

North Carolina

R. P. Handy

Wick Cary

FARM INCOME

Cash Receipts From Farm Marketings

And

Government Payments

By Counties

1970-1971

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COMPILED BY

Federal-State Crop Reporting Service
R. P. Handy, Statistician In Charge

AGENCIES COOPERATING

U. S. Department of Agriculture
Statistical Reporting Service

N. C. Department of Agriculture
James A. Graham, Commissioner
Raleigh, N. C.

N. C. Agricultural Extension Service
George Hyatt, Jr., Director



Graham



Hyatt

FOREWORD

Agriculture continues to be a dominant force in North Carolina's economy. It not only supports the people engaged in production but many others who are involved in marketing, processing and selling the products of the land.

With the intricate mix of agriculture, industry and service within the State, it is important to know the distribution of income from farming within the State. In planning for the future development of our State, it is necessary to know the significance of agriculture in each of the counties.

Estimating income from agricultural pursuits for small geographic areas is a tedious and difficult task. Many sources of information must be tapped and detailed analysis of the data made to assure reasonably accurate estimates for each county. For this report the efforts of the Agricultural Extension Service, the North Carolina Department of Agriculture, and the Statistical Reporting Service of USDA have been combined and unified.

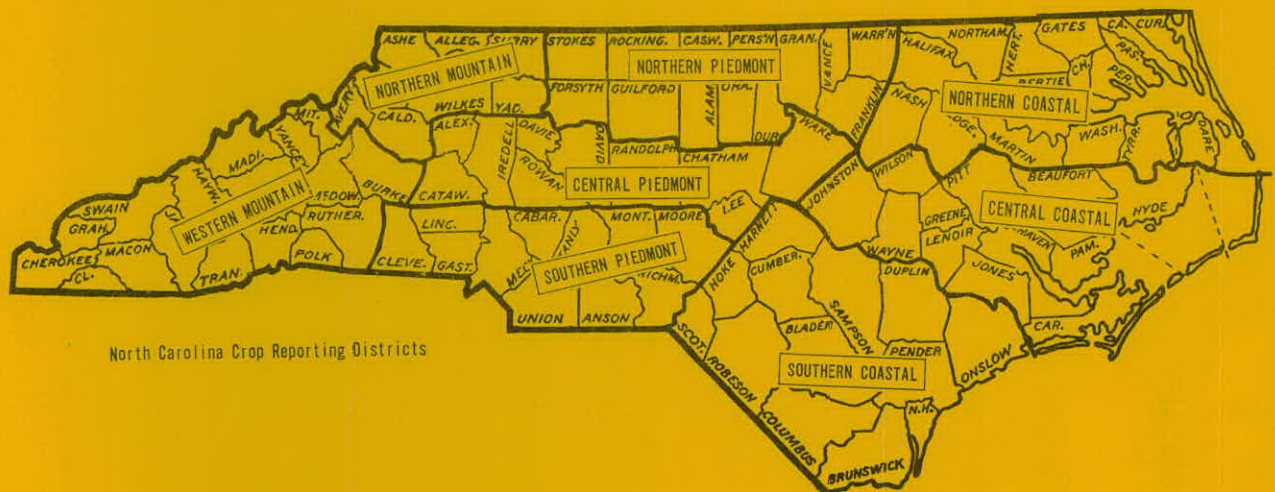
It is with pleasure that these data are presented to you and we sincerely hope that you find them useful.

JAMES A. GRAHAM
Commissioner
N. C. DEPARTMENT OF AGRICULTURE

GEORGE HYATT, JR.
Director
N. C. AGRICULTURAL EXTENSION SERVICE

North Carolina Farm Income

Statistical Bulletin 124



North Carolina Crop Reporting Districts

North Carolina is divided into eight Crop Reporting Districts as outlined on the map. County estimates of cash receipts shown in tables in this publication are compiled by these districts. Counties within each district are listed alphabetically.

Special recognition is given to Dr. Charles R. Pugh, Extension Economist, Agricultural Policy, N. C. Agricultural Extension Service, and William C. Hinson, Assistant Statistician In Charge, N. C. Crop Reporting Service, for planning and guidance in this project on farm income. Numerous Extension Specialists, all 100 county extension offices, and the entire staff of the N. C. Crop Reporting Service made valuable contributions.

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First Issue

This is the first issue of this publication. It was planned and issued to meet a long standing need for estimates of agricultural income by counties. Frequent requests for income data are received by the Agricultural Statisticians, County Agents of the Agricultural Extension Service, and others associated with agriculture. While the data shown herein by county are probably less accurate than state total estimates, they are the best that can be developed by reducing many kinds of information on production and sales of nearly 100 commodities to the dollar common denominator. The State totals are the same as published by the U. S. Department of Agriculture and thus are comparable with other states.

The allocation to counties utilizes information of both the Agricultural Extension Service and the Crop Reporting Service. For several years, County Extension Agents have developed estimates of income by commodities in their counties. These estimates have been used as a basis for appraising the effectiveness of educational programs and for planning future programs. The summation of estimates by County Extension Agents, however, has not coincided with the official USDA estimates for the state. In turn, data of the Crop Reporting Service have not provided sufficient detail in the past to support publishing of farm income estimates by county. Thus, this publication represents an achievement in merging information of the respective agencies.

The data in this report should be especially useful in assessing the location of important sources of farm income in various parts of the state. Also, as data are added for later years to the 1970 and 1971 data shown in this report, it should be possible to assess trends in farm income within a particular section of the state. The greater benefit may be obtained in using this report to examine the geographical distribution and trends in farm income, rather than the absolute level estimated. For these purposes, this cooperative report is offered as a supplement to the variety of agricultural data available from various public agencies.

Source Of State Totals

The preparation of the income estimates as shown in this report consisted of two main parts. First, the numbers for the State as a whole were produced, and then these State totals were allocated to each of the counties. The state estimates were prepared by the Economic Research Service of USDA based mostly on estimates of the Statistical Reporting Service of USDA. Original estimates were prepared for individual commodities and based on a variety of indications, each estimate depending upon the source material most appropriate to the commodity. These indicators included marketing control data for some items; the State Farm Census; U. S. Census of Agriculture; mail surveys to farmers; probability enumerative surveys and objective yield counts for major crops; shipment data for fruits, vegetables, and potatoes; county agents' estimates for numerous items; hatchings, placements and slaughter for poultry items; multiple frame sampling for livestock and eggs; cross-state shipment data and other indicators of the State's production. The State data are comparable to similar data published for all states.

Allocation To Counties

The basis for distribution of the State income to each of the counties was varied by commodity and by the availability of dependable source information. For the major crop, tobacco, the principal source was marketings by counties as recorded by ASCS. The same was true for peanuts. For cotton, ginnings as reported by the Census Bureau was a major source, after adjustments were made for cross-State and cross-county movement as well as sales in each of the calendar years. The price per unit for each of these crops was based on producers' sales price in the surrounding markets.

For crops such as grains, soybeans and hay, production was estimated based on State Farm Census acreages and yield per acre taken from surveys of farms in each of the counties. Percent sold was also based on farm surveys. Prices used were mostly those reported by local markets. For fruits and vegetables, the State estimates were allocated to counties based on the county agents' reports, the U. S. Census of Agriculture, the State Farm Census for some items, fruit tree surveys and reports on yield and price as obtained from samples of individual growers obtained during the growing season.

The cattle and hog income was allocated to counties based on estimates of inventory numbers, the U. S. Census of Agriculture, enumeration of large farms in the counties, etc. Milk sales were based on State Milk Commission data and the location of milk cows by counties. Income from eggs, broilers and turkeys was based largely upon placements by hatcheries and location of integrated egg farms, with a great deal of weight given to the county agents' estimates.

In all cases, estimates by county Extension agents and the 1969 Census of Agriculture were reviewed, along with data of the N. C. Crop Reporting Service to arrive at a distribution of income from any commodity group among counties.

Concepts And Definitions

Cash Receipts from Farm Marketings as presented in this bulletin represent gross returns from the actual sales of crops and livestock and livestock products during the calendar year. The value of home consumption of farm products and inter-farm sales of livestock is not included as cash receipts. Production expenses such as feed, fuel, fertilizer, marketing costs, and purchases of other inputs are not subtracted from cash receipts. The addition of government payments to cash receipts provides a measure of gross cash income, or total cash receipts from farming.

County estimates of cash receipts reflect farm productivity of the county to which the income is assigned. For example, livestock produced in one county but sold in another for immediate slaughter are credited only to the producing county. Similarly, income from crops is credited to the producing county even though the crops may be stored, processed and marketed in another.

Crop income: Cash receipts from marketing of crops is the final product of several underlying estimates: acreage and yield, the percent of total production sold, price, and changes in inventories. Various data sources of the Crop Reporting Service and the Extension Service were utilized in the county acreage and yield estimates.

The estimated percent sold based on survey data from individual farmers was applied to the total production for each crop for each county. Estimates of prices for crops for each county were established based on reports from farmers and buyers of farm products.

For several field crops, especially corn, soybeans, and cotton--where portions are carried over--the calendar year cash receipts are not to be compared with crop year value of sales or value of production. Calendar year cash receipts from such crops represent sales of parts of production from two or more crop years. For crops where all or nearly all the production is harvested and marketed within a single calendar year, the cash receipts are essentially the same as the value of production.

County estimates are shown in the tables of this publication for such individual crops as tobacco, corn, soybeans, peanuts, cotton and cottonseed. Additional sources of crop income are shown in categories.

The receipts from 'Other field crops' include wheat, oats, barley, rye, grain sorghum, hay, seed crops and miscellaneous field crops. The value of grain crops used on the farms where produced is not included in these income data.

Receipts from 'Vegetables, fruits, nuts, and berries' include a wide array of horticultural or truck crops. State-wide, the most important income sources in this category in 1971 were: sweet potatoes, cucumbers, apples, snap beans, potatoes, tomatoes, peppers, cabbage, and peaches.

'Farm forest, greenhouse and nursery' includes sales of pulpwood, timber, Christmas trees and forest products from farm tracts only. Cash receipts from farm forestry are restricted to the value of products sold from woodlands associated with general farming operations. Essentially all income is excluded that is derived from public-owned forests, woodland tracts owned by institutions and public utilities, holdings of paper, pulp, lumber and other wood products companies, and large privately-owned woodland tracts that are not part of a general farming operation. Nursery and greenhouse includes ornamental shrubs and trees, flowers grown outdoors and many types of flowers, ornamentals and plants produced in greenhouses for commercial sale.

Livestock and poultry income: The annual cash receipts from farm marketings of livestock and livestock products also refer to the calendar year. Receipts include the sales value of an animal only once, usually the value at the time it is sold for slaughter or final disposition. Since some livestock move from county to county at various stages of growth, the value assigned to the county is based on a 'value added' concept. Each county is given net credit for the portion of the final value originating within its boundaries.

These income data do not exactly represent the summation of all income received by livestock and poultry producers in a given county. For example, feeder pigs or cattle sold from one farm to another within a county are included only upon final disposition. Also, where commodities such as broilers are produced under contract, the farmer may directly receive only a contract payment. However, these data include the full value at the farm level of the poultry sold.

The state and county data herein essentially represent the cash receipts from farming in the given geographical area. Data are defined on a gross income basis, not net income. Not all income of farm people, such as custom work or off-farm earnings, is included. These measures are most oriented toward the gross productivity of agriculture in the given area for the year.

Realized Gross Income And Net Income From Farming, North Carolina, 1959-71^{1/}

Year	REALIZED GROSS FARM INCOME					Farm Produc- tion Expenses	Realized Net Farm Income <u>2/</u>	Net Change In Farm Inven- tories	Total Net Farm Income <u>2/</u>
	Cash Receipts From Farm Marketings	Govern- ment Payments	Value Of Home Consump- tion	Gross Rental Value Of Farm Dwellings	Total				
	<i>Million Dollars</i>								
1959	946.3	10.6	98.2	68.3	1,123.4	659.2	464.3	- 2.1	462.2
1960	1,066.3	12.8	94.6	65.8	1,239.5	667.5	572.0	- 5.2	566.7
1961	1,119.5	32.0	89.3	71.2	1,311.9	690.9	621.0	- 1.7	619.3
1962	1,158.9	39.5	82.0	73.8	1,354.1	720.8	633.3	- 1.2	632.1
1963	1,185.0	31.8	76.1	74.1	1,367.0	760.6	606.4	7.6	614.0
1964	1,227.8	35.2	69.6	76.6	1,409.2	783.5	625.7	5.7	631.3
1965	1,142.3	43.4	58.8	80.5	1,325.1	796.4	528.7	- 9.5	519.2
1966	1,272.3	62.8	58.8	81.0	1,474.9	841.7	633.2	6.4	639.6
1967	1,295.7	61.7	53.2	86.2	1,496.8	881.0	615.8	21.6	637.5
1968	1,262.3	61.6	51.0	90.6	1,465.5	891.4	574.1	-11.5	562.6
1969	1,409.2	69.8	51.0	107.2	1,637.2	972.0	665.2	29.2	694.4
1970	1,525.7	59.7	52.1	107.8	1,745.4	1,058.4	686.9	7.8	694.8
1971	1,526.5	41.0	49.0	126.0	1,742.5	1,099.5	643.0	10.3	653.3

^{1/} Details may not add to totals due to rounding. ^{2/} Of farm operators.

