corn & Cob Meal Cottonseed Meal	1.5 "
3	4	
Corn Silage 12 pounds	Mixed Hay	10 pounds
Mixed Hay 4 "	Corn & Cob Meal	2 "
Cottonseed Meal 1	Cottonseed Meal	A STATE OF THE STA

### For 665 Pound Yearlings

Corn Silage 20 Founds Legume Hay 5 Legume Hay 5 pounds
Corn Stover - at will
Corn & Cob Meal 1 "
Cottonseed Meal 5

3

1

Corn Stover - at will Cottonseed Meal 2 pounds Corn Stover - at will
Corn & Cob Meal 1.5 pounds
Cottonseed Meal 1

### For 850 Pound Cows

1

Corn Silage 25 pounds Legume Hay 5 "Corn Stover 5 " Legume Hay 5 pounds Corn Stover - at will

3

Corn Silage 25 pounds Corn Stover 7 " Cottonseed Meal 1.5" Mixed Hay
Corn & Cob Meal
Cottonseed Meal

15 pounds
1 "
16 "

Substitutions: The following substitutions may be made in the above rations: Ground barley, ground wheat or oats for corn and cob meal; soybean meal, peanut meal or other protein rich concentrate for cottonseed meal; grass hay, cottonseed hulls, peanut hay or oat straw for corn stover.

The above rations are for cattle that are kept in dry lot during the wintering period. Much harvested feed can be saved by allowing the cattle the run of stalk fields, winter cover crops, or meadows. Dry cows or two year old cattle in Eastern North Carolina are sometimes carried through the entire winter without any harvested feed or without shelter. To do this, however, one must have ample

feed in the fields and well drained, sheltered ground where the cows may bed comfortably at night.

The younger the cattle the higher the percentage of concentrated feeds they need. Calves can make excellent use of cover crops of grains and winter legumes but as a rule they need some grain in addition.

General Feeding Suggestions: Good Pastures are the basis of economical beef production. The use of both permanent pastures and annual supplementary pastures for summer grazing and both mature and green crops for winter grazing are strongly recommended (See Extension Circular No. 202, "Pastures in North Carolina").

Silage: Made of corn, cane, or even legumes and grasses is becoming more and more popular as a winter feed for cattle. In the Coastal Plains area of the state where much use is made of corn and soybean stalks, velvet beans and green winter grazing crops, silage is excellent for filling in the gaps between permanent pasture and the time the corn fields are ready for gleaning in the fall and between the preparing of the fields and the time permenent pasture is ready for grazing in the spring. In other sections of the state silage preserved either in the trench or upright silo is being used more and more as a winter feed and in some instances as a supplementary summer feed in time of drought. It should not be understood that silage is a complete but is a valuable succulent feed for all classes of cattle.

Water that is clean and fresh should be available at all times.

Salt preferably in the coarsely pulverized form should be accessable to cattle of all ages at all times.

Minerals are playing a more and more important role in the nourishment of livestock as time goes on. The best way to supply minerals is through the feed but in view of the fact that much of our feeds are grown on soils deficient in minerals it is well to keep a mineral mixture where cattle can help themselves to it at will. A simple, inexpensive mixture is: Limestone, ground to a fine powder on part, Steamed Bone Meal one part, Salt one part.

General Suggestions: Regularity in the time of feeding is very important.

Shelter in the form of an open shed or a well lighted and well ventilated barn will conserve manure and make the cattle more comfortable in bad weather <u>if it is kept well bedded</u>. If not the cattle will be better off in the fields or woods where they may select their own bedding ground rather than be forced to lie in the mud and filth.

Cattle barns and sheds should always be provided with gutters and eaves spouts to carry rain water away from the feed lot.

Heifers may be bred when they are 18 to 20 months old providing they have made normal growth at that age. It is a mistake to allow heifers to get bred too young. It generally stunts their growth and often results in calving time trouble and a dead or under developed calf. Do not leave this matter to the discretion of the bull but keep him well away from the heifers that are not old enough for service.

Breed for spring calves unless there is a peculiar situation on the farm that makes fall calves more practical.

The bull is a very important part of the successful herd of cattle. He should be a good individual of the breed represented. The right kind of a bull will improve the herd through his offspring while an inferior animal will in the same way cause the herd to degenerate.

A bull should be at least two years old and well grown for that age before he should be allowed to run with the cow herd during the breeding season. If younger than that hand breeding should be practiced and only one service to the cow allowed. A well grown bull over 14 months of age may be used on 8 or 10 females, one service to each.

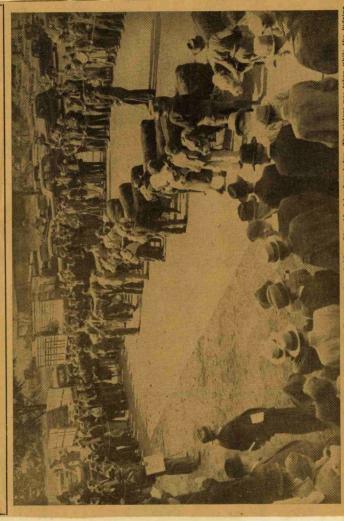
Bulls should be kept in strongly fenced enclosures except during the breeding season when they may be allowed to run with the cow herd.

Dehorning in the commercial herd should be done at the proper time. As a general rule the younger the cattle are when dehorned the better. Caustic Soda or Potash used on the buttons of very young calves will prevent the horn from developing. A small calf dehorner, or gouger as it is sometimes called, can be successfully used on calves up to two or three months of age. From this age up to about 10 months a mechanical dehorner especially designed for calves is best. Beyond this age mechanical clippers or a saw is generally used.

It is advisable that dehorning, when done with anything but caustic, be done during cool weather to avoid fly infestation. Even in cool weather it is a good precaution to use pine tar or other good fly repellent.

Castration of bull calves may be done at any age. As a rule it is best done from a few weeks of age up to five or six months. If postponed much longer than this the calves may develop masculine characteristics to the point they will be "staggy" which is quite objectionable in steers. This operation may be done with bloodless pincers or a knife.

# arge Crowd Attends Fat Stock Show Here



Here is a view of the show ting at the Asheville Fat Stock show, held on Riverside drive here today. The picture was taken while the Judgan, of Jight, weight far steers was progressing. Two of the judges—1, E. Rosten, of Rankar, of Atharia, of Atharia, of an active day are beind the row of entries, to the left, and the third judge—1, S. Robinson, of Knowyllie, Tenn—1s shown inside the ring farther in the background. L. I case, heef cattle specialist from Raleigh, and H. G. Etheridge, of the Asheville Chamber of Commerce, are shown inside the ring on the left side of the photograph. Mr. Etheridge had for distribution the cash and ribbon awards. A portion of the more than 400 persons who attended the show is shown in the picture.

# Watauga County Sweeps Honors At Cattle Show

#### Two Valle Crucis Boys Win Top Prizes With Their Entries

Watauga county 4-H club boys and their Hereford cattle swept honors yesterday in the fourth annual Ashe-ville Fat Stock show, held at the Asheville Livestock Yards, on River-Asheville Livestock Yards, on Riveraide drive, under the sponorship of
the chamber of wome their closest.
competitors when their closest.
competitors with Madison, Cherotee, Bundwas Madison, Cherotee, Bundwas also figuring in the
ward of more than \$500 in cash
prizes. A crowd of approximately
400 persons attended the show.
Frank Mast, a 10-year-old Valle
Crucis lad, with a steer which weighs
ten times more than he does, carried
tome the grand championship rib-

ten times more than he does, carried home the grand championship rib-bon in addition to approximately \$50 in cash prizes, including \$25 offeed by the North Carolnia Hereford association for the best animal of that breed exhibited.

that breed whibited.

Wins \$15 Prize
Another Valle Crucis boy, Earl
Zdmisten, 12 years old, took the reseries of the control of the control of the control
association for that achievement. A
Hereford owned by Way Abel, of Haywood county, placed third in the
class of champions and Abel was
given \$10 by the same organization.
Thus, Herefords, the handsome
white-faced cattle, scored heavily all
the way around, although many file
Shorthorms and Aberdeen Angus
calves were on display and won valcalves were on display and won val-

uable prizes.

