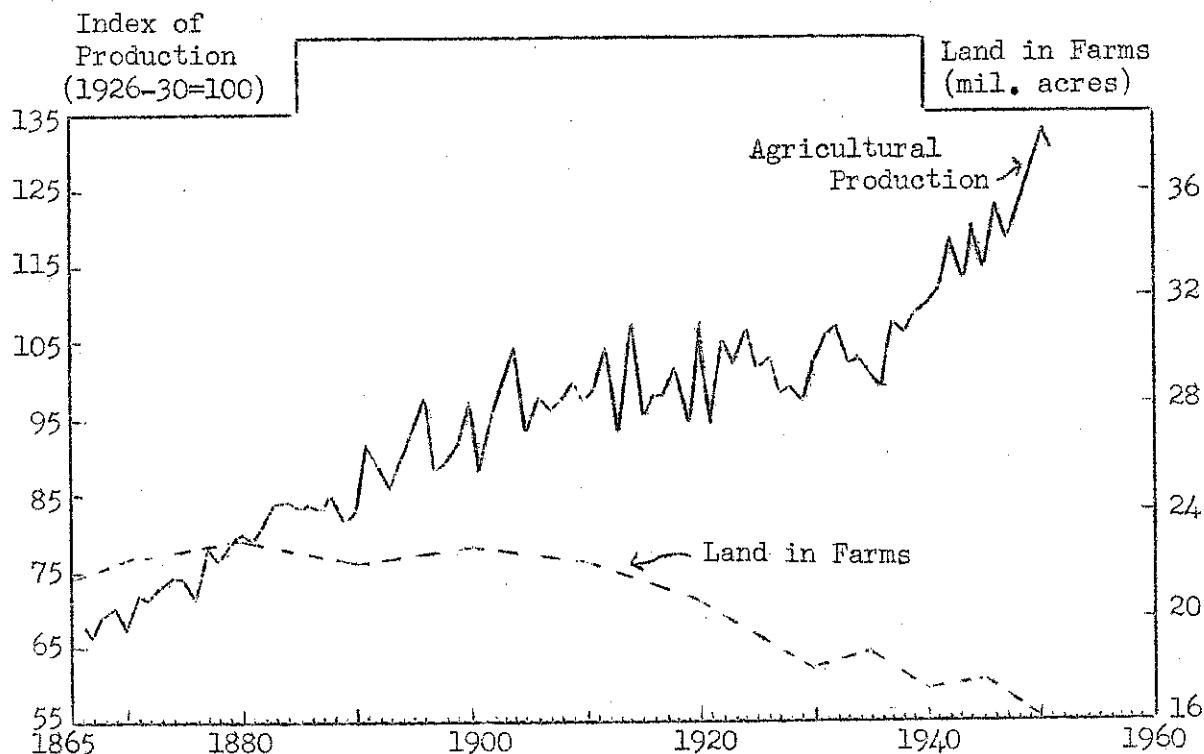


AGRICULTURAL PRODUCTION IN NEW YORK

1866 TO 1950

Note: This is an attempt to bring up to date information on long-time trends in agricultural production pending the revisions that may occur when the United States 1950 Census of Agriculture is completed. The tables and graphs presented here are revisions of those appearing in Exp. Sta. Bulletin No. 769 by T. E. LaMont.



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AGRICULTURAL PRODUCTION IN NEW YORK

The tables and graphs for "Agricultural Production in New York, 1866 to 1940", Bul. 769, by T. E. LaMont has been revised and brought up-to-date and is now awaiting final census data before revising the manuscript for reprinting. A few of the tables and most of the graphs are presented in this form to bring the trends of the past decade into the picture. Your suggestions regarding a revised bulletin on this subject after the recent U. S. Census of Agriculture is completed will be appreciated.

M. C. Bond

Table 1. CHANGE IN LAND IN FARMS IN NEW YORK STATE

Year	Farms		Land in Farms	Acres per Farm	Percentage of 1880	
	Number	Acres			No. of Farms	Land in Farms
1850	170,621	19,119,084	112	71	100	83
1860	196,990	20,974,958	106	82	100	92
1870	216,253	22,190,810	103	90	100	97
1880	241,058	22,900,000*	95	100	100	100
1890	226,223	21,961,562	97	94	100	96
1900	226,720	22,648,109	100	94	100	99
1910	215,597	22,030,367	102	89	100	96
1920	193,195	20,632,803	107	80	100	90
1925	188,754	19,269,926	102	78	100	84
1930	159,806	17,979,633	113	66	100	79
1935	177,025	18,685,741	106	73	100	82
1940	153,238	17,170,337	112	64	100	75
1945	149,490	17,568,471	118	62	100	77
1950 Prel.	124,977	16,016,721	128	52	100	70

*The 1880 census reported 23,780,754 acres of land in farms in New York State. This figure probably is between 750,000 and 1,000,000 acres too high because of the errors made in the enumeration of the census of 1880. See Twelfth Census of the United States, vol. 5, p. 19, 1900.

Table 2. TREND IN CROP YIELDS IN NEW YORK STATE

Period	Index (1866-75 = 100)							
	Potatoes	Wheat	Rye	Oats	Barley	Buck-wheat	Corn for Grain	Hay
1866-75	100	100	100	100	100	100	100	100
1876-85	87	109	101	98	102	90	95	100
1886-95	99	112	111	90	97	102	102	102
1896-1905	90	111	116	104	110	128	100	99
1906-15	108	125	128	104	119	125	111	100
1916-25	115	120	123	101	115	112	113	100
1926-35	128	119	124	97	113	116	106	106
1936-40	138	148	147	99	110	110	107	115
1936-45	151	148	144	98	110	115	111	121
1946-50	273	166	157	120	131	123	128	134

Table 3. TREND IN ACRES IN FARMS AND IN TOTAL AGRICULTURAL PRODUCTION OF NEW YORK STATE

Year	Acres in Farms (thousands)	Per cent Acreage is of 1900	Index* of Crop and Livestock Production of the State (1895-1904=100)	Index* of Production of Crops and Livestock per Acre in Farms (1895-1904 = 100)
1850	19,119	84	---	---
1860	20,975	93	---	---
1870	22,191	98	77	79
1880	22,900	101	83	82
1890	21,962	97	91	94
1900	22,648	100	100	100
1910	22,030	97	104	107
1920	20,633	91	106	116
1925	19,270	85	110	129
1930	17,980	79	106	134
1935	18,686	83	108	130
1940	17,170	76	115	151
1945	17,568	78	125	160
1950 Prel.	16,017	71	133	187

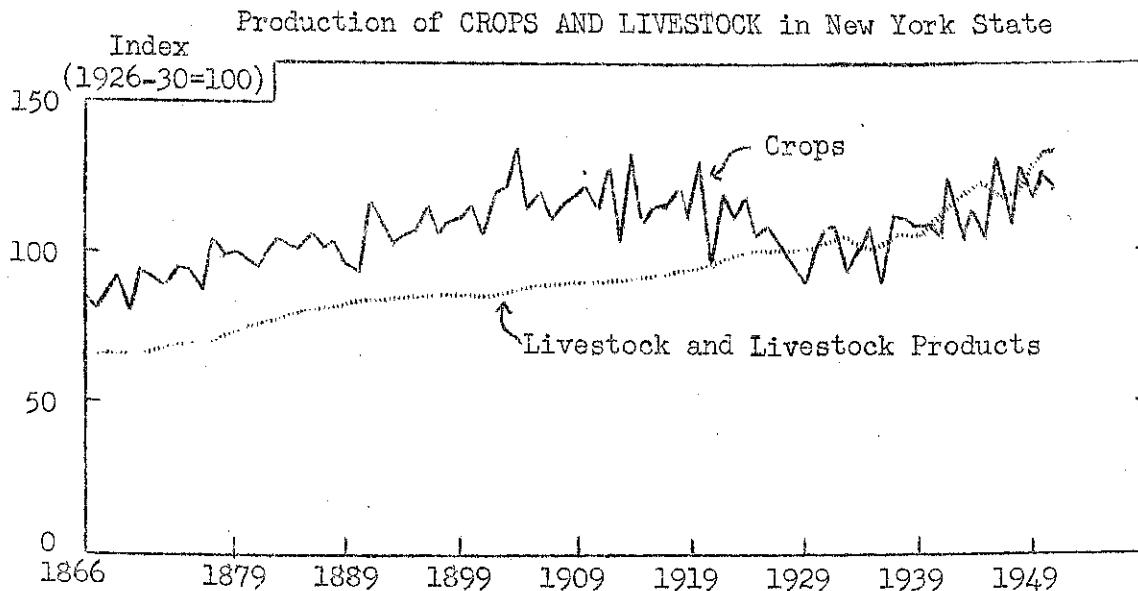
*Both the index of total production and the index of production per acre in farms are 10-years averages, with the census as the sixth year, except for 1925, through 1950 which are five-years averages, with the crop year preceding the census as the middle year.

See footnote to table I.

Table 4. TOTAL PRODUCTION PER MAN ON NEW YORK FARMS

Period	Number Engaged in Agriculture*	Index of Number of Workers (1900=100)	Index of Crop and Livestock Production of the State (1895-1904=100)	Index of Production per Man (1895-1904 = 100)
1865-1874	374,323	100	77	77
1875-1884	377,460	100	83	83
1885-1894	397,541	106	91	86
1895-1904	375,990	100	100	100
1905-1914	378,657	101	104	103
1915-1924	314,774	84	106	126
1925-1934	267,373	71	108	152
1935-1944	210,434	56	116	207
1945-1954				

*The number of gainful workers, 10 years old or older, engaged in agriculture, as reported by the federal census for the middle year of the period. As a check on the trend in number of workers in agriculture, these data were compared with the trend in number of farm operators plus the amount of hired labor. The equivalent number of years of hired labor was obtained by dividing the wages paid labor, as reported by the censuses since 1899, by the wages for that year. The trend in number of farm operators plus the number of hired men on a 12-months basis showed a slightly greater decrease since 1900 than did the trend in the number of workers in agriculture as given in the above table. On this basis, the index of production per man for 1926 to 1936 was 149.



The production of different crops and the production of livestock are combined on the basis of gross income and presented as index numbers in Table 5. Crops were weighted according to the amount sold plus that used in the operator's household. The proportion fed to livestock on the farm was not included since this appears in the total index as income from livestock. Since nearly 3/4 of the gross farm income for the state is from livestock and livestock products, the combined index of total agricultural production for New York follows rather closely the index of livestock production.

Crop production declined from the middle 1920's to the middle 1930's, but during the late '40's regained the high levels of the years before World War I. In contrast, livestock production has continued upward reaching an all-time high in 1950.

Table 5. INDICES OF THE TOTAL PRODUCTION ALL CROPS AND LIVESTOCK
IN NEW YORK STATE (1926-30=100)

Year	All			Year	All		
	All Crops	All Livestock	Crops and Livestock		All Crops	All Livestock	Crops and Livestock
1866	87	65	68	1910	122	88	97
1867	81	65	66	1911	114	89	99
1868	87	65	69	1912	128	90	105
1869	91	65	70	1913	103	91	93
				1914	133	91	108
1870	80	65	67				
1871	94	66	72	1915	109	91	95
1872	91	67	71	1916	115	92	98
1873	88	68	73	1917	115	92	98
1874	96	68	74	1918	120	93	102
				1919	110	94	94
1875	94	68	74				
1876	87	69	71	1920	132	94	108
1877	106	70	78	1921	94	95	94
1878	98	72	76	1922	120	97	105
1879	101	73	79	1923	111	99	102
				1924	119	101	107
1880	99	75	80				
1881	95	76	79	1925	106	100	101
1882	102	77	81	1926	108	99	103
1883	105	78	84	1927	103	99	98
1884	102	79	84	1928	99	100	99
				1929	91	100	97
1885	101	80	83				
1886	107	80	84	1930	100	101	103
1887	101	80	82	1931	108	104	106
1888	104	81	85	1932	108	104	107
1889	96	83	81	1933	93	104	102
				1934	102	101	103
1890	94	83	83				
1891	116	84	92	1935	109	99	101
1892	111	84	89	1936	89	103	99
1893	103	84	86	1937	112	106	108
1894	106	84	90	1938	112	104	106
				1939	107	106	109
1895	107	84	93				
1896	115	85	98	1940	109	111	110
1897	106	85	88	1941	105	113	112
1898	110	85	89	1942	124	116	119
1899	111	84	92	1943	103	118	113
				1944	112	122	121
1900	116	84	98				
1901	105	84	88	1945	103	122	114
1902	119	85	95	1946	130	118	123
1903	122	86	100	1947	109	120	118
1904	134	87	105	1948	128	120	123
				1949	116	127	127
1905	113	87	93				
1906	120	88	98	1950	125	132	133
1907	111	89	96	1951	121	132	130
1908	116	89	97	1952			
1909	118	89	100	1953			