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4 Cash Receipts From Farm Marketings And Government Payments, 1971 (Continued opposite page)

Counties & Districts	Total	Crops	Livestock and Livestock Products	Government Payments
<i>Thousand Dollars</i>				
STATE TOTAL....	1,567,478	924,976	601,504	40,998
<i>1972 Prod Feb 73</i>		<i>997,526</i>	<i>652,023</i>	<i>7-</i>
Alleghany.....	5,220	1,393	3,704	123
Ashe.....	8,349	2,827	5,355	167
Avery.....	2,995	2,438	512	45
Caldwell.....	7,484	1,123	6,282	79
Surry.....	28,453	13,547	14,678	228
Watauga.....	4,140	1,413	2,630	97
Wilkes.....	44,611	4,039	40,464	108
Yadkin.....	16,639	9,773	6,553	313
N. MOUNTAINS...	117,891	36,553	80,178	1,160
Buncombe.....	11,463	3,989	7,375	99
Burke.....	2,470	498	1,880	92
Cherokee.....	4,580	391	4,120	69
Clay.....	4,209	260	3,907	42
Graham.....	689	508	156	25
Haywood.....	7,478	3,605	3,769	104
Henderson.....	11,978	7,362	4,508	108
Jackson.....	1,190	731	411	48
McDowell.....	1,678	556	1,059	63
Macon.....	4,063	989	3,019	55
Madison.....	6,824	4,024	2,705	95
Mitchell.....	3,840	1,730	2,071	39
Polk.....	2,348	916	1,355	77
Rutherford.....	5,022	1,762	2,889	371
Swain.....	727	408	303	16
Transylvania...	1,698	1,028	625	45
Yancey.....	3,638	1,897	1,678	63
W. MOUNTAINS...	73,895	30,654	41,830	1,411
Alamance.....	16,103	6,331	9,550	222
Caswell.....	12,759	10,671	1,858	230
Durham.....	5,488	3,984	1,386	118
Forsyth.....	9,966	5,810	4,023	133
Franklin.....	18,420	14,753	3,215	452
Granville.....	19,639	15,554	3,829	256
Guilford.....	18,082	11,251	6,503	328
Orange.....	11,844	4,540	7,114	190
Person.....	14,600	11,685	2,711	204
Rockingham.....	18,678	15,465	2,914	299
Stokes.....	14,819	12,284	2,408	127
Vance.....	11,606	10,122	1,241	243
Warren.....	9,276	7,758	1,193	325
N. PIEDMONT....	181,280	130,208	47,945	3,127
Alexander.....	11,784	1,936	9,748	100
Catawba.....	6,792	1,466	5,034	292
Chatham.....	31,602	4,711	26,715	176
Davidson.....	9,883	4,138	5,449	296
Davie.....	9,394	1,887	7,340	166
Iredell.....	16,573	2,285	13,768	520
Lee.....	7,655	5,691	1,858	107
Randolph.....	25,396	5,324	19,846	226
Rowan.....	11,887	2,530	8,856	501
Wake.....	37,240	26,609	10,240	391
C. PIEDMONT....	168,206	56,577	108,854	2,775

Cash Receipts From Farm Marketings And Government Payments, 1971

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Counties & Districts	Total	Crops	Livestock and Livestock Products	Government Payments
	<i>Thousand Dollars</i>			
Anson.....	9,798	3,490	5,698	610
Cabarrus.....	5,188	873	4,001	314
Cleveland.....	15,483	5,201	8,739	1,543
Gaston.....	3,864	718	2,948	198
Lincoln.....	8,050	1,790	5,822	438
Mecklenburg....	6,292	2,684	3,399	209
Montgomery.....	9,019	2,547	6,280	192
Moore.....	29,713	6,979	22,563	171
Richmond.....	12,547	4,426	7,809	312
Stanly.....	15,012	2,932	11,763	317
Union.....	30,912	6,732	23,334	846
S. PIEDMONT....	145,878	38,372	102,356	5,150
Bertie.....	18,858	15,694	2,657	507
Camden.....	4,607	3,426	907	274
Chowan.....	8,780	6,368	2,129	283
Currituck.....	6,080	3,852	2,071	157
Dare.....	67	36	30	1
Edgecombe.....	29,482	23,675	4,577	1,230
Gates.....	7,409	4,219	2,980	210
Halifax.....	28,621	22,506	3,876	2,239
Hertford.....	11,751	10,043	1,203	505
Martin.....	24,792	19,205	5,125	462
Nash.....	34,665	29,064	4,492	1,109
Northampton....	23,636	17,668	4,036	1,932
Pasquotank.....	7,296	5,843	1,231	222
Perquimans.....	6,824	4,761	1,694	369
Tyrrell.....	3,093	1,874	1,094	125
Washington.....	7,319	5,845	1,284	190
N. COASTAL....	223,280	174,079	39,386	9,815
Beaufort.....	22,988	17,970	4,369	649
Carteret.....	3,114	2,553	521	40
Craven.....	16,598	12,926	3,354	318
Greene.....	24,666	19,456	4,617	593
Hyde.....	5,568	3,946	1,430	192
Johnston.....	52,285	40,576	10,615	1,094
Jones.....	10,971	9,066	1,700	205
Lenoir.....	30,156	23,105	6,295	756
Pamlico.....	4,632	3,356	1,082	194
Pitt.....	51,061	41,420	8,736	905
Wayne.....	46,924	28,748	17,267	909
Wilson.....	32,197	28,524	2,975	698
C. COASTAL....	301,160	231,646	62,961	6,553
Bladen.....	19,125	14,192	4,568	365
Brunswick.....	7,545	5,586	1,809	150
Columbus.....	39,278	31,490	7,075	713
Cumberland.....	16,902	11,181	4,949	772
Duplin.....	76,713	27,550	48,241	922
Harnett.....	28,416	23,468	4,116	832
Hoke.....	12,651	6,789	4,973	889
New Hanover....	2,126	1,766	343	17
Onslow.....	11,301	9,007	2,104	190
Pender.....	15,957	9,333	6,393	231
Robeson.....	55,289	44,066	8,417	2,806
Sampson.....	59,530	35,497	22,398	1,635
Scotland.....	11,055	6,962	2,608	1,485
S. COASTAL....	355,888	226,887	117,994	11,007

CASH RECEIPTS FROM FARM MARKETINGS, 1971 (Continued Opposite page)

Counties & Districts	Tobacco	Corn	Soybeans	Peanuts	Cotton and Cottonseed
	<i>Thousand Dollars</i>				
STATE TOTAL....	561,647	72,885	61,067	49,468	29,765
Alleghany.....	343	12	-	-	-
Ashe.....	1,395	2	-	-	-
Avery.....	139	-	-	-	-
Caldwell.....	329	44	23	-	-
Surry.....	12,292	428	64	-	-
Watauga.....	967	1	-	-	-
Wilkes.....	1,459	398	36	-	-
Yadkin.....	8,176	669	327	-	-
N. MOUNTAINS...	25,100	1,554	450	-	-
Buncombe.....	1,907	31	-	-	-
Burke.....	1	74	47	-	1
Cherokee.....	47	77	3	-	-
Clay.....	62	11	-	-	-
Graham.....	367	7	-	-	-
Haywood.....	1,102	7	-	-	-
Henderson.....	23	390	3	-	-
Jackson.....	59	23	-	-	-
McDowell.....	15	97	3	-	-
Macon.....	44	27	2	-	-
Madison.....	3,044	13	-	-	-
Mitchell.....	671	2	-	-	-
Polk.....	-	16	32	-	29
Rutherford....	5	141	89	2	175
Swain.....	33	3	-	-	-
Transylvania...	19	68	3	-	-
Yancey.....	1,475	5	-	-	-
W. MOUNTAINS...	8,874	992	182	2	205
Alamance.....	5,015	282	247	-	-
Caswell.....	10,015	185	55	-	-
Durham.....	3,361	140	85	-	-
Forsyth.....	4,486	213	136	-	-
Franklin.....	12,293	246	585	-	155
Granville.....	13,942	334	231	-	4
Guilford.....	9,522	227	331	-	-
Orange.....	3,615	268	77	-	-
Person.....	10,738	184	14	-	-
Rockingham....	14,165	265	139	-	-
Stokes.....	11,651	129	27	-	-
Vance.....	8,626	108	292	-	127
Warren.....	5,710	88	376	14	160
N. PIEDMONT....	113,139	2,669	2,595	14	446
Alexander.....	969	44	76	1	-
Catawba.....	-	184	325	1	2
Chatham.....	2,597	126	146	-	-
Davidson.....	2,766	166	153	4	-
Davie.....	956	87	85	-	8
Iredell.....	960	128	280	-	51
Lee.....	4,580	62	228	-	11
Randolph.....	2,926	450	312	-	-
Rowan.....	-	223	451	1	92
Wake.....	22,484	293	1,182	-	16
C. PIEDMONT....	38,238	1,763	3,238	7	180

CASH RECEIPTS FROM FARM MARKETINGS, 1971

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Counties & Districts	Tobacco	Corn	Soybeans	Peanuts	Cotton and Cottonseed
	<i>Thousand Dollars</i>				
Anson.....	208	80	705	-	669
Cabarrus.....	-	103	196	1	69
Cleveland.....	2	137	407	-	2,077
Gaston.....	-	24	92	2	21
Lincoln.....	-	67	475	5	250
Mecklenburg....	-	40	123	-	81
Montgomery.....	979	111	80	1	312
Moore.....	5,275	84	142	20	100
Richmond.....	2,139	101	197	54	270
Stanly.....	-	307	786	-	-
Union.....	-	381	2,509	-	301
S. PIEDMONT....	8,603	1,435	5,712	83	4,150
Bertie.....	6,529	1,534	706	5,737	59
Camden.....	-	1,461	947	11	13
Chowan.....	584	655	805	2,311	240
Currituck.....	-	1,366	1,081	40	-
Dare.....	-	2	3	-	-
Edgecombe.....	14,128	2,110	951	4,427	799
Gates.....	296	877	620	1,982	20
Halifax.....	6,680	1,640	617	8,481	3,421
Hertford.....	3,553	748	282	4,476	482
Martin.....	10,832	1,183	857	4,600	210
Nash.....	21,652	1,494	699	737	700
Northampton....	491	846	627	10,344	3,864
Pasquotank.....	-	1,255	1,695	11	-
Perquimans.....	-	1,330	1,885	814	2
Tyrrell.....	-	382	777	20	-
Washington.....	830	1,772	1,930	793	3
N. COASTAL....	65,575	18,655	14,482	44,784	9,813
Beaufort.....	9,819	2,723	2,938	124	1
Carteret.....	1,465	176	390	-	-
Craven.....	9,414	840	1,444	9	4
Greene.....	15,367	3,132	306	64	29
Hyde.....	-	1,704	1,486	-	-
Johnston.....	28,984	2,264	2,185	31	198
Jones.....	6,142	1,118	998	-	-
Lenoir.....	17,974	3,108	901	1	-
Pamlico.....	910	676	964	-	-
Pitt.....	30,947	4,434	1,511	1,678	54
Wayne.....	19,054	5,140	1,464	4	25
Wilson.....	21,610	2,751	689	43	59
C. COASTAL....	161,686	28,066	15,276	1,954	370
Bladen.....	9,115	983	1,221	1,468	30
Brunswick.....	3,870	342	435	2	1
Columbus.....	23,235	2,570	1,922	419	-
Cumberland.....	6,419	670	1,793	138	644
Duplin.....	17,955	3,255	1,907	4	19
Harnett.....	18,519	546	1,986	-	570
Hoke.....	2,934	224	1,112	-	1,852
New Hanover....	148	51	96	53	-
Onslow.....	6,165	847	1,029	33	-
Pender.....	3,699	993	1,067	201	-
Robeson.....	27,528	4,523	3,857	127	5,239
Sampson.....	19,584	2,497	2,181	175	1,996
Scotland.....	1,261	250	526	4	4,250
S. COASTAL....	140,432	17,751	19,132	2,624	14,601

CASH RECEIPTS FROM FARM MARKETINGS, 1971 (Continued opposite page)