Because the boys who raised the Because the boys who raised the the prize-winning cattle hope to capture even higher honors with them at the State fair at Raleigh next week, none of these steers was sold in the auction ring following the judging of the 63 fat steers and feeder calves. However, young Mast and Earl Edmisten allowed their champions to be bid upon. A price of \$20 per 100 pounds was recorded on the grand champion and \$15 per 100 on Edmister's calf before they were bid in by Harry Hamilton, assistant Watauga county farm agent and the man credited with developing the unusual interest in purebred beef cattle in the northwestern county.

Other Entries Sold
Others of the prize winning and
also-ran steers competing in the
morning show were auctioned off to
buyers for the White Provision combuyers for the White Provision com-pany, of Atlanta, Ga., the East Ten-nessee Packing company, of Knox-ville, Tenn. and to a few local farm-ers and livestock breeders who took a faincy to particular animals. These were hard-boiled business men buy-ers, however, and very little senti-ment played a part in their bids.

manship by a 4-H club mer e.r. the same honor his brother, Jc.ii., captured last year. John Edmisten of watauga, was awarded second prize of a leather halter and Miss Hope Tweed, of Madison county, got third prize of a Scotch comb and brush in the phomeanship class. the showmanship class.

Winners Listed Winners in the feeder calf and fat

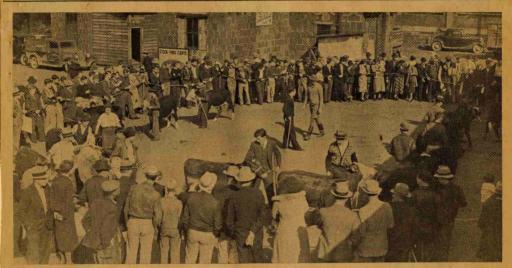
winners in the feeder cair and at steer classes were:
Feeder class: Frank Taylor, Watung county, first prize of \$12; OB Briggs, Madison county, second Discontinuous of \$10; Charles Feeder St. Briggs, Madison county, second Discontinuous of \$10; Charles Feeder St. Baffer County, fourth and the prize of \$6; Miss Carmen Curto, Transylvania county, seventh prize of \$5; Russell Dockery, Weaverville, Buncombe county, eighth prize of \$4; Obnaid Ramsey, Cherokee, ninth prize of \$3; Robert Lovengood, Cherokee County, Light Weight Steers Light weight steer class: Maston Hodges, Watauga, first prize of \$15; Joe Brown, Watauga, second prize of \$12; Burl Greene, Watauga, third prize of \$10; Miss Carmen Curto, Transylvania, fourth prize of \$9; J. D. Wallen. Madison. fifth prize of \$3; Snelson. Buncombe, sixth prize of \$3; Snelson. Buncombe, sixth prize of \$3; Snelson. Buncombe, sixth prize of \$4; and Burlerone. Watauga, county, the weight steer class: Frank Mast, Watauga county, first prize of \$15; Outleil Henson, Watauga, second prize of \$15; Outleil Henson, Watauga, county, fifth award of \$8; Council Henson, Watauga, second prize of \$15; Outleil Henson, Watauga, county, fifth award of \$8; Council Henson, Watauga, second prize of \$10; John Holl, Transyl Shanga, first prize of \$2; May Abel, Hawyood, elephth prize of \$3; Heavy Weight Class
Heavy Weight Steer class: Frank Lamiston, Watauga, first prize of \$1; Way Abel, Hawyood, dourth prize of \$6; Miss Hope Tweed, Madison, eighth prize of \$1; Miss Hope Tweed, Madison, eighth prize of \$1; Miss Hope Tweed, Madison, eighth prize of \$1; Cherokee, Madison, eighth prize of \$1; Cherokee, Miss Hope Tweed, Madison, eighth prize of \$1; Cherokee, Miss Hope Tweed, Miss Hope Tweed

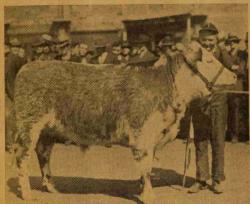
prizes won by members of their re-spective breeders. The Tennesse Coal, Iron and Railroad company, of Birmingham, Ala., presented rolls of wire to the owners of the bulls which

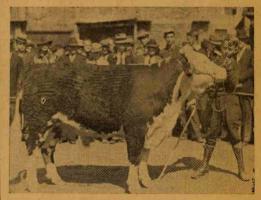
iron and Railroad company, of Birmingham, Ala., presented rolls of wire to the owners of the bulls which aired the first two winning groups in the get-of-sire class.

L. I. Case, of Regions beef cattle specialist of the State College Extension and conduct each of the Asheville shows, was enthusiastic over the good grade of cattle on display resterday. He said steers which won championships four years ago could hardly place in the money now. George M. Wallis, of Biltmoor Farms, was manager of the show He was assisted by C. Y. Tilson and W. Riley Palmer, Buncombe farm agents; G. D. White, Henderson county farm agent members of the agricultural committee of the chamber of commerce, or which M. Welley John C. The Commerce, the control of the control

# Crowd And Champions At Fat Stock Show Here







Part of the crowd which attended the fourth annual Asheville Fat Stock show yesterday at the Asheville Livestock Yards, on Riverside drive, is pictured at the top above. The man leaning on his cane in the center of the ring it J. E. Foster, of State college, Raleigh, one of the judges. Walking toward Mr. Foster, wearing boots, is George M. Wallis, of Bilmore Farms, manager of the show. The lower picture on the left shows Frank Mast, of Valle Crucis, with his 190-pound Hereford steer which won the grand championship and the medium weight class. The lower right picture shows Earl Edmisten, also of Valle Crucis, with his 590-pound Hereford which won the reserve championship and the heavyweight title.

# State College Answers Timely Farm Questions

QUESTION: Is it economical to grind feed for my beef cattle?

ANSWER: Grinding feed does not increase the nutritive value nor does it increase digestability, but corn and cob meal is a safer feed in the hands of an inexperienced feeder than shelled corn. The small hard-coated grains such as rye, wheat and barley should be ground or rolled. Corn stover and other low grade roughages may well be shredded so that the inedible parts may be used for bedding. If feed is ground be sure that it is coarse as fine grinding causes digestive disturbances and the fine ground feed is also more liable to heat and spoil in the bin.

QUESTION: When is the best time to sow seeds in hotbeds for early vegetable crops?

ANSWER: This will depend upon the time the plants are wanted in the field and the section of the State in which the garden is located. In Eastern North Carolina such hardy crops as cabbages and lettuce are sown in the fall in open beds or coldframes and transplanted as early as January 15. In the mountain sections these hardy crops are started in the beds about January 1 to 15. For the early crop of tender vegetables such as tomatoes and peppers ,the seed should be started in hotbeds or window boxes from eight to ten weeks before it is safe to set in the field.

QUESTION: Should grain feed in the poultry flock be increased when artificial lights are used?

ANSWER: The use of artificial light naturally lengthens the feeding period and it is therefore necessary to increase grain consumption in order to maintain the body weight and control egg pproduction. Fourteen pounds of grain to each 100 birds per day is the usual amount to feed when lights are used but grain consumption will vary from month to month. The birds should go to roost every night with their crops full of grain. Mash consumption will also be increased and this should be kept before the birds at all times.

## Breeding Control Important in Cattle

Controlled breeding of beef cattle is important in the production of an economical, well-developed herd, says L. I. Case, beef cattle specialist of the State college extension service.

On the well managed farm, eef cows are generally bred in the late spring or early summer in order that they may ealve at the proper time. In Eastern North Carolina, under average conditions, the bull is allowed to run with the cow herd during May, June and July, and the calves arrive in February, March and April the following year.

During the remainder of the year the bull is kept in a small, stronglyfenced pasture, or lot, either by himself or with a bred cow for company. This same procedure, with perhaps some variations of suit local conditions, is followed in Piedment and Western North Caro-

There are several advantages in having the calves come at the same time of the year. Dry cows can be wintered more easily and cheaply than cows nursing calves. Winter and early spring cows usually grow off faster and make better animals than calves dropped in the summer or fall: Calves dropped at the same time, close together in the spring of the year, can all be weaned at the same time. Their uniform ages makes it possible to pasture, house and feed them together.

