AGRICULTURAL EXTENSION SERVICE

State of NORTH CAROLINA

1 9 39\_\_\_\_

Period covered December 1, 19 38 to November 30, 19 39

# 1939 15 DAIRY CATTLE, BEEF CATTLE, SHEEP, SWINE, AND HORSES

mr. Casel

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

			Report Only This Tear's Extension Activ							-
	=	-	TOTAL PARTY MAXADEMANY	Dairy	Beef	Sheep	Swine	Horses and mules	Other livestock <sup>1</sup>	
			ITEM	(a)	(b)	(c)	(d)	(e)	Ø	-
	-		A DATA AND A		1			1		
	2	14.	Days devoted to line of work by: (1) Home demonstration agents		4.0		191			
			(1) Home demonstration (2) 4-H Club agents					7/	12	214
1.			(2) 411 Club agents		93. 1482.6	58 301.1	1999 NO 10	395.6	27.9	
1	100				59 175.9 93	26 40.3		22.3		}
盗	-	in the	(4) Specialists		93 637.	249		544	54	215
	20 C	216.	Number of voluntary local leaders of committee		275	84		24 234	23	216
		217.	assisting Days of assistance rendered by voluntary leaders or		46 500.5 50	21 82.0		194.5	24.0	217
			committeemen	Attraction of	50 288	28 //2	Lanol 15	25 163	4 7	218
10	5	218.	Number of adult result demonstrations conducted	10 100	26 64	10 15	mpon	8 22 13	Daga of	219
4	2	219.	Number of meetings at result demonstrations		#0 171	20 54		13 35	1 1	220
1			Number of method-demonstration meetings held		44	14		17 47	4 4	221
4			Number of other meetings held		66	29 62		36 91	5 6	222
P	7		Number of news stories published	+	41	29		21 40	1	223
	8		Number of different circular letters issued		91	53 001		69	9 119	224
	9	224.	Number of farm or home visits made		88	67 984	diagonai a	64	10	1000
1	0	225.	Number of office calls received		6192	13		14	127	225
1			(1) Boys		233	18		29		226
		226.	Number of 4-H Club members enrolled. (2) Girls		36	10	- input-ti	13	7	245.13
		0.07	Number of 4-H Club members com- {(1) Boys		-166		i suu du	121		
1	'		pleting (2) Girls		9	10		13	1	
		228	Number of animals in projects conducted by 4-H Club members completing		218	136		24 31	1	- 228
	10	220	and the second stated in obtaining nurebred sires		351	99		32 4	2	229
,	3	230	. Number of farmers assisted in obtaining man grade		934	130		9	/	230
		231	or purebred females. Number of bull, boar, ram, or stallion circles or clubs organized or assisted		19	1	No AVTICAT	12		231
		0000	the second in a proceeding singles or clubs	(instruction)	610	10	ni tangala	9 46	6	232
		232	Number of memoers in precenting croces of administrations Number of herd or flock-improvement associations organized or assisted	La harres	5 3	2 3	and drawn to be	a mural	1 yealana	233
		Ĩ	and the second and the second attempt	thro to a	3 4	1 2 26	Lange a	and a meet of	to and and	234
	5	234	Number of farmers not in associations keeping per-	ablan	15 4	6 10	d min t	7 1	9	235
1	14		formance records of animals	xxxx	13 6	9 2 5		xxx	x	236
	1		cutting, and curing	AAA	xxx		xxx		- abranan	x 237
			ing Number of farmers following parasite-control recom-	all	2 23 17	38	A COLUMN NUT	15 35.	2	CALL COMMON
	15		mendations following disease-control recom-	2	Teloy	32 19 18	1 John Trein	16	6 4	239
	, 1	20	mendations 0. Number of farmers following marketing recommenda-	-	40	30		7 11-	1	240
	10		tions		39	21	1.1.1.172	20 64		240
		24	<ol> <li>Number of farmers assisted in eadjusting enterprise</li></ol>		354		7			
			and fur animals, which should be report	ea under W	ndine Con	our racions				

1 Do not include rabbits, game, and fur animals, which should be reported under Wildlife Conserv

## AGRICULTURAL ECONOMICS

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

	The manufacture and had a set				Public	FARM	MANAGE	MENT				
			ITEM			problems 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, and financing	
						(a)	(6)	(c)	(d)	(e)	S	
										and a feet	1.9	
244.	Days deve (1) H	oted to lin Iome demo	e of worl onstratio	k by: n agents.					odilana b	<u></u>		10
	(2) 4	H Club a	gents		<u> 2015 - 1</u>							244
									e of and h		Select P	244
					354 (1)							J
245. 246.	Number of	of commun of volunta	nities in v ry local	which wo	rk was conducted r committeemen				and the	e aluira t	Concensive Restricted P	245 246
247.	Days of a	gassistance	rendered	by volu	ntary leaders or		melser	terene t	and the se		repetiten M	247
248	Number o	of adult re	sult dem	onstratio	ns conducted			net rolar	damante	hald the f		248
240	Number	of meeting	e at resu	It demon	strations				al malfie	x 100 1	real and	249
249.	Number (	or meeting	Jan rosa	notion my	etings held			brilli	the put	to const to	- statuto V	250
250.	Number o	of method-	demonst	ration inc	seeings neid				talies for	time (1)	senden ??	251
251.	Number of	of other m	eetings h	eld	AND						Section 1	252
252.	Number of	of news ste	ories pub	lished								
253.	Number o	of different	t circular	letters is	sued							253
254.	Number	of farm or	home vi	sits made	ð		BE CON					254
255	Number	of office es	alls receiv	zed			(10) (01)					255
256.	Number	of 4-H (	Club me	mbers en	f(1) Boys	x x x x	<u>et (0)</u>	-	. x x x x	x	galenty	256
	rolled				(2) Girls	. x x x x		n metal va	. x x x x	XXXX	XXXX	1 SET
257.	Number	of 4-H C	lub men	bers con	- {(1) Boys	x x x x			a summer	x	1	257
115	pleting	{			{(2) Girls	x x x x			xxxx	xxxx	xxxx	<u>U</u>
258	Number	of farmers	keeping	farm acc	ounts throughou	t the year	under su	pervision	of agent	and the second		- 258
			Incoming	agent of r	roduction record	e under sl	Dervision	of agent.	CALCOLOGICA CONTRACTOR			- 409
260.	Number	of farmers	assisted	in summ	arizing and inter ng inventory or c	preting th	er accou	nts				_ 261
			- anisted	in obtain	aing gradit							- 202
0001	MT.	F A H C	Jub mon	hare root	iving instruction	in credit						2022
000	MT	of formation	anistad	in makin	ag mortgage or of	ther debt	adiustme	nts				- 200
004	Munham	of farms on	adit acco	mintione .	resisted in organi	zing durin	g the yea	r				- 201
	37	. f. fammer has	anin and at	antorne	eo eurvou rocorde	a taken du	ring vear					- 400
					nended changes							
267.	A POINT AND AND	af athen for	monora a d	opting or	opping, livestock, to leases	or comple	te farmin	gsvstems	according	to recom	menuation	18 201
268.	Number	of farmers	advised	in devel	oping supplemen	tal sources	s of incon	1e				269
269.												
270.												
	123	Du hantoni	ing form	or home	products for othe	er commo	lities or s	ervices				\270
	(-)	Da madu	aing large	or nort of	food on farm	100	a state of the second					
		100	oning might	in part of	ouildings and ma	and the second se						

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

care

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

	ITEM		Dairy cattle	Beef cattle	Sheep	Swine	Horses and mules	Other livestock <sup>1</sup>	
	TTEM		(a)	(b)	(c)	(d)	(e)	(f)	_
14.	Days devoted to line of work by: (1) Home demonstration agents			1 4-0					1
	(2) 4-H Club agents			93	58		73	17	1
	(3) Agricultural agents			1492.1	301.1		434.1	40.9	
	(4) Specialists			175.9	40.3		22.3	16	1
16.	Number of communities in which work was conducted Number of voluntary local leaders or committeemen			46 276	249 21 84	ideografi	25 258	90 3 14	
17.	assisting Days of assistance rendered by voluntary leaders or			\$6 501.5	21 82.0		25 217.5	25.0	
	committeemen		1 mercin	51 292	29 112	taoot ve	169	6 13	
	Number of adult result demonstrations conducted	-	10.000	27 65	10 15	Levenberre	9 25	to avait	
	Number of meetings at result demonstrations	-		40	20 54		15 39	1	
	Number of method-demonstration meetings held			44	14	and the	19 52	5	1
	Number of other meetings held			66	29	10000 100.0	37 01	7	
	Number of news stories published			42 289	29		24	2	
223.	Number of different circular letters issued			91	53	1	71	12	1
224.	. Number of farm or home visits made			5042	184		48	13	-
225.	. Number of office calls received			\$204	10.89	i materialar	2274	2	
	$\int (1)$ Boys			233	18		32	8	-
226.	. Number of 4-H Club members enrolled. (2) Girls				10		3	2	+
007	. Number of 4-H Club members com- {(1) Boys			166	12			4	-1
	pleting(2) Cirls			9	10			2	
228.	Number of animals in projects conducted by 4-H Clu members completing	D		218	136		34	7	-
220	Number of fermers assisted in obtaining purebred sire	s		352	99	Constantial, con	46	12	
230.	. Number of farmers assisted in obtaining high-grad	e		70 937	130		270	69	_
231	or purebred females. Number of bull, boar, ram, or stallion circles or club organized or assisted.	s	A CONTRACT	7 19	1		12	4	1
	Number of members in preceding circles or clubs	-		7 610	1 10	d finition	9 466	1 63	1
232 233	Number of herd or flock-improvement association	IS	dauger an	3	2 2	t batuma	a emotional	he maint	1
	organized or assisted	100	and an la	3 44	2 24	coman di	11) II-4-1	o gatherin P	
$\frac{234}{235}$	Number of members in these associations.	r-		15	6	il estimate	7 19	In sufant	1
236	formance records of animals. 3. Number of families assisted in home butchering, mer	at		14	2			1 22	1
	cutting, and curing		XXXX			-	x x x x	domestica .	
	ing		rgerçanan	X X X X	38	xxxx	17	3	23
	mendations. 9. Number of farmers following disease-control recom			31 1.79	- 442		18	2 8	
	mendations. 0. Number of farmers following marketing recommend			40 953	30		7 470	2	-
	tions			39 6.44	21 861	- mail	1/2	2 7	
241	1. Number of farmers assisted in using timely econom information as a basis for readjusting enterprise	10		3540	3.9	f	703	10	

## AGRICULTURAL ECONOMICS

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

			inerest.	quality	feel	a find	Public	lems				1						
	- 15		ITEM				and eco- nomic plan ning on county or community basis <sup>1</sup>	ords (in- ventories.	Individual farm plan- ning	Farm and home fi- nancing (short and long time)	Outlook	Marketing, buying, selling, and financing	-615					
1	Ser and			115	- 1971 X		(a)	(6)	(c)	(d)	(e)	G						
244	Dave des	voted to line	e of wor	her a	1.1		1				and a	F (2)						
	(1)	Home demo	onstratio	n agents.	1-6181					Strongs 1	atterin	102						
								-										
		4-H Club a											244					
	(3) .	Agricultura	l agents.								a compaña a	a Sidoo it	644					
	(4)	Specialists		. 30		- 42						ALL CONTRACT						
245		of communi					The second second			and a starting of	Contractor of the Contractor		-216					
246.	Number	of voluntar	y local	leaders of	r committ	eemen							245					
247	assistin Days of	assistance r	andarad	by volu	ntowy loop								246					
	commit	tteemen	endered	by voiu	intary lead	lers or			wad can fr. H	contra in	ri multa	mohour	247					
248.	Number	of adult res	ult dem	onstration	ns conduc	ted		dief spinit	onv poite	dament.	Collins 1	and minter	VICT					
													248					
249.	Number of	of meetings	at resul	t demons	trations						a section h	1 1000000020	249					
250.	Number of	of method-d	lemonstr	ation mee	etings held					deng restron	la sunc l	- Indute M	250					
		of other me								antriverto d	tid and	in strange	destars.					
													251					
252.	Number of	of news stor	ries publ	ished						er onent.	0.4541		252					
253.	Number o	of different	circular 1	letters iss	ued					change atta	i milio la	Standard	253					
254	Number	of farm or h	omo vie	ita mada				all (th)			-							
								and the first		to a present of	10.11.5.5		254					
		of office call					10.000 00000000000000000000000000000000	1163 (p./.)					255					
256.	Number	of 4-H Cl	uh men	borg on-	f(1) Boy	8	xxxx	(t) Bo		xxxx	xxxx	XXXX	1707					
	rolled			ibers en-	- (2) Cirl			nio (a)				and plating	256					
								and the same	and the second second	white and many	XXXX	xxxx	18516					
257.	Number	of 4-H Chu	ib memb	ers com-	J(1) Boy	S	XXXX			XXXX	xxxx	xxxx						
6722	pleting_						xxxx	(c. piorolph	indebile i	xxxx	XXXX	XXXX	257					
0-0	1			363	22.0		The second se											
400. 1	Number o	of farmers k	eeping I	arm acco	unts throu	ignout	under sur	inder sup	ervision of	agent			258					
259. 1	8. Number of farmers keeping farm accounts throughout the year under supervision of agent25 9. Number of farmers keeping cost-of-production records under supervision of agent25											260						
259. 1 260. 1	Number o	of farmers a	ssisted i	n summan	rizing and	interp	eting the	ir account	8	0. Number of farmers assisted in summarizing and interpreting their accounts								
259.1 260.1 261.1	Number o Number o	of farmers a of farmers a	ssisted i ssisted i	n summan n making	rizing and	interpr	eting the dit staten	ir account	8				961					
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$\begin{array}{c} 259. \\ 260. \\ 1\\ 261. \\ 1\\ 262. \\ 1\\ 262\frac{1}{2}. \end{array}$	Number o Number o Number o Number	of farmers a of farmers a of farmers a of 4–H Clu	ssisted i ssisted i ssisted i b memb	n summan n making n obtainin ers receiv	rizing and inventory ng credit ving instru	interpr or cre or interpr	eting the dit staten	ir account nents	8				261 262					
259. 1 260. 1 261. 1 262. 1 262 <u>1</u> . 262 <u>1</u> .	Number o Number o Number o Number Number o	of farmers a of farmers a of farmers a of 4–H Clu of farmers a	ssisted i ssisted i ssisted i b memb ssisted i	n summan n making n obtainin ers receiv n making	rizing and inventory ng credit ying instru- mortgage	interpr or cre iction in or othe	eting the dit staten a credit er debt ac	ir account nents ljustment	8				261 262 $262\frac{1}{2}$ 263					
$\begin{array}{c} 259. \\ 260. \\ 1\\ 261. \\ 1\\ 262. \\ 1\\ 262\frac{1}{2}. \\ 263. \\ 1\\ 264. \\ 1\end{array}$	Number o Number o Number o Number o Number o	of farmers a of farmers a of 4-H Clu of farmers a of farmers a	ssisted i ssisted i ssisted i b memb ssisted i lit associ	n summar n making n obtainin ers receiv n making ations as	rizing and inventory ng credit ving instru- mortgage sisted in o	interpr or cre action in or other	eting the dit staten a credit er debt ac	ir account nents ljustment the year	8		ineri in		261 262 262 <sup>1</sup> / <sub>2</sub> 263 264					
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## 1939

ANNUAL REPORT

OF

EXTENSION WORK IN ANIMAL HUSBANDRY

IN

NORTH CAROLINA

By: L. I. Case, EXTENSION ANIMAL HUSBANDMAN

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#### INTRODUCTION

The increased interest in livestock both as to numbers and quality that existed in 1938 continued through 1939 unabated. This interest covered beef cattle, workstock and sheep but was especially true of beef cattle. More good bulls were added to already existing herds and more new breeding herds were established than ever before in the history of the farming industry of North Carolina.