Counties & Districts	Other Field Crops	Vegetables, Fruits, Nuts and Berries	Farm Forest, Greenhouse and Nursery	Hogs	Cattle and Calves
<i>Thousand Dollars</i>					
STATE TOTAL....	22,770	71,873	55,501	116,936	61,999
Alleghany.....	149	715	174	45	1,000
Ashe.....	241	879	311	50	2,400
Avery.....	16	486	1,797	5	375
Caldwell.....	63	160	504	500	400
Surry.....	146	124	493	400	1,400
Watauga.....	70	192	182	30	800
Wilkes.....	151	1,304	690	270	1,250
Yadkin.....	365	155	80	250	700
N. MOUNTAINS...	1,201	4,015	4,231	1,550	8,325
Buncombe.....	97	490	1,463	20	1,800
Burke.....	82	89	204	80	250
Cherokee.....	67	92	106	150	475
Clay.....	27	130	30	80	375
Graham.....	32	52	49	5	100
Haywood.....	38	2,124	334	75	1,600
Henderson.....	45	6,090	810	110	675
Jackson.....	25	327	297	30	325
McDowell.....	16	203	222	250	200
Macon.....	24	598	296	450	800
Madison.....	63	682	223	25	900
Mitchell.....	20	874	163	100	425
Polk.....	41	667	131	40	200
Rutherford....	208	784	357	220	650
Swain.....	9	197	168	20	100
Transylvania...	20	192	725	60	300
Yancey.....	111	92	214	10	350
W. MOUNTAINS...	925	13,683	5,792	1,725	9,525
Alamance.....	288	150	350	550	1,150
Caswell.....	185	86	146	150	450
Durham.....	137	93	167	160	350
Forsyth.....	230	337	408	170	650
Franklin.....	440	263	770	1,700	625
Granville.....	304	85	653	700	550
Guilford.....	335	189	648	800	1,200
Orange.....	301	54	226	550	950
Person.....	370	39	340	750	500
Rockingham....	262	232	402	350	600
Stokes.....	181	101	194	220	500
Vance.....	223	264	481	400	375
Warren.....	303	343	764	300	300
N. PIEDMONT....	3,559	2,236	5,549	6,800	8,200
Alexander.....	122	483	242	125	575
Catawba.....	388	184	381	200	1,100
Chatham.....	240	60	1,543	1,100	825
Davidson.....	380	389	280	800	1,000
Davie.....	228	26	498	750	1,100
Iredell.....	378	38	449	350	2,800
Lee.....	106	54	650	450	325
Randolph.....	397	16	1,223	1,200	1,150
Rowan.....	871	294	597	500	1,050
Wake.....	555	444	1,635	2,400	950
C. PIEDMONT....	3,665	1,988	7,498	7,875	10,875

CASH RECEIPTS FROM FARM MARKETINGS, 1971

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Counties & Districts	Other Field Crops	Vegetables, Fruits, Nuts and Berries	Farm Forest, Greenhouse and Nursery	Hogs	Cattle and Calves
<i>Thousand Dollars</i>					
Anson.....	588	816	425	420	950
Cabarrus.....	317	58	129	300	1,100
Cleveland.....	271	385	1,922	150	1,400
Gaston.....	143	224	212	75	625
Lincoln.....	257	560	175	75	800
Mecklenburg....	159	90	2,191	180	900
Montgomery....	120	711	234	350	250
Moore.....	241	405	712	950	350
Richmond.....	207	876	583	400	300
Stanly.....	1,331	147	360	1,200	1,200
Union.....	2,299	246	996	2,000	1,900
S. PIEDMONT....	5,933	4,518	7,939	6,100	9,775
Bertie.....	68	203	858	1,850	325
Camden.....	301	568	124	740	125
Chowan.....	51	1,426	297	1,550	120
Currituck.....	420	851	93	1,700	125
Dare.....	-	11	20	10	3
Edgecombe.....	265	268	727	2,950	750
Gates.....	21	156	248	2,100	200
Halifax.....	191	419	1,056	2,050	900
Hertford.....	46	65	391	1,050	121
Martin.....	69	269	1,185	3,200	500
Nash.....	526	2,195	1,061	1,550	550
Northampton....	126	345	1,025	2,500	450
Pasquotank....	435	1,922	525	800	325
Perquimans....	194	325	212	1,450	125
Tyrell.....	32	469	194	850	85
Washington.....	127	216	174	650	230
N. COASTAL....	2,872	9,708	8,190	25,000	4,934
Beaufort.....	392	804	1,169	2,700	400
Carteret.....	21	414	86	220	125
Craven.....	60	651	504	1,300	275
Greene.....	83	211	265	3,800	120
Hyde.....	142	433	181	636	300
Johnston.....	398	5,431	1,084	7,400	1,050
Jones.....	43	451	314	900	175
Lenoir.....	84	564	473	2,400	475
Pamlico.....	159	505	142	80	165
Pitt.....	99	1,702	996	3,600	575
Wayne.....	252	1,873	935	6,200	700
Wilson.....	483	2,397	492	1,650	175
C. COASTAL....	2,216	15,436	6,641	30,886	4,535
Bladen.....	141	887	347	1,850	525
Brunswick.....	37	433	465	1,250	250
Columbus.....	123	2,103	1,119	4,200	625
Cumberland.....	297	810	410	1,800	850
Duplin.....	249	3,444	717	6,700	600
Harnett.....	447	954	446	1,700	525
Hoke.....	171	185	311	1,200	175
New Hanover....	12	361	1,045	50	25
Onslow.....	53	307	573	1,500	80
Pender.....	43	1,365	1,966	950	200
Robeson.....	433	1,566	793	4,900	625
Sampson.....	277	7,639	1,149	9,900	1,050
Scotland.....	116	235	320	1,000	300
S. COASTAL....	2,399	20,289	9,661	37,000	5,830

CASH RECEIPTS FROM FARM MARKETINGS, 1971 (Continued opposite page)

Counties & Districts	Milk	Broilers	Eggs	Turkeys	Other Livestock and Poultry
	<i>Thousand Dollars</i>				
STATE TOTAL....	101,258	147,597	113,678	41,771	18,265
Alleghany.....	2,000	250	350	-	59
Ashe.....	850	1,900	100	-	55
Avery.....	100	-	13	-	19
Caldwell.....	1,050	2,880	1,200	-	252
Surry.....	1,500	1,300	8,640	-	1,438
Watauga.....	300	1,400	75	-	25
Wilkes.....	600	25,300	12,000	-	1,044
Yadkin.....	2,600	570	2,000	145	288
N. MOUNTAINS...	9,000	33,600	24,378	145	3,180
Buncombe.....	3,980	420	985	-	171
Burke.....	420	740	330	-	60
Cherokee.....	300	-	3,000	-	195
Clay.....	800	-	2,400	-	253
Graham.....	20	-	15	-	16
Haywood.....	1,320	220	300	150	104
Henderson.....	3,130	100	425	-	68
Jackson.....	20	-	15	-	21
McDowell.....	250	80	100	-	179
Macon.....	1,350	-	330	-	88
Madison.....	1,320	370	15	-	76
Mitchell.....	430	1,050	10	40	16
Polk.....	300	20	600	-	195
Rutherford....	1,030	400	350	190	49
Swain.....	60	-	60	-	62
Transylvania...	120	-	70	-	75
Yancey.....	1,150	-	95	-	72
W. MOUNTAINS...	16,000	3,400	9,100	380	1,700
Alamance.....	4,080	1,800	1,750	-	220
Caswell.....	880	10	350	-	19
Durham.....	410	-	400	-	66
Forsyth.....	1,200	70	1,600	1	333
Franklin.....	160	100	580	-	49
Granville.....	1,470	-	1,000	-	109
Guilford.....	3,250	120	950	-	183
Orange.....	4,260	-	1,250	-	104
Person.....	480	220	700	-	61
Rockingham....	1,200	50	550	-	164
Stokes.....	350	50	1,050	-	238
Vance.....	280	-	150	-	35
Warren.....	480	-	70	-	43
N. PIEDMONT....	18,500	2,420	10,400	1	1,624
Alexander.....	1,410	6,000	1,500	-	138
Catawba.....	1,800	275	1,550	-	109
Chatham.....	2,750	19,200	2,500	-	340
Davidson.....	2,200	350	1,000	1	98
Davie.....	3,500	475	1,400	-	115
Iredell.....	6,500	200	3,300	-	618
Lee.....	150	350	550	-	33
Randolph.....	4,270	10,600	2,400	-	226
Rowan.....	5,140	350	1,700	-	116
Wake.....	3,600	100	3,100	-	90
C. PIEDMONT....	31,320	37,900	19,000	1	1,883

CASH RECEIPTS FROM FARM MARKETINGS, 1971

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Counties & Districts	Milk	Broilers	Eggs	Turkeys	Other Livestock and Poultry
	<i>Thousand Dollars</i>				
Anson.....	460	540	500	2,650	178
Cabarrus.....	1,530	55	700	190	126
Cleveland.....	2,300	1,040	2,700	900	249
Gaston.....	1,850	45	260	-	95
Lincoln.....	1,600	2,100	850	300	97
Mecklenburg....	1,940	195	150	-	34
Montgomery.....	480	4,815	350	-	35
Moore.....	100	19,800	450	350	563
Richmond.....	80	4,530	940	1,000	559
Stanly.....	1,850	390	6,000	570	552
Union.....	1,810	8,200	2,100	6,300	1,024
S. PIEDMONT....	14,000	41,710	15,000	12,260	3,512
Bertie.....	80	-	380	-	23
Camden.....	10	-	20	-	12
Chowan.....	20	-	30	400	9
Currituck.....	10	1	180	-	55
Dare.....	-	-	10	-	7
Edgecombe.....	575	-	270	10	22
Gates.....	25	-	600	-	55
Halifax.....	430	155	300	-	41
Hertford.....	13	-	10	-	9
Martin.....	35	650	650	-	90
Nash.....	250	786	1,250	-	106
Northampton....	160	-	830	-	96
Pasquotank.....	25	-	60	-	21
Perquimans.....	50	-	40	16	13
Tyrrell.....	45	-	100	-	14
Washington.....	200	5	70	-	128
N. COASTAL.....	1,928	1,597	4,800	426	701
Beaufort.....	530	-	540	-	199
Carteret.....	25	-	100	32	20
Craven.....	380	-	900	400	99
Greene.....	150	-	150	380	17
Hyde.....	470	-	20	-	4
Johnston.....	460	140	1,300	100	165
Jones.....	150	-	150	300	25
Lenoir.....	1,030	10	750	1,550	80
Pamlico.....	320	1	400	95	20
Pitt.....	620	129	3,600	-	212
Wayne.....	1,000	1,700	2,600	3,750	1,317
Wilson.....	195	420	490	1	44
C. COASTAL.....	5,330	2,400	11,000	6,608	2,202
Bladen.....	1,170	225	500	200	98
Brunswick.....	145	30	115	-	19
Columbus.....	510	100	1,550	-	90
Cumberland.....	670	-	1,600	-	29
Duplin.....	290	21,100	7,800	10,200	1,551
Harnett.....	750	-	1,100	-	41
Hoke.....	70	90	170	2,850	418
New Hanover....	40	65	130	-	33
Onslow.....	200	115	120	50	39
Pender.....	380	1,435	2,200	950	278
Robeson.....	200	20	1,150	1,050	472
Sampson.....	600	1,390	3,400	5,750	308
Scotland.....	155	-	165	900	87
S. COASTAL.....	5,180	24,570	20,000	21,950	3,463

CASH RECEIPTS FROM FARM MARKETINGS AND GOVERNMENT PAYMENTS, 1970 (Continued opposite page)

Counties & Districts	Total	Crops	Livestock and Livestock Products	Government Payments
<i>Thousand Dollars</i>				
STATE TOTAL....	1,585,419	901,661	624,076	59,682
Alleghany.....	4,567	1,040	3,426	101
Ashe.....	8,968	3,064	5,710	194
Avery.....	2,903	2,348	490	65
Caldwell.....	7,608	1,060	6,410	138
Surry.....	28,622	12,686	15,488	448
Watauga.....	4,639	1,767	2,762	110
Wilkes.....	44,399	2,880	41,326	193
Yadkin.....	17,713	10,630	6,738	345
N. MOUNTAINS...	119,419	35,475	82,350	1,594
Buncombe.....	12,947	4,390	8,433	124
Burke.....	2,431	447	1,826	158
Cherokee.....	4,509	354	4,011	144
Clay.....	5,188	278	4,812	98
Graham.....	731	542	149	40
Haywood.....	7,276	3,576	3,608	92
Henderson.....	13,196	8,498	4,549	149
Jackson.....	1,108	635	399	74
McDowell.....	1,512	465	941	106
Macon.....	3,941	829	3,010	102
Madison.....	7,973	4,837	2,973	163
Mitchell.....	3,654	1,779	1,796	79
Polk.....	2,453	799	1,518	136
Rutherford.....	5,033	1,520	2,913	600
Swain.....	681	376	279	26
Transylvania...	1,807	1,130	570	107
Yancey.....	3,959	2,255	1,593	111
W. MOUNTAINS...	78,399	32,710	43,380	2,309
Alamance.....	16,027	5,710	9,952	365
Caswell.....	12,275	9,497	2,398	380
Durham.....	5,171	3,493	1,493	185
Forsyth.....	9,248	4,962	4,060	226
Franklin.....	19,108	14,921	3,313	874
Granville.....	18,778	14,164	4,184	430
Guilford.....	16,818	9,802	6,564	452
Orange.....	11,648	4,056	7,338	254
Person.....	14,221	10,623	3,309	289
Rockingham.....	18,154	14,552	3,168	434
Stokes.....	14,857	12,014	2,503	340
Vance.....	11,091	9,401	1,273	417
Warren.....	9,256	7,227	1,533	496
N. PIEDMONT....	176,652	120,422	51,088	5,142
Alexander.....	12,413	1,781	10,464	168
Catawba.....	6,497	1,213	4,900	384
Chatham.....	33,237	3,843	29,137	257
Davidson.....	9,330	3,877	5,024	429
Davie.....	9,065	1,693	7,108	264
Iredell.....	16,258	2,151	13,330	777
Lee.....	7,827	5,653	1,987	187
Randolph.....	24,092	4,607	19,191	294
Rowan.....	11,437	2,153	8,624	660
Wake.....	37,179	26,331	10,070	778
C. PIEDMONT....	167,335	53,302	109,835	4,198