Steers of about the same weight and age also can be marked easier, since buyers will make offers for lots when they don't have to guess at the age of the individual steers. Of course, if a small herd is kept and beef is slaughtered for home use the year round, it would be more practical to have the calves dropped at different times. However, controlled breeding will aid

commercial production.

# CALF NEEDS CARE

All Supplementary Fer Should Start at Wean Time If Not Before A good start means a fat of for a beef calf. The first year especially the first winter, is a cal period in the calf's life.

# EASTERN AREA DEMANDS MORE HEIFER CALVES

Supply In WNC Fails To Meet Demand; May Buy From West



# 'RACKETEERS' ARE After ng farmers

Cattle Racketeers Try to Induce Farmers to Buy Cattle in Middle West

College Station, Raleigh, Nov. 14.— Cattle "racketeers" are again at work trying to Induce North Carolina farmers to come to the Middle West and buy "eight-cent cattle for four cents a pound," reports L. I. Case, extension animal husbandman at State Col-

"In my travels over the State, parallarge number of post cards advertising beef cattle at bargain prices in Southeastern lowa, where apparently most of these racketeers ply their trade. Almost without exception investigations have shown that such offers result in the buyer being victimized with cattle not worth even three cents a pound, or paying much more than the advertised price," Case said.

For some time the State College specialist has been combining detective work with his educational duties and has been collecting evidence to help break up the cattle racket. He took up the matter with the Governor of Iowa last summer, who in turn launched an in vestigation through the Iowa Department of Justice. Since that time the Post Office Department has interested itself in the case, with the view of prosecuting the guilty parties for using the mails to defraud.

Case has been collecting the aforementioned post cards and turning them over to a postal inspector in Raleigh. It is understood that several arrests have been made by Federal agents in Iowa and trials are scheduled at spring terms of U. S. courts.

"With the large demand for beef calves, especially helfers, in Eastern North Carolina, it is feared that some of our farmers will fall prey to the racketeers," Case said. "If they will consult their county agent, he can tell them whether they are dealing with reliable dealers."

# HEREFORD CATTLE POPULAR IN STATE

N. C. Gaining Reputation For Good Polled Hereford Cattle; Many Importations

College Station, Raleigh, Jan. 2— North Carolina is gaining a reputation for good polled Horeford cattle. This breed is becoming increasingly popular and several new breeders started herds of the hornless cattle in 1938.

L. I. Case, beef cattle specialist of the State College Extension Service, reports a number of large importations from the western states in the past few months. Dr. R. E. Earp, who owns the large Brookhill Farms near Selma in Johnston County, recently brught 47 head of Polled Herefords, including a herd bull, from John M. Lewis & Sons of Larned, Kansas; George Trenfield of Folett, Texas; M. E. Fry & Sons of Brownwood, Texas; and Halbert & Hogget of Mertzon, Texas.

Cameron Morrison of --orrocroft Farms near Charlotte, one of the largest Polled Hereford † eders in the State, also shipped in a carload, including a bull, within the past few mor-ths. He was aided in the selection of his purchases by B. O. Gamenon, secretary of the American Polled Hereford Association of Des

Moines, Iowa.

J. Z. Cleveland of Henderson County, a comparatively new breeder, has been buying in the past year from Wyoming and Virginia. R. C. Hunter of Jackson County, another mountain farmer, recently shipped in a carload of heifers and re-sold part of them.

James G. K. McClure and Dr. J. M. Lynch, both of Buncombe County, bought herd bulls from the West within the past year. They are among the leading Polled Hereford breeders in the State.

Other well known breaders of these beef animals include: J. F. Hampton of Linville in Avery County, H. G. Shelton of Speed in Edge-combe County, B. B. Miller at Mt. Ulla in Rowan County, J. A. Whitmire of Bread in Transylvania County, as W. E. Webb and M. C. Stimson, both of Iredell County.

# Farmers Urged Heed Warnings

#### Planting Cover Crop is Foundation; South Has the Advantage

Raleigh, Aug. 29.—North Carolina could be the outstanding livestock State in the Union, in the opinion of L. I. Case, State College extension specialist in animal husbandry.

Some farmers, he said, are taking advantage of this State's climate, rainfall, and soil to build up profitable livestock enterprises on their farms, but a great many are still neglecting their opportunities.

One of the main advantages of this State is that winter cover crops can be used for grazing the animals at a time when growers in northern states have to fall back on hay, silage, grain, and other stored feeds.

other stored feeds.

He pointed to Hugh MacRae, prominent New Hanover County farmer, who has a fine dairy herd that is fed largely on grazing crops the year round. Good pastures, legumes, and winter cover crops not only produce excellent feed but also cut MacRae's milk production costs to a minimum.

Case also called attention to the experience of J. G. Staton of Williamston with winter cover crops. Last spring, Staton shipped 23 lambs that graded choice and averaged 98 pounds each. The flock from which these lambs came had been fed almost entirely on winter cover crops of oats and vetch.

The year before, Staton grazed a carload of yearlings and twoyear-old steers on the same type of winter crops. The animals gained over 200 pounds per head and netted him a profit of \$50 each.

At the State College animal husbandry farm, Case continued, 20 acres of crimson clover and rye grass furnished grazing for yearling accers and sheep last winter. During 84 days 22 yearlings gained an average of 203.7 pounds each on this feed.

# Case Says Sheep Are Profit Source

"There's profit in sheep."

L. L. Case, extension specialist in animal husbandry at State College, made this statement after looking over records which sheep growers from all parts of North Carolina kept during 1937.

Sixty-one complete records were submitted to State College which show an average gross income per ewe of \$9.36. These incomes range from as low as \$3.54 to as high as \$17.53 Case said.

The records indicated that Piedmont and mountain farmers were able to secure a larger gross income from sheep than were farmers in the Eastern part of the State.

"However," Case declared, "I believe that if we had accurate cost records, the East would show an equal or greater net income than our mountain farmers because eastern farmers are able to keep their flocks during the winter at a much lower cost."

Of the 61 records turned in, 23 showed a gross income per ewe of more than \$10. With one excention, all of these 23 flocks produced better than a 100 per cent lamb crop, or in other words, more than one lamb was raised to market age and weight for each ewe. Top honors among the records went to the King brothers, Route 2. Statesville, who made a gross income of \$17.53 per ewe. They raised 15 lambs from 10 ewes, controlled stomach worms by treatment and the rotation of pastures, and docked their lambs. The wool

average of 42 cents per pound. L. C. Hampton, Straford. Alleghany County, made the next best record, his ewes grossing \$14.93 each.

clip averaged over eight pounds per head in 1937 and brought an

# BEEF CA

Estimate Last Year's Vol ume of Business at 3 Million Dollars

Sales of beef cattle and sheep brought Western North Carolina farmers an estimated \$3,000,000 eash income last year.

The estimate was made by L. I Case, animal husbandry specialist of the State College extension ser-

vice.

Last year, Haywood county farmers sold 6,000 head of beef cattle for close to \$312,000. This number amounted to 31 per cent of the cattle population of the county according to the last fed-

evalve according to the control of the country according to the other 16 mountain counties, and striking an average figure for the sale price of an individual animal, he estimated the beef cattle sales for all 17 mountain counties at \$2,750,000 to \$2,-

800,000. To this figure he added the \$380,850 income from sheep in

\$380,850 income from sheep in the same western counties, which brought the total to more than \$3,000,000, which Case believes is a conservative estimate.

Beef eartie and sheep have been grazing on Western North Carolina mountain slopes for years, gathering the luxuriant grasses and converting them into an edible product.

ble product.
"They are one of the mainstays of our highland country, and everything possible should be done to improve our pastures and our livestock in this region," Case de-clared.

# FATHER TEACHES SON LIVECTO

Jones County Farmer Learns Cattle Raising From His Father-And Is Good Pupil

Raleigh, Jan. 17-E. E. Bell learned from his father how to be a good cat-

This Jones County farmer who lives near Pollocksville is one of the oldest and most successful cattleraisers in Eastern North Carolina, according to L. I. Case, extension animal husbandman at State College,

Bell's father handled large numbers of cattle prior to tick eradication, and it is probably from his early exper-ience that the son received his fond-ness for cattle and horses, Case said. At the persent time, Bell has about

fifty purebred and grade Herefords, Case said that from the stalk fields Bell will transfer his animals into a field of volvet beans which will probably carry them until the middle of February or the first of March. From then until permanent pasture is ready, the cattle will be fed in the lot on silage and soybean hay.