Increases in numbers was greater in the Coastal Plains and Tide Water sections of the state than elsewhere. Several factors were responsible for this. There were already large areas of native grazing and many tons of farm roughages not being utilized. The Agricultural Adjustment Administration and Soil Conservation Program are tending more and more to reduce each crops thus releasing many, many acres for feed crops. Cotton growers feel that the boll weevil and declining market outlets will further reduce the acreage of this crop in North Carolina. The tendency for tobacco to be limited in acreage and also the growing of this crop to be gradually moving southward, are both causing farmers to look for supplementary enterprises that will bring in some revenue. The fact that cattle prices have been higher than most other farm commodities has also been a strong influence towards increased production.

It is believed that it can be truthfully said that increased interest in quality improvement in all classes of livestock has been largely brought about by the educational programs of The Agricultural Extension Service and allied organizations. Four H Club work with beef calves, colts and sheep, community, county, regional and state shows where animals have been fed, fitted and shown by both juniors and adults; farm tours, grading demonstrations, meetings on livestock farms and in feed lots, herd and flock management demonstrations, out of state tours to good stock farms and leading shows and fairs have all had a constructive influence in creating interest in, a desire for, and the acquisition of breeding stock that more nearly approach the ideal as measured by economy of production and market demands.

### I BEEF CATTLE PROJECTS

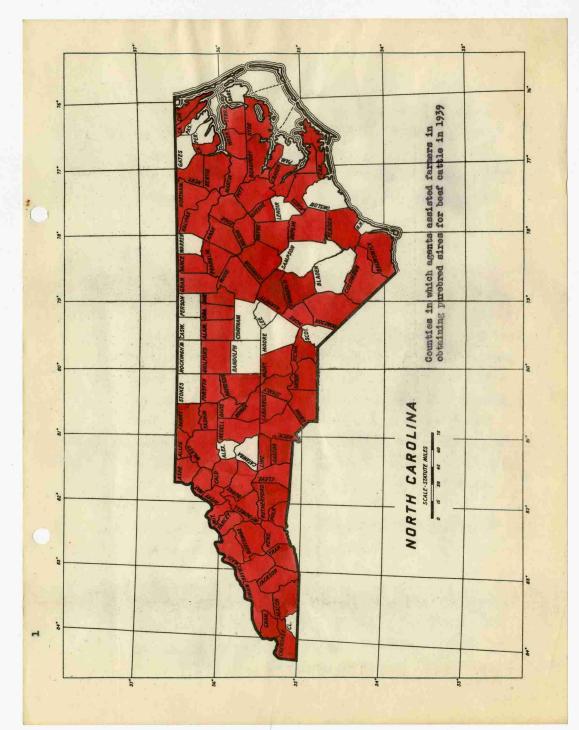
## A. Beef Bull Placement

The type and quality of beef type bulls in service in breeding herds throughout the state largely determines the quality of the cattle being raised. For this reason especial emphasis has been placed upon the replacing of common and medicore bulls with good type purebreds. The problem of beef bull replacement was attack:

1. By having each county agent, where possible, include this type of work in his plan for the year. Each agent made definite plans and set up a definite goal for the placing of purebred beef bulls in his county during the year.

2. By using all the means at hand for making cattle men quality conscious and making them realize that the kind of herd bull they used was largely responsible for the kind of calves raised. (a) News articles. County agents in 66 counties used a total of 288 news stories relative to better bulls and better breeding generally in 1939. (b) Circular letters. A total of 114 circular letters were used by 41 county agents in calling attention to beef cattle improvement through improved breeding. (c) Meetings. One hundred and forty meetings were held in 44 counties. (d) Farm visits. More than five thousand farm and home visits were made by 91 county agents in that many counties, in connection with beef cattle improvement. (e) Judging contests and judging demonstrations. Two judging contests were held in connection with livestock shows for 4-H Club members during the year. In addition several small county or community judging contests were conducted for 4-H Club members in some cases and for adults in others. Every opportunity possible was used for putting on judging demonstrations in the field. (f) Fairs and exhibitions. Three state or regional exhibitions of beef cattle and numerous community and county shows were held during the year. (g) Out of state trips. Through the efforts of Extension workers several out of state trips were made with farmers and stock men for the purpose of visiting good herds of cattle or attending shows. It is believed that such trips are extremely valuable as it gives our farmers a chance to see what others are doing in other parts of the country and compare his cattle with theirs. Twenty-six stock men from Bastern North Carolina went on a four-day tour into the Blackbelt of Alabama. Sixty-three farmers from one western county made a two-day tour into Southwest Virginia where they visited several good herds of cattle and other things of interest. Numerous trips into Southwest Virginia and East Tennessee were made by small groups of farmers in several mountain counties. About twenty cattle men attended the International Stock Show at Chicago.

3



3. Selection and purchase of bulls. A large majority of the beef bulls placed during the year were individually selected by the county agents or animal husbandry specialist.

Beef bull placements planned for 1939 were 154. The actual number placed was 351. This accomplishment reflects the increased interest in better type beef bulls in North Carolina.

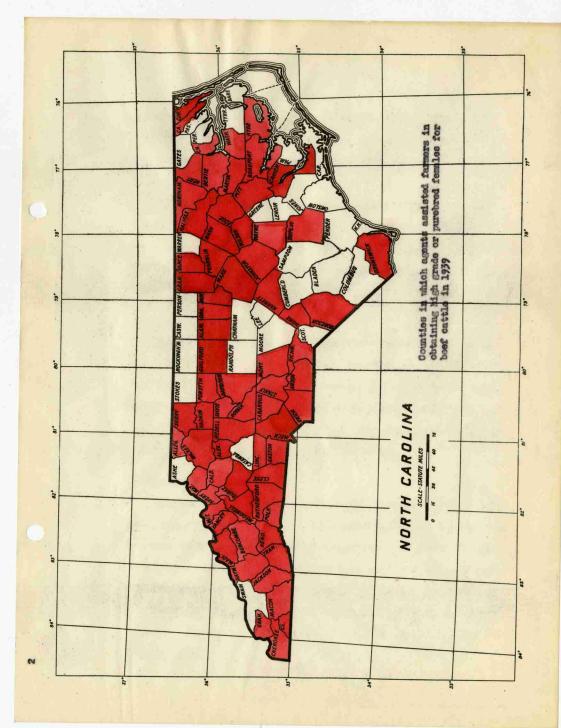
#### B. Breeding Herds Established

One of the most serious handicaps in the general improvement of cattle throughout the state is the inadequate supply of good type beef bulls. Out of a large number of purebred herds scattered around the state there are only a few herds that can be designated as first class. It is thought important that our purebred herds be improved in order that the general run of bulls being sold to farmers be raised in standard. With this end in view considerable time and effort has been devoted to our purebred cattle owners. This is especially true in regard to those who show promise of becoming good constructive breeders. The standard of at least 25 already established purebred herds has been raised during the year by the addition of breeding stock that was an improvement over the then present herd.

During the year 936 farmers in 70 counties were assisted in obtaining purebred and high grade females of the beef breed.<sup>5</sup>

#### C. Feeds and Feeding

Much emphasis was placed on the proper feeding of breeding cattle as well as cattle being fattened for the market. Realizing that good pastures are the foundation of the industry more and more work was done on the establishment of new pastures and the improvement of old ones.



Emphasis was also placed on the production of annual grazing crops, both winter and summer, for cattle feed. Both pasture work, winter cover crops and the growing of feed crops generally will be covered in detail in the Agronomy report.

The following circulars were prepared during 1939 and the same mailed to county agents and cattle men, especially beginners with breeding herds: "Feeding And Management Of The Beef Herd"; "Suggestions For The Feeding, Care, And Management Of Newly Acquired Cattle"; "To Beef Cattle Breeders In Eastern North Carolina.

#### D. Fattening Cattle For Market

Approximately two thousand head of cattle were fattened for the market in the state in 1939. About the same number were placed in the feed lots in the fall of 1939 to be fattened for the winter and spring market of 1940. Records were secured on 768 head of cattle which number made a profit including manure, of \$16,016.34, or an average of \$28.54 per head. A sample of one of the records follows.

### E. Management

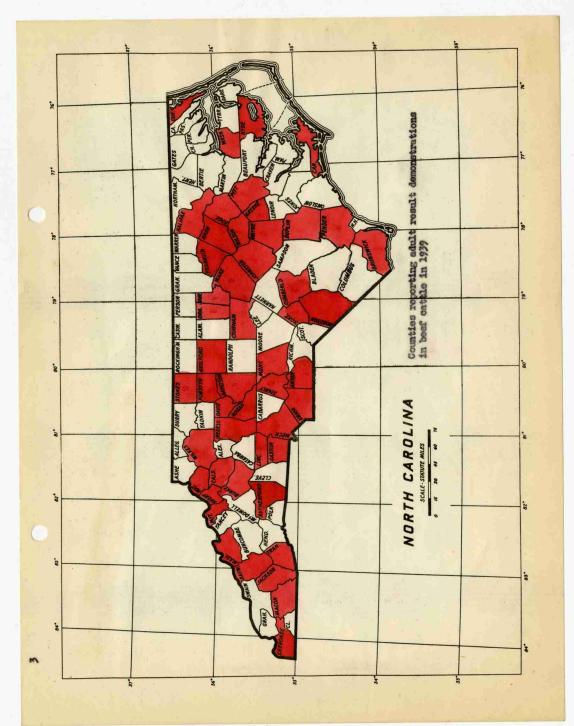
Improvement in managerial practices were taught mainly by means of Herd Management Demonstrations. This project consists of the selection of farms where beef cattle are kept and working closely with the owner or manager. One hundred and twenty-two Herd Management Demonstrations were conducted during the year and some of the things emphasized were:

1. Controlled breeding. (a) To have calves dropped in the spring of the year within a limited period. (b) Prevent heifers from getting bred too young.

5

2. Dehorning and castration of calves at the proper age and using up to date methods.

3. Adequate shelter and ample bedding to conserve feed and manure. During the year 288 Herd Management Demonstrations were conducted in 50 counties. Sixty-four meetings were held at these demonstrations in 26 counties and the county agents visited them frequently. These demonstration herds were also visited by the specialist as often as was practical.



## 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 weaned 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.Con 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 hed 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 ap-plied. 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. Re-peat 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.

- 2 -Suggested Daily Wintering Rations.

For 400 Pound Calves

Corn Silage 12 pounds Legume Hay 5 Corn Stover at will

Legume Hay	5 pounds
Corn Stover	5 "
Corn & Cob Meal	1.5 "
Cottonseed Meal	.5 "

### 3

1

Corn Silage 12 pounds Mixed Hay 4 "" Cottonseed Meal 1 "

4

2

Mixed Hay 10 pounds Corn & Cob Meal 2 " Cottonseed Meal 1 "

## For 665 Pound Yearlings

## 1

## 3 . 24. 27.

## 2

Corn Silage 20 poundsLegume Hay5 poundsLegume Hay5 "Corn Stover - at willCottonseed Meal 1 "Corn & Cob Meal1 "Cottonseed Meal 1 \*Cottonseed Meal5 "

#### 4

Corn Stover - at willCorn Stover - at willCottonseed Meal 2 poundsCorn & Cob Meal 1.5 poundsCottonseed Meal 1 "

For 850 Pound Cows

## 1

3

Corn Silage 25 pounds Legume Hay 5 " Corn Stover 5 "

2

Legume Hay Corn Stover - at will 5 pounds

4

Corn Silage 25 poundsMixed Hay15 poundsCorn Stover 7"Corn & Cob Meal1Cottonseed Meal 1.5"Cottonseed Meal.5"

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.

<u>General Feeding Suggestions: Good Pastures</u> 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.

<u>Minerals</u> 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.

<u>General Suggestions:</u> 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 if it is kept well bedded. 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.

<u>Heifers may be bred</u> 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.

10

Bredd 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. <u>Caustic Soda</u> or <u>Potash</u> 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.

<u>Castration</u> 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.

#### COOPERATIVE EXTENSION WORK

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

EXTENSION SERVICE

TO BEEF CATTLE BREEDERS IN EASTERN NORTH CAROLINA:

## Controlled Breeding Pays

There is much evidence that controlled breeding pays in the raising of beef cattle and for that matter, all other kinds of farm animals. The most successful cattlemen breed their cows in May, June and July which brings the calves in February, March and April. By calving at this time the calves are large enough to go to pasture with the cows by the time grass is ready without worry about spoiled udders etc. Then too the calves are all about the same age and they may be weaned at the same time in the fall and handled together during the winter. Dry cows may be wintered much more cheaply than cows nursing calves.

## Do Not Breed Heifers Too Young

Heifers should not be bred until they are two years old. If bred younger than this they are very apt to become stunted in growth and never reach normal size. Furthermore, calving time troubles may result and very often they do not give milk enough to raise their calves properly.

With especial reference to the heifer calves shipped in from Texas last fall. These calves are too young to be bred this spring. If bred later on this season they will calve at the wrong time of the year. These heifers have been moved a long way and to guite a different environment from where they were raised. This coming year, the hot summer especially, will be hard on them. Therefore, it is thought best to see that they have plenty to eat to grow them out well and put off breeding them until the spring of 1940. I feel certain that in the long run it will pay to do this.

The herd bull should be kept in a strongly fenced (a plank fence is best) enclosure of not less than an acre, except during the breeding season when he may be allowed to run with the cow herd or the cows may be brought to him for service. If he is allowed to run with the cow herd <u>be sure</u> that all <u>heifers too young for service</u> are <u>kept</u> . well away from the bull.