Table 6. FRUITS AND VEGETABLES - NEW YORK

Commodity	Index of Production (1926-30=100)		
	10-Year Average 1940-49		1950
<u>Fruits:</u>			
Apples	72		96
Cherries	123		203
Grapes	68		132
Peaches	84		67
Pears	62		77
	For Market	For Processing	For Market
<u>Vegetables:</u>			
Lima Beans	741		885
Snap Beans	1,015	236	943
Beets		447	472
Cabbage	101*	137	137*
Cantaloupes	123		78
Carrots	177		195
Cauliflower	262		427
Celery	94		79
Sweet Corn	178	151	214
Cucumbers	105	173	119
Lettuce	72		84
Onions	204		246
Green Peas	70	114	33
Spinach	126		110
Strawberries	104		117
Tomatoes	357	218	339
Total (excl. potatoes)		141*	257
			167*
Potatoes	125		134

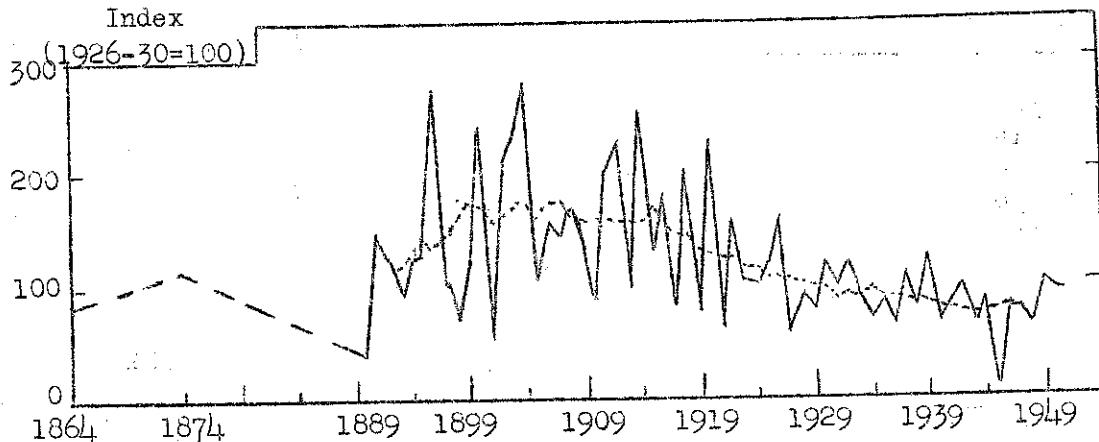
*Includes both market and processing.

/ 1929-30=100.

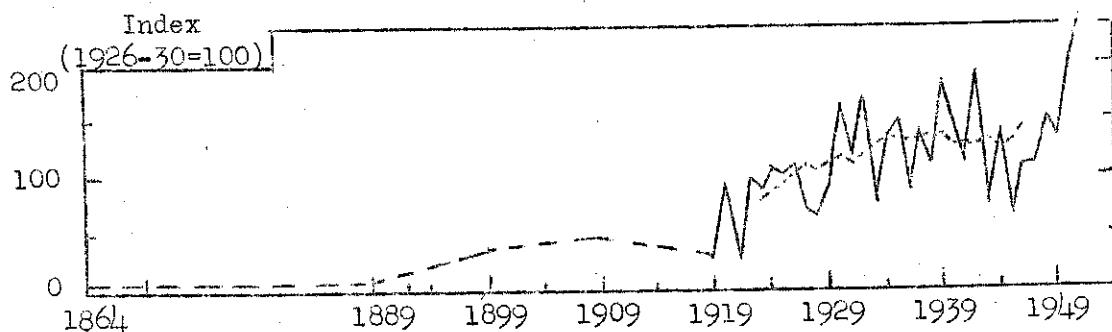
The long-time trend of vegetable production is shown in graphs on the following pages. The level of production in 1950 and for the previous ten years is shown by the index numbers in the table above. Snap beans showed the greatest increase over the base period (1929-30=100), lima beans, cauliflower, onions, sweet corn and carrots show substantial increase. Peas for market and processing show the greatest decrease in production.

TRENDS IN PRODUCTION OF FRUITS
1866 - 1950 -- New York

Production of Apples in New York State



Production of Cherries in New York State



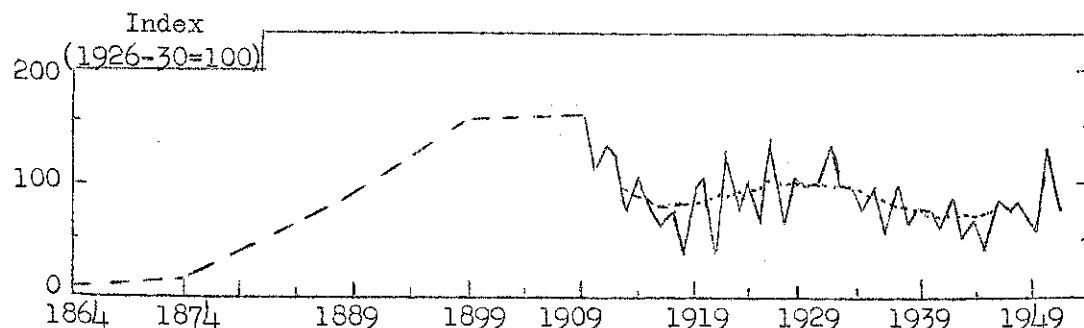
— Yearly Production
.... Ten Year Moving Average

The production of fruit shows wide variations from year to year. Except for cherries, the trend of production for tree fruits in New York has been downward for two decades or more.

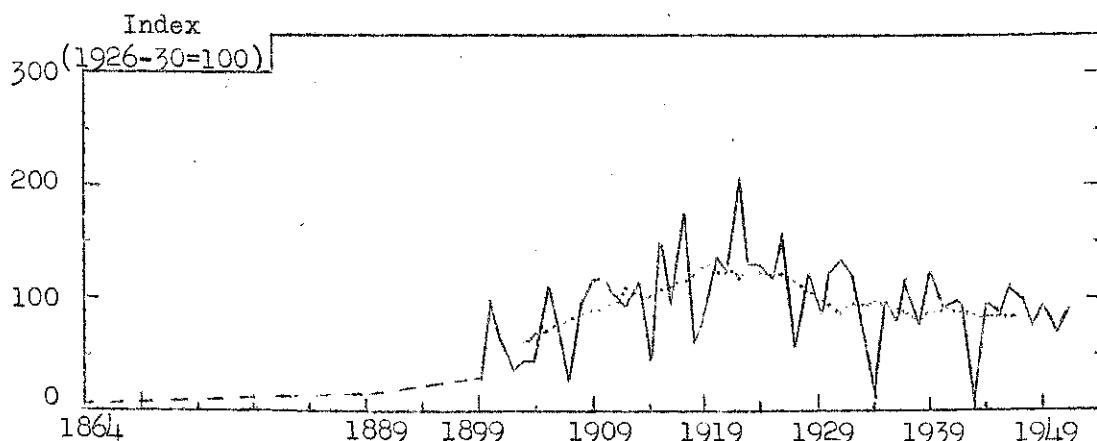
For the most recent ten year period (1940-49), New York apple production was 25 per cent below production in the base period (1926-30). Peach production was off 18 per cent; pears down 39 per cent; grapes down 30 per cent. Cherry production in the last ten years was 29 per cent above the production of the late 1920's.

New York apple production has been gradually declining since about the turn of the century. Cherry production has increased more than any other tree fruit with prospects of still more expansion. The production of pears has shown the greatest decline but peaches, pears, and grapes have trended downward since the 1920's.

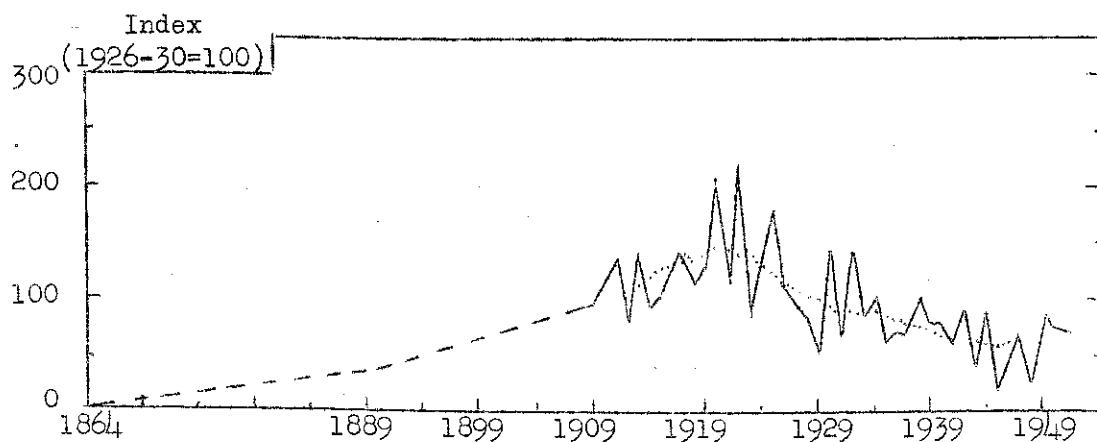
Production of Grapes in New York State



Production of Peaches in New York State



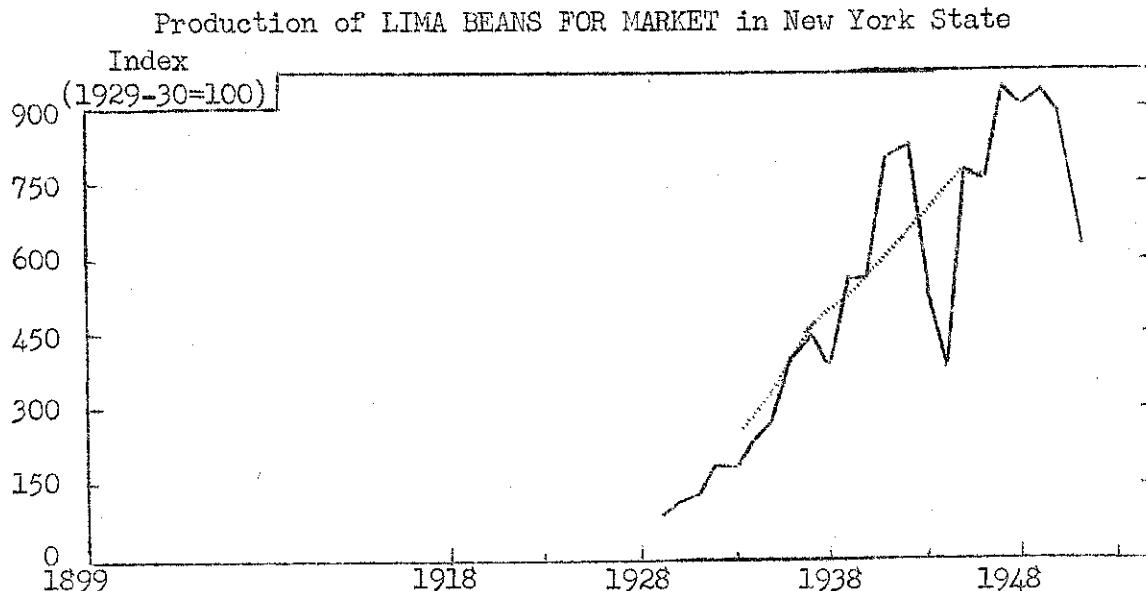
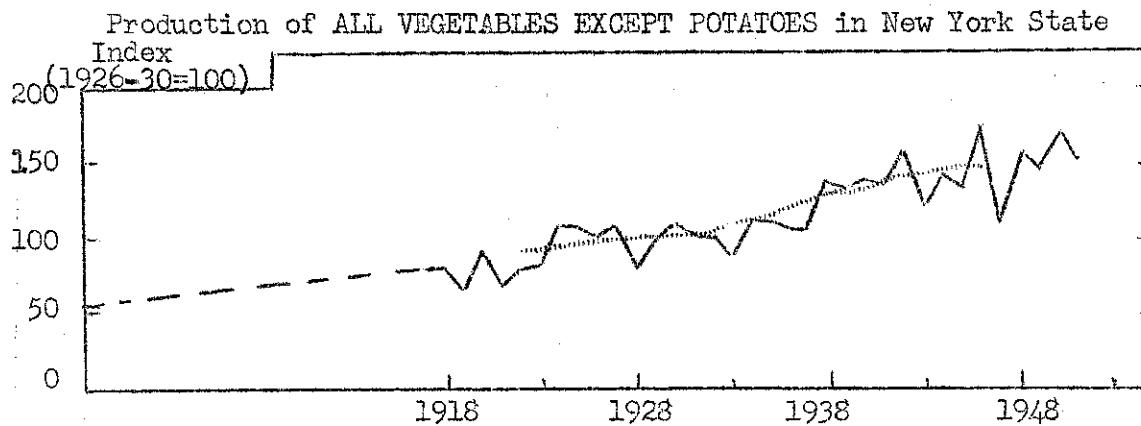
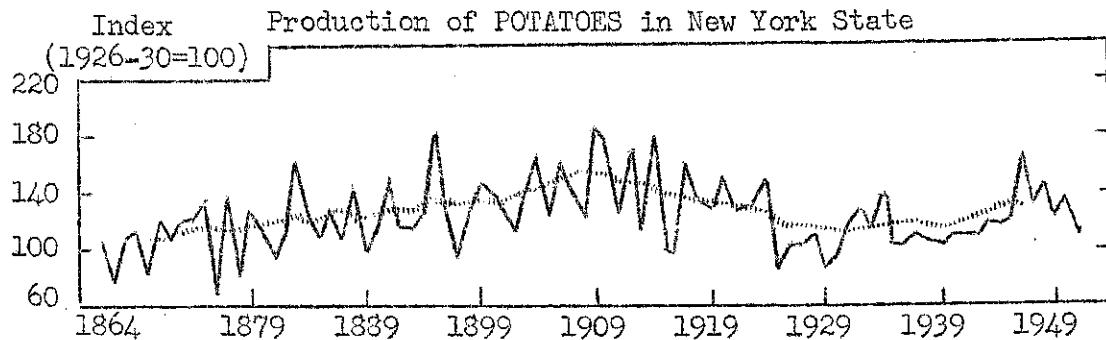
Production of Pears in New York State