CASH RECEIPTS FROM FARM MARKETINGS AND GOVERNMENT PAYMENTS, 1970

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Counties & Districts	Total	Crops	Livestock and Livestock Products	Government Payments
<i>Thousand Dollars</i>				
Anson.....	9,681	2,898	5,908	875
Cabarrus.....	5,432	759	4,228	445
Cleveland.....	15,578	4,396	9,382	1,800
Gaston.....	4,217	709	3,225	283
Lincoln.....	8,272	1,643	6,049	580
Mecklenburg....	6,511	2,653	3,554	304
Montgomery....	8,913	2,141	6,529	243
Moore.....	32,133	7,113	24,679	341
Richmond.....	11,501	3,686	7,363	452
Stanly.....	15,664	2,157	13,053	454
Union.....	30,949	5,712	24,065	1,172
S. PIEDMONT....	148,851	33,867	108,035	6,949
Bertie.....	20,535	16,833	2,989	713
Camden.....	5,606	4,466	764	376
Chowan.....	8,529	5,781	2,428	320
Currituck.....	6,621	4,249	2,059	313
Dare.....	76	33	41	2
Edgecombe.....	30,531	24,253	4,608	1,670
Gates.....	8,178	4,390	3,420	368
Halifax.....	26,836	20,215	4,200	2,421
Hertford.....	11,877	10,123	1,104	650
Martin.....	24,845	18,578	5,618	649
Nash.....	35,631	28,926	4,956	1,749
Northampton....	20,511	14,088	4,378	2,045
Pasquotank....	8,540	6,694	1,454	392
Perquimans....	7,837	5,295	1,986	556
Tyrrell.....	3,522	2,027	1,265	230
Washington....	8,066	6,405	1,369	292
N. COASTAL....	227,741	172,356	42,639	12,746
Beaufort.....	27,742	22,169	4,374	1,199
Carteret.....	3,201	2,474	662	65
Craven.....	18,275	13,969	3,667	639
Greene.....	27,046	21,140	5,150	756
Hyde.....	7,219	5,344	1,563	312
Johnston.....	51,791	37,934	11,976	1,881
Jones.....	11,397	9,030	1,940	427
Lenoir.....	32,578	24,913	6,298	1,367
Pamlico.....	5,188	3,524	1,349	315
Pitt.....	55,927	44,018	10,506	1,403
Wayne.....	46,544	28,656	16,415	1,473
Wilson.....	32,111	28,078	2,997	1,036
C. COASTAL....	319,019	241,249	66,897	10,873
Bladen.....	19,782	14,036	4,956	790
Brunswick.....	8,514	5,884	2,337	293
Columbus.....	38,024	29,285	7,359	1,380
Cumberland....	16,196	9,643	5,529	1,024
Duplin.....	75,899	28,405	45,730	1,764
Harnett.....	28,019	21,932	4,947	1,140
Hoke.....	11,878	5,804	4,945	1,129
New Hanover....	2,445	1,782	616	47
Onslow.....	12,596	9,592	2,489	515
Pender.....	16,878	9,357	7,027	494
Robeson.....	51,474	39,853	8,161	3,460
Sampson.....	58,295	32,538	23,497	2,260
Scotland.....	8,003	4,169	2,259	1,575
S. COASTAL....	348,003	212,280	119,852	15,871

CASH RECEIPTS FROM FARM MARKETINGS, 1970 (Continued opposite page)

Counties & Districts	Tobacco	Corn	Soybeans	Peanuts	Cotton and Cottonseed
	<i>Thousand Dollars</i>				
STATE TOTAL....	576,274	63,977	60,728	45,976	16,539
Alleghany.....	459	5	-	-	-
Ashe.....	1,749	2	-	-	-
Avery.....	182	2	-	-	-
Caldwell.....	314	29	23	-	-
Surry.....	11,494	249	72	-	-
Watauga.....	1,264	2	-	-	-
Wilkes.....	1,183	170	38	-	-
Yadkin.....	8,341	1,313	379	-	-
N. MOUNTAINS...	24,986	1,772	512	-	-
Buncombe	2,253	57	-	-	-
Burke.....	1	67	36	-	1
Cherokee.....	59	42	18	-	-
Clay.....	84	12	1	-	-
Graham.....	427	3	-	-	-
Haywood.....	1,386	8	-	-	-
Henderson.....	30	131	5	-	-
Jackson.....	81	1	-	-	-
McDowell.....	18	48	5	-	-
Macon.....	55	7	-	-	-
Madison.....	3,855	9	-	-	-
Mitchell.....	849	4	-	-	-
Polk.....	1	16	24	-	18
Rutherford....	4	90	67	1	157
Swain.....	42	12	-	-	-
Transylvania...	23	49	-	-	-
Yancey.....	1,865	3	-	-	-
W. MOUNTAINS...	11,033	559	156	1	176
Alamance.....	4,652	198	182	-	-
Caswell.....	8,938	112	32	-	-
Durham.....	2,986	52	81	-	1
Forsyth.....	3,829	135	104	-	-
Franklin.....	12,861	187	522	-	90
Granville.....	12,946	146	156	-	2
Guilford.....	8,127	212	242	-	-
Orange.....	3,296	183	78	-	-
Person.....	9,798	169	8	-	-
Rockingham....	13,445	161	87	-	-
Stokes.....	11,427	175	15	-	-
Vance.....	8,169	75	142	-	73
Warren.....	5,536	65	266	17	122
N. PIEDMONT....	106,010	1,870	1,915	17	288
Alexander.....	972	52	72	1	-
Catawba.....	-	86	268	2	2
Chatham.....	2,156	95	116	-	1
Davidson.....	2,524	234	118	3	-
Davie.....	805	58	52	-	15
Iredell.....	872	154	222	-	65
Lee.....	4,710	35	238	-	5
Randolph.....	2,317	394	223	-	-
Rowan.....	4	276	330	-	121
Wake.....	23,074	162	722	-	20
C. PIEDMONT....	37,434	1,546	2,361	6	229

CASH RECEIPTS FROM FARM MARKETINGS, 1970

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Counties & Districts	Tobacco	Corn	Soybeans	Peanuts	Cotton and Cottonseed
	<i>Thousand Dollars</i>				
Anson.....	194	43	608	-	427
Cabarrus.....	-	104	203	-	72
Cleveland.....	2	50	460	-	1,535
Gaston.....	-	20	97	1	20
Lincoln.....	-	93	440	4	148
Mecklenburg....	-	5	117	-	100
Montgomery.....	875	20	39	-	131
Moore.....	5,581	51	124	19	84
Richmond.....	1,628	33	125	52	144
Stanly.....	-	196	551	-	3
Union.....	-	315	2,375	-	349
S. PIEDMONT....	8,280	930	5,139	76	3,013
Bertie.....	6,586	1,751	768	6,452	162
Camden.....	-	1,603	1,658	12	8
Chowan.....	549	612	901	1,988	146
Currituck.....	-	1,342	1,546	39	-
Dare.....	-	2	4	-	-
Edgecombe.....	15,215	2,090	1,138	4,002	684
Gates.....	293	625	748	2,345	22
Halifax.....	7,028	1,511	845	7,196	2,186
Hertford.....	3,623	910	342	4,438	386
Martin.....	10,715	808	1,030	4,470	119
Nash.....	22,614	1,304	593	743	449
Northampton....	432	815	556	8,650	2,206
Pasquotank.....	-	1,147	2,441	28	1
Perquimans.....	-	1,266	2,310	999	1
Tyrrell.....	-	228	898	21	-
Washington.....	919	1,943	2,152	841	2
N. COASTAL....	67,974	17,957	17,930	42,224	6,372
Beaufort.....	12,149	2,836	4,686	145	4
Carteret.....	1,334	182	433	-	-
Craven.....	10,401	794	1,611	10	4
Greene.....	17,425	2,880	299	67	13
Hyde.....	-	2,230	2,376	-	-
Johnston.....	28,474	1,557	2,024	29	137
Jones.....	6,441	1,209	842	-	-
Lenoir.....	20,529	2,764	643	6	1
Pamlico.....	917	655	1,108	-	1
Pitt.....	34,478	3,766	1,623	1,569	54
Wayne.....	20,376	4,581	1,100	4	12
Wilson.....	22,025	2,372	572	33	26
C. COASTAL....	174,549	25,826	17,317	1,863	252
Bladen.....	9,464	950	944	977	11
Brunswick.....	4,130	402	412	2	-
Columbus.....	23,067	1,353	1,580	262	-
Cumberland.....	6,215	459	1,348	92	290
Duplin.....	20,711	2,425	1,445	5	8
Harnett.....	18,621	133	1,508	-	223
Hoke.....	3,095	235	1,100	-	793
New Hanover....	155	57	110	40	-
Onslow.....	6,779	1,065	749	31	-
Pender.....	4,280	657	770	162	-
Robeson.....	28,490	3,358	3,272	87	2,166
Sampson.....	19,761	2,256	1,710	127	949
Scotland.....	1,240	167	450	4	1,769
S. COASTAL....	146,008	13,517	15,398	1,789	6,209

CASH RECEIPTS FROM FARM MARKETINGS, 1970 (Continued opposite page)

Counties & Districts	Other Field Crops	Vegetables, Fruits, Nuts, and Berries	Farm Forest, Greenhouse and Nursery	Hogs	Cattle and Calves
<i>Thousand dollars</i>					
STATE TOTAL....	16,777	67,640	53,750	127,030	61,081
Alleghany.....	89	322	165	30	1,250
Ashe.....	50	920	343	70	2,500
Avery.....	17	405	1,742	5	300
Caldwell.....	53	136	505	530	350
Surry.....	194	148	530	470	1,300
Watauga.....	29	261	211	35	750
Wilkes.....	112	698	680	200	1,150
Yadkin.....	343	177	78	400	750
N. MOUNTAINS...	887	3,067	4,254	1,740	8,350
Buncombe.....	107	557	1,415	15	1,650
Burke.....	81	90	171	120	325
Cherokee.....	32	106	98	150	450
Clay.....	20	139	22	80	350
Graham.....	11	52	49	5	100
Haywood.....	65	1,714	403	55	1,500
Henderson.....	24	7,476	833	120	650
Jackson.....	24	259	269	25	300
McDowell.....	18	175	200	225	175
Macon.....	27	437	302	480	800
Madison.....	86	675	212	20	1,100
Mitchell.....	32	752	143	100	400
Polk.....	27	593	120	60	200
Rutherford.....	176	680	344	240	600
Swain.....	9	167	146	30	85
Transylvania...	15	319	723	65	250
Yancey.....	60	116	211	10	300
W. MOUNTAINS...	814	14,307	5,661	1,800	9,235
Alamance.....	212	121	344	780	1,150
Caswell.....	210	71	134	220	575
Durham.....	101	71	201	185	300
Forsyth.....	213	301	380	190	700
Franklin.....	299	228	734	1,650	600
Granville.....	201	78	636	800	525
Guilford.....	385	180	655	1,000	1,200
Orange.....	216	66	217	600	925
Person.....	306	35	306	1,000	450
Rockingham.....	249	202	408	500	600
Stokes.....	122	87	188	310	525
Vance.....	202	245	495	425	375
Warren.....	197	287	737	350	550
N. PIEDMONT....	2,913	1,972	5,435	8,010	8,475
Alexander.....	109	355	220	120	550
Catawba.....	302	184	370	250	1,050
Chatham.....	141	32	1,303	1,200	900
Davidson.....	399	332	266	750	950
Davie.....	228	33	502	700	1,100
Iredell.....	377	32	430	425	2,900
Lee.....	73	53	540	500	300
Randolph.....	423	14	1,235	1,370	1,100
Rowan.....	623	258	540	550	1,000
Wake.....	318	432	1,602	2,000	1,050
C. PIEDMONT....	2,993	1,725	7,008	7,865	10,900