- 2 -

The herd bull should be the best individual in the herd. He should be thick and deep bodied, short of leg and compactly built. The back and underline should be straight, the heart girt full and deep, the ribs widely sprung, the rump straight and broad and the thighs full and deep. The head is often a good index to the breeding qualities of the bull. It should be short and wide with a large muzzle. The neck should be thick and short and the crest prominent. If you do not now have the right kind of a bull to improve your herd let us help you to locate one.

<u>Bull calves</u> should be castrated when they are a few weeks old. Do not let them go until they are old enough to breed. They will sometimes serve a female at 7 or 8 months of age and at younger ages they do considerable damage in worrying the heifer calves and each other. Steer calves are always quieter and start fattening earlier than bulls.

For futther details ask for Extension Circular entitled "Feeding and Management of the Beef Herd".

Yours very truly,

County Agent.

CATTLE FEEDING RECORD Cumberland
County
Name of Feeder W. H. Marsh Address Fayetteville, N. C.
No. of Head Fed 26 Age 1 year Sex Female
Total Buying WtAver. WtPlaceDateDate
Total Wt. Unloading PtAv. Wt Shrink
Total Wt. When Put on Feed Same (a) Aver. Wt. Same Date Nov. 11, 1938
How were cattle handled between time received and time started on feed? 26 Heifers and 26 Steers were put on 20.0 acres of Ototan Beans until
the 28th of December
Total Home Wts. When Sold(b) Aver. Wt. 667 Date April 1, 1939
Total Gain Feed Lot (b) minus (a)Aver.GainAv. Daily
Total Wt. at Stock Yards 667 Aver. Wt. Shrink
Financial Statement
Cost of Value of Feeder Cattle \$ 890.52
Freight and Other Charges to Farm \$ 8.50
Total Initial Cost or Value \$ 899.02 (c)
Sale Price: At Home At Stock Yards\$
No. Head 21 at 9 cts. per lb. Total \$
No. Head 5 at 6 cts. per lb. Total \$
No. Head atcts. per lb. Total \$
Grand Total \$ 1473.86 (d) F.O.B.
Grand 10 tal a
Freight and Stock Yard Charges to Market
Tayout

t-----

Feed Consumed in Feed Lot.

Kind Amount How Fed#	Farm	Value*
Com 23612 pounds	151.0	0
Cotton seed meal 2 tons	50.0	0
Oata 1.2 tons	35.0	0
Lespedeza hay 7 tons	105.0	0
Minewal 6	5.0	
Beans in field Total Feed Cost Cat	135.0	\$ 481.00 (f)
Pork Produced From Pigs Following CattleLbs.T		" manifestar and a start and a
Totol Down la Miner I a	1.1.1	\$ \$(g)
	ost	Φ
No. Lbs. Protein Supplement Consumed C		\$
Show Kinds and Amounts of Other Feeds Fed to Hogs	•	The Aler
C	ost	\$
C	ost	\$
C	ost	\$
Total Cost of Pork Produced		\$ <u>(h</u> )
Profit on Hogs (g) minus (h	) - /	\$ <u>(i</u> )
Summary		a. F.
Total Cost or Value of Cattle (c) \$ 899.00		
Marketing Cost (cattle) (e) \$6.00		
Feed Cost (cattle) (f) \$ 481.00	and the said	
Total Cost (c) plus (e) plus (f)		1386.00
Profit or Loss (cattle) (d) minus (j)	ş	87.86 (k)
Profit or Loss on Cattle and Hogs (k) plus (i)		(1)
Estimated Manure Produced45_ Tons	Value 4	180.00 (m)
Profit Including Manure (1) plus (m)	21.100	267.80

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

- \*Show value on farm at beginning feeding period.

## F. Beef Calf 4-H Club Work

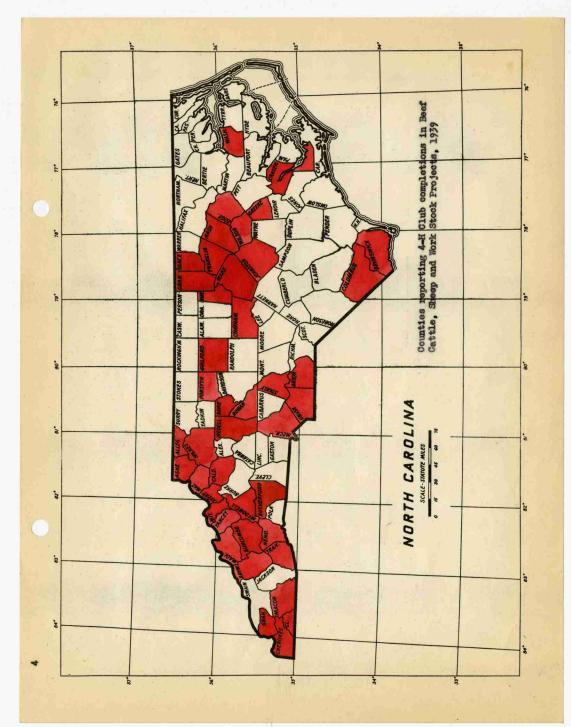
Organized club work with beef calves was started in North Carolina in 1935. This work was built around a fat cattle show sponsored by the Chamber of Commerce at Asheville, North Carolina. In 1936 The North Carolina State Fair added a small premium list for 4-H Club steers which has been increased each year since. In 1938 the Rocky Mount Chamber of Commerce started a fat stock show in that city. This work has been mainly carried on with fattening projects with steers. A Feeder Calf Class was added to the Asheville Show in 1936 and the number of club boys taking part has increased each year. In view of the fact that Asheville is in a feeder cattle producing area this Feeder Calf Class has been emphasized with the hope that it will ultimately grow to be the largest class at that show.

There has been a marked improvement in the quality and condition of the steers exhibited at these shows each year and an increase in the number of counties including this type of club work in their plans.

According to county agent's reports 174 boys and girls in 41 counties completed their projects in Beef Calf Club work during the year.

Records of the sale of 4-H Club steers shows that 140 head weighing 105,723 pounds sold for \$13,257.50. The disposition of the calves at auction at the three shows was very satisfactory in 1939 and the local support of these sales was a decided improvement over previous years. Complete financial records on 80 head of these 4-H Club steers were secured and exclusive of premiums won a profit of \$2,306.37, or an average of \$28.83 per head was made, over and above the initial cost or value of the calves plus the feed cost. Sixty-nine out of the 80 head made a profit of \$2,440.18 and the other 11 head lost a total of \$133.81. When prize money is included 5 out of the 80 head lost money and the average profit on the total number was \$47.04 per head.  $_{//}$ 

Report of awards and sale of 4-H Club steers at the Asheville Fat Cattle Show and The North Carolina State Fair follow.



Class	1	
Light	Weight	Class

	1000			Selling		
Place	Award	Name		Veight	Price	Buyer
	and the second					
lst	\$12:00	Jimmie Dugger	Watauga			Not sold
2nd	10.00	Russell Hodges	Watauga			Not sold
3rd	9.00	Jack Rogers	Haywood	1.00		Not sold
4th	8:00	Burl Green	Watauga	605	\$11.00	Dixie Home Stores
5th	7.00	Mastin Hodges	Watauga	840	13.25	Biltmore & Battery
		and the second of the second s				Park Hotels
6th	6.00	Benjimon Owenby	Buncombe		1.0 * * *	Not sold
7th	4.00	Robert Whitmire	Transylvania	710	13.25	A. & P. Tea Co.
8th	4.00	Way Abel	Haywood			Not sold
9th	3.00	Benjimon Owenby	Buncombe			Not sold
lOth	3.00	Robert Whitmire	Transylvania	620	12:50	A. & P. Tea Co.
llth	3.00	Rafe Teague	Macon	830	13.25	Verne Rhodes
12th	2:00	Wayne Thompson	Buncombe	750	12.00	A. & P. Tea Co.
13th	2.00	Joe Brown	Watauga	495	11:00	E. Tenn. Packing Co.
14th	2:00	Russell Dockery	Buncombe	785	11.00	Morro croft Farm
		David Smart	Haywood	595	10.50	E. Tenn. Packing Co.
15th	2,00	DAVID DHALL	naywood	111	10.70	H. TOIM. THOUSAND CO.
	0 11- 32	W 4 -1 + 01				
Class	2-Mealum	Weight Class				
	610.00	Takes Dandakas	W. hanse			Not sold
lst		John Edmisten	Watauga			Not sold
2nd		Dan Hill	Buncombe			Not sold
3rd		Council Henson	Watauga			Not sold
4th		Gene Reese	Watauga			Not sold
5th		Romulus Dockery	Buncombe			100 3010
6th	6.00	Gilbert & Earl				Not sold
	41.00	Edmisten	Watauga			Not sold
7th		R. G. Moss Jr.	Buncombe			Not sold
8th		Raymond Dockery	Buncombe			Not sold
9th		J. C. Dockery	Buncombe			Not sold
lOth		John Abel	Haywood			Not sold
llth		Richard Bradley	Haywood	0.05	10.05	Dixie Home Stores
12th		Jr. & Billy Henso		875	12,25	Not sold
13th		Loyd Buchanan	Haywood			
14th		Way Abel	Haywood	000	10.00	Not sold Dixie Home Stores
15th	2.00	Calvin Francis	Haywood	880	12.00	Dixie Home Stores
	11 바느 가 느	1				
Class	3 - Heavy	Weight Class				
	420100		71F	1005	18 50	Can Handombilt Hatal
lst	\$12,00	Joe Brown	Watauga	1075	18.50	Geo. Vanderbilt Hotel
2nd	10.00	Asa L. Reese	Watauga			Not sold
3rd	9:00	Burl Green	Watauga			Not sold
4th	8.00	H. W. Mast Jr.	Watauga			Not sold
5th	7.00	Gilbert Edmisten	Watauga			Not sold
. 6th	6:00	Frank Mast	Watauga	985	13:00	Dixie Home Stores
7th	4.00		Watauga	1180	12.25	Morro croft Farm
8th	4.00	John Abel	Haywood			Not sold
9th	3.00	Earl Edmisten	Watauga			Not sold
lOth	3.00	Boyd Messer	Haywood			Not sold
llth	3,00	Paul Brown	Watauga	960	13:25	A. & P. Tea Co.
1.2th	2,00	Hastings Farley	Transylvani	a 935	12.00	Dixie Home Stores
13th	2:00	Jamie Hill	Buncombe	1100	13.50	Teague's Market
14th	2.00	Carmen Curto	Transylvani	a 950	12.00	Morro croft Farm
15th	2.00	Frits Waldrop	Macon	995	11.75	Morro croft Farm

- couci	Uall-01		- manifest and a second	and the second se		
Place	Award	Name	County	Selling Weight	Price	Buyer
lst	\$12:00	J. D. Wallin	Madison			Not sold
2nd	10.00	Tom Lawrence	Watauga			Not sold
3rd	9.00	Horace Edmisten	Watauga			Not sold
4th	8.00	Tom Lawrence	Watauga			Not sold
5th	7.00	Dennis Franklin	Madison	425	\$10.00	Dr. J. F. Mauney
6th	6:00	Ruth Ball	Madison			Not sold
7th	5.00	Earnest Teague	Madison	425	9:00	E. Tenn, Packing Co.
8th	4:00	J. P. Ramsey	Madison	370	9.00	W. P. O'Donnell
9th	3:00	F. M. Noland	Haywood			Not sold
lOth	3.00	General Ledford	Madison	420	9.50	Alden Barefoot
llth	3:00	J. D. Wallin	Madison			Not sold
l2th	3:00	Kenneth Davis	Jackson	365	8.75	Dr. J. P. Mauney
13th	2,00	J. D. Wallin	Madison	425		Not sold
14th	2:00	Lawrence Carver	Haywood	1		Not sold
15th	2:00	F. M. Noland	Haywood			Not sold
16th	2.00	C. N. Willis	Madison	410	8.25	Dr. J. P. Mauney

#### Feeder Calf-Class 7

#### Class 4 - County Group

First Prize - \$25.00 Watauga County Second " - 20.00 Buncombe " Third " - 15.00 Haywood " Fourth " - 10.00 Transylvania

#### Class 5 - Get-of-Sire

First Prize - \$20:00 Watauga County Second " 15.00 Haywood "

#### Class 6 - Champions

Grand Champion - John Edmisten - Watauga County Reserve Champion - Joe Brown - Watauga "

#### Class 8 - Get-of-Sire (Feeders)

First Prize - \$15:00 Watauga County Second " 10:00 Madison " Third " 5.00 Haywood "

## Class 9 - Showmanship

First - Mastin Hodges - Watauga County Second - Way Abel - Haywood " Third - Romulus Dockery - Buncombe"

### North Carolina Hereford Breeder's Special

First Prize - \$25.00 John Edmisten - Watauga County Second " - 15.00 Joe Brown - Watauga County Third " - 10.00 Asa L. Reese - Watauga County

#### RESUME OF AUCTION SALE OF 4-H CLUB STEERS

#### ASHEVILLE FAT AND FEEDER CATTLE SHOW - OCTOBER 4, 1939

Grand Champion - Not sold

Reserve Champion purchased by George Vanderbilt Hotel, Leonard E. Jones, Manager, Asheville, N. C., at \$18.50 per cwt.

Thirty head of fat steers sold for an average of \$12.08 per cwt.

Twenty-nine head excluding the Reserve Champion averaged \$11.41 per cwt.

Morro croft Farm, Charlotte, N. C. purchased 7 head at an average of \$11.83 per cwt.

A. & P. Tea Company, L. A. Bell, P. O. Box 1205, Charlotte, N. C. purchased 5 head at an average of \$12.66 per cwt.

Dixie Home Stores, Harry Falls, Manager, Asheville, N. C. purchased 5 head at an average of \$12.14 per cwt.

Teague's Market, Asheville, N. C. purchased 2 head at an average of \$12.90 per cwt.

Asheville Fish Market purchased 2 head at an average of \$10.35 per cwt.

East Tennessee Packing Company, Mr. Herbert Madden, Knoxville, Tenn. purchased 2 head at an average of \$10.73 per cwt.

May's Market bought 1 head at \$11.00 per cwt.

The Asheville Biltmore and Battery Park Hotels bought 1 steer at \$13.25 per cwt.

Mr. Verne Rhodes, Leicester, N. C. bought 1 steer at \$13.25

Others who bought one head each were R. E. McLemore, Statesboro, Ga., and W. W. Shope, Weaverville, N. C.

Twenty-eight head of feeder calves were shown this year, 18 of which were sold at an average of \$8.03 per cwt.