The State College specialist pointed out that the average farmer has difficulty in providing his animals with feed about twice a year. First time is in the fall when permanent pasture is gone and before the corn is gathered and the stalk fields are ready for the cattle.

The other time is in the Spring after the fields have been plowed and before permanent pasture is ready fo rgrazing.

Case declared that this Jones County farmer puts up an abundance of hay and has an upright silo filled with silege to bridge the gap when feed becomes scarce.

# GOOD NATIVE **BEEF POSSIBLE**

College Station, Raleigh, Oct. 20. College Station, Raleign, Oct. 20.
—Despite a contrary opinion, native beef as fine as that grown, anywhere in the West can be produced in North Carolina, according to L. I. Case, extension animal husbandman at State col-

"Over a period of years," Case said, "Western meats have become more highly regarded than our native meats. This has been due to the superior curing process which the out-of-state packers use.

"If North Carolina produced meats from some of our better ani-mals were allowed to ripen in the same way as the Western beeves,

the same high quality and tender- ties. "The 4-H club members and their

ness would prevail."
The State college specialist pointed out the beef animals exhibited by 4-H club members at the State fair last week and at other shows as good examples of the superior

as good examples of the superior meats which can be grown within the confines of this state.

Not only are the mountain counties producing fine calves now, but many of the eastern counties also are growing excellent cattle. Becoming increasingly important as beef cattle centers are Johnston, Mayne, Franklin, Pitt, Nash, Edgewords, Asheville, Rocky Mount and other towns, acach year in putting on fat combe, Durham and Halifax coun-

calf projects are pointing the way in our march toward higher grade meat animals," Case declared. "With their achievements in this field, these boys have indicated definite-

#### THE GLEANERS



Now that eastern Carolina farmers have learned that beef cattle may Now that eastern Carolina farmers have learned that beef cattle may they get choice lamb prices. Nothbe used successfully in gleaning fields of corn and velvet beans, corn and ing is subtracted from the price soybeans, or other fields where large amounts of coarse roughage are sayslable, there has been a steady increase in the number of such cattle being added. L. I. Case, livestock specialist of the State College Extension Service, says farmers in good financial condition can help this movement Service, says farmers in good financial condition can help this movement by buying cattle in carlots and letting some of the animals out to smaller by buying cattle in carlots and letting some of the animals out to smaller farmers at cost or at a small nominal profit. The above snapshot was grading service, conducted under farmers at cost or at a small nominal profit. The above snapshot was grading service, conducted under farmers at cost or at a small nominal profit. The above snapshot was grading service, conducted under farmers at cost or at a small nominal profit. The above snapshot was grading service, conducted under farmers at cost or at a small nominal profit. The above snapshot was grading service, conducted under farmers at cost or at a small nominal profit. The above snapshot was grading service, conducted under farmers at cost or at a small nominal profit. The above snapshot was grading service, conducted under farmers at cost or at a small nominal profit. The above snapshot was grading service, conducted under farmers at cost or at a small nominal profit. The above snapshot was grading service, conducted under farmers at cost or at a small nominal profit. The above snapshot was grading service, conducted under farmers at cost or at a small nominal profit. The above snapshot was grading service, conducted under farmers at cost or at a small nominal profit. The above snapshot was grading service, conducted under farmers at cost or at a small nominal profit.

# Cooperative Grading of Lambs Spreads

Special to News-Argus College Station, Raleigh, I 24.—The cooperative grading and elling of lambs made its d ebut Alleghany county in 1934, but the few years since, the idea has caught and spread among the farmers through all the sheep North producing sections of

Carolina.

L. I. Case, extension animal husbandman at State College, pointed out today that nearly 5,000 lambs were sold under this arrangement in 1937, with shipments being made from 13 coun-

Alleghany and Watauga shipped the bulk of this number, but cooperative sales were made from Ashe, Mitchell, Yancey, and Madison in the west, and from Edgecombe, Nash, Hyde, Washington, Tyrrell, Currituck, Camden, and

Hertford counties in the east.

Case attributed the increasing popularity of this method of selling to the fact that growers get exactly what their lambs are worth. If they have choice lambs, they get choice lamb prices. Noth-

methods.

As an example of this, Case pointed out that in 1935, only 6.5 per cent of the lambs shipped from Alleghany and Watauga counties were graded good or

# LIVESTOCK GREAT AID IN SOIL IMPROVEMENT

Proper Care of Manure Would Save Farmers In State Much Money.

IT IS OFTEN WASTED

By L. I. CASE.

The agricultural adjustment administration and its soil building program is arousing much interest among farmers in soil conservation and soil improvement, through the growing of legumes, cover crops, terracing, liming and other good practices. This is as it should be, but in addition farmers more generally should become conscious of the value of stable manure and the advantage of keeping livestock for the indirect benefits derived through soil improvement.

through soil improvement.

North Carolina annually uses about 1,000,000 tons of commercial fertilizer per year. The cost of this fertilizer will no doubt average about \$25 per ton. The state is, therefore, spending approximately \$25,000,000 per year for commercial artilizers. Much of this expense could be eliminated if feed crops and livestock were more generally combined with our cash crop system of arming. Furthermore, great savings would be effected if the farm manure now produced were better carea for.

The cattle and horses alone in North Carolina annually produce manure which based on fertilizing elements alone, is worth fully \$15,000,000. In addition there is much value in the organic matter which value in the organic matter which

The cattle and horses alone in North Carolina annually produce manure which, based on fertilizing elements alone, is worth fully \$15,000,000. In addition there is much value in the organic matter which manures add to the soil. Then too manures contain many kinds of bacteria which bring about chemical changes in the soil itself as well as in the manure, thus releasing plant foods that would not otherwise be available. Furthermore, the humus formed from the organic matter in manure is very valuable in retaining moisture and improving soil texture.

The foregoing serves to emphasize the importance of taking proper care of farm manure in order that its many values may not be lost. On most farms, a large percentage of manure produced fails to reach the fields where it is needed. Instead, it is piled on the ground under the eaves of a barn or trampled into the mud of a barn lot where the rains wash its valuable fertilizing elements into a nearby stream or is otherwise dissipated. No doubt fully half the manure produced on the average farm is lost.

Use Plenty of Bedding.

In view of the fact that more than half the nitrogen and potassium contained in manure is in liquid form it is extremely important that ample bedding be used. The amount needed will depend upon how stock are being handled. Where steers or other stock are being fed in a barn or open shed a sufficient amount of dry litter should be scattered each day to keep a dry bed. This will keep the stock comfortable as well as conserve the manure. Under this system the manure may be hauled whenever the weather permits, scattering it on the fields, or it may be allowed to accumulate the entire feeding period.

Where it is necessary, for sanitary reasons, to remove the manure each day, as is the case with dairy cattle, it may be taken directly to the fields or stored in a pit. Such a pit should have concrete or otherwise water-tight floor and walls. When no pit is available and it is necessary to pile manure out of doors, it should be well packed and kept damp to prevent fermentation. The pile should be made high with perpendicular sides and the top sloping toward the center. This allows moisture to soak into the pile rather than drain off.

# BEANS AND BEEF SHITED TO EAST

#### Both Velvet And Soybeans Are Used Extensively To Fatten Steers

Beans and beef are practically ynonymous on many cattle-pro ducing farms in eastern North Carolina. Both velvet beans and soybeans are used extensively to fatten steers.

L. I. Case, beef cattle and sheer specialist of the State College Extension Service, strongly advocates the "steering and hogging down" of velvet beans and corn for winter grazing and soil improvement in Eastern North Carolina, especially on lighter soils.

Two instances where grazing on

bean fields is proving successful for beef cattle are cited by Case, one in Robeson county and the other in Cumberland county. W. H. Marsh, who operates a

farm near Fayetteville, recently bought 26 steers and 26 heifers from the Highland Hereford Association of Southwest Texas, with headquarters at Marfa, Texas. The steers averaged 373 pounds in weight and the heifers 427 pounds. Upon their arrival they were placed on a field of soybeans for an hour or two each day and fed in a shed all the corn and cotton seed meal they would eat, Gradually the length of time they were allowed to remain in the bean field was increased each day, until now they are grazing on soybeans four to five hours a day.