CASH RECEIPTS FROM FARM MARKETINGS, 1970

17

Counties & Districts	Other Field Crops	Vegetables, Fruits, Nuts and Berries	Farm Forest, Greenhouse and Nursery	Hogs	Cattle and Calves
<i>Thousand Dollars</i>					
Anson.....	516	717	392	475	900
Cabarrus.....	196	61	124	435	1,050
Cleveland.....	254	341	1,755	290	1,250
Gaston.....	140	231	201	120	600
Lincoln.....	271	528	159	110	750
Mecklenburg....	110	88	2,233	180	850
Montgomery....	79	771	225	480	225
Moore.....	217	332	705	1,000	325
Richmond.....	156	981	566	385	275
Stanly.....	1,008	74	325	1,100	1,150
Union.....	1,597	142	933	2,350	1,800
S. PIEDMONT....	4,544	4,266	7,618	6,925	9,175
Bertie.....	73	201	840	2,200	350
Camden.....	291	774	120	600	125
Chowan.....	45	1,260	280	1,800	120
Currituck.....	243	991	88	1,660	120
Dare.....	-	11	17	10	4
Edgecombe.....	185	237	702	2,900	675
Gates.....	13	109	236	2,400	200
Halifax.....	91	333	1,025	2,210	1,000
Hertford.....	9	40	375	960	112
Martin.....	33	244	1,160	3,500	450
Nash.....	321	1,876	1,027	1,800	525
Northampton....	91	328	1,010	2,700	425
Pasquotank....	295	2,259	523	1,020	325
Perquimans....	189	326	203	1,700	140
Tyrrell.....	25	664	190	1,000	80
Washington.....	79	303	166	800	220
N. COASTAL....	1,983	9,956	7,962	27,260	4,871
Beaufort.....	276	939	1,135	2,600	400
Carteret.....	22	414	88	250	150
Craven.....	59	630	460	1,500	270
Greene.....	58	134	263	4,400	150
Hyde.....	59	502	177	700	325
Johnston.....	221	4,407	1,085	8,600	950
Jones.....	16	135	387	1,300	150
Lenoir.....	67	439	464	2,900	500
Pamlico.....	132	581	130	130	150
Pitt.....	86	1,466	976	4,500	550
Wayne.....	159	1,505	920	5,800	650
Wilson.....	287	2,269	493	1,650	175
C. COASTAL....	1,442	13,421	6,578	34,330	4,420
Bladen.....	58	1,306	325	2,100	525
Brunswick.....	26	489	423	1,800	225
Columbus.....	59	1,950	1,014	4,600	600
Cumberland.....	138	724	377	2,150	800
Duplin.....	126	3,026	660	6,400	600
Harnett.....	241	780	427	2,100	500
Hoke.....	121	160	300	1,600	150
New Hanover....	11	330	1,080	75	25
Onslow.....	19	329	620	2,050	80
Pender.....	16	1,578	1,895	1,300	225
Robeson.....	197	1,562	721	4,200	600
Sampson.....	130	6,514	1,090	10,000	1,050
Scotland.....	59	178	302	725	275
S. COASTAL....	1,201	18,926	9,234	39,100	5,655

CASH RECEIPTS FROM FARM MARKETINGS, 1970 (Continued opposite page)

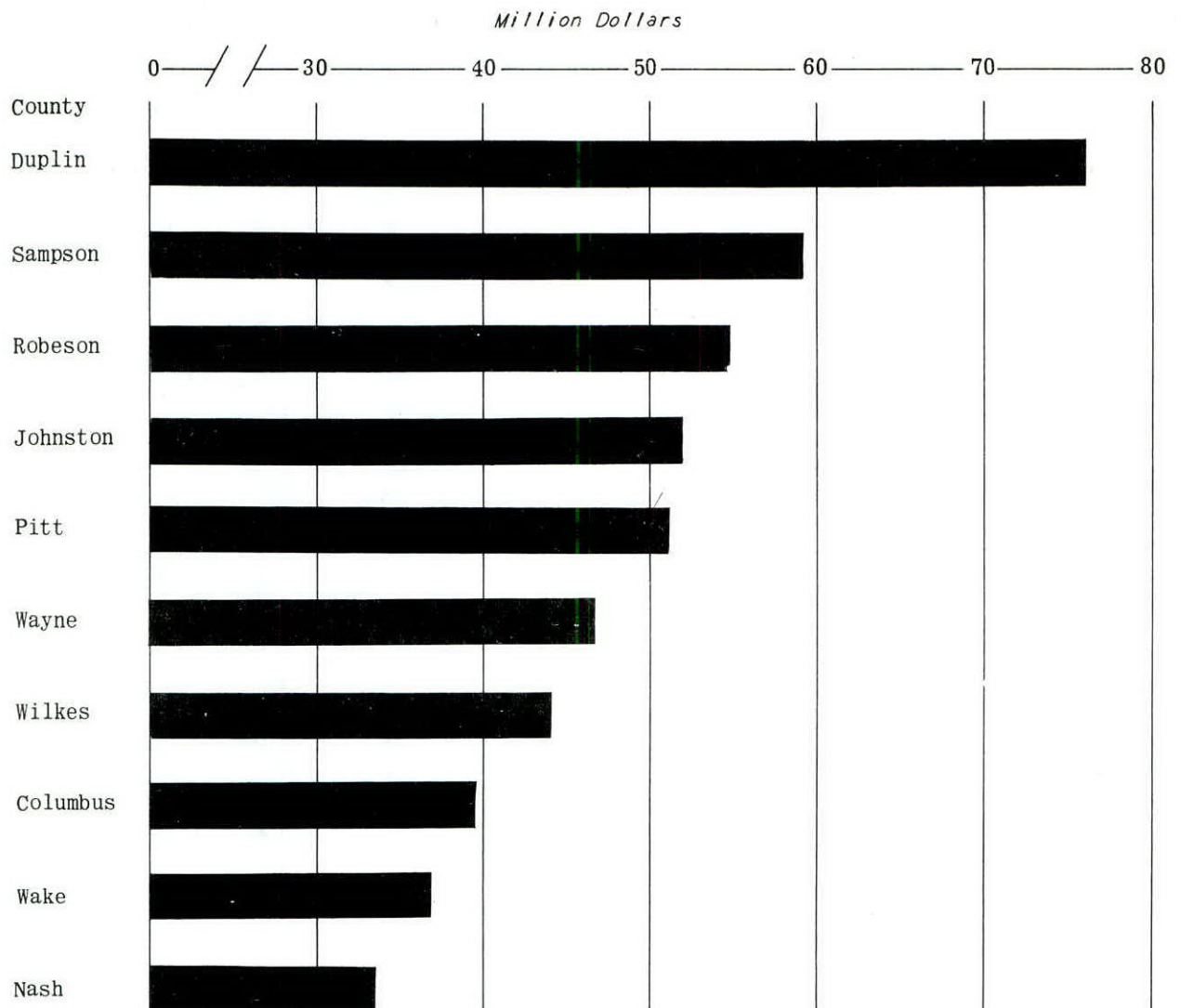
Counties & Districts	Milk	Broilers	Eggs	Turkeys	Other Livestock and Poultry
	<i>Thousand Dollars</i>				
STATE TOTAL....	95,930	155,586	129,512	38,247	16,690
Alleghany.....	1,625	215	250	-	56
Ashe.....	850	2,100	125	-	65
Avery.....	150	-	12	-	23
Caldwell.....	1,200	2,975	1,200	-	155
Surry.....	1,210	950	10,500	-	1,058
Watauga.....	400	1,475	75	-	27
Wilkes.....	650	25,780	12,500	-	1,046
Yadkin.....	2,540	630	2,000	145	273
N. MOUNTAINS...	8,625	34,125	26,662	145	2,703
Buncombe.....	4,300	880	1,350	-	238
Burke.....	440	665	260	-	16
Cherokee.....	300	-	2,850	-	261
Clay.....	725	-	3,300	-	357
Graham.....	10	-	20	-	14
Haywood.....	1,200	230	350	200	73
Henderson.....	3,000	200	525	1	53
Jackson.....	30	-	15	-	29
McDowell.....	180	120	125	-	116
Macon.....	1,200	-	425	-	105
Madison.....	1,300	460	20	-	73
Mitchell.....	320	945	15	1	15
Polk.....	270	20	825	-	143
Rutherford....	900	630	400	100	43
Swain.....	40	-	65	-	59
Transylvania..	100	-	100	-	55
Yancey.....	1,150	-	90	-	43
W. MOUNTAINS...	15,465	4,150	10,735	302	1,693
Alamance.....	3,900	1,820	2,100	-	202
Caswell.....	1,050	25	500	-	28
Durham.....	450	-	520	-	38
Forsyth.....	1,145	80	1,700	-	245
Franklin.....	200	140	650	1	72
Granville.....	1,360	-	1,400	-	99
Guilford.....	3,000	115	1,050	-	199
Orange.....	3,600	-	2,100	-	114
Person.....	460	480	875	-	44
Rockingham....	1,350	60	500	-	157
Stokes.....	300	55	1,100	-	213
Vance.....	300	-	150	-	23
Warren.....	525	-	75	-	33
N. PIEDMONT....	17,640	2,775	12,720	1	1,467
Alexander.....	1,400	6,875	1,400	4	115
Catawba.....	1,700	300	1,500	-	101
Chatham.....	2,400	21,400	2,900	-	337
Davidson.....	1,800	375	1,050	3	96
Davie.....	3,500	490	1,200	-	118
Iredell.....	6,000	185	3,300	7	512
Lee.....	130	355	650	-	52
Randolph.....	3,000	11,210	2,300	-	211
Rowan.....	4,780	335	1,850	-	108
Wake.....	2,950	125	3,800	-	145
C. PIEDMONT....	27,660	41,650	19,950	14	1,795

CASH RECEIPTS FROM FARM MARKETINGS, 1970

19

Counties & Districts	Milk	Broilers	Eggs	Turkeys	Other Livestock and Poultry
<i>Thousand Dollars</i>					
Anson.....	500	575	750	2,610	98
Cabarrus.....	1,250	125	1,050	210	108
Cleveland.....	2,500	1,520	2,850	810	162
Gaston.....	1,950	190	300	-	65
Lincoln.....	1,500	2,475	1,100	30	84
Mecklenburg....	1,800	280	400	-	44
Montgomery....	475	5,000	325	-	24
Moore.....	100	21,880	475	370	529
Richmond.....	50	4,490	950	835	378
Stanly.....	1,870	265	7,800	420	448
Union.....	1,945	9,350	2,000	5,625	996
S. PIEDMONT....	13,940	46,150	18,000	10,910	2,936
Bertie.....	75	-	350	-	14
Camden.....	5	-	25	-	9
Chowan.....	30	-	30	-	8
Currituck.....	10	1	250	440	17
Dare.....	10	-	10	1	7
Edgecombe.....	615	-	375	-	31
Gates.....	15	-	750	12	55
Halifax.....	450	95	400	-	45
Hertford.....	10	-	10	-	12
Martin.....	25	690	900	-	53
Nash.....	240	795	1,500	-	96
Northampton....	350	-	825	-	78
Pasquotank.....	10	-	75	-	24
Perquimans.....	60	-	40	32	14
Tyrrell.....	50	-	120	-	15
Washington....	200	5	90	-	54
N. COASTAL....	2,155	1,586	5,750	485	532
Beaufort.....	540	-	700	-	134
Carteret.....	20	-	185	34	23
Craven.....	500	-	975	380	42
Greene.....	150	-	225	210	15
Hyde.....	500	-	30	-	8
Johnston.....	350	140	1,700	60	176
Jones.....	150	-	250	65	25
Lenoir.....	1,035	29	700	1,100	33
Pamlico.....	430	1	500	115	23
Pitt.....	600	150	4,500	-	207
Wayne.....	1,100	1,610	2,900	3,025	1,330
Wilson.....	225	370	540	1	36
C. COASTAL....	5,600	2,300	13,205	4,990	2,052
Bladen.....	1,050	230	800	203	48
Brunswick.....	140	40	110	-	22
Columbus.....	405	150	1,500	-	104
Cumberland.....	600	-	1,800	12	167
Duplin.....	240	18,910	8,500	9,450	1,630
Harnett.....	650	-	1,600	-	97
Hoke.....	70	30	160	2,515	420
New Hanover....	50	80	350	-	36
Onslow.....	100	120	120	-	19
Pender.....	400	1,850	2,400	650	202
Robeson.....	300	10	1,600	1,020	431
Sampson.....	690	1,430	3,300	6,740	287
Scotland.....	150	-	250	810	49
S. COASTAL....	4,845	22,850	22,490	21,400	3,512

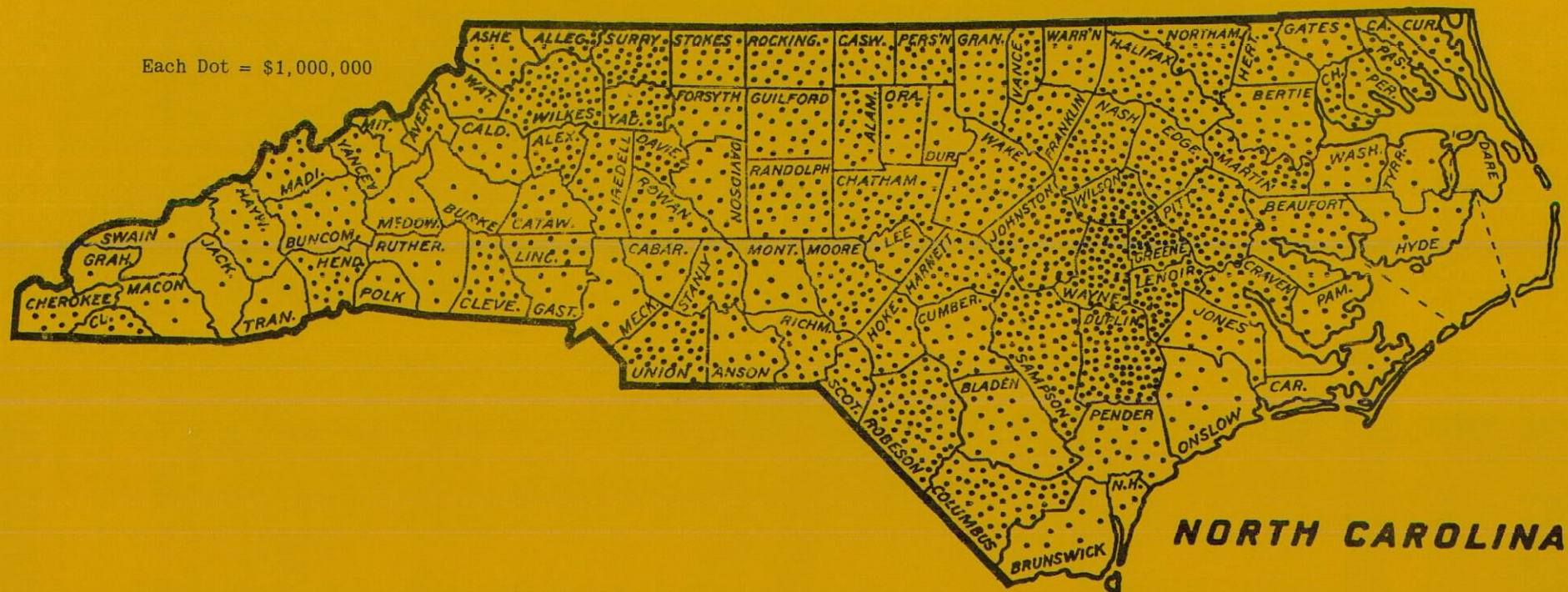
Top Ten Counties In Cash Receipts, From Farming, 1971