## Light Weight Class

				Selling		Contract of the second s
Place	Award	Name	County	Weight	Price	Buyer
	A			-0-		
lst	\$12.00	Henry C. Martin Jr.	Anson	785	\$17.00	Carolina Hotel
2 nd	12:00	Way Able	Haywood	790	12.00	A. & P. Tea Co.
3rd	12.00	Jimmie Dugger	Watauga	755	12.75	A. & P. Tea Co.
4 th	10.00	Jack Rogers	Haywood	675	15.00	Q. S. Leonard Jr.
5 th	10.00	Russell Hodges	Watauga	555	12.25	E. L. Talbott
6 th 7 th	10.00	Benjimon Owenby	Buncombe	550	10.25	J. T. Taylor
8 th	8:00	Benjimon Owenby	Buncombe	795	12.00	Swift & Co. S.W.H. Pender Stores
9 th	8.00	Wilson Braswell Fielden Miller	Union	710 780	14.00	White Packing Co.
10 th	6.00	John Robt. Pugh	Alleghany Alleghany	765	12.15	White Packing Co.
10 th	0.00	J. W. Knight	Davie	780	11.25	White Packing Co.
12 th		Kent Ketner	Haywood	615	10.50	Pender Stores
13 th		Verdery Pate	Cumberland		13.00	A. & P. Tea Co.
14 th		Lloyd Pate	Cumberland		11:50	Pender Stores
15-th		Glen Taylor	Durham	740	11.50	Pender Stores
16 th		Jones Andrews	Alleghany	795	12.25	Swift & Co. S.W.H.
10		Jones Midrews	ALLOGUARY	112	+++++	DWIT 0 & CO. Demaile
Medium	n Weight	Class				
lst	\$12:00	Dan Hill	Buncombe	850	15:50	Pender Stores
2nd	12.00	Council Henson	Watauga	890	17.50	White Packing Co.
3rd	12.00	Gene Reese	Watauga	850	14.50	Carolina Hotel
4th	10.00	Gilbert & Earl Edmis		895	13.75	Morre .croft Farm
5th	10:00	Samuel Johnson	Cumberland		14.50	Pender Stores
6th	10:00	Richard Bradley	Haywood	885	14.25	Morro croft Farm
7th	8:00	Raymond Dockery	Buncombe	860	14.00	Kingan & Co.
8th	8.00	John Abel	Haywood	870	14.00	A. & P. Tea Co.
9th	6.00	R. G. Moss Jr.	Buncombe	835	13.00	Swift & Co.
lOth	6:00	Sam Satterthwaite	Edgecombe	880	14.00	Pender Stores
llth	3.00	Way Abel	Haywood	870	13.75	Morro croft Farm
12th		Glen Taylor	Durham	835	13.25	Pender Stores
1.3th		Nolan Talbott	Cumberland	890	12.75	White Packing Co.
14th		George Leonard	Franklin	870	12.50	Swift & Co.
15th		James Miller	Alleghany	920	12.75	White Packing Co.
16th		Fred Caudle	Anson	860	11.50	Pender Stores
Heavy	Weight C	lass				
		The second state				
lst	\$12.00	John Edmisten	Watauga	910	39.50	A. & P. Tea Co.
2nd	12:00	Romulus Dockery	Buncombe	895	26,00	Carolina Hotel
3rd	12.00	Asa L. Reese	Watauga	995	16.50	White Packing Co.
4th	10.00	Gilbert Edmisten	Watauga	975	16.00	Morrowcroft Farm
5th	10:00	H. W. Mast Jr.	Watauga	1065	14.50	White Packing Co.
6th	10.00	John Abel	Haywood	960	14.00	Morro croft Farm
7th	8:00	Earl Edmisten	Watauga	1025	14.00	Holler Grocery Co.
8th	8:00	Carl Woodard	Nash	1055	15.50	Pender Stores
9th	6:00	Loyd Buchanan	Haywood	910	15:00	Swift & Co.
loth	6:00	Q. S. Leonard Jr.	Franklin	895	15.50	Pender Stores
llth	3.00	Van Miller Jr.	Alleghany	1025	14.00	Morro croft Farm
12th	3.00	Boyd Messer	Haywood	1120	13.50	Morro croft Farm
13th	3.00	J. C. Dockery	Buncombe	935	13.50	Swift & Co.
14th 15th	3:00	Carl Goslen	Forsyth	1180	13.50	White Packing Co.
19th 16th	3.00	Sam Satterthwaite	Edgecombe	970	13.50	Pender Stores
TOCH		Carey Talbott	Cumberland	955	12.50	Kingan & Co.

## County Groups of Three Steers

Watauga County
Buncombe "
Haywood "
Alleghany "
Cumberland "
Watauga "
Haywood "
Buncombe "

## Get-of-Sire Class

First Prize	Watauga County
Second "	Haywood "
Third "	Alleghany

## Showmanship (For 4-H Club Members Only)

First Prize	-	Asa L. Reese,	Watauga County
Second "	-	Nolan Talbott,	Cumberland "
Third "	-	Council Henson,	Watauga "

RESUME OF AUCTION SALE 4-H CLUB FAT STEERS AT NORTH CAROLINA STATE FAIR - 1939

Grand Champion sold to A. & P. Tea Company for \$39.50 per cwt.

Reserve Champion sold to Carolina Hotel, Raleigh, N. C. for \$26.00 per cwt.

Forty-eight head including champions averaged \$15.70

Forty-six head excluding champions averaged \$13.65

H. L. Gregory - Pender Grocery Company, Norfolk, Va., purchased 12 head at an average of \$13.57 per cwt.

White Packing Company, Salisbury, N. C., purchased 9 head at an average of \$13.86 per cwt.

Morrowcroft Farm, Cameron Morrison, Charlotte, N. C., purchased 7 head at an average of \$14.17 per cwt.

Swift & Company, W. A. Gravely, Manager, Raleigh, N. C., purchased 6 head at an average of \$13.09 per cwt. Two of this number were for the Sir Walter Hotel, Rowland Mumford, Raleigh, N. C.

A. & P. Tea Company, L. A. Bell, P.O.Box 1205, Charlotte, N. C. purchased 5 head including the Grand Champion at an average of \$18.80 per cwt.

Hotel Carolina, Raleigh, N. C., Robert I. Lee, Manager, purchased 3 head including the Reserve Champion at an average of \$19.34 per cwt.

Kingan & Company, Richmond, Va., George G. Munce, purchased 2 head at an average of \$13.21 per cwt.

Q. S. Leonard Jr., Route 4, Louisburg; E. L. Talbott, Route 1, Fayetteville; and J. T. Taylor, Nashville, each purchased a light calf to be fed on by 4-H Club boys for the Rocky Mount Show next spring. II. SHEEP PROJECTS

Lamb and wool prices were a little more favorable in 1939 than in 1938 and there seems to be some tendency for increased production throughout the state. Statistics show that this is the first year that numbers have not decreased for several years, although they do not show an increase. Damage by sheep killing dogs is a serious menace to the industry and ways and means of checking the dog losses have been considered at sheep meetings throughout the year. One thing that we are considering using is mutual insurance such as the Kentucky sheep growers are using in several counties.

#### A. Farm Flock Records

Farm flock records secured from various parts of the state show an average gross income per ewe of \$9.27. This compared with \$7.18 in 1938 and \$9.36 in 1937. A sample Farm Flock Record follows.

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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

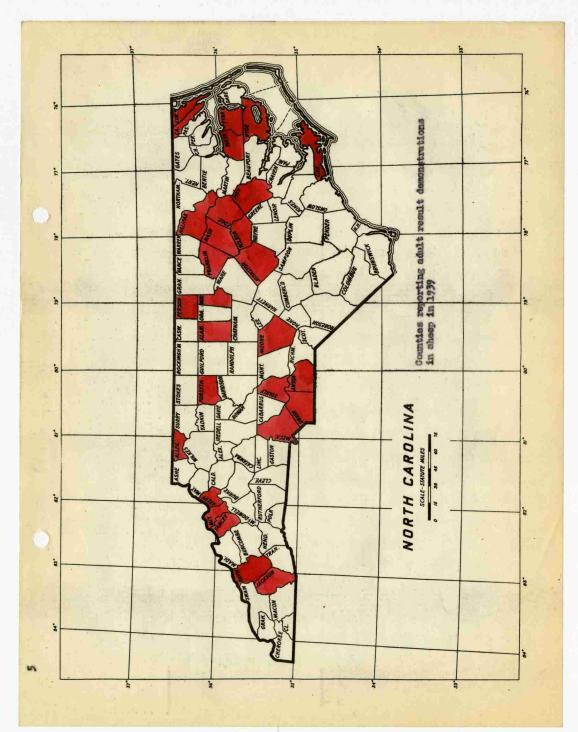
FARM FLOCK RECORD (SHEEP)

(For Commercial Flocks Only)

en Farm of T. C. Baird	 
Post office Valle Crucis	
County_ Watauga	 
County Agent E. M. Hamilton	
Number ewes exposed to ram <u>34</u> Were ewe lambs exposed? If so state number <u>Yes</u> Number lambs raised to market weight <u>47</u>	 
Total value of lambs sold or kept	341.44
Number fleeces sold 35	
Number pounds of wool sold 241 1/2 1bs. @ 314	 
*Total value of wool	\$ 74.86
Total Income	\$ 416.30
Gross Income per ewe	\$ 12.24

\*To include market value of wool made into blankets etc.

Was a purebred ram used If so what broed? Hemoshire At what time did most lambs come? March When were most of lambs sold? Anonst 1 Were lambs creep fed? Were lambs docked? Yes Castrated? How many times was flock treated for stomach worms? What treatment was used? Bluestone Number of times flock dipped None Wes flushing practiced? Tust run on good pasture Tell briefly how flock was wintered. Run on left over pasture grass until about February 1, then fed 1/2 bushel of shelled corn and onts once every other day for two weeks then 1/2 bushel every day until lambing. Then one bushel per day until they went to pasture April 10 to 20. Finished on pasture How was wool sold? Pool How were lambs sold? pool REMARKS: \_\_\_\_\_ Fod of ther hay or corn and oats when ground was covered by show. That did not happen more than 4 to 6 days during the winter. 



#### B. Ram Placements

Thirty counties reported the placing of 99 purebred rams with farmers during the year. In 23 counties 130 high grade or purebred ewes were placed.

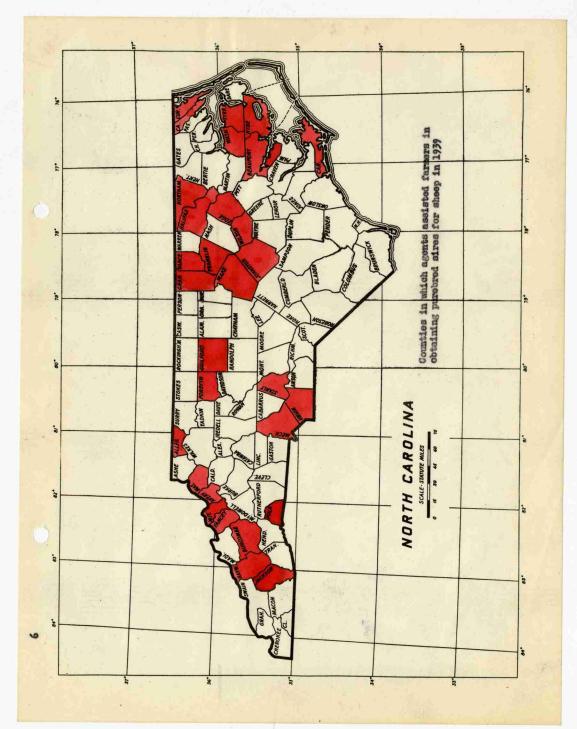
This state has very few, if any, good purebred flocks of sheep. It is hoped to develop a few good flocks scattered well over the sheep territory for the furnishing of good type rams for commercial flocks. Three such flocks were started during the year and one particularly located in one of the heavily populated sheep counties is in good hands and should develop into an outstanding flock. These purebred flocks are being worked with carefully and every assistance given to encourage their improvement.

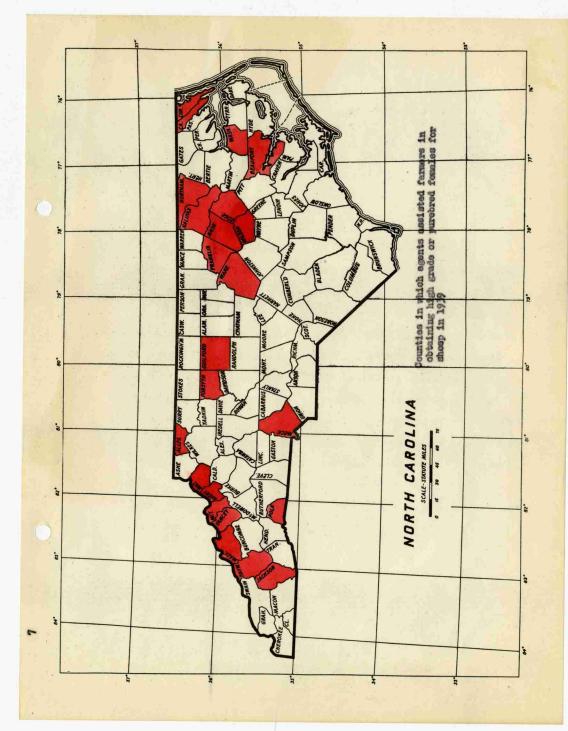
#### C. Parasite and Disease Control.

The matter of parasite control in sheep is one that is always with Extension workers. It seems to be very difficult to get sheep men to follow a regular system of control. Mineteen hundred and thirtyeight was a wet year and parasitic infection was, therefore, more serious than usual. In 1939, therefore, there was more interest in stomach worm troatment demonstrations than usual and in 38 counties 442 farmers were reported as following parasite control recommendations. Mineteen counties reported 187 farmers following disease control recommendations with sheep.