Already the 52 head of Here-

fords have regained the weight they lost in shipping and soon they lost in shipping and soon Mr. Marsh plans to follow Case's advice and put the cattle on full feed in the lot.

In this connection, the extension animal husbandman says: "Cattle feeding do well on soybean stalks. This utilizes feed which might otherwise be wasted and it also gives the cattle a chance to recover from their trip to the farm. They may well be carried under such conditions for from one to three weeks but should be put into the feed lot before they stop

mot the feed lot before they stop making satisfactory gains." Mr. Marsh, who is president of the Fayeteville Supply company and president of a new Industrial Bank in Fayetteville, plans, to fatten the 26 heifers for the sping or early summer market and keep the steers for the late summer early fall market. He originally intended to select some of the helfers for breeding and start a Hereford herd, but within the past week he told Case he had decided to see what he could do with a quick turnover on this first lot of Western cattle and possibly start his herd the following year.

The other instance where suc cess resulted from the use of beans for winter grazing is on the Raynham farm of George L. Pate, near Rowland in Robeson county. This young farmer, who was recently re-elected chairman of the county AAA committee for 1939, began raising livestock on a large scale in 1930. He has a fine registered Hereford bull on his place and does some breeding. However he usually buys grade cattle and feeds them out for the market.

Following Case's advice, Young Pate has conducted demonstrations of steering and hogging down vel-vet beans and cora, keeping accurate records each year. One of his demonstrations resulted as follower.

#### Beans and Corn

Twenty acres was planted in velvet beans and corn. One-half of the corn was gathered, leaving approximately 22% bushels of corn on the field. He had a good stand of well fruited beans. He turned 30 head of steers, averaging 604 pounds each, into the field. He left them in the field for 41 days and they gained an average 2.05 pounds each per day. then turned 26 hogs averaging 125 pounds each into the field and left them 43 days, They gained 1.105 pounds a head per day.

Pate also reported that his yield of cotton, corn and other crops the following year was materially increased from this soil building

On the corn yield basis, the demonstration mentioned shows that 269.23 pounds of corn was required to produce 100 pounds of beef and pork.

Mr. Pate recently bought 90 head of steers in western North Carolina, including 25 for David H. Fuller of Lumberton and 12 for Angus Pate, also of Rowland, Mr. Pate now has 87 head of mixed breeds on his farm, 57 of which are on a velvet bean and corn pasture and 30 head in his barns. He has built troughs in a pasture and feeds the pastured steers each day. To the entire lot of 87 he gives 1,000 pounds of crushed corn and 4 1-2 bags of cottonseed meal each feeding.

George Pate is the son of G. M. Pate, prominent Robeson county banker and president of the N. C. Cotton Growers Cooperative association.

#### Freezer Locker

David H. Fuller, for whom Mr. Pate bought the 25 head of cattle in the western part of the state, is financing a \$25,000 freezer locker unit at Lumberton, which will be opened about November 21.

R. E. Nance, formerly assistant professor of animal husbandry at State college and more recently assistant farm agent in Robeson county, will manage the freezer locker plant. Mr. Nance is one of the best informed men on meats and meat-cutting in the south.

Animal Husbandman Case ex-pects the Robeson freezer locker and meat storage plant to greatly increase interest in the livestock industry in that section of the state. "Now farmers can produce livestock, butcher it and store it in the lockers for home use with out the danger of spoiling through improper cutting and curing, as well as eliminate the dan-ger from unfavorable weather,"

The Robeson plant will be the only refrigerated unit for the storage of meats, fruits and vegetables between Wilmington and Florence and is the first freezer locker unit built and designed especially for

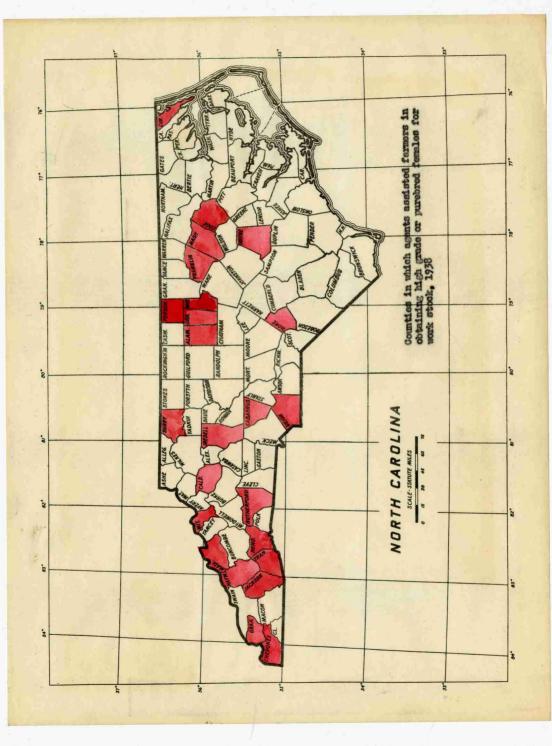
that purpose in the state. . Already the demand for beef calves in eastern North Carolina is exceeding the supply, Case says. "I am having inquiries almost daily for information about the source of beef calves, especially heifers for breeding purposes. Western North Carolina is not overstocked and our best hope is that some large eastern North Caro-lina cattlemen will buy car-load lots of western stock and resell them, in small lots at a fair profit for handling, to nearby farmers."

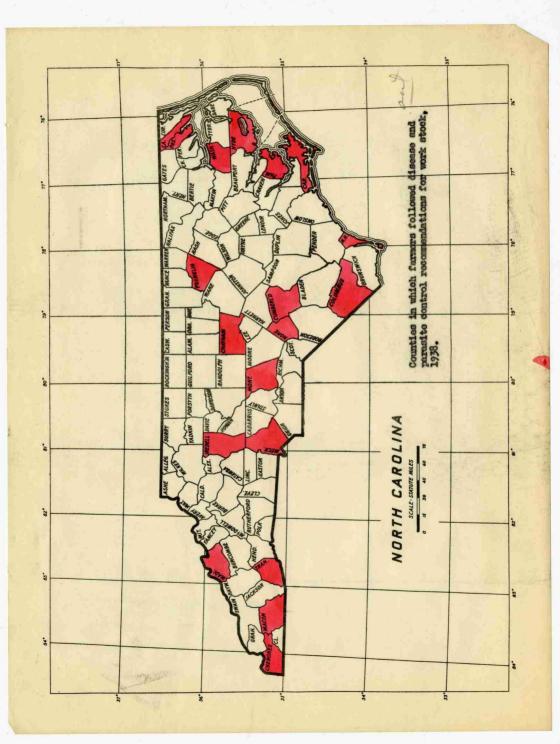
Case reports that, in addition to

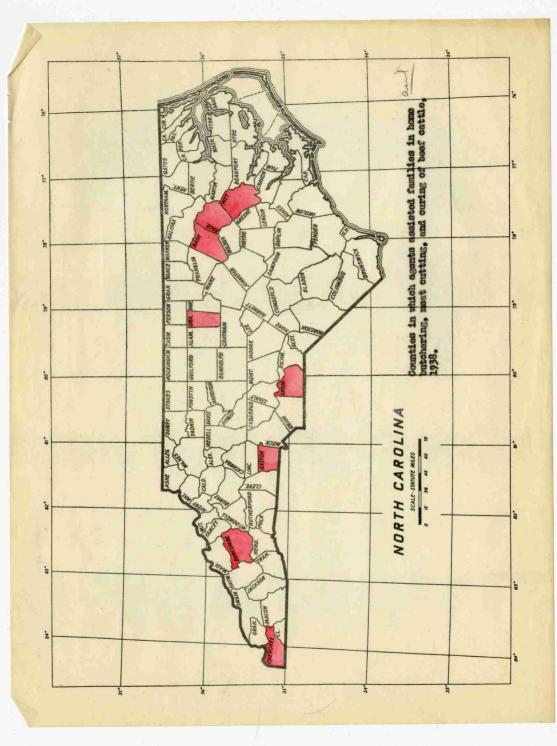
Mr. Marsh and Mr. Pate, large lots of cattle have recently been shipped in by Clyde Upchurch of Raeford, 19 head from Wythe-ville, Va.; T. J. Pearsall of Edgecombe county, a load from Ala-bama, and Rowan Mills of Salis-bury, 25 heifers from western North Carolina.