Top Ten Counties In Cash Receipts For Specified Commodities, 1971

<u>Rank</u>	<u>Tobacco</u>	<u>Corn</u>	<u>Soybeans</u>	<u>Broilers</u>	<u>Hogs</u>	<u>Milk</u>
1	Pitt	Wayne	Robeson	Wilkes	Sampson	Iredell
2	Johnston	Robeson	Beaufort	Duplin	Johnston	Rowan
3	Robeson	Pitt	Union	Moore	Duplin	Randolph
4	Columbus	Duplin	Johnston	Chatham	Wayne	Orange
5	Wake	Greene	Sampson	Randolph	Robeson	Alamance
6	Nash	Lenoir	Harnett	Union	Columbus	Buncombe
7	Wilson	Wilson	Washington	Alexander	Greene	Wake
8	Sampson	Beaufort	Columbus	Montgomery	Pitt	Davie
9	Wayne	Columbus	Duplin	Richmond	Martin	Guilford
10	Harnett	Sampson	Perquimans	Caldwell	Edgecombe	Henderson

DISTRIBUTION OF CASH RECEIPTS FROM FARM MARKETINGS, AND GOVERNMENT PAYMENTS, 1971



NORTH CAROLINA



HORSE AND PONY SURVEY 1971





State of North Carolina
Department of Agriculture
Raleigh

JAMES A. GRAHAM
COMMISSIONER



It is a pleasure for the North Carolina Department of Agriculture to send you this report of the horse survey recently conducted in North Carolina.

We have been very much impressed with the number of horses in the state and the interest in this industry.

We are one of only a few states who have tackled this type undertaking. The practicing veterinarians in the state, the breed associations and many other groups and individuals are to be congratulated for their cooperation in making this program a success.

The North Carolina Crop Reporting Service has drawn on every possible source and the result is the most comprehensive horse survey ever conducted in North Carolina.

I hope this booklet will have something of interest for you and that this dynamic segment of the industry of agriculture in the state will be better because of it.

With all good wishes.

Cordially,

James A. Graham
James A. Graham

INTRODUCTION

This booklet was planned, designed, and published as a service to the horse and pony industry of North Carolina. Horses and ponies have played a large role in this State throughout its history. In the beginning, they served principally as a mode of transportation and of power for work, but in more recent years primarily as a source of pleasure and recreation. The number of horses and colts in Tar Heelia reached a peak of 182,000 in 1915 and then started a long decline until sometime in the 1950's. The Department of Agriculture discontinued its estimates of horses on farms in 1955 when only 61,000 were estimated. Since that time numbers have increased rapidly, largely due to the growing popularity of the lighter breed horses and ponies among citizens of suburbia.

Information presented in this publication is based upon data obtained from horse and pony owners during the summer and fall of 1971. Three separate methods of data collection were involved: (1) enumeration of areas of land, (2) enumeration of a list of owners and operators, and (3) records from the Venezuelan Equine Encephalomyelitis (VEE) vaccination program. No information is included for mules or any equines other than horses and ponies.

A special thanks is expressed to all individuals and groups that participated in making this undertaking a success. It is hoped that this booklet will serve as a sound basis for the future development and promotion of the horse and pony industry of North Carolina.

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NORTH CAROLINA HORSES AND PONIES BY BREED

The estimated number of horses and ponies by breeds in North Carolina were obtained by requesting that managers of horse operations indicate the number of each breed in their operation. It was not required for a horse or pony to be registered to be classified as a particular breed.

Quarter Horse: The quarter horse is the largest single horse breed in North Carolina with about 17 percent of the total horses and 12 percent of the total horses and ponies. Originally known as the American Quarter Running Horse, the breed was established in Virginia in 1665. Early Quarter Horses are believed to have been crosses between Spanish and English stock. They advanced rapidly in the West as a cow horse and more recently as a versatile horse for show, work, pleasure and racing.

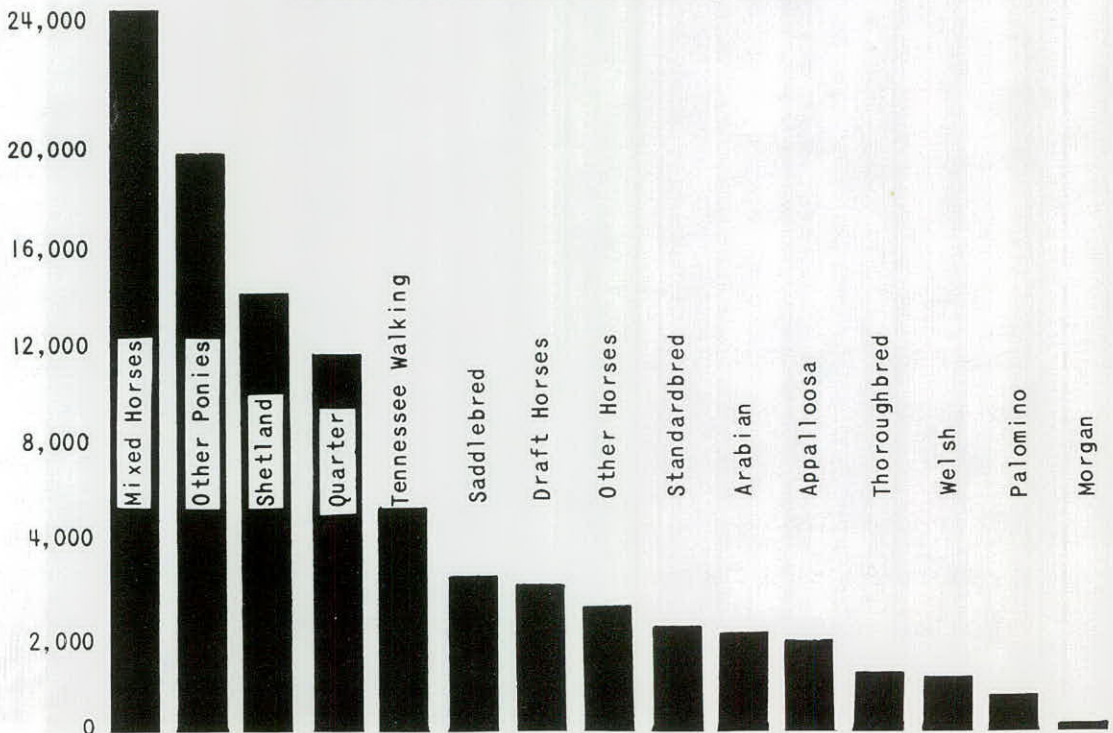
Tennessee Walking Horse: The Ten-

nessee Walking Horse was made famous by its running walk, a greatly extended flat walk with an overstep. Development originated with a mingling of Morgan, Standardbred, American Saddlebred and Thoroughbred. Nearly seven percent of the State's horses and ponies are Tennessee Walking horses.

American Saddlebred: Denmark, a race horse of Thoroughbred and Arabian blood is said to be the foundation sire of the American Saddlebred. The breed is divided into two groups; the five-gaited and the three-gaited. These horses comprise just under 6 percent of the horses and ponies in North Carolina.

Standardbred: Messenger, foundation sire of the Standardbred, was imported to the U. S. from England in 1788. Messenger's great grandson, Rysdyck's Hanbletonion, born in 1849 is known as the 'Father of the Modern Standardbred'. Although other breeds contributed to

Number Horses and Ponies By Breed



the Standardbred, the major breed is traced back to the thoroughbred.

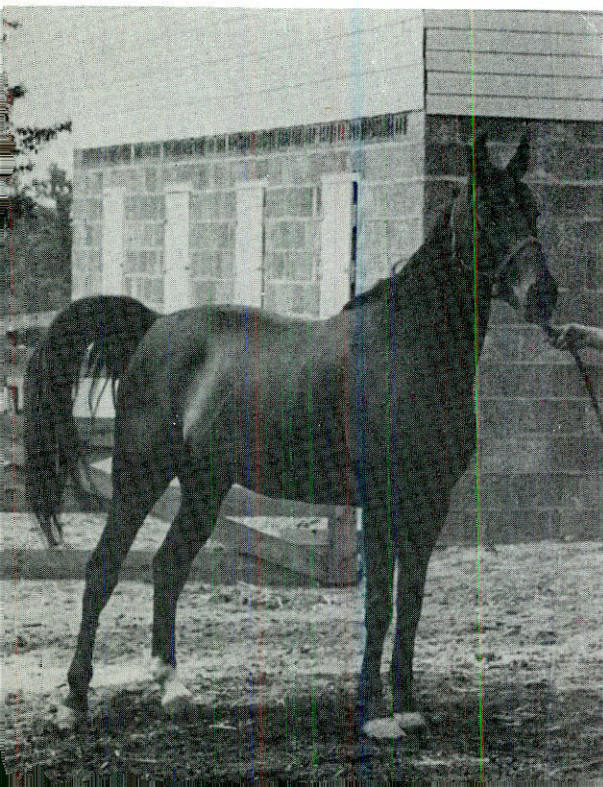
Arabian: Selective breeding for centuries contributed to making the Arabian the beautiful horse we know today. Desert nomads considered these horses to be a gift from the gods and were treasured accordingly. The Arabian mare was the most highly treasured and guarded of the breed. It was believed that if a pure Arabian mare was bred to a stallion of impure blood, the mare's future offspring would carry the impure blood no matter how pure succeeding sires might be. Arabian horses account for three percent of the State's horses and ponies.

Appaloosa: The earliest positive record of the spotted Horses, known today as the Appaloosa, tell us they were owned by the Nez Percé Indians. These horses were carefully bred

Number and Percent Of Horses and Ponies, By Breeds, 1971

Horses	Number	Percent Of Total Horses	Percent Of Total Horses & Ponies
Quarter Horse.....	13,200	17.3	11.7
Tennessee Walking...	7,800	10.2	6.9
American Saddlebred.	6,700	8.8	5.9
Standardbred.....	3,700	4.8	3.3
Arabian.....	3,400	4.5	3.0
Appaloosa.....	3,100	4.1	2.7
Thoroughbred.....	2,100	2.8	1.9
Palomino.....	1,400	1.8	1.2
Morgan.....	200	.3	.2
Other Breeds.....	4,500	5.9	4.0
Mixed Breeds.....	24,900	32.6	22.0
Draft Horses.....	5,300	6.9	4.7
TOTAL HORSES.....	76,300	100.0	67.5

Ponies	Number	Percent Of Total Ponies	Percent Of Total Horses & Ponies
Shetland.....	15,100	41.1	13.4
Welsh.....	2,000	5.5	1.8
Other.....	19,600	53.4	17.3
TOTAL PONIES.....	36,700	100.0	32.5
TOTAL HORSES & PONIES	113,000	-	100.0



by the Nez Percé to achieve a breed that would serve in the heat of battle and chase a buffalo swiftly for great distances. After the surrender of the Nez Percé, the Appaloosa horses were sold which almost lead to the extinction of the breed. Less than 3 percent of the State's horses and ponies are Appaloosa.

Thoroughbred: The Thoroughbred began in England with three foundation sires; Byerly Tuck, Darley Arabian, and Godolphin Barb. Thoroughbreds were imported to America between 1730 and 1800. The major use of the Thoroughbred is racing. Nearly 2 percent of the State's horses and ponies are Thoroughbred.

BREEDS (continued from page 3)

Palomino: North Carolina's survey questionnaire only listed one color breed, the Palomino. Palomino horses must stand between 14 and 17 hands (1 hand = 4 inches) and not be used for draft purposes. Breeding for a Palomino carries no guarantee since breeding for color only yields the desired results about half the time. One percent of N. C. horses and ponies are Palominos.

Morgan: Morgan horses all descended from a once-great sire known as Figure, the "sire of sires". Figure was owned by a school teacher, Justin Morgan. Later in life the great sire took on his master's name, giving rise to the Morgan breed. Morgan horses, the first breed developed in America, comprise less than one percent of the State's total.