#### D. Docking and Castrating Lambs

The selling of lambs by grade cooperatively in North Carolina has helped materially in creating more interest in the docking and castration of lambs intended for market. A discount of \$1.00 per hundred weight for bucks as compared with eve and wether lambs of the same grade is



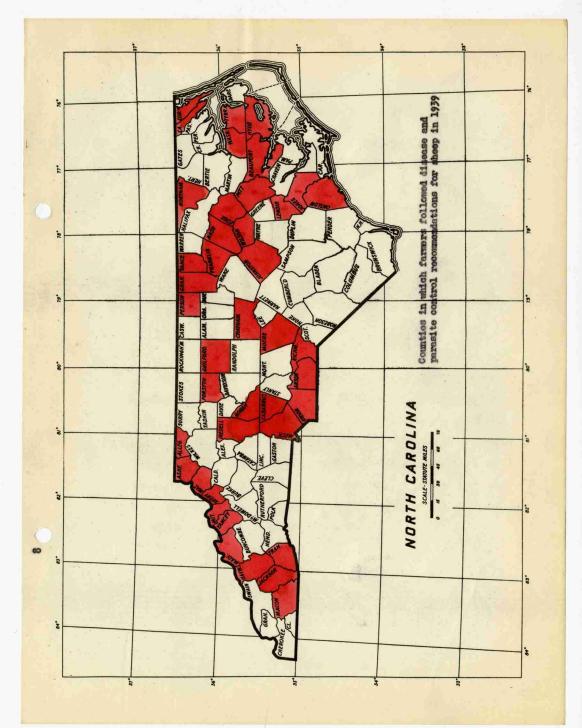


convincing evidence of the value of this practice. Nevertheless there was a slight increase in the number of ram lambs shipped cooperatively in 1939 compared with the previous year. On a percentage basis this was 1.22 compared with 1.02 the previous year.

#### E. Marketing

1. Lamb Grading and Cooperative Sales.

Prior to the marketing season of 1939 the Eastern Livestock Cooperative Marketing Association ceased functioning necessitating other arrangements for the selling of our lambs. Mr. Sam Nagle who had been the lamb salesman for the Eastern at Jersey City became affiliated with the Arbree Commission Firm at the Jersey City Yards. Arrangements were, therefore, made for this company handling our lambs on the same basis as the Eastern had been doing. As the result the majority of the lambs shipped out of the state went to this firm, although on two or three occasions one of the mountain counties sold outright to an auction market in Southwest Virginia and one small Eastern North Carolina shipment went by truck to Philadelphia. Grading service was also started at the auction market in Asheville, North Carolina, for the first time. We failed to get a report of the lambs graded at this market, although it was asked for several times.



Grade	Number	Per Cent of Total
Choice	897	20.51
Choice bucks	69	1.58
Good	1901	43.47
Good bucks	299	6.84
Medium	612	13.99
Medium bucks	169	3.86
Plain	181	4.14
Common	159	3.64
Sheep	<u>86</u> 4373	1.97

Summary of All Cooperative Lamb Sales 1939

There was a total of 317,950 pounds of lambs sold at their home weight which brought a net return of \$26,082.61. It is estimated that these lambs brought fully one cent per pound more through grading and cooperative selling than they would have brought under the usual method of selling. This means a total of \$3179.50 increased returns to the producers. Further it is the logical conclusion that other lambs sold in the territory where cooperative marketing was being done brought a higher price than they would have otherwise.

N 2. Wool Sales.

#### Record of Wool Sold Cooperatively 1939

County	Lbs. of Wool	No. Farmers Cooperating
Alleghany	14,843	250
Ashe	2,315	250 38
Avery	4,400	34
Watauga	20,112	370
Chatham	280	6
Washington	1,500	70
Mitchell	3,100	35
	46,550	803

A complete record of the prices received is not available, however, 37,270 pounds of the wool which was sold in Alleghany. Ashe and Watauga Counties brought 31 cents per pound on a clear wool basis. Much of the wool that was sold privately to country dealers brought 24, 25 and 26 cents per pound. It is believed that conservative estimates, therefore that the pooled wool brought fully 5 cents per pound more than it would have otherwise. This means, therefore, that the 46,550 pounds of wool sold cooperatively brought the growers \$2327.50 more than it would have brought by individual private sales. It is also true, as in the case of March lambs, that buyers always pay more money in sections where cooperative marketing is being done. It is, therefore, thought that wool sold throughout the territory privately brought considerably more money due to cooperative marketing of wool. "//

#### Shearing Schools

Mr. E. S. Bartlett of the Chicago Flexible Shaft Company, Chicago, Ill. spent two weeks in the state putting on shearing schools and shearing demonstrations. A total of 11 schools were held during the two week's period with 382 in attendance. One hundred and thirteen received definite instructions from Mr. Bartlett.In addition to the shearing schools and demonstrations, sheep growers were addressed by the Extension Animal Husbandman and a representative of the Division of Markets State Department of Agriculture in regard to production and marketing methods and the outlook for lambs and wool for the coming season. These meetings were held the last week in April in Eastern North Carolina and the first week in May in the western part of the state.

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#### III. MISCHILANEOUS ACTIVITIES

#### 1. Farm Tours

For the past two years it has been customary for the majority of the counties in the state to hold county farm and home tours during July and August. During 1939 the Animal Husbandry Specialist went on six of these farm tours, one in Eastern North Carolina, and five in the western part of the state. Approximately 700 farmers and farm women participated in these six tours which included the visiting of farms and farm homes where something out of the ordinary in the way of farm or home practices were inspected. Particular emphasis was placed on good pastures and many of these that had been improved by the use of lime and phosphate were viewed. Outstanding livestock farms were visited and in many cases 4-H Club boys carrying Beef Calf Projects exhibited their animals. Particular attention was given to outstanding herd sizes on the farms visited and in several cases judging demonstrations and judging contests were held.

#### 2. Lamb Grading School

Mr. L. B. Burk of the Bureau of Agricultural Economics, Mashington, D. C., was with us for our first lamb shipment and put on a grading demonstration for the farmers cooperating. He also came to State College and conducted a lamb grading school and contest for junior and senior animal husbandry students.

#### 3. North Carolina Hereford Cattle Breeder's Association

In 1935 there was some sentiment expressed among the Hereford Breeders of the state for a state association. The Animal Husbandry Specialist was consulted in this regard and it was decided to postpone the formation of an association until later and to substitute for the time being an annual Hereford get-together to be held on breeders farms throughout the state. These annual get-togethers were interesting affairs and at each matters of mutual interest to the breeders were discussed. At the 1936 meeting the matter of a state association was brought up and after considerable discussion the matter was placed in the hands of a committee of five. This committee met at a later date and decided to form a state association. The matter of an annual sale was also discussed but no definite action taken.

The 1939 meeting was held in Anson County early in September. The recommendations of the special committee were read and the group of over 100 Hereford breeders in attendance voted to form the association and the constitution and by-laws that had been drawn up by the committee were adopted and officers elected for the coming year. These officers are as follows: Adam Lockhart, Wadesboro, President; W. E. Webb, Statesville, Vice President; Dr. J. M. Lynch, Asheville, Secretary-Treas.; and the four additional Directors were George L. Pate, Rowland; H. G. Shelton, Speed; W. E. Shipley, Vilas; and Cameron Morrison, Charlotte. The association started off with 44 paid memberships at \$2.50 each and voted to give Hereford men an additional 30 days to become charter members of the organization. The matter of an annual Hereford sale and other items were discussed but they were left to the executive committee to decide.

#### 4. Judging

At the request of R. E. Davis, Extension Animal Husbandman, in Georgia, a trip to Atlanta was made on April 18 - 19, for the purpose of assisting with the judging of the fat cattle show there.

#### 5. Out of State Educational Trips

The following out of state trips were made during the year: December 1 - 5, International Livestock Exposition and American Society of Animal Production Meeting. Five county agents, or assistant agents, also made this trip.

February 16 - 17, Market Lamb Conference at Roanoke, Virginia. This conference has been held for several years in cooperation with representatives from Virginia, West Virginia, Tennessee, Maryland and Kentucky. Both the production and marketing of lambs were discussed.

June 10, to attend demonstration of the use of a portable dipping wat for sheep at Wytheville, Virginia. Two county agents and several farmers also made this trip.

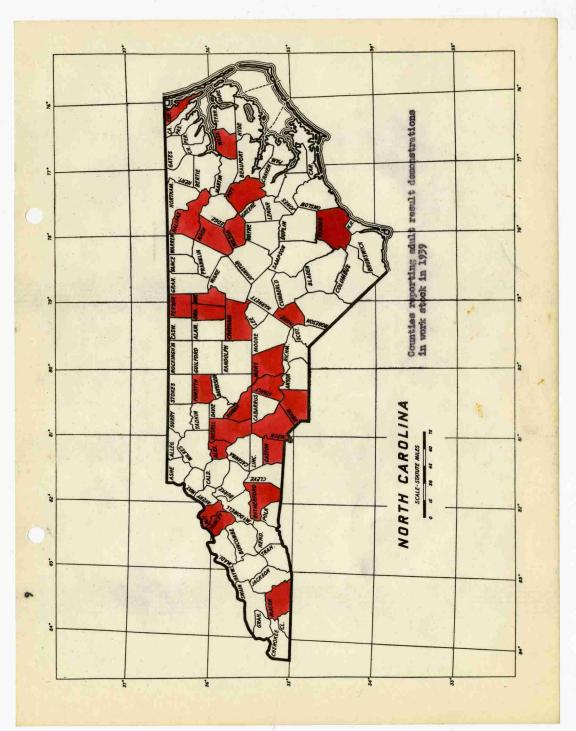
June 13 - 14, Market Lamb Conference and tour of sheep farms at the University of Kentucky, Lexington, Kentucky. Two county agents and five sheep growers from two of the largest sheep producing counties of the state also made this trip. The main purpose of which was to see what Kentucky has been doing in the matter of the use of western ewes for market lamb production and mutual insurance against dog losses. Many of our sheep men are showing considerable interest in both of these matters.

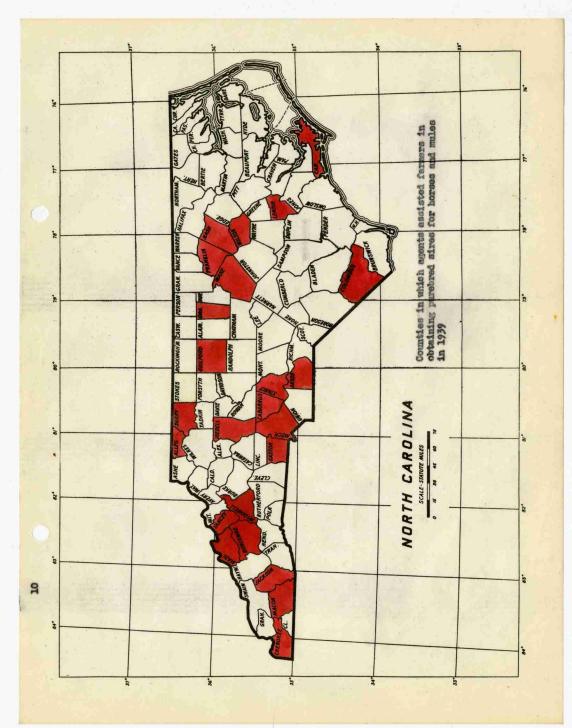
July 18 - 21, Tour to the Black Belt of Alabama. Twenty-six farmers and county agents made this tour with similar representatives from South Carolina, Georgia, Mississippi, Alabama and Tennessee. The North Carolina representatives were all from cash crop sections of Eastern North Carolina and something over 500 head of cattle were later purchased from this section of Alabama. Most of these cattle were heifer calves, although a few steer calves were shipped in also.

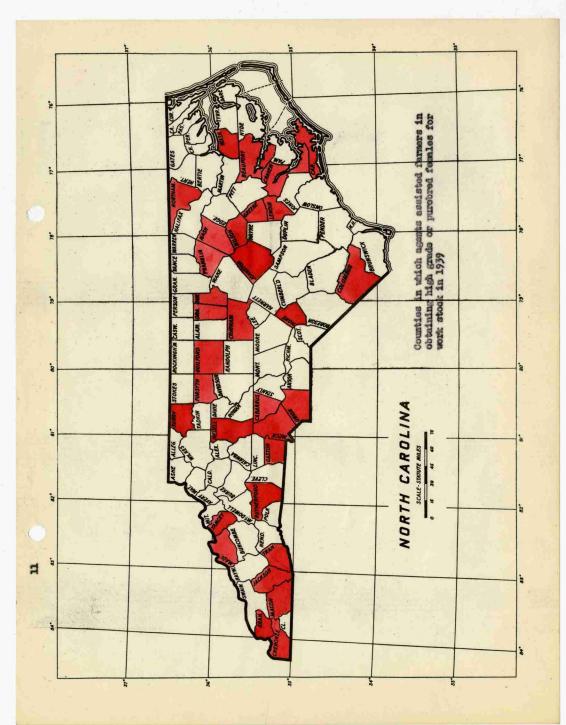
#### STATISTICAL SUMMARY

#### (As taken from Annual Reports of County Agents)

	Beef Cattle		Sheep		Work Stock	
	Co's.	Units	Co's.			s. Units
1. No. days devoted to line of . work by county agents and assistants	93	1482	58	301	71	395
2. No. days devoted to work by specialist	59	175	26	40	12	22
3. No. adult result demonstrations conducted	50	288	28	112	25	163
4. No. meetings at result dems.	26	64	10	15	8	22
5. No. method demonstration meetings held	40	171	20	54	13	35
6. No. other meetings held	44	140	14	34	17	47
7. No. news stories published	66	288	29	62	36	91
8. No. different circular letters issued	41	114	29	67	21	40
9. No. farm visits made	91	5029	53	984	69	1399
10. No. office calls received	88	6192	67	1089	64	2240
11. No. 4-H Club members completing projects	41	175	10	12	14	22
12. No. farmers assisted in obtaining sires	77	351	30	99	24	43
13. No. farmers assisted in obtaining high grade or purebred females	70	936	23	130	32	255
14. No. families assisted in home butchering, meat cutting & curing	13	69	2	5		
15. No. farmers following parasite & disease control recommend's.	54	1132	57	629	31	768
16. No. farmers following marketing recommendations	40	616	30	861	7	112







1939	STATISTICAL	. SURMARY
(From	Specialist	Reports)*

Number days in the field	233
Number days in the office	139
Number days on annual leave	2
Number days on sick leave	1
Number automobile miles traveled	25,163
Number railroad miles traveled	0
Number visits to county agents	293
Number visits to demonstrators	317
Number other visits	289
Number meetings attended	63
Total attendance at above meetings	4,197
Number office consultations	242
Number letters written	1,752
Number different circular letters	36
Number articles prepared	7
Number radio talks prepared and given	2

...

\*(This report includes work done by Sam L. Williams, Assistant Extension Animal Husbandman, for a period of three months) IV. OUTLOOK

The outlook for accomplishments in the Animal Husbandry field in North Carolina are extremely bright for 1940. The Soil Conservation Program and the Agricultural Adjustment Administration together with other factors is bringing about a decided increase in livestock interest throughout the state, especially in the cotton, tobacco and each crops sections. In fact there is so much interest in beef cattle development that it is found necessary to advise caution with beginners. It is thought that 4-H Club work is an excellent foundation for increased livestock production and plans for 1940 show a decided increased interest among county agents and farmers in this type of work. A summary of Plans of Work by county agents shows 33 counties planning on 181 Fat Steer Projects and 13 counties planning on 98 Feeder Calf Projects for the coming year.