— Yearly Production
- - - - - Ten Year Moving Average

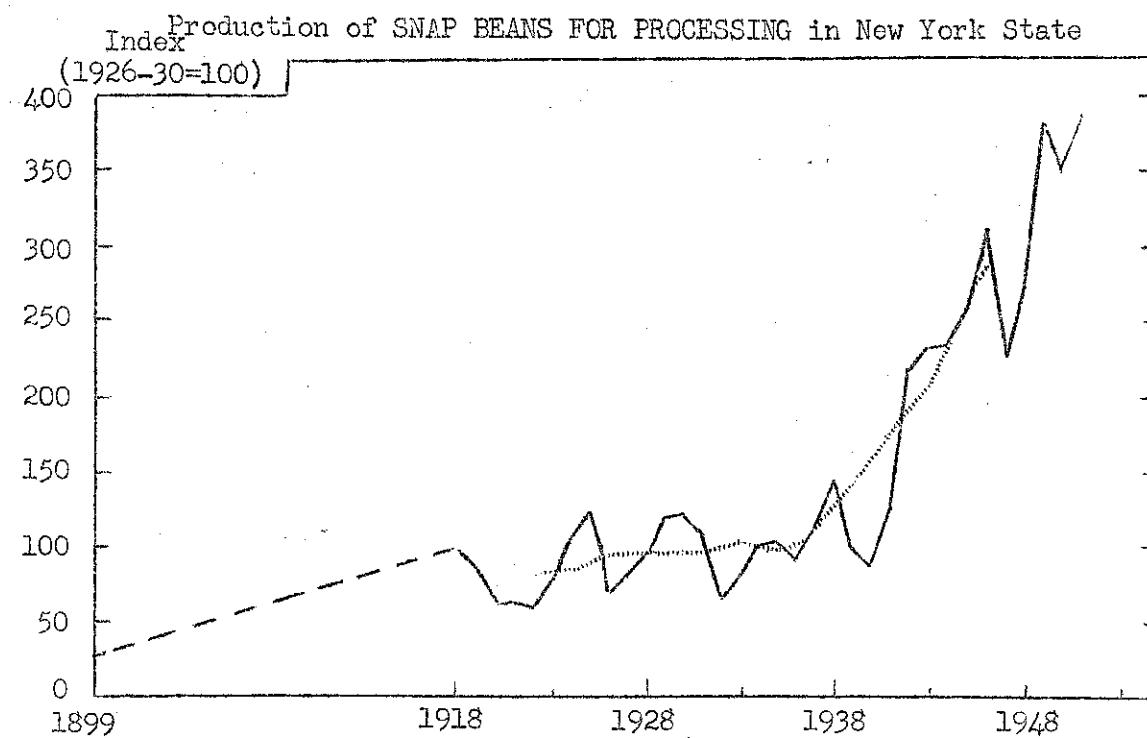
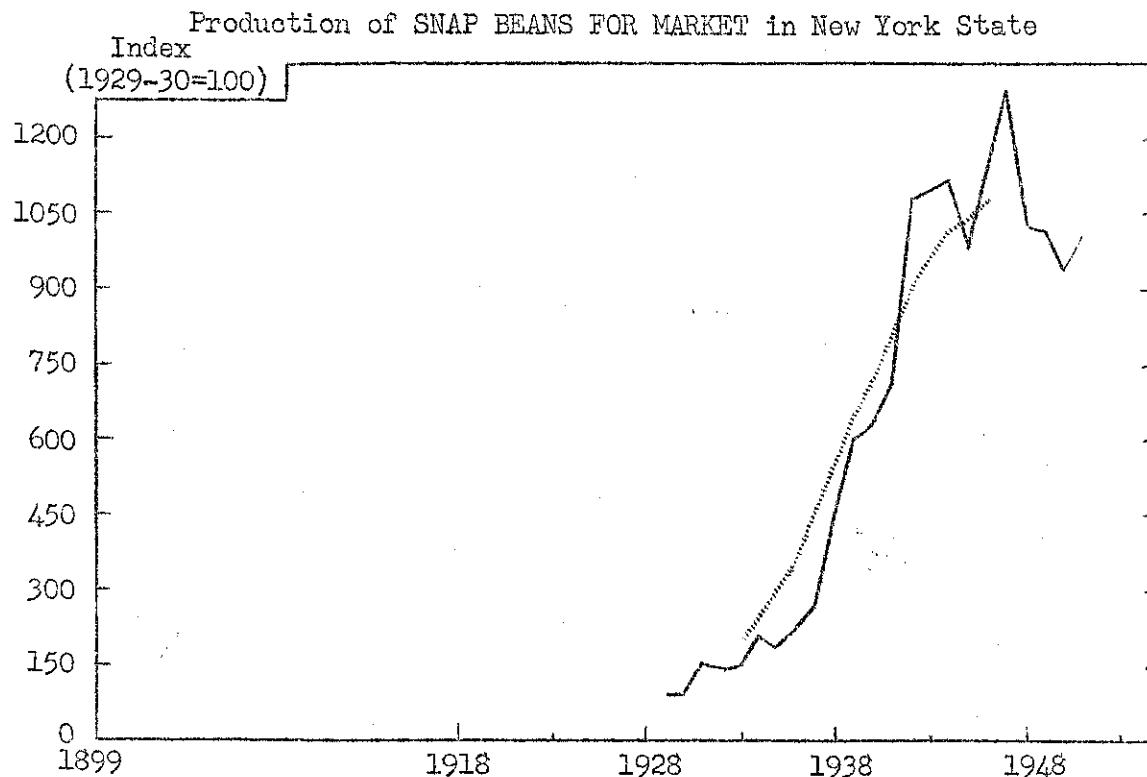
TRENDS IN PRODUCTION OF VEGETABLES
1864 - 1950 — New York

POTATOES
OTHER VEGETABLES
LIMA BEANS



— Yearly Production
— Ten Year Moving Average

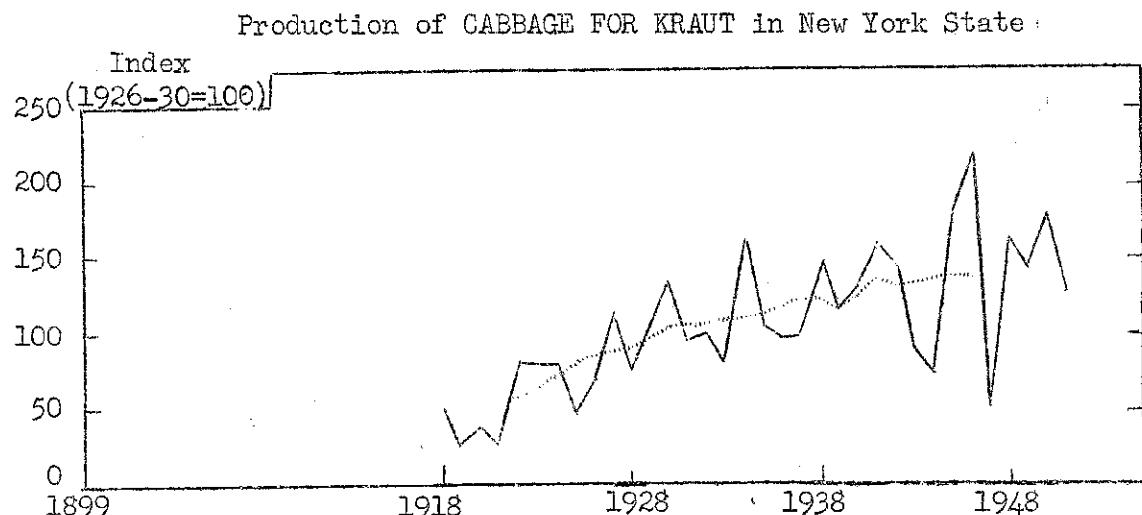
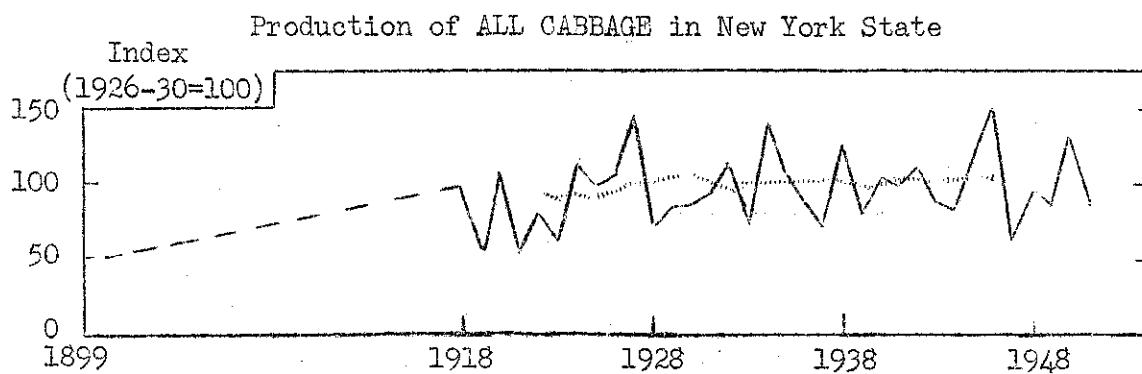
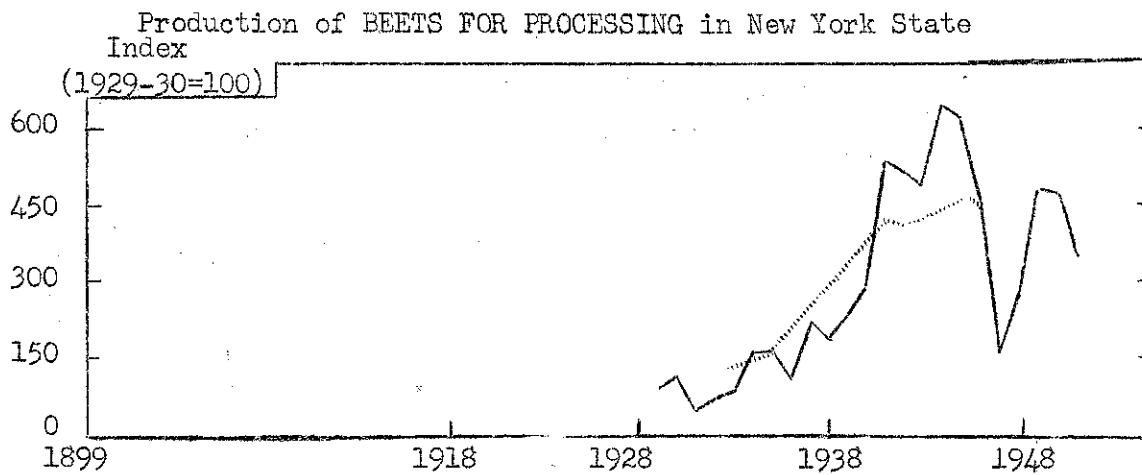
TRENDS IN PRODUCTION OF VEGETABLES (Cont.)
1899 - 1950 --- New York