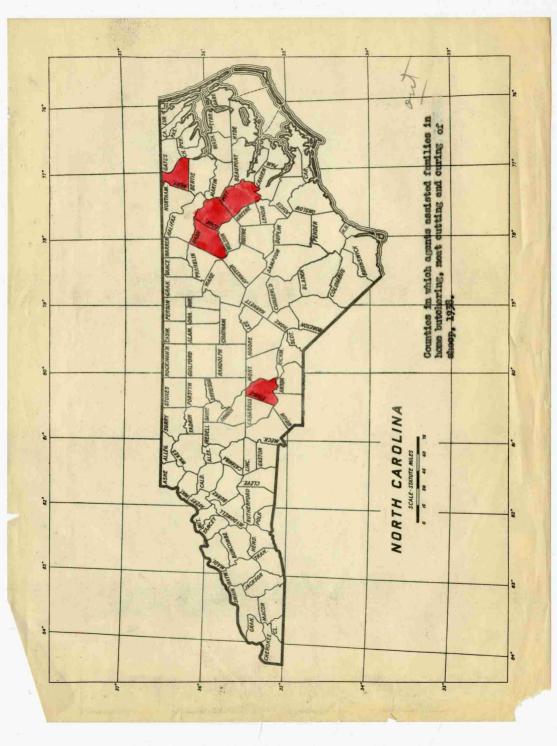
"The two main objects of fattening cattle are the marketing of crops and the production of manure for soil improvement," says. "The farmer should determine the number of cattle that he can feed to the best advantage through an average year and make that a part of his regular farm program. In this way cattle feed-ing will be profitable in the long run, if due credit is allowed for the manue produced."

To illustrate his point, Case quoted a North Carolina farmer as follows: "I very seldom make money feeding cattle, but I never made any money farming until I started feeding cattle as a part of my regular farming program."









TOTAL SUMMARY OF HOG SALES F.O.B. BURGAW, COFIELD, ELIZABETHTOWN, FAYETTEVILLE, FOUR OAKS, GREENVILLE, LUMBERTON, NEW BERN, PLYMOUTH

ROWLAND, SHAWBORO, TARBORO, WARSAW AND WASHINGTON.

During the period from Jan. 1, 1937 to Nov. 30, 1937

4/ Column 4 indicates average price by grades and totals.

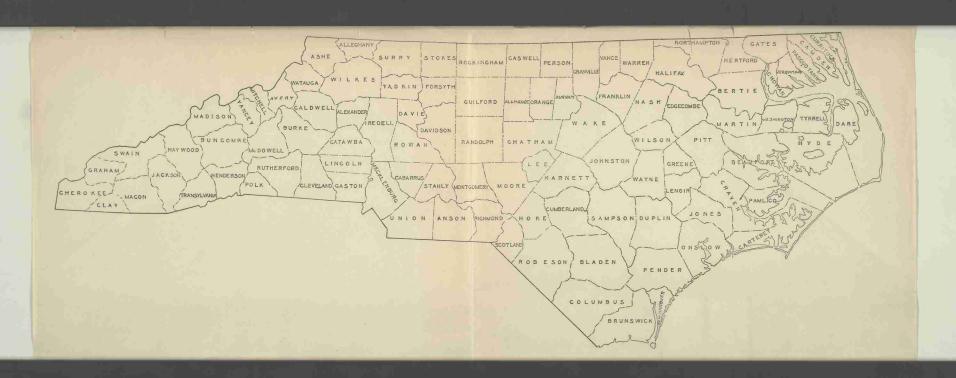
5/ Column 5 indicates percentage of total hogs in each grade.
6/ Column 6 indicates percentage of total pounds in each grade.
7/ Column 7 indicates percentage of total money for each grade, local expense, etc.

1	2	3	4	5	6	7	8		
Grade	No. Head Weight			Head %	Weight %	Money %	\$-Amount		
100/140	3272	404141	8.95	6.77	4.27	3.80	36157.94		
140/160	5450	818191	10.01	11.29	8.64	8.60	81863.75		
160/180	7062	1189184	10.24	14.62	12.55	12.80	121797.10		
180/250	28000	5694749	10.32	57.98	60.11	61.79	587944.92		
250/300	1610	438763	9.80	3.33	4.63	4.52	42997 • 33		
300/Up	404	138655	9.50	0.84	1.46	1.38	13165.80		
Sows	2233	695444	8.78	4.62	7.34	6.42	61055.48		
Stags	266	94916	6.93	0.55	1.00	0.69	6579.38		
Total	48297	9474043	10.04	100.00	100,00	100.00	951,561.70		
Soft	1707	332854		3.53	3.52	0.31	2961.35		
Oily	1056 223813			2.19	2.36	0.41	3871.59		
Total	2763	556667		5.72	5.88	0.72	6832.94		
Local E	xpense					1.06	10077.65		
Commiss					4, )	0.25	2380.47		
		ion & Expe	nse	12.13		1.31	12458.12		
		Soft, Oi		mission		2.03	19291.06		
Net			9.84	A CONTRACTOR OF THE PARTY OF TH		97.97	932,270.64		

Average Transit Shrink 5.62 percent (Simple Average) Average Dressed Yield 75.34 percent (Simple Average)

NOTE: Shrink figures secured on 81 percent of shipments. Yield figures secured on 80 percent of shipments

OFFICE OF SWINE EXTENSION, STATE COLLEGE STATION, RALEIGH, N. C.



Teecler Cattle acea MADE IN U. S. A 1925 To sleeps on B 70 hof4 2550# Q 560 + 600574 24/235 oct folion to dato
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## DAIRY CATTLE, BEEF CATTLE, SHEEP, SWINE, AND HORSES

Report Only This Year's Extension Activities and Results That Can Be Verified

	2792	ITEM TO A STATE OF THE STATE OF	Deiry caule	Boef cattle	Sheep (c)	Stine	Horses and mules	Other livestock <sup>1</sup>	
1	214.	Days devoted to line of work by: (1) Home demonstration agents.							
-		(2) 4-H Club agents		575%	37 15234	ne of wo	40	Days de	214
		(4) Specialists		28/8/2	97		CONTRACTOR OF	750	
	215. 216.	Number of communities in which work was conducted. Number of voluntary local leaders or committeemen assisting.		214	2900		123	-(6)	215
	217.	Days of assistance rendered by voluntary leaders or committeemen.		515	2,	CONCERNATION	de de la competit		216
	218	Number of adult result demonstrations conducted	mindens	239,	77 30	eilice in: ary lucal	6,2	Personal Per	217
		Number of meetings at result demonstrations.	20 - 3	1022	slov vd l	tenderes	ount it,	You manual	218
		Number of method-demonstration meetings held	-	1255	924		5,2		219
		Number of other meetings held.	in the state of th	1222	1,	STATE OF STREET	12	-parkerst/i-	220
		Number of news stories published		23,74	12,8	1000-60-03	1025	rendezailă.	221
		Number of different circular letters issued.	1	1642	83	PRESERVE AND ADDRESS OF THE PARTY OF THE PAR	58	-markettyl-	222
		Number of farm or home visits made.		1894	35 404	- WARRENGE	562	AMELICANIA.	223
		Number of office calls received		3476	10 63	***********	1309	esectoris (I.	224
			_	1375	2,	LOGSONIO O	56	-packettik-	225
	226.	Number of 4-H Club members enrolled. (2) Girls	_	3		re-entend-s		-resignation	226
	227.	Number of 4-H Club members com- (1) Boys		930	1/	son duta	2	-parlosssag.	227
	228.	Number of animals in projects conducted by 4-H Club	-	10 3			2.	ballos	3221
		members completing		345	21	main out	11	anaricanya-	228
1	229. 230.	Number of farmers assisted in obtaining purebred sires. Number of farmers assisted in obtaining high-grade or purebred females		23/2	\$18		778	gillelq	229
	231.	Number of bull, boar, ram, or stallion circles or clubs organized or assisted	er accidio	1,		guiquasi	22	Terrenti's	230
	232	Number of members in preceding circles or clubs	terabecces	AUIT YND	ng-itr-term	Atthacent o	1101/11-10	animmik.	231
	233.	Number of herd or flock-improvement associations organized or assisted.	bout to g	(day tu)	midomi ni	Destalace	15	Number	232
	234.	Number of members in these associations	ed to so e	120	nidam ni	Indeless (	of Chemica	Number	233
	235.	Number of farmers not in associations keeping per- formance records of animals.	of allows to	5,5	27	SEAR SILVE	o month	taction.	234
	236.	Number of families assisted in home butchering, meat cutting, and curing	inditions:	4-	2,,	pristan:	estront le	Number	235
	237.	Number of families assisted in butter and cheese mak- ing	Ancetaco	I moles	14	2	Albrenton .	rodbood 4	236
	238.	Number of farmers following parasite-control recom- mendations	-	8117	23/01	ZL	520	201 00	237
	239.	Number of farmers following disease-control recom- mendations.	interestal	12	771	basivias.	427	Number	238
	240.	Number of farmers following marketing recommenda-	ADMINISTRA	1427	470	SECTION 1	2,5	Thirthian	239
	241.	Number of farmers assisted in using timely economic information as a basis for readjusting enterprise.	or other e	1422	335	ng farm	3 12 1	(8)	240
	242.	Number of farms for which production-reduction con- tracts were signed.	elefanos for		30	State State	122	(9)	241
	243.	Tracts were signed.  Total reduction in number of animals on such farms in accordance with contracts reported in question 242.	o have bu	dw surrai	of guivou	i sollima	dedm fo	Nullaber	242
	1 II	aclude rabbits, goats, game and fur animals.						2002210270	243