#### Lines of Work to be Emphasized in 1940.

- 1. Better feeding with especial emphasis on improved pastures.
- 2. Increase in sheep growing throughout the state.

3. Better type sires. It appears that banker's organizations throughout the state will sponsor the importation and sale of at least two car loads of good beef type bulls in 1940.

- 4. Improved purebred herds and flocks for supplying better stud sires.
- 5. Beef Calf Club work.

#### Circular Letters and News Articles.

On the following pages will be found sample circular letters used during 1939 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 14, 1939

To County Agents in Western District:

This letter is to call your attention to sales of registered beef cattle in nearby states this spring. Perhaps there are farmers in your county who will want to attend.

April 3 -	1:30 P. M Abingdon, Va. Herefords, 23 bulls, 15 females. Kenneth E. Litton, Mgr., Blacksburg, Va.
<u>April 4</u> -	1:30 P. M Blacksburg, Va. Shorthorns, 10 bulls, 27 females. Kenneth E. Litton, Mgr., Blacksburg, Va.
April 5 -	Staunton, Va Angus. Kenneth E. Litton, Mgr., Blacksburg, Va.
April 7 7	Campus, College of Agriculture, Athens, Ga, Angus and Herefords, 30 Angus and Hereford bulls, 10 Angus heifers. Kenneth E. Litton, Mgr., Blacksburg, Va.
<u>April 19</u> -	Staunton, Va Herefords. Kenneth E. Litton, Mgr., Blacksburg, Va.

April 22 - Lewisburg, W. Va. - Herefords. Oscar Nelson, Mgr., Lewisburg, W. Va.

I am asking L. A. Richardson, P. 0. Box 1071, Knoxville, Tenn. to send you notices of sales to be held in Tennessee during the next few weeks.

Yours very truly,

L. I. Case Extension Specialist in Beef Cattle and Sheep

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

EXTENSION SERVICE

State College Station Raleigh, N. C. March 24, 1939

TO COUNTY AGENTS IN EASTERN NORTH CAROLINA:

Dear County Agent:

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A copy of circular letter entitled "Controlled Breeding Pays" is being enclosed. The purpose of this is self explanatory and we suggest that you see that a copy is put into the hands of your beef cattle men, especially those who purchased western heifers last fall. Let us know how many copies you need.

Le is Ch

Yours very truly,

Animal Husbandry Specialists.

Encl.

27-52-

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

April, 1939

To Sheepmen in County:

On

Hour, Day of week

and date

\_\_ , a sheep meeting and

shearing school will be held at \_\_\_\_

state location of farm and how to

reach same.

The morning program will consist of talks on the outlook for lambs and wool for this year, the grading and marketing of lambs, and the proper methods of handling wool after it is off the sheep's back in order that it may bring the high dollar.

Then there will be a SHEARING DEMONSTRATION by E. S. BARTLETT of Chicago, Illinois. Mr. Bartlett is an expert in his line and has put on demonstrations in nearly every state in the Union.

In the afternoon Mr. Bartlett will conduct a SHEARING SCHOOL for a number of young men who want to learn how to shear sheep in the easiest and best way.

Lunch will be served at a reasonable charge for those who play to stay for the afternoon shearing school.

Trusting that you and your neighbor sheep men may be able to attend this meeting, I am

Yours very truly,

County Agent

IN

AGRICULTURE AND HOME ECONOMICS STATE OF NORTH CAROLINA EXTENSION SERVICE

May 15, 1939

To All County Agents:

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

> An article entitled "Preparing The Wool For Market" is enclosed. Use it for newspaper publicity, a circular letter to your sheep growers or in any way you see fit.

Relative to marketing wool this season let me say that I think it will be to your growers advantage to concentrate as much wool as possible in in one place and sell to the highest bidder in case bids are in line with the market. If not wool may be shipped by individual farmers or in larger lots to Producers Cooperative Exchange, Inc., 1114 East Cary Street, Richmond, Va., or to Chatham Manufacturing Company, Elkin, N. C.

The first company named will pay the Richmond market upon receipt of the wool if it is the wish of the growers to sell outright. If they desire to consign the wool they have an arrangement with The Commodity Credit Corporation to finance the 1939 clip as per the following plan which is quoted from a letter dated April 27, 1939 from The Producers Cooperative Exchange:

"The growers will ship or deliver their wool to us at Richmond, we will advance immediately 60% of the market value of the wool and as soon as we accumulate a carload, in order to get carload storage rates, an appraisal of the wool will be made and a further advance to equal 75% of the market value of wool will be mailed to the growers. Of course, as soon as the wool is sold the net balance will be sent to the growers.

"The advantages, as we see them, in following this course are as follows: First; There will be an outright loan of 75% of the value of the wool without recourse to the grower. Second: It will entitle the grower to all the results accruing from an advance in the market,"

With reference to the Chatham Manufacturing Company I quote from a recent letter:

"We buy some Eastern North Carolina wool and pay cash for it and we have had no complaints about the price. Of course this eastern wool is usually heavy with sand which makes the scouring loss heavy. On such wool we try to pay a grease price that will make the clean wool cost us the same as we get out of the grass sections. The worst thing is burrs. They won't wash out and we have to carbonize which costs 3 to 5 cents a pound in addition to loss of the weight of the burrs. However, we will buy for cash from any section of North Carolina allowing best price possible but because of sand, burrs, etc. we can't quote without seeing the wool. We think most of the growers understand this, but some see a market quotation for clear wool and expect that price without regard to sand, burrs, etc."

Last year wool growers who sold outright in Richmond received 21 cents per pound for clear 3/8 blood wool and correspondingly less for burry wool and rejects, to as low as 14 cents for heavy burry wool. Those who consigned their wool received 20 cents down payment and an additional seven cents when the wool was finally sold which was in early March this year.

The only wool I know of that was sold last year to the Chatham Manufacturing Company was that pooled by the Alleghany and Ashe County growers which brought 25 cents on a clear basis on an outright sale in June. This wool was taken up and weighed in the country. Watauga County also sold last year at 25 cents to a local buyer. This is the highest price received anywhere in the state last year on outright sales.

Both of the companies above referred to have been asked to quote prices that they will pay on today's market for clear, light burry and heavy burry wool. In case definite information is received the same will be sent on to you.

Yours very truly,

L. I. Case, Animal Husbandry Specialist

Encl.

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 15, 1939

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Yours very truly,

L. I. Case, Animal Husbandry Specialist

Encl.

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

EXTENSION SERVICE

State College Station Raleigh, N. C. May 17, 1939

TO BREEDERS OF PUREBRED SHEEP IN NORTH CAROLINA:

There seems to be more than the usual interest in good rams this year and I will appreciate it if you will write me at your earliest convenience stating the number of yearling registered rams which you have for sale and the prices which you are asking for them.

In case it appears advisable to hold an auction sale of rams this year how many yearlings would you be interested in consigning? In my opinion it is best to put in a public sale only the better kind of rams which will be a good advertisement for your flock.

Awaiting your reply, I am

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

EXTENSION SERVICE

State College Station Raleigh, N. C. June 20, 1939

Gentlemen:

Perhaps you will be interested in the way lambs are selling at various points and under various methods of marketing. On June 8th lambs were graded in Alleghany, Ashe and Watauga. The latter county made a deal over the telephone with an auction market in Southwest Virginia and delivered 160 lambs on Friday, the 9th, at the following prices: Choice \$10.00, Good \$9.50, Medium \$0.50, home weights and 15 cents per head for trucking. This was apparently bait. Alleghany and Ashe had same chânce but chose to ship to Sam Nagle, Arbree Commission Company, Jersey City; Their lambs 150 head a 40 foot single, with \$2.40 per cwt. to cover drift, freight, trucking from farm to loading point, commission, feed, etc. (this cost ran higher than usual) sold on June 12th to net the growers as follows: Choice \$9.50, Choice Bucks \$8,50, Good \$9.00, Good Bucks \$8.00, Medium \$8.00 and Medium Bucks \$7.25.

Last Friday the Asheville Market handled a single deck of lambs, 134 head. They were officially graded and sold as follows: Choice \$10,50, Choice Bucks \$9.10, Good \$9.60, Good Bucks \$8.80, Medium \$8.70 and Medium Bucks \$8.00. You will note that when shrink from farm to market, and commission are considered, these prices are closely in line with net prices for lambs shipped to Jersey City. Lambs will be garded and sold by grade each Friday at Asheville.

Yours very truly,

L. I. Case, Animal Husbandry Specialist

IN

AGRICULTURE AND HOME ECONOMICS STATE OF NORTH CAROLINA

EXTENSION SERVICE

State College Station Raleigh, N. C. July 8, 1939

Dear County Agent:

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

> Am enclosing tentative classification and premium list for the 1939 Asheville Fat and Feeder Cattle Show. You will note some changes from last year. The most important change is the moderate reduction in first to tenth premiums, in the single classes and the addition of five prizes on a Grade basis. This is somewhat similar to the State Fair premium list which proved satisfactory last year. Another change is the doing away with the dehorning rule as applied to <u>Class 7</u> - <u>Feeder Calves</u>. I was reluctant to drop this requirement but many agents said they could get more entries if they did not have to have the calves dehormed. It is still desirable and I urge that you have it done when possible.

> I am also enclosing a proposal in regard to placing a ceiling on the amount that any 4-H Club member can receive for his or her steer. This is in line with what is being done in other states and has for its object the discouraging of paying unreasonable prices for calves to be fed and other undesirable practices. Such an agreement may apply to all steers exhibited and sold at a given show or it might mean only the distribution of surplus money among the exhibitors from the county from which the champion or champions come.

Please look over both the premium list and the proposal and let me have your suggestions and comments.

Also give me your suggestions as to judges for the Asheville Show.

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. September 6, 1939

#### TO ALL COUNTY AGENTS AND ASSISTANTS:

A recent letter from W. B. Mitchell and Sons, Marfa, Texas, gives us definite quotations on stocker and feeder cattle as follows: "Choice heifer calves weighing 400 to 450 pounds at  $8\frac{1}{2}\phi$  per pound; choice heifer yearlings weighing 550 to 600 pounds at \$42.50 per head on the lighter weights and \$45.00 per head on the heavier weights (all of these bred to the best of registered bulls); steer calves weighing 400 to 450 pounds at  $9\frac{1}{2}\phi$  per pound, and steer yearlings weighing 600 to 650 pounds at  $8\frac{1}{2}\phi$  per pound. All of these prices are f.o.b. the cars here." They also invite us to attend their Highland Feeder Show and Sale on October 6th. This show and sale is to be held in connection with their Highland Fair and Rodeo. They state that they will have 3000 hand picked calves and yearlings which will be sold by the pound with freight prepaid to any point in the United States.

To repeat a statement made in my letter of August 7, Western North Carolina offers a good source of supply for cattle to be put into the feed lot and fattened for the winter and spring market. These cattle are farm raised and will do better for the average feeder than cattle shipped in from other states. Our mountain counties also have a limited supply of female stock of various ages and breeds for sale. If you have not received a copy of the list of cattle for sale in Western North Carolina, write for same.

Recently, I have been getting some inquiries about cattle for sale in Southeastern Iowa. Evidently the cattle racketeers in that section are at it again with their advertising, post card announcements, etc. Whenever stocker and feeder cattle are scarce they reap a new crop of suckers. They lure the prospective buyer by talking high quality and low prices. If the buyer goes to see the cattle they usually show him some good cattle and ship something else or take advantage of him in some other way. Some of our cattle men of wide experience and excellent trading ability have been robbed in this section and I have never known anybody to get a square deal. My advice and warning is <u>STAY AWAY FROM IOWA IF YOU NANT TO BUY CATTLE</u>.

In order to give you some insight into the cattle situation I am herewith quoting extracts from a recent issue of "The Livestock Situation" published by the Bureau of Agricultural Economics, "Prices of all livestock declined during July and early August", - "Prices of slaughter cattle declined only moderately in July after a sharp drop from early April through mid-June", -"The average price of good grade slaughter steers at Chicago for the week ending August 12, was \$8.95 per cwt. about 75 cents lower than a year earlier". I have compared recent quotations on choice and prime steers with a year previous and find prices at Chicago about \$2.50 lower than 1938. Grass fat heavy steers from Southwest Virginia are bringing about \$1.50 under 1938 prices. In other words, it looks as though the higher the quality the greater the spread between prices last year and this.

To again quote: "Prices of stocker and feeder cattle also declined in recent months, partly because of the drop in prices of fed cattle and partly because of seasonally larger supplies from the Southwest." Let me add that quotations on good to choice white faced steer calves at Kansas City on August 25th were \$9.00 to \$9.50 while on August 26th, 1938 they were \$8.50 to \$9.00. Yearling feeders, however comparing the same dates are lower this year than last.

#### Beef Cattle Outlook B.A.E.

"The number of cattle on feed for market in the Corn Belt States on August 1, this year was estimated to be 16 per cent larger than the number on feed August 1, last year." --- "This doubtless reflects the record stocks of corn in the Corn Belt States on July 1, and the high prices of cattle relative to corn prices that have prevailed since last fall."

If you wish to receive copies of "The Livestock Situation" write the Bureau of Agricultural Economics, United States Department of Agriculture, Washington, D. C., for the same.

Yours very truly,

L. I. Case, Animal Husbandry Specialist

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

IN AGRICULTURE AND HOME ECONOMICS STATE OF NORTH CAROLINA

EXTENSION SERVICE

State College Station Raleigh, N. C. September 25, 1939

TO COUNTY AGENTS IN ASHEVILLE SHOW TERRITORY:

Gentlemen:

I am herewith enclosing lists of owners of Fat and Feeder calves in your sounty as furnished me by Sam Williams. Please check this over carefully, complete the information asked for, make any corrections necessary and return to me as soon as possible. I want to list all the names and addresses, etc. on a special sheet for use at the Asheville Show and the nearer correct it can be made prior to the show the better.

There seems to be some question about the date of the Asheville Show. It is Wednesday, October 4th, and all cattle must be on the grounds not later than 3:00 P.M. October 3rd. This will be best for everyone concerned.