— Yearly Production

····· Ten Year Moving Average

TRENDS IN PRODUCTION OF VEGETABLES (Cont.)
1899 - 1950 -- New York

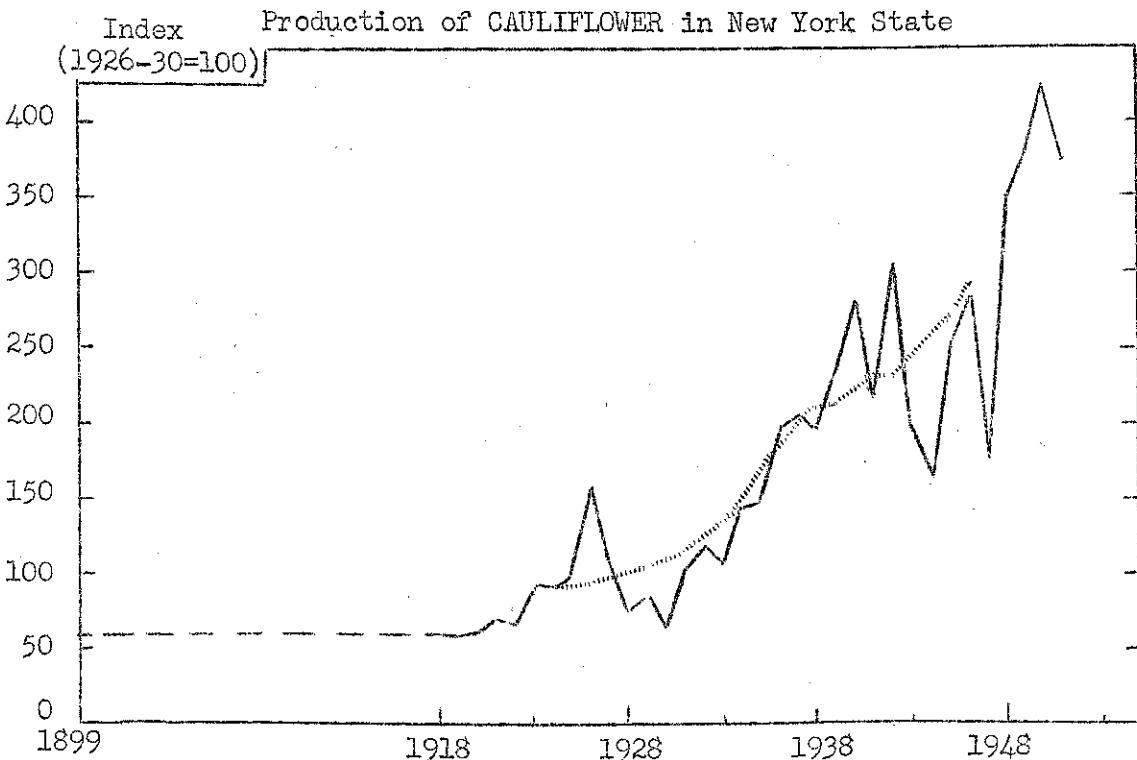
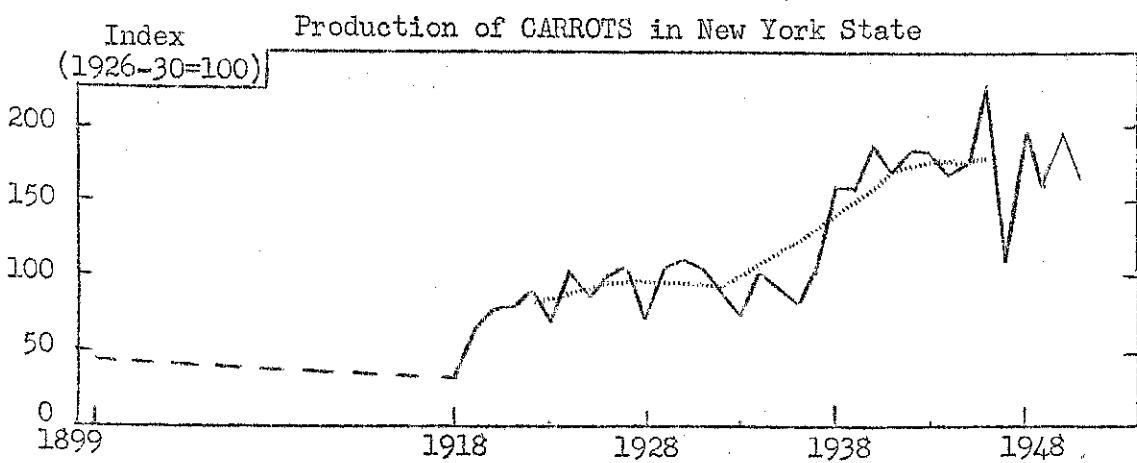
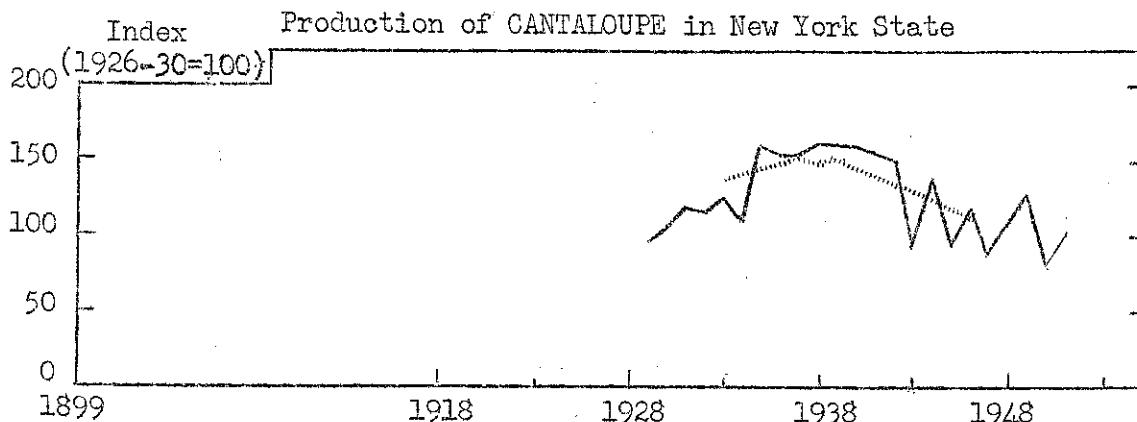


— Yearly Production

····· Ten Year Moving Average

- 11 -
TRENDS IN PRODUCTION OF VEGETABLES (Cont.)
1899 - 1950 -- New York

CANTALOUP
CARROTS
CAULIFLOWER

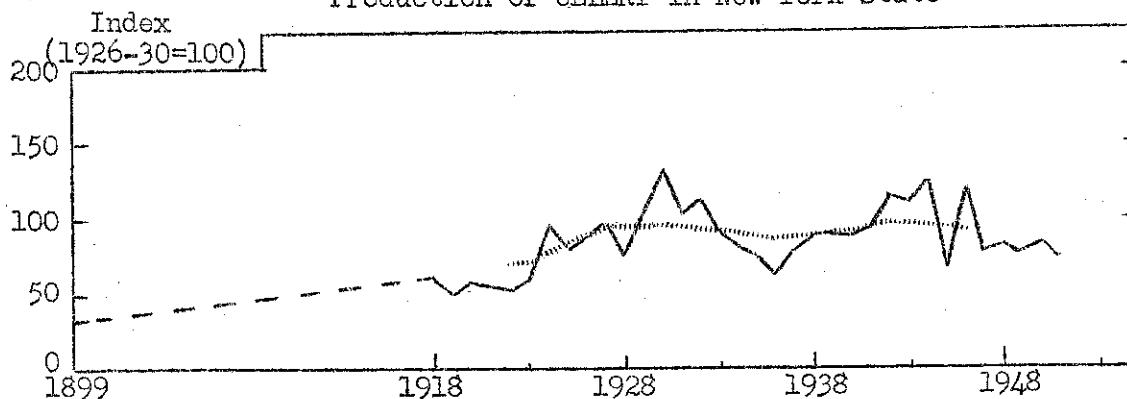


— Yearly Production
- - - Ten Year Moving Average

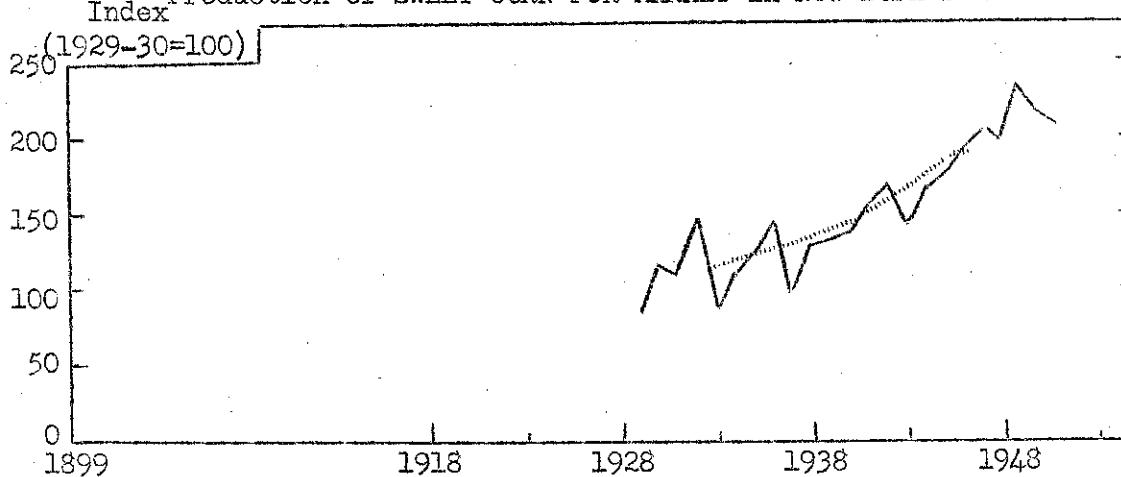
TRENDS IN PRODUCTION OF VEGETABLES (Cont.)