Draft: Nearly five percent of N. C. horses and ponies are draft breeds. Several breeds of draft horses can be found in North Carolina. Some of these are the Clydesdale, Shire, Percheron and Belgian.

Mixed and Unknown Breeds: Mixed or unknown breed horses comprise the largest portion of North Carolina horses and ponies--twenty-two percent. A large percentage of the mixed and unknown horses are located on one or two horse operations.

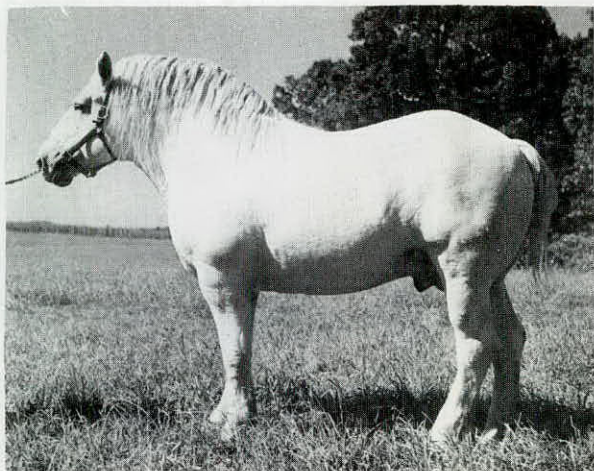
Other Known Breeds: There are several breeds of horses that were not

listed separately on the questionnaire because of space limitations. Horses of these breeds total about 4500 or 4 percent of the total horses and ponies.

Shetland Ponies: The Shetland pony is said to have been carried to the Shetland Isles as long as two thousand years ago by the Norsemen. It was not until electricity came into common use that the Shetland ponies escaped the British coal mines and emerged as a child's pet. Since Shetland ponies were never used as work ponies in America, the American Shetland is much more streamlined than it's British relative. The Shetland pony is the largest single breed of horses or ponies in N. C. with 13 percent of the total horses and ponies and 41 percent of the total ponies.

Welsh: Welsh ponies, intermediate between the horse and Shetland pony, are actually only one of two types of Welsh. The Welsh Mountain pony is found in vast numbers in the United States compared to the scarce Welsh Cob pony. Welsh ponies account for two percent of N. C. horses and ponies.

Other Ponies: Of the total horses and ponies, the other ponies class ranks second with 17 percent. This class consists of both mixed ponies and ponies of breeds other than Shetland and Welsh. Hackney ponies comprise the largest breed within the other pony class.



TYPE OPERATIONS

Horses and ponies are owned by more than 53,000 North Carolinians. The number of horses and ponies owned by each of these 53,000 persons varies widely depending on type operation and purpose for which the animals are kept. On the average, however, each owner has slightly over two horses and ponies.

Each operator who completed a questionnaire was asked to identify his type operation into one or more of four categories. These categories were (1) farm, (2) non-farm residence, (3) public stable, and (4) other type operation. Most respondents reported only one type operation but a small percentage classified their operation as dual purpose.

Farms -- either horse and pony farms or other type farms with horses and ponies is by far the largest type operation category. More than 56 percent of the places in North Carolina that have horses and ponies classify themselves as farms. The farm classification is very broad and includes a tobacco farm with one pony for the pleasure of a 10 year old girl. It also includes a sophisticated breeding

Number and Percent Of
Horse and Pony Operations By Type

Type Operation	Number	Percent Of Total
Farm.....	30,000	56.4
Non-Farm.....	20,400	38.4
Public Boarding.	1,000	1.9
Other.....	1,800	3.3
TOTAL.....	53,200	100.0

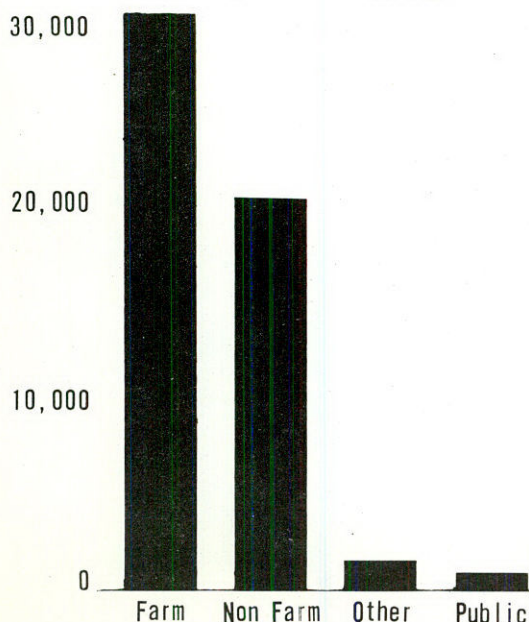
farm with dozens of registered brood mares. Each of these 30,000 farms, whether large or small is an integral part of the horse industry in N. C.

Around our larger cities and smaller towns a surprisingly large number of horses and ponies can be found. Many of these are kept by businessmen and women at their residences. These non-farm residences with horses and ponies total more than 20,000 or 38 percent of the total operations in the State. This non-farm classification has probably shown the most rapid growth in recent years as more and more people have discovered the pleasure of horse ownership.

Public boarding stables have opened their doors in increased numbers across the State and now there are around 1000 public boarding stables in Tar Heelia. The actual operations of these stables vary widely and range from training to pleasure riding stables. The public boarding stables account for slightly less than 2 percent of the total operations.

The fourth classification was designed to group together all operations that the operator did not classify as a farm, non-farm residence, or public boarding stable. The all other classification includes operations such as horse dealers, sale barns, camps, youth projects and others. Over 1800 of these operations make up more than 3 percent of the total.

Number Of Operations By Types



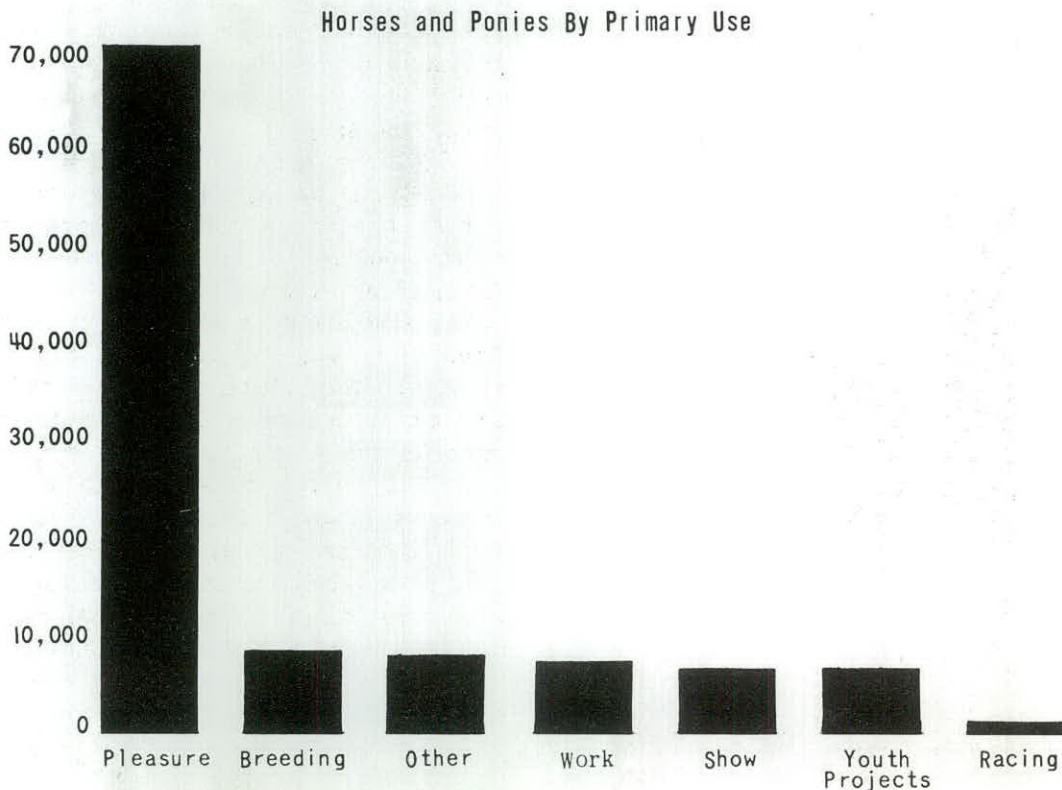
HORSES AND PONIES BY PURPOSE

In designing the Horse and Pony Questionnaire, it was realized that a large percentage of the horses and ponies in North Carolina are multi-purpose. However, managers of each operation were asked to list only the primary purpose for which each horse was kept.

Pleasure is the number one purpose for which horses and ponies are kept in the Old North State. From the coast to the mountains both young and old enjoy the many facets of horse ownership--from a Sunday afternoon ride to just observing horses grazing in a pasture.

Equines for breeding purposes account for the second largest use classification in North Carolina. Through the efforts of breeders in the state, we can continue to obtain a good supply of high quality animals.

Over eight thousand horses and ponies make up the classification 'Other Purposes'. Horses and ponies which are seldom used and not kept for any specific purpose together with horses and ponies kept for sale comprise the majority of this class. Also, some highly trained and special purpose horses are included in this other purpose class.



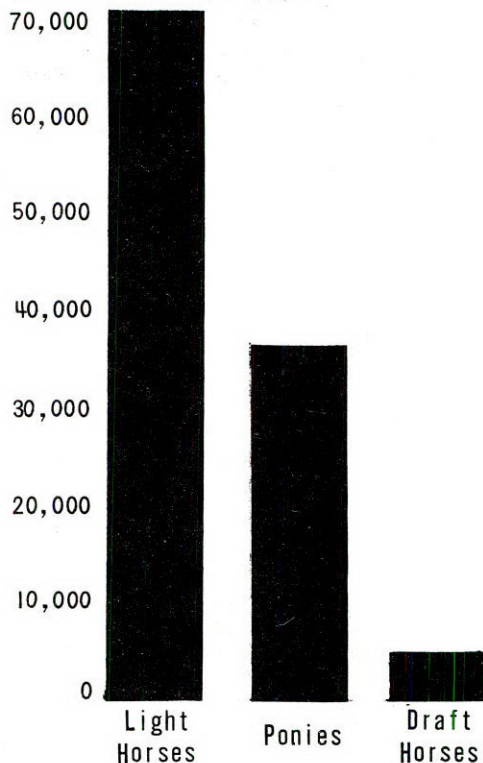
Work is designated as the primary purpose of nearly eight thousand horses and ponies. This group ranged from carnival ponies to cow horses. Draft animals also comprise a large portion of this group.

Show stock accounted for about 6 percent of the state total. Horse shows can be found in all areas of the state. Small communities have shown tremendous interest as well as larger cities. Many clubs and civic organizations have found horse shows to be an excellent fund raising project.

Youth projects also comprise about 6 percent of North Carolina horses and ponies. 4-H and other youth groups have contributed to the vast interest among N. C. youth.

The survey was conducted during the racing season for thoroughbreds in the Sandhill area. Many of the horses stabled in this area during the off season were out of state and not included in the count. Horses kept primarily for racing comprised less than one percent of N. C. total horses and ponies.

Number Of Horses and Ponies
By Types



Number and Percent Of
Horses and Ponies
By Primary Use

Primary Use	Number	Percent Of Total
Breeding.....	8,600	7.6
Other Purposes.	8,200	7.2
Pleasure.....	74,700	66.1
Racing.....	800	.7
Show.....	6,400	5.7
Draft.....	7,900	7.0
Youth Projects.	6,400	5.7
TOTAL.....	113,000	100.0