For those of you intend to bring some cattle to the State Fair it is suggested that you make your own arrangements for transportation. If you only have a few head of either 4-H Club steers or breeding cattle make arrangements for shipping with some other county. Freight shipments will probably be a little more expensive than truck but the cattle will no doubt go through in better shape in a box car, The freight rate from Asheville to Raleigh is 35 cents per hundred weight with a minimum of 20,000 pounds for a 36 foot car. Each person who rides in the car will have to pay regular fare of \$5.50. 12 m

Be sure that you have the necessary equipment for your cattle. This includes tubs or feed boxes, one for each animal, ample buckets for watering, good rope halters for tying and showing, forks for handling litter and the necessary supply of brushes, combs, 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. Use a small amount of olive oil and alcohol, half and half, on a woolen cloth for softening hair for a few days prior to show,

Avoid too much washing at shows, If necessary wash calves soon after arrival at show yards. Then keep calves well bedded and clean, avoiding further washing as far as possible,

There has been a considerable amount of trouble in former years with calves scouring and going off feed at the shows. It is believed that the following suggestions will help correct this trouble: 1. Feed and water regularly. 2. Avoid sudden changes in ration, 3. Cut down amount of salt fed to calf for a few days prior to and at show, 4. Gradually reduce or cut out entirely any succulent feed and legume hays and substitute grass hays instead, Most professional showman feed timothy hay at shows to avoid scouring.

I hope it will be possible for one of the agents or at least a reliable man who will follow instructions 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. If there are any questions of which you are not certain write me or the show management.

Everything possible is being done to assure successful sales at both Asheville and Raleigh. You do all you can to interest local buyers for some of your calves.

Very truly yours,

L. I. Case, Animal Husbandry Specialist.

Encl.

P. S. I am trying to interest Eastern County Agents in buying the better end of the feeder calves to be shown at Asheville for their 4-H club boys to feed for the Rocky Mount show in the spring. Am telling them that I think arrangements can be made to have these calves brought to Raleigh with the Fat Steer exhibits with no delivery costs. This should develop a good market for feeder calves of quality. It will mean some cooperation on the part of those of you who will be shipping to Raleigh in order to help those who are not. Will you cooperate in this?

L. I. C.

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 State College Station Raleigh, N. C. November 15, 1939

#### NOT FOR FUBLICATION

#### To All County Agents and Assistants:

Records show that we have past the low point in cattle numbers in the United States and restocking is the order of the day. This also means that we are at or near the peak of prices. The cattle cycle is usually from 14 to 16 years which means that under normal conditions the tendency will be for numbers to increase and prices tend downward for the next 6 or 7 years.

As for slaughter cattle, there are more cattle on feed than last year and the Bureau of Agricultural Economics looks for larger supplies of grain fed cattle during the next six months than in the corresponding period of 1939. However supplies next summer and fall may be no larger than in the summer and fall of 1939.

In regard to the effect of the European war on the cattle situation it is not likely that we will ship any beef to Great Britain as that country will probably get most of its beef from South America, Australia and New Zealand. A moderate increase in exports of pork are anticipated but no increase comparable to that which took place during the previous war is expected. Increased demand for meats as a result of improved business conditions will likely take place. Summing the situation up from every angle it is believed that we should take a conservative stand and advise our farmers to go into cattle only on a sound basis. Let us not forget that in 1933 the price of Good grade slaughter steers was in the neighborhood of 5 cents per pound and that in the summer and fall of 1934 stocker and feeder steers sold below 4 cents per pound. Also remember that history repeats itself.

Ample pasture and feeds of other kinds for the year around should be given first consideration on both new and old cattle farms. Good purebred bulls are always a safe and sound investment.

Beginners in the cattle business can best invest their money in good type purebred bulls for use on native or grade females. Only in very rare instances should farmers without considerable experience go into the purebred business. They should get their experience with limited numbers of cattle of the kind that require smaller invested capital.

Established herds should be culled during the present period of good prices and replacements made by keeping back the best heifer calves, or, in some cases by purchase of better females.

#### EXTENSION SERVICE

It is realized that few will go into cattle or anything else when prices are low. On the other hand the majority go in when prices are high. We who are working for the farmers good should be careful not to get over enthusiastic ourselves at a time like the present. One success is better than several failures.

Yours very truly,

L. I. Case, Extension Animal Husbandman.

## IMPORTANCE OF GOOD PASTURES STRESSED

#### Specialist Says Land Should Be Built Up Just As For Any Other Crop.

A good pasture is essential to economical livestock production, says L. I. Case, animal husbandman of the State college extension service. It should be produced on land that is suitable for the growing of pasture plants. The land should be built up, prepared and fertilized for pasture with just as much careful thought and judgment as for any other crop.

Now is the time to improve old pastures and seed larger acreage to adaptable, edible and nutritious grasses and legumes. Case points out Present increased interest in the growing of more livestock in North Carolina should logically be accompanied by an increased interest in pastures. It is only under rare circumstances that farm animals of natural grazing habits can be produced at a profit unless they are provided with good grazing for at least half of the year. The longer this good grazing can be provided, the greater the profits as a rule. Very often soil tests should be made to see what elements are lacking and these elements aded in ordn to build a pasture worthy of the name, the beef cattle and sheep specialist advised. Stable manure, commercial fertilizers and lime are often needed to make good pastures. Where part of a pasture is fertilized one will usually find the stock doong most of their grazing on this particular area, showing that they are getting what they like and need for growth and development. Livestock need to get a good fill in a comparatively short time and then lie comfortably in the shade while this feed is digested and converted into beef, milk or mutton. The selection of adaptable varie.

The selection of adaptable varieties of pasture plants is one of the points stressed by Case. "The kinds of grasses and legumes hat are now thriving under similar conditions is often a good indication of what will do best," he said. "Many times certain pasture plants will be found growing Juxuriantly along road sides and fence rows. This often gives a good lead as to what will do well in this particular locality."

#### FAT STOCK SHOW MARCH 16-17

Plans for the second annual Eastern Carolina Fat Stock Show and Sale in Mangum's Warshouse at Rocky Mount have been announced by H. W. Tarlor, swine specialist, and L. L. Case beet cattle specialist of the State College Extension Service. The event will be held March 16 and 17 under the sponsorship of hte Rocky Mount Chamber of Commerce with the cooperation of the Extension Service.

J. C. Powell, Edgecombe County farm agent, and T. E. Alphin, farm agent-elect in Nash County, are co-chairman of the show, with E. H. Austin of the Rocky Mount Chamber of Commerce as secretary.

All beef cattle and swine growers east of and including Wake, Granville, Durh am, Harnett, Hoke and Scotland Counties are eligible to exhibit and complete for premiums totaling \$803 in eash. Special divisions and contests for 4-H Club members and vocational agriculture students have been arranged. Entries should be made to Mr. Austin before March 11.

Hogs to be eligible must be barrows or gilts weighing at least 160 pounds but not more than 240 pounds. Beef cattle will be divided into the customary three classes — lightweight, mediumweight, and heavyweight.

All animals wil be judged Thursday afternoon, March 16, staring at 1 o'clock. A junior judging contest for 4-H Club memhers and vocational agriculture students wil be held Friday morning, March I7th, starting at 9 o'clock. The sale will begin that afternoon at 1 o'clock.

A new class in hogs will be for 4-H Club members and vocational agriculture students, with 16 prizes offered.

#### Interest Spreads Over Entire State In Livestock

RALEIGH, June 12-Interst in livestock is spreading from one end of the State to the other, reported L. I. Gase, beef cattle specialise of the State College Extension Service, upon his return from recent visits to Pitt and Wilkes counties.

In Pitt county, Case said he found that J. V. Taylor of near Bethel recently sold a young Hereford steer to a local butcher for better than 8 cents per pound on the hoof, and that Mr. Taylor has seven or eight head of steers he plans to carry over and fatten for the market next year.

"Wir. Taylor is entering the beef cattle buildness in a conservative way." Case stated "He has a small herd of grade white-faced cattle and a few purchered females with a registered built which came from Anson county. Mr. Taylor built a fine cattle barn last year. He is keeping all of his heifer calves to build up his herd." The extension specialist also visited W. A. Allen of Farmville while in Pitt county. This farmer moved to Eastern Carolinas from Middle

The extension specialist also visited W. A. Allen of Farmville while in Pitt county. This farmer moved to Eastern Carolinas from Middle Tennessee, and says he thinks that North Carolina offers great possibilities for the development of a livestock industry. He bought spure-bred Hereford bull recently, which he added to his herd of 65 heifers and steers, the foundation for which were purchased on the Fanesa City market early in 1938.

for which were purchased on the Kanasa City market early in 1938. J. H. Johnson of Wilkessboro, A. former sheriff of Wilkes county, has a small herd of purebred Herefords, headed by a bull he purchased a year ago from R. R. Gliner of Eminence, K.Y. Mr. Johnson is helping to develop the beef cattle industry in Wilkes by selling young bulls to neighbors, Case reported.

### LAMB SHIPMENTS PLANNED IN N. C.

Planned This Spring From Tarboro, Plymouth, Shawboro And New Bern

RALEIGH, Jan. 29.—Cooperative lamb shipments are planned in May and June from Tarboro, Plymouth, Snawboro and New Bern, it was announced today by L. L. Case, animal busbandman of the State college Extension service.

A meeting was recently held at New Bern to discuss the matter of grading jambs and selling them cooperatively by grades. Among those who attended were John Scott and Albert Venters, leading sheep growers of Onelow county. and county farm agents from Craven, Jones, Onslow and Pamilico counties. Carteret county also will be included in the shipments.

Case said the group decided to try to get off at least one deck of lambs this sprins. The time of the shipment will depend upon the way the lambs develop, but in all probability it will be made in May or June, perhaps shipments will be made in both months.

Improved production Tacthods were discussed at the conference, and as a result the extension animal husbandman has prepared brief instructions for care, feeding and management of lambs, together with internal parasite control. These suggestions are available through county farm agents or upon request directly to Case at State college.

In the preface to his suggestions, Case says: "Some lambs are already here and many more will be coming scon. 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.

"Of first importance in teeding lambs is milk and rienty of it. See that the eves are ted for milk production. Greep 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 eves." FARM QUESTIONS Answered By State Agricultural Extension Service

QUESTION: Is sheep raising profitable in North Carolina? ANSWER: Yes. Research work by scientists of the North Caro-

lina Experiment Station indicate that a small farm flock of sheep will pay excellent returns throughout most of North Carolina. Purebred Hampshire rams used on native ewes produce an excellent cross bred lamb of high quality and with good weight of body and wool. Sheep keep weeds under control, produce mutton for home use and supply an income from wool anl lambs.

QUESTION: Is grass sliage a practical feed in this State? ANSWER: Apparently so be-cause many good farmers have now turned to this method of providing succulent feed for their cattle during summer. It is rather hard to cure for hay the cereal and legume crops planted in the fall and harvested in the spring. Many times it rains continuously when the hay should be cut and the crop thus matures to the point where it is nothing nutch but stems and woody tissue. If the crop is cut and rained upon, curing is difficult and a low quality, moldy hay is the result. On the other hand, this material can be cut and stored and the cattle are assured of an excellent feed. There is no waste.

QUESTION: What results, if any, are coming from this Con-servation program of the Agricultural Adjustment Administration

ANSWER: The program seems to be bearing fruit. At least over six million farmers in the United States seem to think so because that many persons are carrying out improved practices on about 50 million acres of farm land. These farmers are adjusting their These farmers are adjusting their practices to include increased a-creages of grasses and legumcs, applications of limestone and phosphate to make good pasture and meadow crose, planting for-est trees, constructing ponds and reservoirs and protecting the soil from erosion by wind and water. They are terracing, contour farm-ing, strip cropping and filling guilies. All of this must result in a better soil for those who come after us.

# VALUE OF SHEEP IS TREMENDOUS

Another Reason Given by State College Specialist For Raising Sheep .

Raleigh, July 4.-(AP)-W. W. arden is going back into the sheep usiness as soon as he can locate me good ewes.

This Alleghany County man, hose farm is located near Laurel prings, told L. I. Case, extension nimal husbandman at State College, that his pastures have been going lown ever since he disposed of his sheep about three years ago.

For months now, Warden has noticed that where his neighbors have been grazing sheep on their pasture land, there has been a noticeable lack of weeds. However, on his own farm the weeds have completely infested his pastures.

Such a situation might be all right if his cattle relished the weeds. But it seems the kinds of weeds now springing up the cattle won't touch. Case said it has long been recog-

nized that sheep will eat a multitude of weeds that no other farm animals will eat. However, the average farmer is likely to overlook this fact unless it is called to his attention.

R. E. Black, Alleghany County farm agent, told Case it is easy to tell on which farms sheep are kept observing the pastures. At this time of the year, there is a yellow-blosomed weed quite prevalent in cattle pastures, but which is conspicious by its absence in pastures where sheep are grazed.

"This elimination of undesirable weeds is but another reason why North Carolina farmers should add sheep to their list of farm animals," Case said, "Besides furnish lambs and mutton, they also provide an additional income through their wool."



Poor Cotton Prices, Tobacco Problems Turn Farmers To Fine Field

#### By GENE KNIGHT Assistant Extension Editor, N. C. State College

RALEIGH, Sept. 24 —  $(\mathcal{B})$  — Whether it likes it or not, North Carbina is becoming a livestockminhed state, L. I. Case, extension specialist in beef cattle and sheep at X. O. State college, said today.

Disastrous cotton prices coupled with poor yields in many years, and new price trouble with tobacco have turned the faces of many farmers toward livestock as an answer to their problem.

their problem. ' In fact, Case said, last year marked the greatest progress in animal husbandry in 10 years. Especially was this true with beef cattle, as old owners increased their herds, and many first-times entered the business.

Sinking cash crop prices helped put more livestock on North Carolina's fairms, but the agricultural conservation program alro did its share. By encouraging growers to plant more feed crops, the program was directly responsible for the addition of more animals to consume the surplus feed brought about.

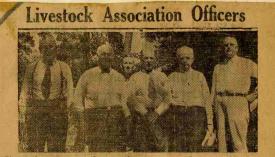
Then, too, Case said, cattle prices were high in comparision with most crops. Naturally the farmer would be expected to turn toward that field where he could earn the greatest amount of cash income.

At the same time more beef cattle and other livestock are being introduced in North Carolina, improved methods of handling and feeling them have been advocated by the State College Extension service and its agents.

Especially has much work and stress been placed on pasture improvement, silo building, and winter over crops programs. Then ahother strong point has been the teaching of controlled breeding for improving the stock.

Specialist Case and others connected with the extension service have pointed out repeatedly that the production of beef cattle is not confined to the western counties. Constal North Carolina also offers advantages in a mild climate and pleaty of inexpensive grazing. More and better herds are being raised in the eastern counties each year.

To stimulate interest, stock shows are held in both eastern and western North Carolina each year. The eastern show is held in Rocky Mount and the western show in Asheville. These events bring toacher some of the finest blooded animals in the state.