1899 - 1950 -- New York

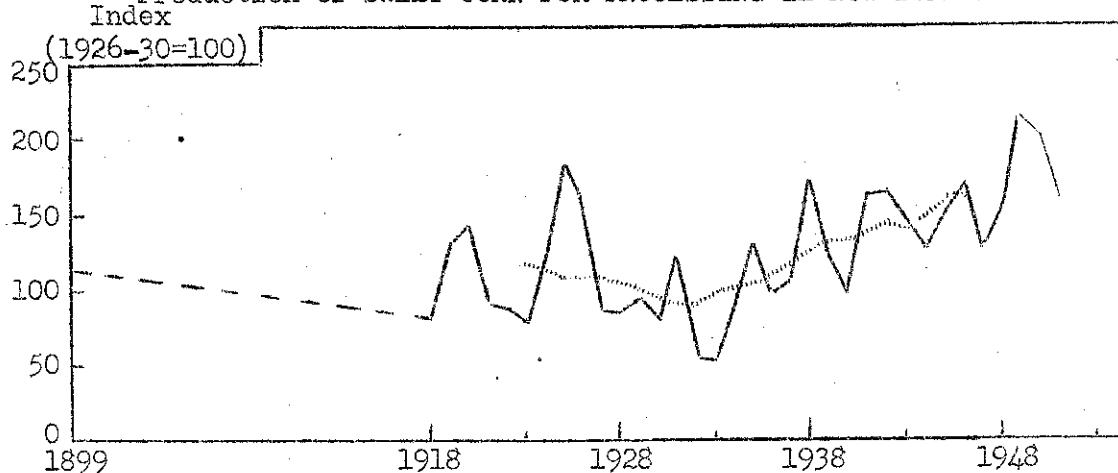
Production of CELERY in New York State



Production of SWEET CORN FOR MARKET in New York State



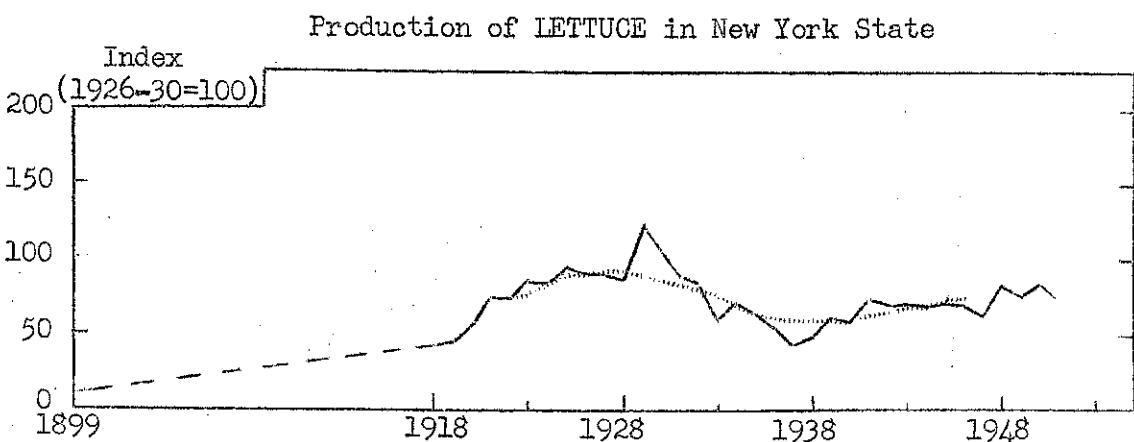
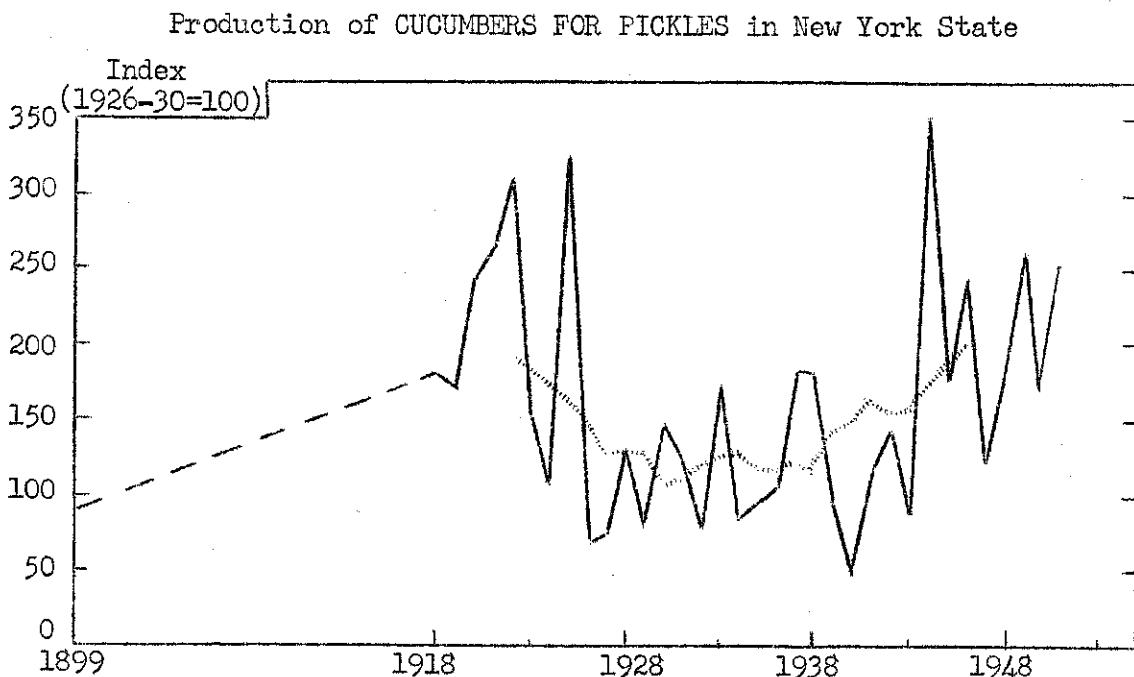
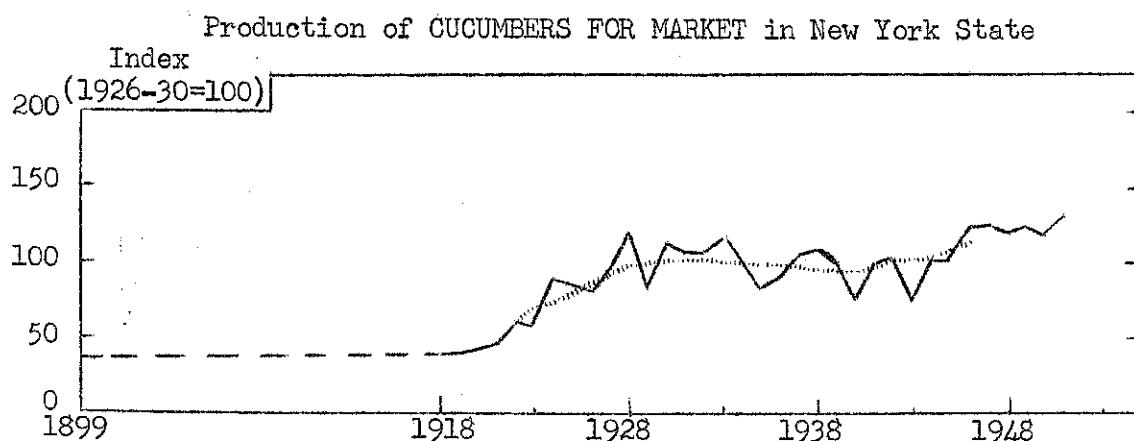
Production of SWEET CORN FOR PROCESSING in New York State



— Yearly Production

... Ten Year Moving Average

TRENDS IN PRODUCTION OF VEGETABLES (Cont.)
1899 - 1950 -- New York

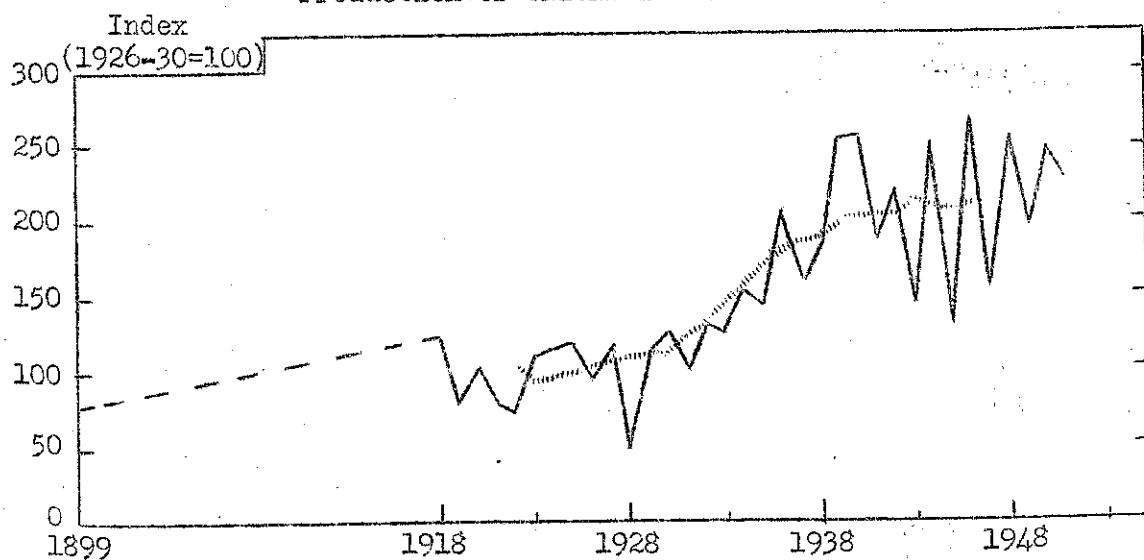


— Yearly Production

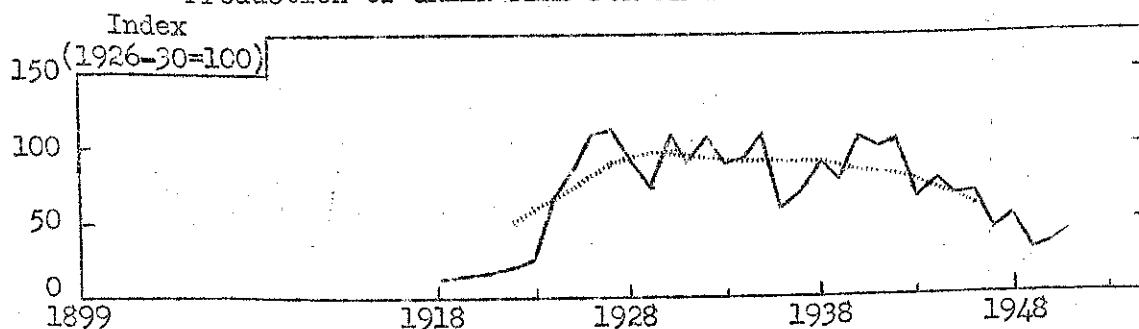
... Ten Year Moving Average

TRENDS IN PRODUCTION OF VEGETABLES (Cont.)
1899 - 1950 -- New York

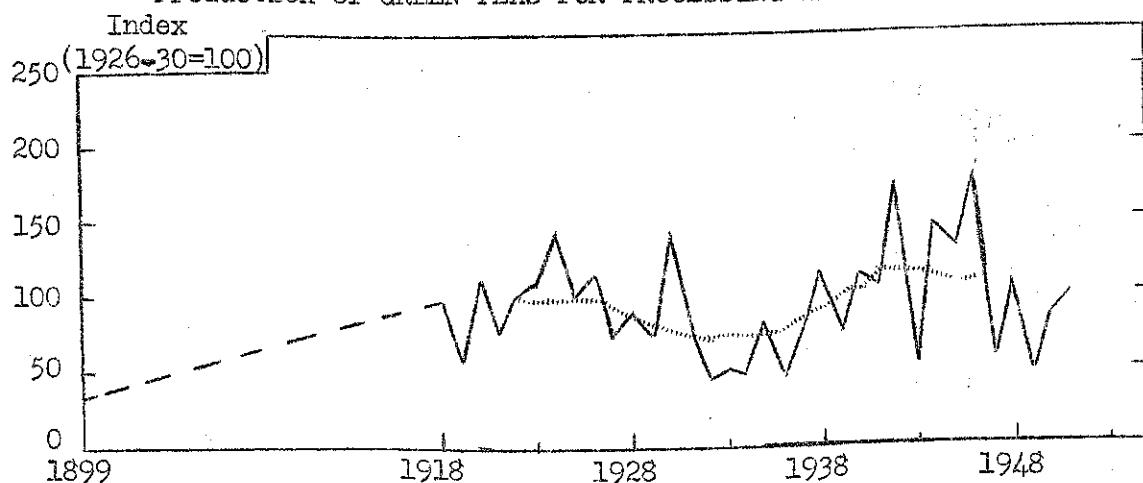
Production of ONIONS in New York State



Production of GREEN PEAS FOR MARKET in New York State

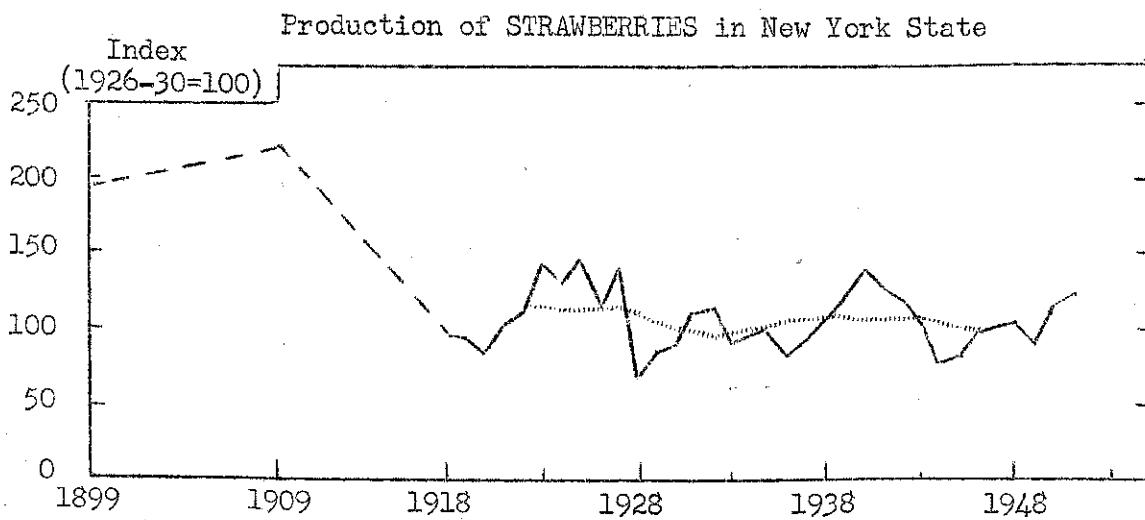
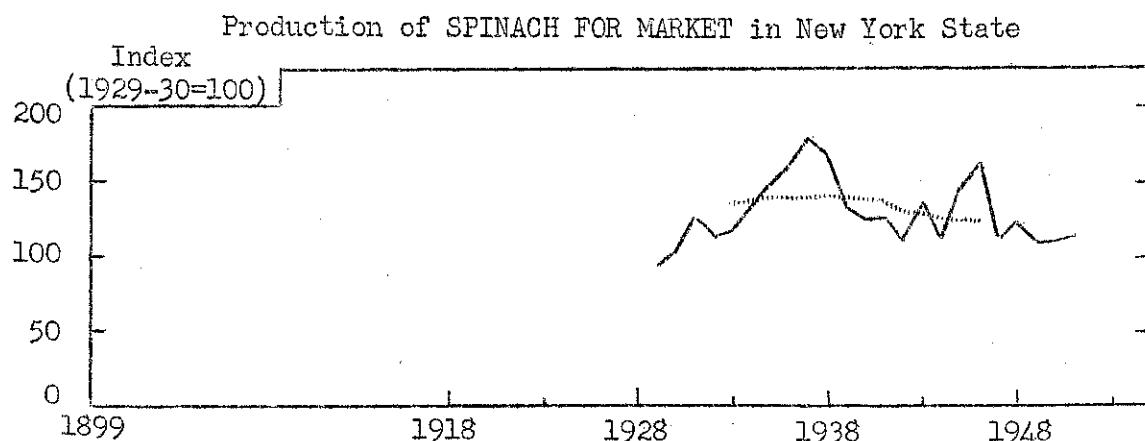