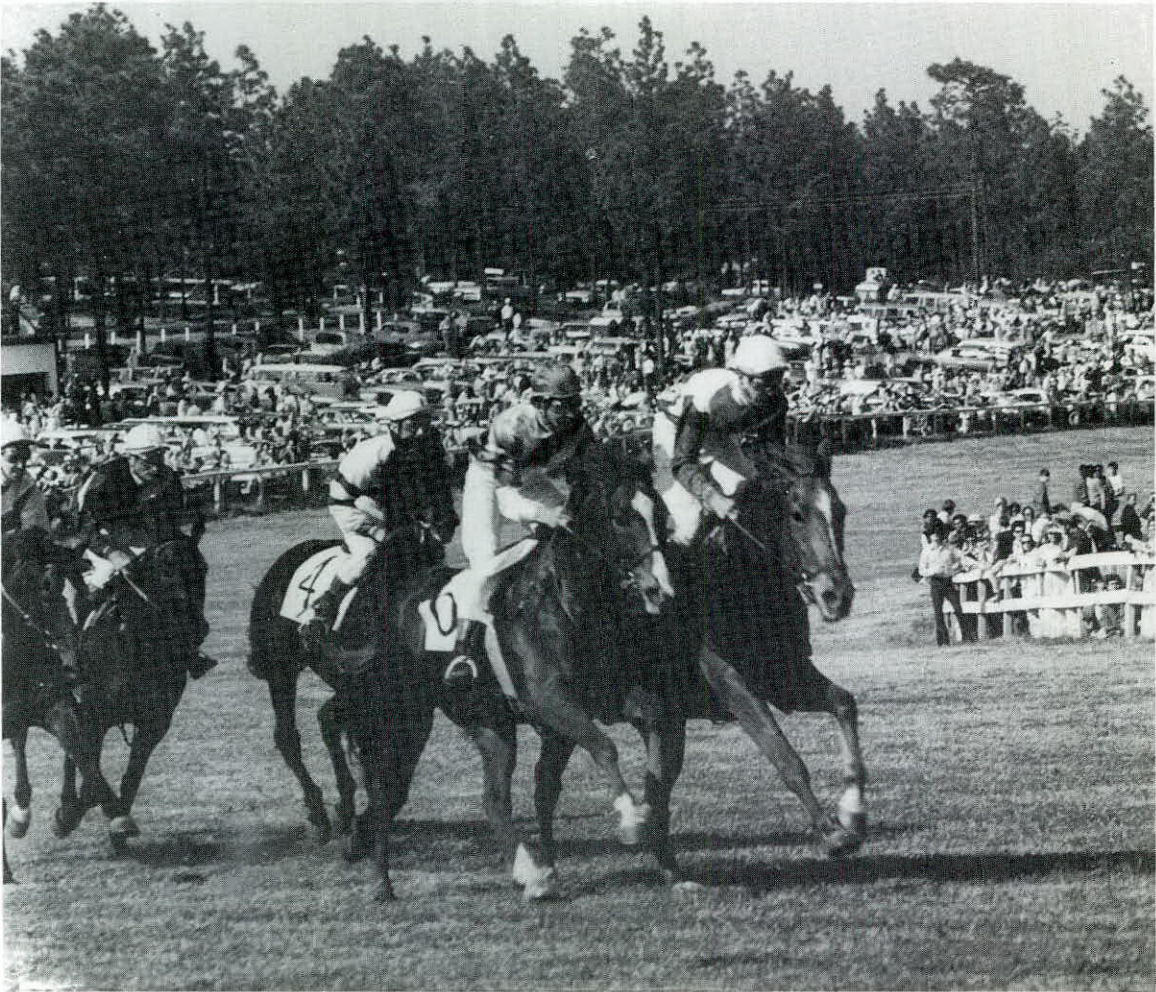
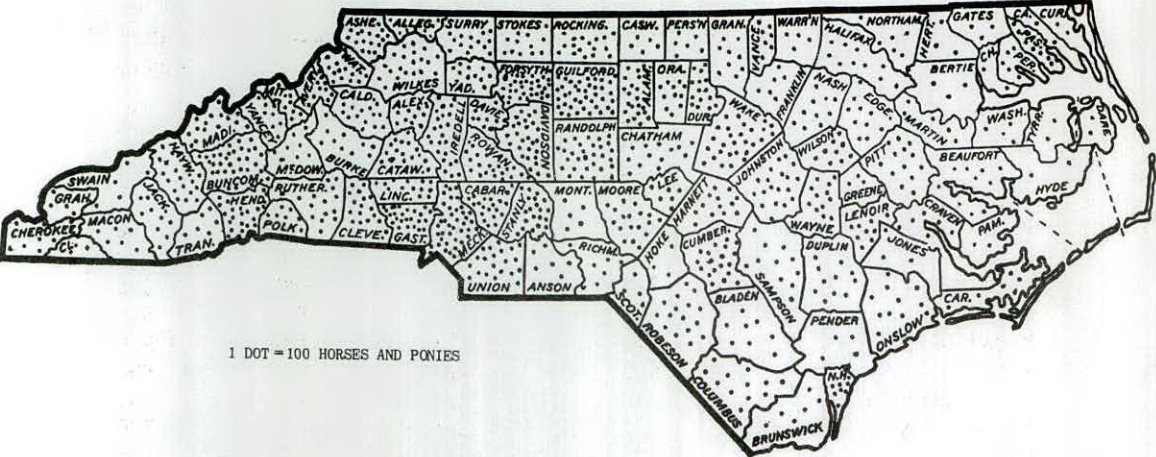
NUMBER OF HORSES, PONIES, AND OPERATIONS BY COUNTIES, 1971

County	Operations	Horses	Ponies	Horses and Ponies
Alamance.....	900	1,460	620	2,080
Alexander.....	550	690	270	960
Alleghany.....	310	480	230	710
Anson.....	340	360	280	640
Ashe.....	1,010	1,490	240	1,730
Avery.....	480	630	340	970
Beaufort.....	390	620	330	950
Bertie.....	190	120	210	330
Bladen.....	390	440	310	750
Brunswick.....	280	310	210	520
Buncombe.....	1,570	2,430	730	3,160
Burke.....	540	620	430	1,050
Cabarrus.....	700	970	950	1,920
Caldwell.....	780	830	610	1,440
Camden.....	80	170	80	250
Carteret.....	310	350	240	590
Caswell.....	270	260	210	470
Catawba.....	770	1,070	510	1,580
Chatham.....	490	960	340	1,300
Cherokee.....	350	700	60	760
Chowan.....	100	110	80	190
Clay.....	160	230	20	250
Cleveland.....	740	990	710	1,700
Columbus.....	670	800	360	1,160
Craven.....	350	390	250	640
Cumberland.....	730	1,590	270	1,860
Currituck.....	90	100	100	200
Dare.....	100	110	80	190
Davidson.....	1,100	1,820	880	2,700
Davie.....	340	590	260	850
Duplin.....	500	640	440	1,080
Durham.....	700	1,060	440	1,500
Edgecombe.....	380	710	240	950
Forsyth.....	1,250	2,470	700	3,170
Franklin.....	400	370	260	630
Gaston.....	1,020	1,600	760	2,360
Gates.....	160	100	220	320
Graham.....	220	340	10	350
Granyville.....	470	740	200	940
Greene.....	170	140	150	290
Guilford.....	1,600	2,850	1,200	4,050
Halifax.....	430	520	480	1,000
Harnett.....	680	1,160	150	1,310
Haywood.....	850	1,370	300	1,670
Henderson.....	770	2,030	30	2,060
Hertford.....	200	100	220	320
Hoke.....	140	190	90	280
Hyde.....	70	60	90	150
Iredell.....	1,080	1,670	690	2,360
Jackson.....	500	590	280	870
Johnston.....	980	1,170	730	1,900

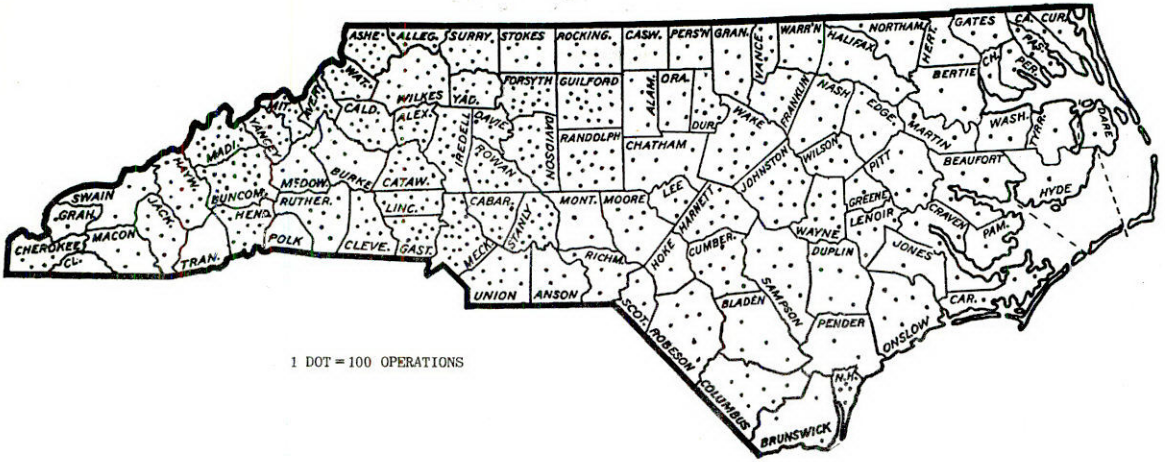
NUMBER OF HORSES, PONIES, AND OPERATIONS (Continued)

County	Operations	Horses	Ponies	Horses and Ponies
Jones.....	130	140	130	270
Lee.....	280	350	210	560
Lenoir.....	430	520	370	890
Lincoln.....	560	770	500	1, 270
McDowell.....	400	480	270	750
Macon.....	280	420	190	610
Madison.....	950	1, 090	380	1, 470
Martin.....	250	240	270	510
Mecklenburg.....	1, 770	2, 970	990	3, 960
Mitchell.....	390	520	170	690
Montgomery.....	240	250	250	500
Moore.....	630	1, 250	540	1, 790
Nash.....	470	590	390	980
New Hanover.....	400	600	230	830
Northampton.....	290	210	370	580
Onslow.....	550	650	450	1, 100
Orange.....	450	860	230	1, 090
Pamlico.....	120	100	140	240
Pasquotank.....	280	460	240	700
Pender.....	240	260	140	400
Perquimans.....	150	200	260	460
Person.....	330	350	210	560
Pitt.....	640	670	650	1, 320
Polk.....	290	460	260	720
Randolph.....	1, 290	1, 920	1, 060	2, 980
Richmond.....	360	400	280	680
Robeson... ..	790	990	630	1, 620
Rockingham.....	820	1, 190	500	1, 690
Rowan.....	940	1, 310	830	2, 140
Rutherford.....	710	840	640	1, 480
Sampson.....	580	580	510	1, 090
Scotland.....	190	310	90	400
Stanly.....	950	1, 100	880	1, 980
Stokes.....	590	790	380	1, 170
Surry.....	690	1, 050	310	1, 360
Swain.....	270	330	130	460
Transylvania.....	240	330	220	550
Tyrrell.....	80	100	90	190
Union.....	900	1, 270	810	2, 080
Vance.....	350	330	340	670
Wake.....	1, 110	2, 100	680	2, 780
Warren.....	190	200	150	350
Washington.....	160	230	140	370
Watauga.....	720	930	380	1, 310
Wayne.....	680	730	510	1, 240
Wilkes.....	960	1, 390	590	1, 980
Wilson.....	400	470	290	760
Yadkin.....	590	810	310	1, 120
Yancey.....	470	620	220	840
STATE TOTAL.....	53, 200	76, 300	36, 700	113, 000

HORSES AND PONIES BY COUNTIES



NUMBER OPERATIONS WITH HORSES AND PONIES



SURVEY PROCEDURE

The sampling plan for this survey utilized a multiple frame approach. Basically, this included (1) a list of owners and operators and (2) areas of land in the State. The data collected from these two methods were merged and expanded to State estimates. The estimates were statistically analyzed and coefficients of variation computed.

All estimates at the State level in this study were obtained by probability sampling. County allocations of the number of horses and ponies are based primarily upon the results of VEE vaccination program.

For the survey, the list of operators and owners was obtained with the assistance of many individuals and groups. These included Breed Associations, Riding Clubs, Horse Shows, County Extension offices, and other individuals with lists of horse owners. In addition, each practicing veterinarian in the State was asked to supply for his area a list of owners and operators that had 10 or more animals. The final list, after duplication was removed, contained more than 3,000 names. about 850 of these were reported to have 10 or more horses and ponies and were placed in a special stratum of large operators.

Every person on the list of 3,000 was mailed a questionnaire. Second and third mail requests were made of those that did not respond.

A 10 percent sample of non-respondents with less than 10 horses and ponies was selected and contacted by telephone or in person. Data from this sample was expanded to account for all non-respondents with less than 10 animals.

All persons on the special stratum list (10 or more horses and ponies) that did not respond by mail were contacted by telephone or in person.

The other part of the multiple frame sample plan was the land area survey. The North Carolina Crop Reporting Service maintains a sample of 400 scientifically selected segments of land which are randomly located throughout the State. These area segments are used periodically in the regular work

of the Service. For the horse and pony survey, an additional 100 segments were selected around the 10 largest metropolitan areas in the State. All together, 500 segments which contained on the average about 12 tracts of land each were used. The land area in each segment was known and expansion factors were computed to expand data to state totals.

Enumerators were employed to visit each segment and to complete a questionnaire for each tract of land in the segment on which horses and ponies were located. The survey was designed to account for all horses and ponies inside the segment boundaries, regardless of ownership.

After the data were collected for the land area phase of the survey, the names of the persons who had horses in the land segments were checked against all 3,000 names on the list frame. Names that appeared in both places were removed from the land area frame. Thus, the remaining names in the land area frame represented only operations of those persons not on the list.

Expansions based upon the land area frame, less duplication, were made by multiplying the sum of the data in each segment by the proper expansion factor. These expansion in turn were added to those from the list frame to provide estimates of state totals. The coefficient of variation for the total number of horses and ponies was about 7.5 percent.

After all data from the sample survey were collected, the decision was made that horses, ponies, and mules in N. C. would be vaccinated against Venezuelan Equine Encephalomyelitis. This program was conducted by the Animal and Plant Health Service, U. S. Department of Agriculture.

Approximately 119,000 equine were vaccinated of which 104,000 were horses and ponies. An estimated 90 to 95 percent of the total horses and ponies in the State were actually vaccinated. The vaccinated total supported the sample survey estimated at 113,000 extremely well.

FEDERAL-STATE CROP REPORTING SERVICE

United States Department of Agriculture
Statistical Reporting Service

North Carolina Department of Agriculture
Division of Agricultural Statistics

*P. O. Box 27767
Raleigh, North Carolina 27611*