Six of the officers of the recently treasurer; Cameron Morrison of Charlotte, Mecklenburg county, memthe Breeders' Association are shown above. They are left to right: W. E. ber of the executive committee; and Shinker & Wile Waterman

#### BEEF CATTLE

The recent organization of the Hereford Cattle Association in Anson county, comprising growers from all over the state, is a notable event for this section. Senator Morrison, who was on hand for the organization, spoke of the natural adaptation of this section to the production of beef cattle. There are the natural conditions as enumerated by Mr. Morrison, soil, moisture and a long growing season, perfectly adapted to the production of feed crops of every kind. In addition to this we now have marketing facilities not heretofore available. Under these cattle may be sold in local markets for as high prices as local conditions warrant and always as high as the Chicago market. All the favorable conditions which apply to beef cattle also apply to dairy cattle and hogs.

The Charlotte Chamber of Commerce has a department devoted to the promotion of live stock growing. No activity of the chamber could be made more valuable than this. Beef cattle and fat hogs can now be sold as easily as cotton, while dairy and poultry products never lack a market. Milk condenseries are now clamoring to get into this section and just as soon as the supply of milk warrants it, at least one big company with huge national markets is ready to erect a condensery.

# SHEEP WILL GET Growers Profit

#### Prospect Bright for Good Season for Growers as Wool Price Soars

College Station, Raleigh, June 7-Prospects are bright for a profitable season for sheep growers, reports L, J. Case, animal husbandman of the State College Extension Service. The Boston Wool Market has strenzthened two cents per pound within the past two weeks, and two wool pools conducted by county agents in Western North Carolina recently brought producers 31 cents above the average of sales in the State hast year.

Lamb prices at the cooperative sulse conducted by Extension Service agents last week at Tarboro and Shawboro also were well above the average of last year. At the Shuwboro sale, the most recent of the two, 144 lambs were sold, mostly from Pasquotank county, with a tew from Currituck.

A double-deck truck of the Shawbord lambs were shipped to Phila-1 lphia where they brought the following prices: Choice, \$12.50; good, \$12; medium, \$11.20; and plain lambs, \$2, all per hundredweight. The aversee for all lambs shipped cooperatively from the State last year was \$7.50 cvt.

Extension Specialist Case said that the most recent quotations from the Boston Wool Market are 50 to 31 cents on 3-8 and 1-4 blood wool, the grades most common in North Carolina. He reported that the Virginia Wool Pool a few days aco sold for 31.52 cents per pound, and that the Tennessee pool brought about the same figure.

A North Carolina manufacturer is offering 30 cents for small lots of clear 3.8 and 1.4 blood, 23 cents for light burry, and 25 cents for heavy burry wool. The same company will allow 35 cents for wool in lieu of cash in the making of blankets, It takes 11 pounds of wool for the making of a pair of blankets, and \$5 for the making.

## SHEEP PRODUCTION IMPROVED IN N. C.

Grading And Sooperating Selling Of Lambs Influences - Methods

RALEIGH, July 23.--GP--Grading and cooperative selling of lambs are having a marked influence on better sheep production methods in western North Carolina, L. I. Case, extension animal husbandman at State college, said today.

In practically all of the mountain counties where sheep raising is on a well-established basis, farmers are planning to increase the size of their flocks, largely because of the good prices received at the cooperative pools arranged by county farm agents.

Case said at three recent shipments from Ashe, Alleghany, and Watauga counties, farmers sold 1,101 lambs. Additional ewe lambs were graded and sold to growers to be added to their present flocks or for the establishment of new flocks.

As an example of the interest being shown in better methods of raising shown in better methods of raising sheep, Case pointed out Henry Taylor of Valle Crucis. At this year's sale, Taylor sold 14 lambs, seven of which graded choice and the other seven good. Last year, this same farmer sold 34 lambs, but only one of the entire lot graded choice. Case quoted Taylor as saying that after the 1935 sale he intended to improve his methods or go out of

Case quoted Taylor as saying that after the 1938 sale he intended to improve his methods or go out of the sheep business. So he culled his wees, improved his pastures, purchased a better ram, and watched closely for stomach worms. His remarkable success at this year's sale indicated clearly the supériority of improved methods.

Another example of the advantages of gracing was furnished by Neal Blair of Boone. In a recent shipment, this farmer had more choice lambs than in any shipment since the cooperative marketing was started. He attributes much of his success to his practice of feeding a grain mixture to his lambs.

# Beef Cattle Becoming Major State Enterprise

# tinue Heavy.

vice, reports. the state agricultural extension ser- ties, and that 4,477 farmers in 75 beef cattle and sheep specialist of ing established in 1938 in 63 counduring the past decade, L. I. Case, and reports of 1,786 new pastures bemal husbandry field than at any time, he extension specialist reported he making greater progress in the ani- of economical livestock production, Farmers of North Carolina are

western states," he said. beef cattle herds. proximately 1,500 head of females the demand, with the result that apsurplus areas were unable to supply and strong in 1938 that our normally for breeding stock were so numerous terest is mounting during these early feeding of beef cattle is becoming months of 1939, Case said. "Calls increasingly nonlar," he continued to beef cattle last year, and the inwere shipped into the state to build Yexas, Kansas, Nebraska and other This was especially true in respect These came from

# Varied Reasons

outlets are sounding the doom of the terest in livestock to several factors, farm commodities. high in comparison with most other the boll weevil and declining market jority of the cotton farmers feel that supply of available feed; (2) the maconservation program increasing the chief of which were: (1) The soil rop; and (3) cattle prices have been Case attributed the increasing in-

ber of steers on only being made in boosting the numquality improvement. of United States standard grades are and adults, and increased knowledge competition for 4-H club members 4-H baby beef club work, show yard quality of animals. farms, but also The specialist said progress is not playing an important in improving the North He thought that Carolina part in

for many years," Case asserted. "The duced. This lowering of quality was grade steers and heifers being proin service which resulted in many low the high percentage of mediocre bulls main reason, we believe, for this was our beef cattle in this state went on "Deterioration of the quality of

1,500 Head Shipped our feeder steers in southwestern Into N. C. Last Year and northern Virginia. For these For Breeding Con- one of our main lines of extension and Calls For Stock reasons, the replacement of common balls with better type animals was in 1939." work in 1938, and will continue to be For these

# New Pasteres

of pastures. mendations for improved fertilization counties followed extension recom-Terming pastures the foundation

grasses and legumes with black strap this popularity. Corn is the main crop trench silo has had much to do with tal work is being done in the use of used to some extent, and experimen used for silage, "No doubt the introduction of the molasses added to correct acidity. increasingly popular," he continued. "The use of silage in the winter although cane is

lina's 100 counties. These were built built on farms in 51 of North Carofication of agriculture in the state." show a definite trend toward diversion all types of livestock farms, and "During the year 224 silos were

### Young Progressive Haywood



ACK ROGERS, son of Mr. and Mrs. John F. Rogers, is a member Crabtre 4-H Club, with his Hereford call, "Dave", which has gained unds in 168 days or and average of 2.9 pounds per day. Dave will be the old October 22: (Story on page 11)



AVID SMART, son of Mr. and Mrs. Ellis Smart, who is a member Crabtree 4-H Club with his Aberdeen-Angue-Hereford celf, "Jack" has gained 412 pounds in 168 days or an average gain of 2.5 pounds y. Jack will be 8 months old October 5.

(Story on page 11)

RICHARD BRADLEY, son of Mr. and Mrs. W. A. Bradley, is a mem-of the Waynesville 4-H Club, with his Hereford-Shorthorn end, "Hay-", which has gained 487 pounds in 224 days or an average gain of ounds per day. Haywood is 13 months old

ing a total cost of \$53.20

ing a total cost of \$83.20. Or August 5, 1305, I showed bim at Bethel at the 4H Chb Baby Beef Show, and wen 3rd prize in the Medium Class and 1st prize for shownmably. Friends in this community have proved for a faywood," and over a period of a faw month, over 100 people have come to see him. BICHARD BRADLEY.

MY BABY BEEF

To date I have fed him in mixed sed, which has amounted to a cost \$36.20, and \$17.00 in milk, mak-

muary 15, 1939, I started beef project, a Shorthorn-i beef calf from the herd ohn M. Queen, Sr. ood," which I named my ghed 315 pounds at the

MY BABY BEEP "Jack," the name of my Here-ricAberdeen Angus haby beef H, was hown February 5, 1998. "Jack" is a good calf, and since-was first weighed on March 25 "Jack" is ago and the second state was first weighed on March 25 (Jack" is a sportward to the second state second state second second second 6,00. Milk has been his principal diet.

since he was put on feed with corn and a little cottorsed meal and wood feed added. The people in our community have taken a great deal of interest in "Jack" and are always inquiring as to how much he has gained per month.

DAVID SMART

WAY ABEL, son of Mr. and Mrs. Grover-J. Abel, is a member of the ion 4-H Club with his Hereford Calf, "Model" which has gained 569 dat in 224 days or an average gain of 2.5 pounds per day. Model is outhe old.



WAY ABEL, son of Mr. and Mrs. Grover J. Abel, is a member of the auton 4-H Club, with his Hereford calf, "Colonel", which has gained 642 minds in 284 days or an average gain of 2.4 pounds per day. Colond 11% months ofd.

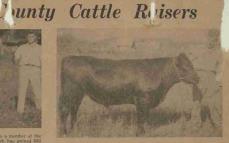
#### MY BABY BEEF

AY DARY BEEF When I can cross the Bick Fair later fall with a greater de-termination to have a winner, I control with I had. One of these choices was a fail to broken to "fail-fact," which I showed at the Back "content" and Mondel". "Global" was born on Des I. "Mohef" was born on Des I. I foll the carlva good all winter, food and they have hand all they could from that time an "fail ratio. This is not due yang Law hand all house.

This is the 4th year I have had

4-H Club baby beeves in the show and I think they have created quite a bit of interest for a better type of beef cattle for my community, for most people like to see good

feed. "Model," which is smaller than olonel," has cost me \$41.00 m d and milk and has made a gain 569 pounds since he has been on feed. "Colonel" and "Model" have been very interesting to work with, and I think they think a lot of me. WAY ABEL.



VERDON SINGLETON, son of Mr. and Mrs. member of the Bethel 4-H Glub, with his Aber a," which has gained 457 pounds in 224 days or ds per day. Joe Louis is 17 menths old. (Story



on of Mr. and Mrs. Charlie I with his Hereford-Shorthorn in 224 days or an average of

LLOYD BUCHANAN, one of M individual 4.H Chib meaber with b which has gailed 5.9 points in 224 day. Moody in 11 % months off. MY BAY BEEP My calf, a Shorthorn-Hereford purchased from Mr. Charlie Moody, of Jonathan Crosk. In December, 1998, the calf,

which I named "Moody," wa on a fresh Hereford cow y calf had been sold. In the b ning "Moody" consumed a g of milk two times a day. Ad — (Continued on page 11)



CALVIN FRANCIS, son of Mr. and Mrs. to Waynesville 4-H Club with his Herefore gained 532 pounds since he was put on fee

#### MY BABY BEEF

November 5, 1938, 1 declared in the 4-H Club, so 1 purchased eef calf which 1 thought was 1 enough to take an a project enter in the Fat Stock Show.

MY BABY BEEF farch 25, 1938, I pu fr. Weaver Cathey

A great deal of interest has been hown in this calf by my neigh ors, and over 50 people have come a look at "Bill."

CALVIN FRANCIS



NT KETNER, son of Mr. and Mrs. W. D. Ketner, is an to member with his Aberdeen-Angus calf, "Somicy" which pounds in 168 days or an average gain of 2.7 pounds per d 8 months old October 20.

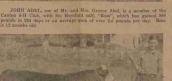
uld drink. A young calf will w faster with milk as a food

OYD MESSER, son of Mr. and Mrs. L. Z. Messer, who is a member e Fine Creek 4-H Club with his Hereford caff, "Dick", which has d S21 pounds in 224 days or an average of 2.5 pounds per day. Dick months old.



11% months old. MY BABY BEEF As a 4-41 Club project 1 h two Hereford baby bores wh mames are "Ross" and "Be "Ross" is a little older than "Be Both caires have been given that they would cat since if were put on feed in January, II Since that time, "Ross" has go

5.00 for "Bob." "Ross" was born on July 25. "Bob" was born on Sept. 20, 1938. The ration they are fod consists



AL MAIN

HN ABEL, sop of Mr. and Mrs. Grover Abd, is a member 4-H Glub, with his Hereford calf, "Bob", which has gain in 224 days or an average gain of over 2% pounds per do months old.

feed and milk unt of gain on 00 for "Bob."

Case Offers Advice

On Winter

Feeding Cattle

# MANY NEW HERDS > OF BEEF ANIMA ARE ESTABLISHED

#### Inexperienced Livestock Men Greatly Increase **Throughout State**

Hundreds of new herds of beef cattle have been established on North Carolina farms within the past few months, with literally thousands of heifers and bulls being imported for breeding purposes, and steers brought in for winter fattening on the surplus grain and hay made during the recent fa-Scores of vorable season. farmers are entering the livestock business without previous experience in raising beef cattle.

L. I. Case, extension animal husbandman of State college, reports that his office and the offices of county farm agents of the extension service, have been swamped with requests for information on the feeding and management of a beef herd. He offers the following general suggestions, with special emphasis on winter feed-

cial emphasis on winter feed-ing and care of calves: "The first year, and especially the first winter, is a critical period in the cal's life. If it is to be fattened for the market at an early age, it should, where practical, be stated on grain when two or three months old and never be allowed to lose its cal' fat. On the other hand, in the case of the heifer call that is to be kept fot be carried over, one is more in-terested in proper growth than degree of fatness.

terested in proper growth than degree of fatness. "An average beef calf dropped in Pébruary or March should weigh about 400 pounds at weaning time (at about cight months of age). He should be wintered in such a way that he will gain from 60 to 75 pounds."

pounds," Suggested Winter Rations Case suggested one of the follow-ing four daily wintering rations for 100-pound calves; (1) 12 pounds of corn silage, five pounds of legume hay, and corn stover at will; (2) five pounds of legume hay, five pounds of corn or cob meal, and one-haif pound of cottonseed meal; (3) 12 pounds of corn silage, four pounds of mixed hay, and one pound of cotton-seed meal; and (4) 10 pounds of mixed hay, two pounds of corn or

#### Controlled Breeding **Of Cattle Important**

Controlled breeding of beef cattle is important in the production of an economical, well-developed than cows nursing calves. Winter herd, says L. I. Case, beef cattle and early spring cows usually grow specialist of the State College Ex-, tension Service.

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 arive in February. March and April the following vear

During the remainder of the year the bull is kept in a small, stronghimself 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 in having the calves come at the same time of the year. Dry cows can be wintered more easily and cheaply 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 marketed 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 ly-fenced pasture, or lot, either by 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.