Production of GREEN PEAS FOR PROCESSING in New York State



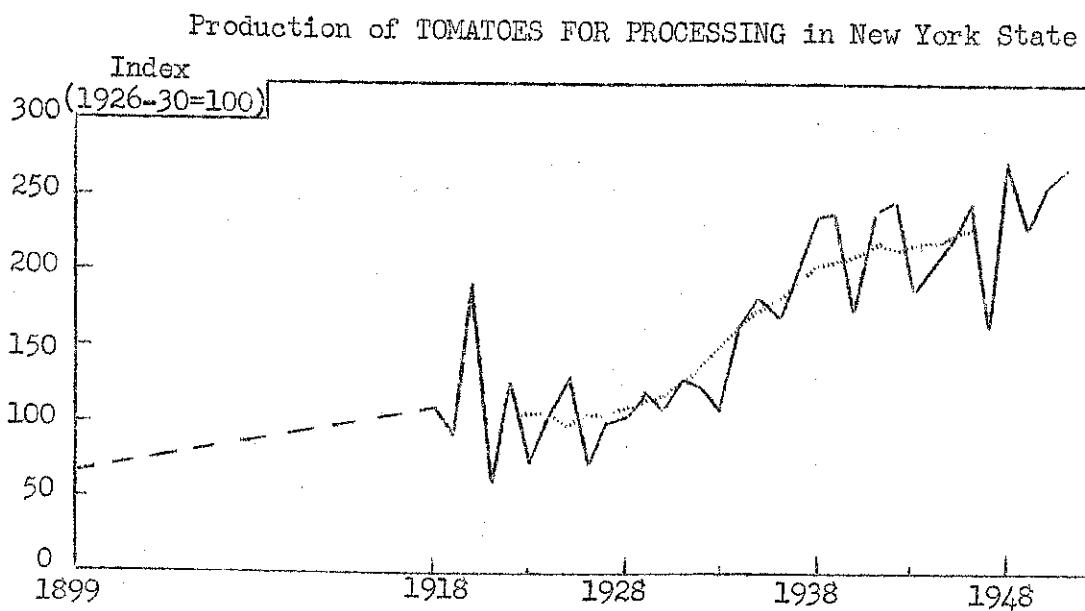
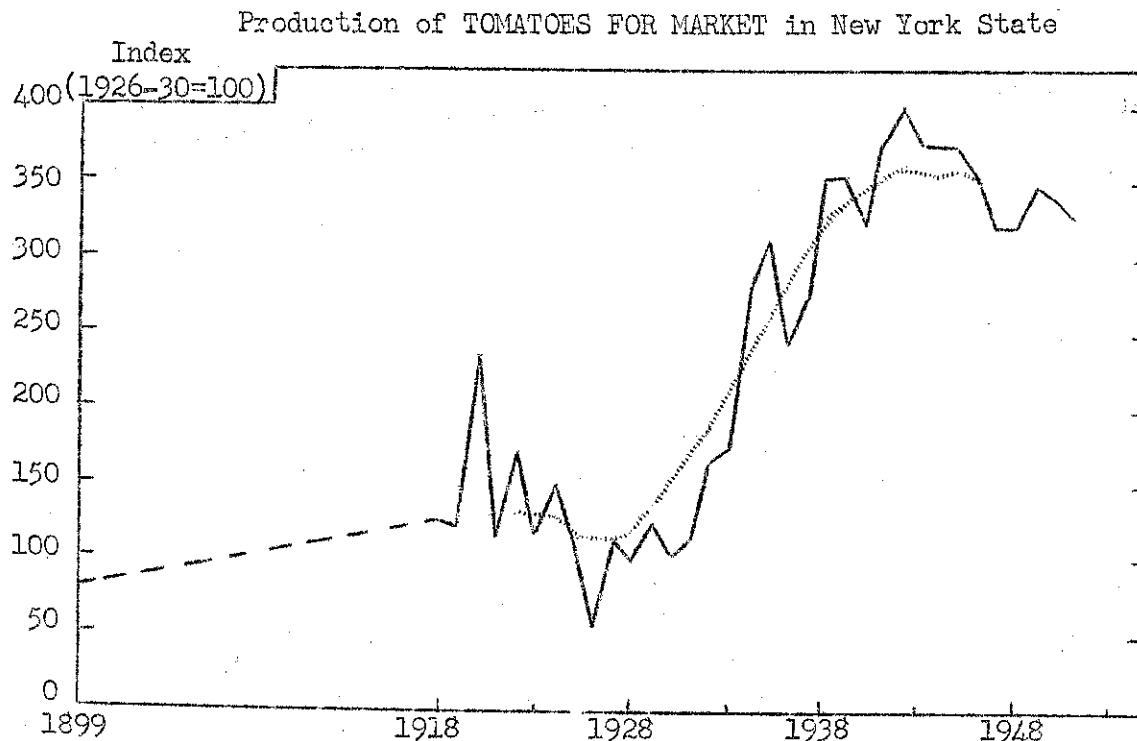
— Yearly Production
... Ten Year Moving Average

TRENDS IN PRODUCTION OF VEGETABLES (Cont.)
1899 - 1950 -- New York



— Yearly Production
····· Ten Year Moving Average

TRENDS IN PRODUCTION OF VEGETABLES (Cont.)
1899 - 1950 -- New York



— Yearly Production
- - - Ten Year Moving Average

Table 7. FIELD CROPS - NEW YORK

Crop	Index of Production (1926-30=100)		
	10-Year Average		1950
	1940-49		
<u>Grains:</u>			
Barley	54		54
Buckwheat	70		49
Corn for Grain	113		126
Oats	88		114
Rye	88		105
Wheat	177		240
Dry Beans	215		230
Tobacco	94		61
<u>Forage Crops:</u>			
Corn Silage	137		151
Tame Hay	110		101

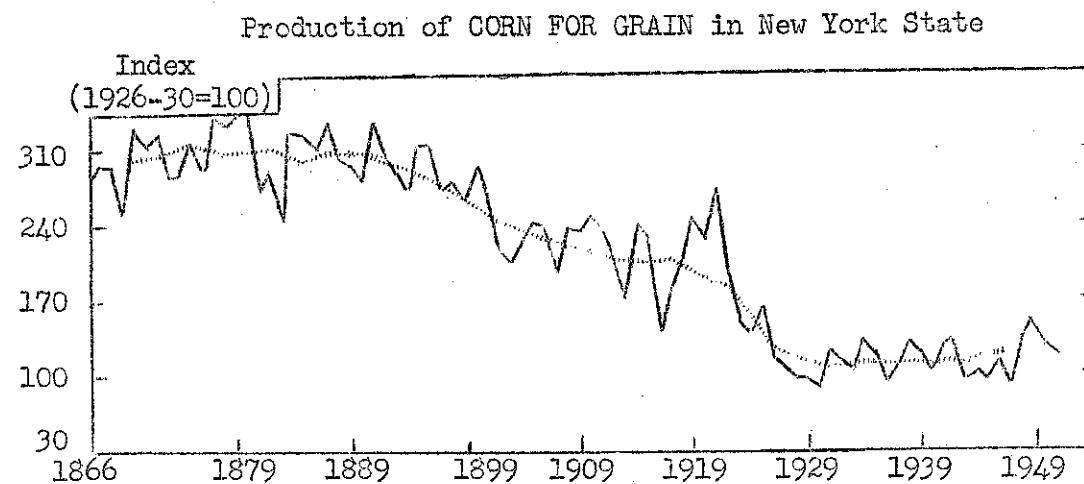
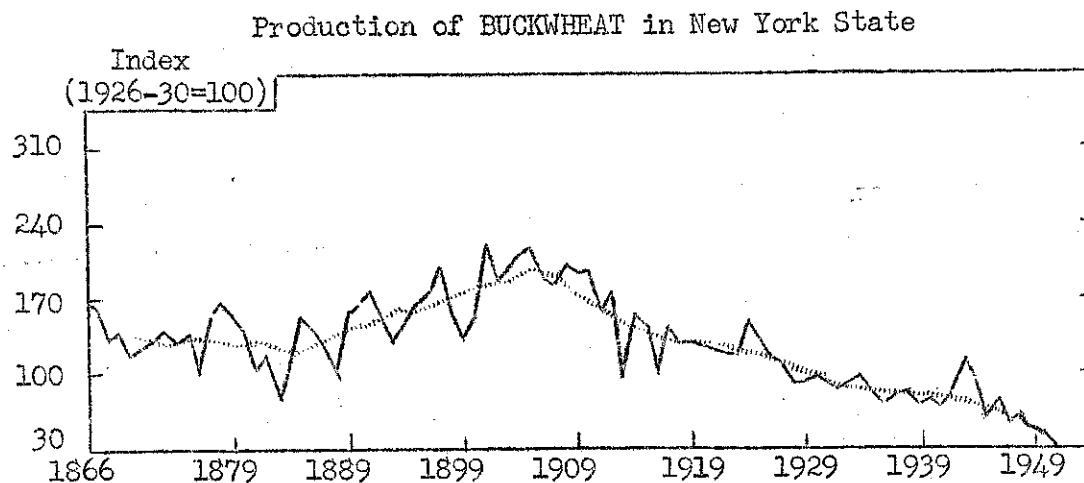
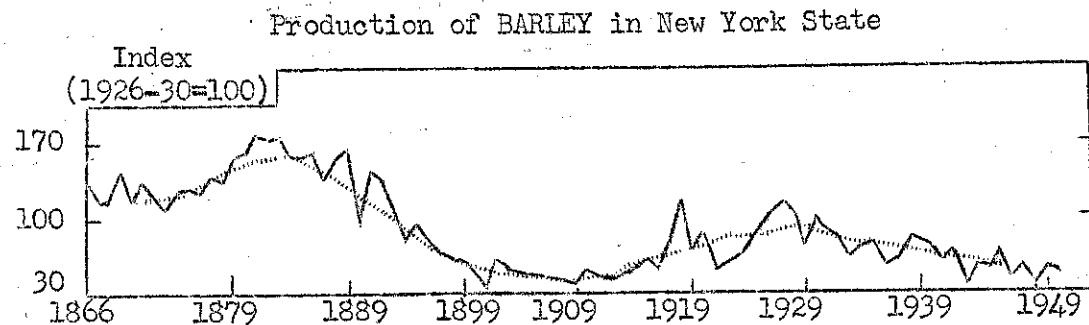
Grains - During the 1940's the production of wheat was 77% above the 1926-30 level. Corn for grain was up 13%, the production of oats and rye was 12% below the late '20's. Buckwheat was down 30% and barley, 46%.

Dry Bean production in 1940's was double that of the 1920's, but tobacco production was declining.

Forage crops - In the 1940's hay production averaged about 10% above the base period. Corn silage showed a much larger increase, 37%.