<sup>&</sup>lt;sup>1</sup> Include rabbits, goats, game and fur animals.

<sup>2</sup> Include all corn and hog contracts. This total should agree with 64(a).

AGRICULTURAL ECONOMICS
Report Only This Year's Extension Activities and Results That Can Be Verified

		Vilet	Public	FARM	MANAGE	MENT			
	ITEM	a no I ec	mic plan- ning on ounty or mining of mining of	Farm rec- ords (in- ventories, accounts, etc.)	Individual farm plan- ning	Farm and home fi- nancing (short and long time)	Outlook	Marketing, buying, selling, and financing	1
			(a)	(b)	(c)	(d)	(e)	(n	
244.	Days devoted to line of work by:					and programme	duni Be	C102	
	(1) Home demonstration agents					primme is	tuttimbes/	(8)	1
	(2) 4 H Club agents						toliciano)	. 192	
	(3) Agricultural agents		(b) (b)	nca kare a	move globite	e al milita	of sometimes	no.book	2
	(4) Specialists							Helek	
245.	Number of communities in which work was co			CONT. STORY	MINE Yes	and the second	remaining (2	PERSON.	2
246.	Number of voluntary local leaders or commi	tteemen		suferior au	olfesbas	ands diseas		Standary.	2
247.	Days of assistance rendered by voluntary le	aders or		ampliferity	enimb H	mor da as	million 58	The Company	2
040	Number of adult result demonstrations condu			Ford amorting	nam and tark	harman h	Sent Same To	to the original to	
									2
	Number of meetings at result demonstrations								2
	Number of method-demonstration meetings he					and seno	8 EWDH 10	7 (1 11 12 12 12 12 12 12 12 12 12 12 12 12	2
	Number of other meetings held					tafustio 4	erellib ho	reclass 66	2
252.	Number of news stories published				Bom white	ly smod :	o munit lo	Number	2
253.	Number of different circular letters issued				bor bor	disser alla	s audito lo	Number	2
254.	Number of farm or home visits made		- ing	off (t))					2
	Number of office calls received.			<b>a</b> (a) f		permint of		Pagaranaran:	2
	(d) B	ove v	v v v	oct (1))	ARROW MINOS	****	xxxx	xxxx	,
256.	Number of 4-H Club members en- {(1) B rolled (2) G	inla		103 703 F				amineles	2
					INTERIOR ISS	and the same of	xxxx	xxxx	100
257.	Number of 4-H Club members completing (2) G	oysx	XXX			xxxx	xxxx	xxxx	2
-	Pre-118 (2) G	irls x	xxx		definite o	XXXX	xxxx	xxxx	J
58.	Number of farmers keeping farm accounts three	oughout the	year u	nder supe	rvision of	agent	$\begin{cases} (a) & \text{Reg} \\ (b) & \text{A.A.} \end{cases}$	gular	2
259.	Number of farmers keeping cost-of-production	records un	der sup	ervision o	of agent				. 25
	Number of farmers assisted in summarizing as Number of farmers assisted in making inventor								
	Number of farmers assisted in obtaining credi								
63.	Number of farmers assisted in making mortga	ge or other	debt ac	ljustment	8				. 20
	Number of farm credit associations assisted in								
	Number of farm business or enterprise-survey Number of farmers making recommended chan							THE PERSON NA	. 20
00.	survey records	ges in their	busines	s as result	or keepin	gaccount	sor		24
67.	Number of other farmers adopting cropping,	livestock, or	r comp	lete farmi	ng systen	accordi	ng	Anchitecks.	2
	to recommendations								
	Number of farmers advised relative to leases.								
70	Number of farmers assisted in developing sup	piemental so	ources (	of income.					. 20
.0.	Number of families assisted in reducing cash (a) By exchange of labor or machinery	expenditure:							103
	(b) By bartering farm or home products in								1
	(c) By producing larger part of food on f								2
	(d) By making own repairs of buildings a								1
	Number of urban families moving to farms wh	a Lane Lane		23 ( 24 24 24 24 24 24 24 24 24 24 24 24 24		2.1 1			0
	Number of farm families on relief assisted to h								

# DAIRY CATTLE, BEEF CATTLE, SHEEP, SWINE, AND HORSES

Report Only This Year's Extension Activities and Results That Can Be Verified

215. Numl 216. Numl 217. Days conditions of the	rs devoted to line of work by: (1) Home demonstration agents. (2) 4-H Club agents. (3) Agricultural agents. (4) Specialists. (4) Specialists. (5) The specialists which work was conducted mber of voluntary local leaders or committeemen sisting. (7) The specialists which work was conducted more of voluntary local leaders or committeemen sisting. (8) The specialists which work was conducted more of adult result demonstrations conducted may be a special special special specialist with the specialist was a special specialist with the specialist was a special specialist with the specialist was a specialist with the specialist was a special specialist with the specialist was a specialist was a specialist with the specialist was a specialist with the specialist was a spec	Dairy eattle (a)	Beef cattle (b) 24 \$7 \$880.55 \$4 92.30 \$6 32.8 \$14 \$80 \$13 \$1.	Sheep (e)  11  56 246.40  15 29.40  52 195 "70	Swine (d)	Horses and mules (e)  12 68 364	Other livestock! (f)	214
215. Numl 216. Numl 217. Days conditions of the	(1) Home demonstration agents. (2) 4-H Club agents. (3) Agricultural agents. (4) Specialists. (4) Specialists. (5) The specialists which work was conducted more of voluntary local leaders or committeemen ssisting. (6) The specialists which work was conducted more of voluntary local leaders or committeemen sisting. (7) The specialists was conducted by voluntary leaders or committeemen. (8) The specialists was conducted by voluntary leaders or committeemen. (9) The specialists was conducted by voluntary leaders or committeemen.	(a)	124 81 880,55 4192,30 80 328 14 80	11 56 246.40 15 29.40 52	(d)	12 68 364 4 8		214
215. Numl 216. Numl 217. Days conditions of the	(1) Home demonstration agents. (2) 4-H Club agents. (3) Agricultural agents. (4) Specialists. (4) Specialists. (5) The specialists which work was conducted more of voluntary local leaders or committeemen ssisting. (6) The specialists which work was conducted more of voluntary local leaders or committeemen sisting. (7) The specialists was conducted by voluntary leaders or committeemen. (8) The specialists was conducted by voluntary leaders or committeemen. (9) The specialists was conducted by voluntary leaders or committeemen.		81 880,55 41 92,30 80 32.8 14 80	56 246.40 15 29.40 52	nove to sur	68 364	23 91. 7	214
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215. Numl 216. Numl 217. Days 217. Days 218. Numl 219. Numl 220. Numl 221. Num 222. Num 223. Num 224. Num 226. Num 227. Num 227. Num 228. Num 229. Num 230. Num 231. Num 231. Num 231. Num 233. Num 233. Num 234. Num 234. Num 235. Num 236. Num 237. Num 238. Num 238. Num 239. Num 249.	mber of communities in which work was conducted mber of voluntary local leaders or committeemen ssisting ys of assistance rendered by voluntary leaders or ommitteemen mber of adult result demonstrations conducted mber of meetings at result demonstrations	7	14 80			62		)
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229. Num 230. Num or 231. Num org 232. Num 233. Num	imber of animals in projects conducted by 4-H Club	2	16,04	4 37		14/4	,,	,
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233. Num org	organized or assisted			0.0000000000000000000000000000000000000		1 3		231
org	umber of members in preceding circles or clubs umber of herd or flock-improvement associations	Description of the last	28)	1/12		27		232
234. Num	organized or assisted		2		de de de de la constante de la	126		233
	imber of members in these associations.	15000 10	390	10		Entra del		234
for	imber of farmers not in associations keeping per- formance records of animals.		16	4 4		4 6	New Year	235
en	umber of families assisted in home butchering, meat		10 67	259	and and	i cercanal l	ANIMEN M	236
237. Num	cutting, and curing	1	xxxx	xxxx	xxxx	xxxx	xxxx	237
238. Nun	cutting, and curing	1	14/13	39 301	200	11/7	16	238
239. Nun	cutting, and curing		1124	15 106	deliveres y	15 316	1205	239
240. Nun	cutting, and curing umber of families assisted in butter and cheese mak- ing	er timbro			-	1888	O TROUTERONS	240
241. Nun in	cutting, and curing umber of families assisted in butter and cheese making umber of farmers following parasite-control recommendations. umber of farmers following disease-control recommendations. umber of farmers following marketing recommenda-		16414	17 317	Besteller	6 33	of anylong March	