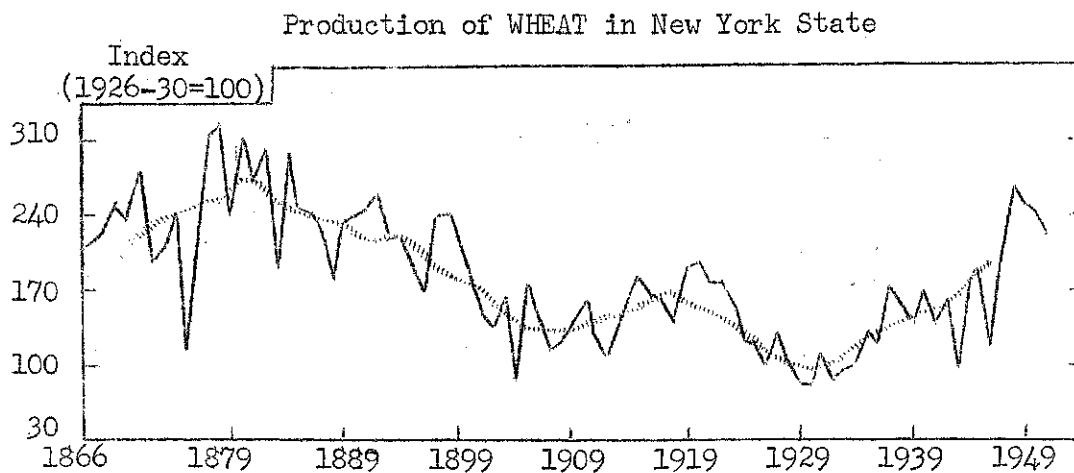
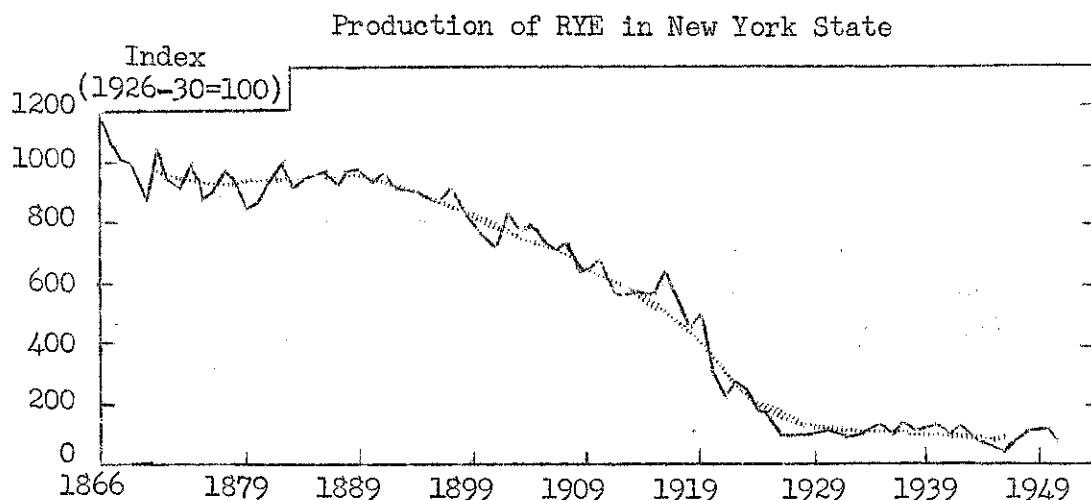
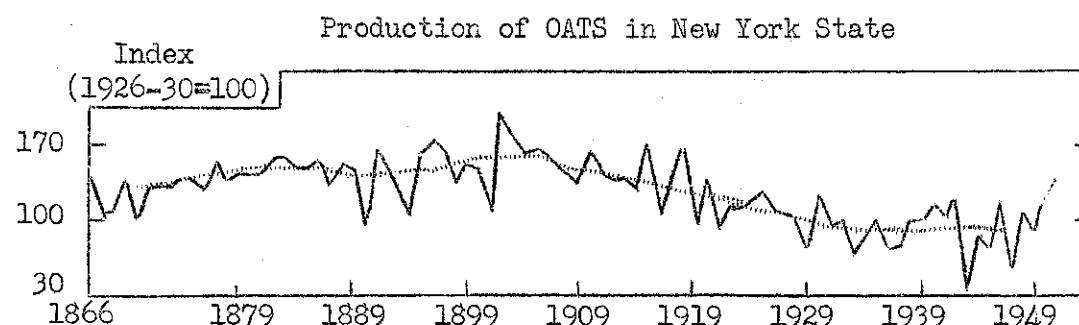
BARLEY
BUCKWHEAT
CORN FOR GRAIN

TRENDS IN PRODUCTION OF GRAINS
1866 - 1950 --- New York



— Yearly Production
---- Ten Year Moving Average

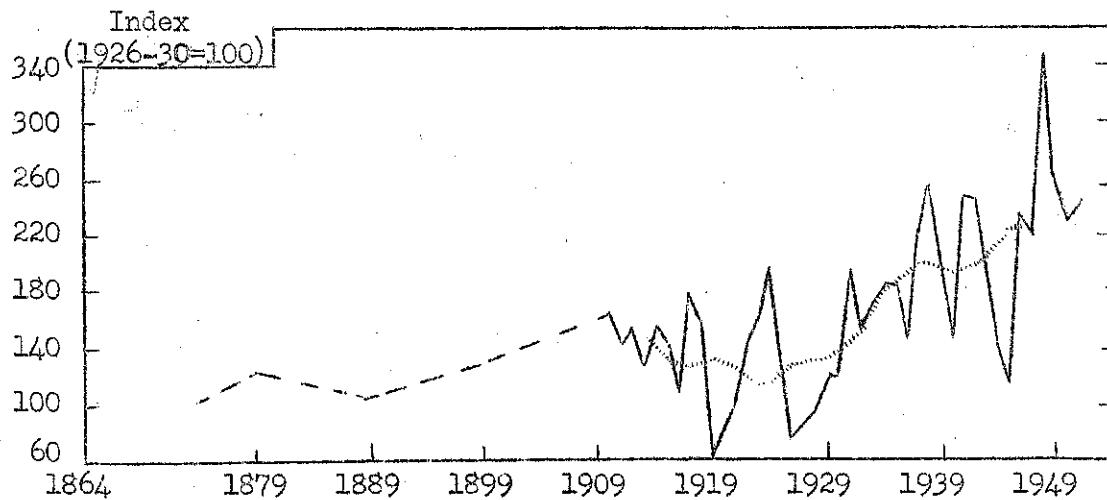
TRENDS IN PRODUCTION OF GRAINS (Cont.)
1866 - 1950 --- New York



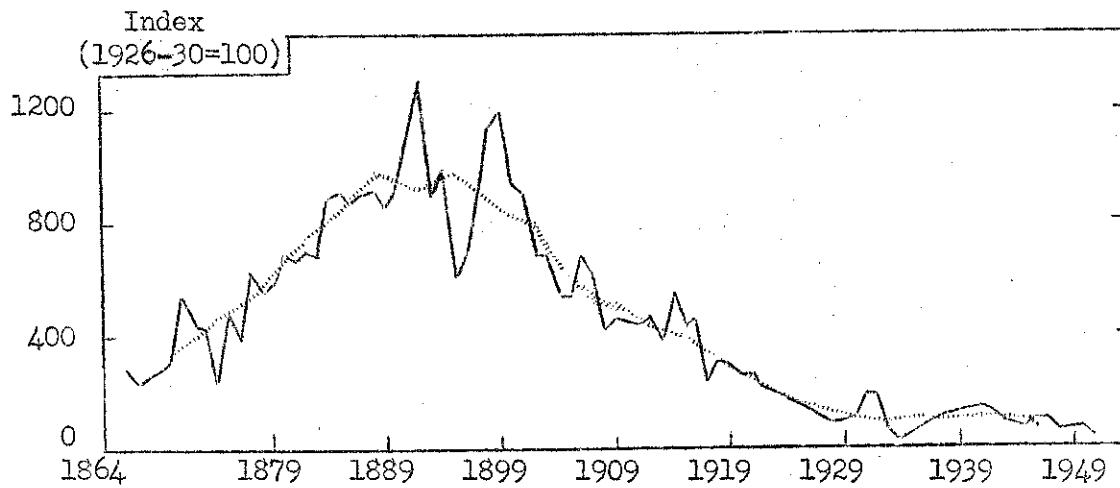
— Yearly Production
..... Ten Year Moving Average

TRENDS IN PRODUCTION OF DRY BEANS AND TOBACCO
1864 - 1950 --- New York

Production of DRY BEANS in New York State

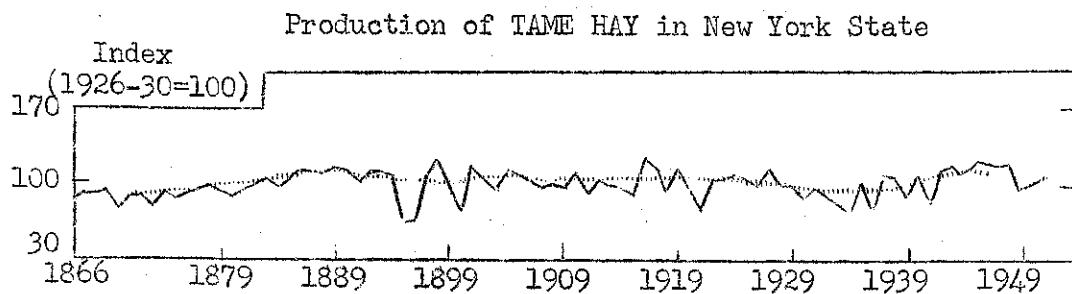
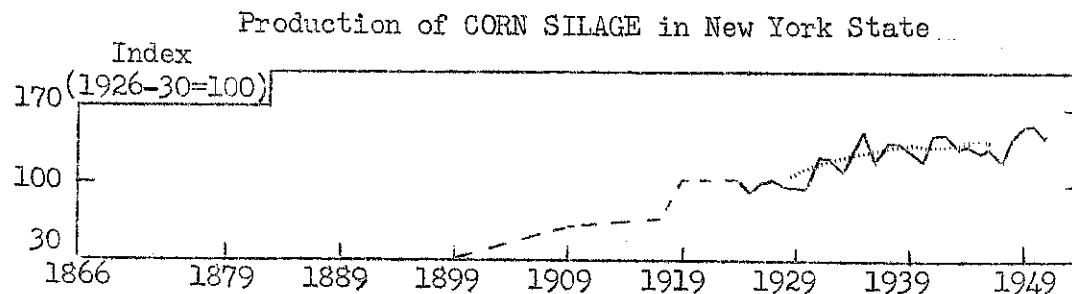


Production of TOBACCO in New York State



— Yearly Production
---- Ten Year Moving Average

TRENDS IN PRODUCTION OF FORAGE CROPS
1866 - 1950 -- New York



- Yearly Production
- Ten Year Moving Average

Table 8. LIVESTOCK AND LIVESTOCK PRODUCTS - NEW YORK

Item	Index (1926-30=100)	
	10-Year Average 1940-49	1950
<u>Number on Hand, Jan. 1:</u>		
Cattle and Calves	115	119
Hogs	101	76
Sheep	54	34
Chickens	114	126
<u>Production:</u>		
Milk	115	129
Eggs	147	175
Wool	52	35

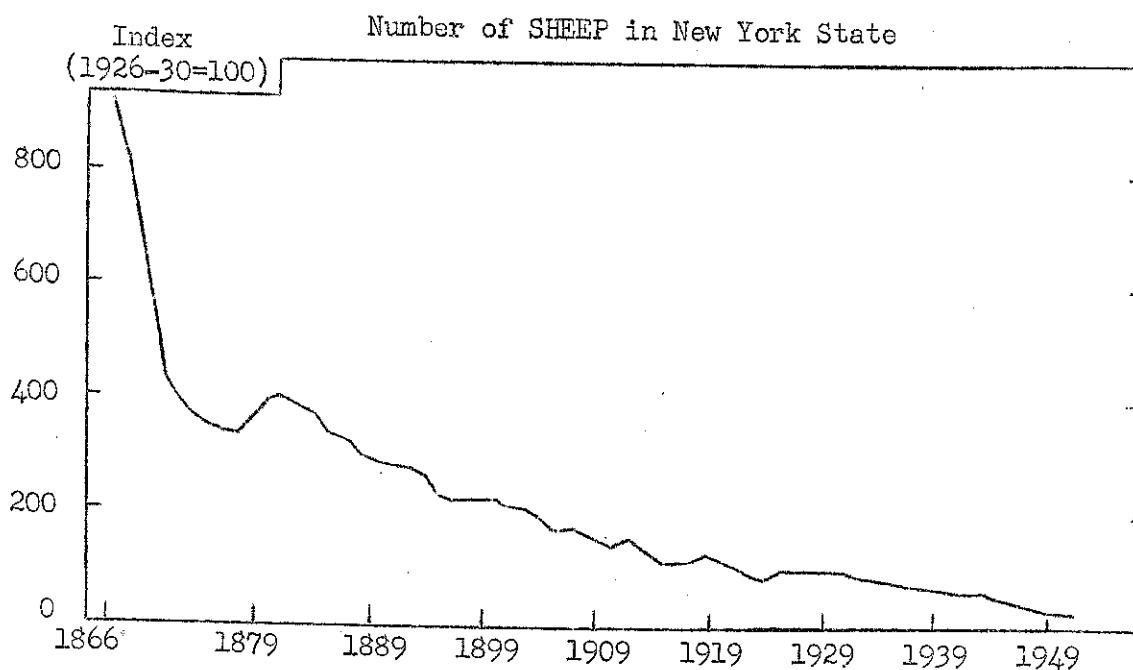
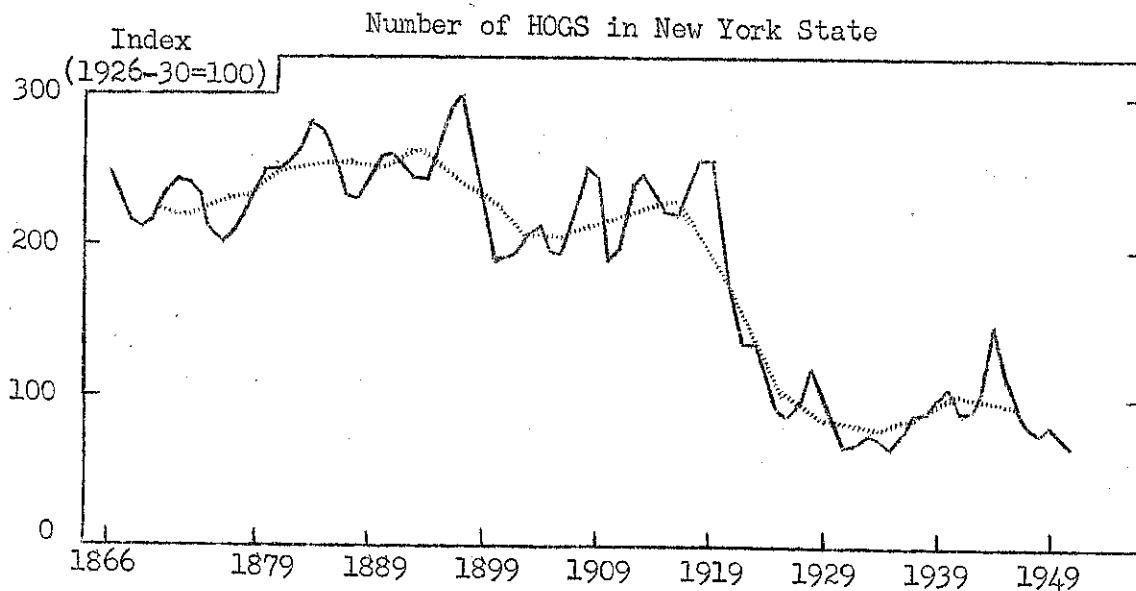
Livestock and Livestock Products - In the 1940's the number of cattle and chickens was about 15% larger than in the 1920's. The number of sheep had declined nearly one-half.