1 Include rabbits, goats, game and fur animals.

J. D. Case

8-8618

WEEK ENDING\_

# NORTH CAROLINA EMERGENCY RELIEF ADMINISTRATION

## RALEIGH, N. C.

# EXPENSE ACCOUNT

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- Names of specialists employed on project and how the work is divided among them.
- Explain current changes in the State extension organization which affect
  this project, and significant changes in the relation of this project to
  other extension projects and to the experimental and teaching work in this
  subject, if any.
- List adult and junior phases of the project carried on in 1936. Summarize briefly:

(a) Factors which determined inclusion in year's program.

(b) Ultimate goals and goals for the year.

· (c) Number of counties in which each phase was conducted during year.

4. Methods and accomplishments. Discuss each phase of work separately, giving most emphasis to those lines of work of greatest relative importance. Where the same general plan is followed in conducting several phases of your work describe fully but once, and show variations from plan in other cases.

(a) How the work was done. - Give methods followed, and the extent to which the various teaching means and agencies were utilized. Show cooperation received from: (1) Other specialists, (2) county extension workers, (3) farmers' and farm women's organizations,

(4) commercial interests, (5) other agencies.

- (b) The results obtained. This is the most important part of the report. Make clear-cut statements of definite accomplishments. Discuss extent to which goals were reached, including pertinent statistics. Show significance of accomplishments in terms of State's agriculture and home life. Where applicable express results in terms of economic value. Discuss probable reasons for success or lack of success of certain phases of work. Mention a few counties in which outstanding results were obtained.
- A.A.A. or Agr'l conservation program and emergency work. Discuss work performed in connection with the regulation of production and distribution under the A.A.A., Agr'l conservation, relief work, and other emergency activities.

6. Include the following exhibits:

(a) A few photographs showing methods employed and results of work.

(b) A few examples of demonstration outlines and other subject-matter or organization material being used.

(c) A few good news articles and circular letters, posters, etc., used in your work.

- 7. Outlook. Discuss the outlook for the work on this project for the coming year. Will the same phases of the work be stressed? If so, will changes in their organization and conduct be made? What new subprojects will be taken up?
- 8. Outline the assistance desired from the United States Department of Agriculture, such as personal assistance, publications, and other literature.

# COOPERATIVE EXTENSION WORK IN AGRICULTURE AND HOME ECONOMICS

U.S. Department of Agriculture and State Agricultural Colleges Cooperating Extension Service, Division of Cooperative Extension, Washington, D. C.

## ANNUAL REPORT - SUBJECT-MATTER SPECIALISTS

Each leader of an approved extension project or subproject is expected in the interests of the whole cooperative Extension Service to submit an annual report each year, whether supported by State extension funds or by funds of the United States Department of Agriculture, or both cooperating. This report should be an interpretative analysis of what was undertaken, the methods employed, and the accomplishments resulting from the year's work.

This annual inventory enables each specialist to review critically the year's work prior to developing programs and plans for the coming year, and affords an opportunity to place a record of the year's activities and accomplishments before those responsible for the administrative direction of extension work in both the State and the Nation. The annual report is also an accounting to appropriating bodies and the taxpaying public of the use made of public funds.

The annual reports of all subject-matter specialists are read and indexed in the Federal Extension Service each year. The national extension index then makes the worth-while information on plans, methods, and accomplishment contained in annual reports available to Federal and State extension workers, scientists in other bureaus of the Department of Agriculture, members of Congress, agricultural writers, and others.

It is difficult to devise a set of rules by following which any specialist will be able to write a good report. Orderly arrangement, treatment that places emphasis where emphasis is due, definite clear-cut statements, and attractive appearance all contribute to the quality of a report.

Nothing can take the place, however, of definite, worth-while accomplishments supported by records, resulting from intelligent plans systematically executed. Failure to give specific information as to actual accomplishments is the most common fault of extension reports. All too frequently it is necessary to read between the lines to picture the results in terms of improved agriculture and home life, which might be expected to flow from the plans and the activities mentioned in the text of the report.

The annual report outline on the reverse side of this sheet is only suggestive and is offered merely as a helpful guide to the individual specialist in preparing a similar outline for his own annual report.

(Over)

## OUTLINE OF BEEF CATTLE AND SHEEP

#### BEEF CATTLE PROJECTS

- B. Bull placement
- F. Feeds and Feeding

  - 1. Pasture Establishment, Improvement
    2. Silage (a) Crops (b) Silo construction
    - 3. Velvet Beans
    - 4. Cover Crops for winter grazing
    - 5. Fattening for market (manure for soil improvement)

## M. Management

- 1. Breeding season control
- 2. Protection of young heifers from exposure to bull 3. Segregation of bull and heifer calves in case of
- purebreds
  4. Dehorning and castrating

4-H Baby Beef Club Work

#### SHEEP PROJECTS

- RA Ram placement
- W. Stomach worm control
- D. Docking and castrating
- G. Grading and marketing

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COOPERATIVE EXTENSION WORK

IN

AGRICULTURE AND HOME ECONOMICS
STATE OF NORTH CAROLINA

EXTENSION SERVICE

NORTH CAROLINA STATE COLLEGE OF AGRICULTURE AND ENGINEERING NORTH CAROLINA COUNTIES AND UNITED STATES DEPARTMENT OF AGRICULTURE COOPERATING

State College Station, Raleigh, N. C.

November 6, 1936.

#### TO SFECIALISTS OF THE EXTENSION SERVICE:

We are enclosing to you a suggested outline for organizing your annual report.

You will need to be considering how to organize the material for showing complete accomplishments in your line of work for the state as a whole. Your analysis should show by counties and projects. Small state maps will be useful in some instances and tabular form in others will be best. In comparing demonstration results with check result charts or graph would be effective.

It is hoped that your report will so present accomplishments that charts, graphs and tabulations and other material could be enlarged and used as teaching material and for farmers' meetings. If your report is thus prepared it will not only adequately serve the needs of the Director and the Washington office, but will be a live and useful pamphlet in promoting your own work.

We are prepared to advise with you as to how to best chart or graph your material and to prepare the copy for your report.

It is our hope that the reports of counties will be tabulated by January 1, 1937. We will furnish each of you with a complete summary. Should you want this summary by counties you will be able to get this from our summary sheets.

We will need all reports by January 15, 1937.

Yours very truly,

John W. Goodman Assistant Director.