The number of cattle in New York shows both a long-time trend and a cyclical variation around this trend.

Production - Milk production in the 1940's was about 15% larger than in the late '20's and even higher in 1950. The production of eggs has shown even more increase. In the 1940's it was 47% above the base period and in 1950, 75%, an all-time high.

Wool production has continued to decline with the disappearance of sheep from New York farms. Production in the 1940's was about one-half of that in the 1920's and had dropped to nearly one-third by 1950.

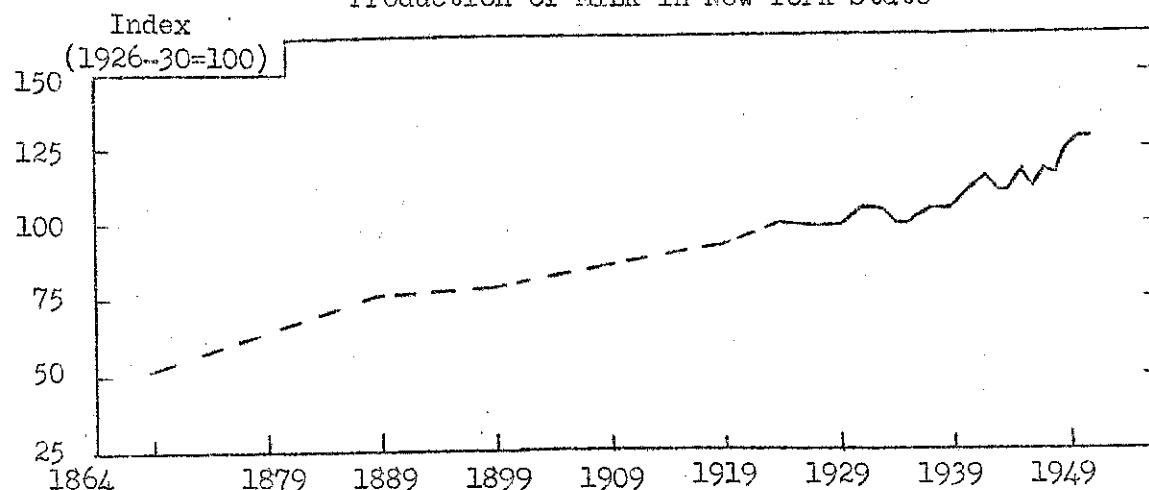
TRENDS IN PRODUCTION OF LIVESTOCK AND LIVESTOCK PRODUCTS
1866 - 1950 — New York



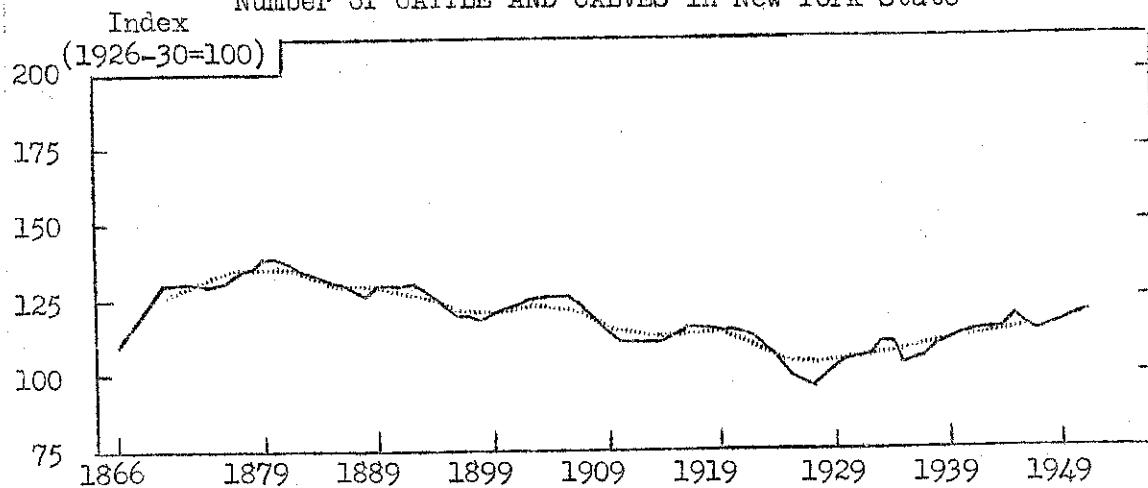
— Yearly Production
---- Ten Year Moving Average

TRENDS IN PRODUCTION OF LIVESTOCK AND LIVESTOCK PRODUCTS (Cont.)
1866 - 1950 -- New York

Production of MILK in New York State



Number of CATTLE AND CALVES in New York State

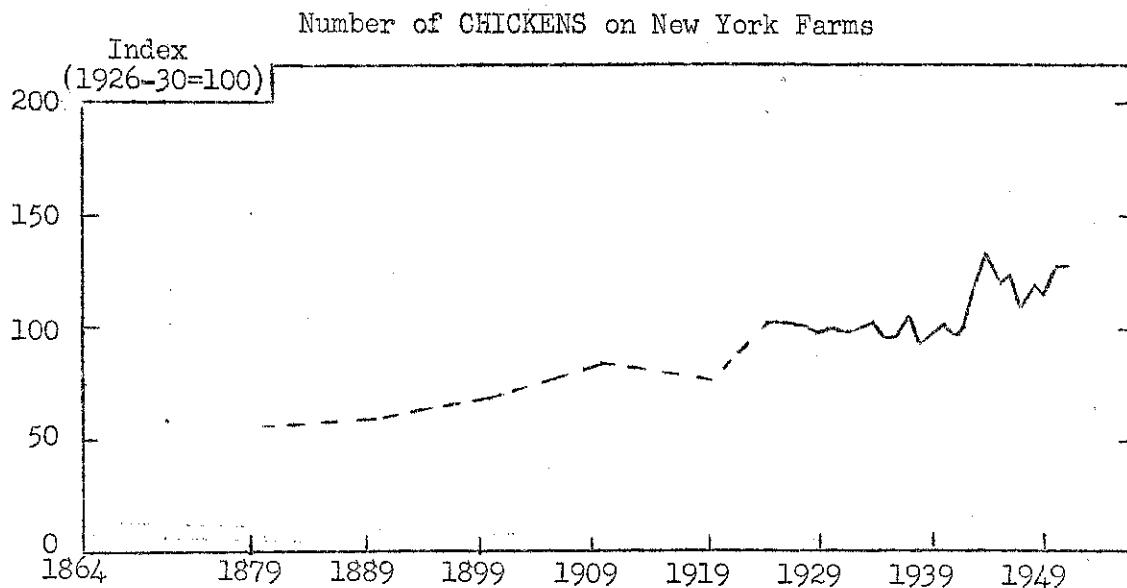
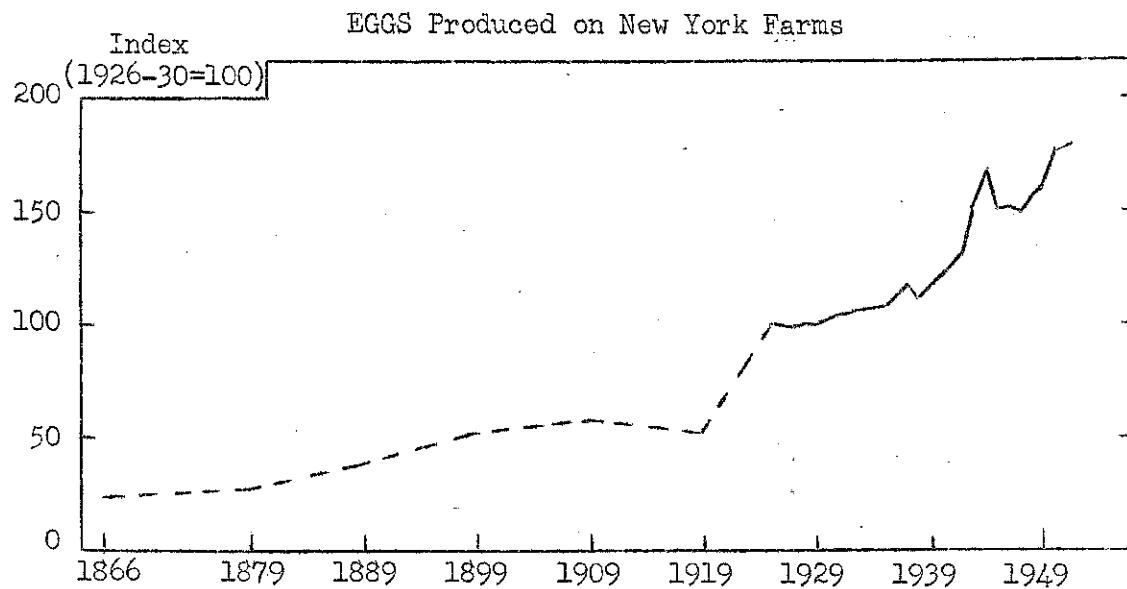


— Yearly Production

..... Ten Year Moving Average

The term cattle includes dairy cows, heifers, calves, and beef cattle. The number of cattle in New York shows both a long-time trend and a cyclical variation around this trend. From 1879 to 1927 the long-time trend was downward, but since 1927 it has been upward.

TRENDS IN PRODUCTION OF LIVESTOCK AND LIVESTOCK PRODUCTS (Cont.)
1866 - 1950 -- New York



PRODUCTION OF FRUITS AND VEGETABLES IN NEW YORK STATE

1926-30 av. and 1950

Crop	Unit	Base Period 1926-30 av.	1950	% Change		
			Revised	1950 from Av.		
-thousands-						
FRUITS:						
Apples	bu.	19,539	18,700	- 4		
Cherries	ton	15.5	31.5	+103		
Grapes	ton	79.0	104.0	+ 32		
Peaches	bu.	1,520	1,023	- 33		
Pears	bu.	1,378	1,066	- 23		
VEGETABLES:						
For Market:						
Lima Beans	bu.	54*	478	+785		
Snap Beans	bu.	213*	2,008	+843		
Cabbage**	ton	296.6	405.5	+ 37		
Cantaloupes	crt.	102*	80	- 22		
Carrots	bu.	1,231	2,395	+ 95		
Cauliflower	crt.	941	4,020	+327		
Celery	½ crt.	1,726	1,364	- 21		
Sweet Corn	ear	82,400*	176,000	+114		
Cucumbers	bu.	602	714	+ 19		
Lettuce	crt.	1,388	1,170	- 16		
Onions	100# bag	1,619	3,988	+146		
Green Peas	bu.	588	192	- 67		
Spinach	bu.	820*	900	+ 10		
Strawberries	crt.	301	351	+ 17		
Tomatoes	bu.	551	1,870	+239		
For Processing:						
Snap Beans	ton	11.9	41.5	+249		
Beets	ton	7.3*	44.1	+504		
Cabbage	ton	54.5	99.8	+ 83		
Sweet Corn	ton	38.4	78.5	+104		
Cucumbers	bu.	47	78	+ 66		
Green Peas	ton	26.8	23.6	- 12		
Tomatoes	ton	71.4	183.6	+157		
POTATOES	bu.	25,692	34,390	+ 34		

*1929-30 av.

**For market and kraut.

PRODUCTION OF FIELD CROPS & LIVESTOCK IN NEW YORK STATE
1926-30 av. and 1950

Item	Unit	Base Period 1926-30 av.	1950	% Change		
			Revised	1950 from Av.		
-thousands-						
GRAINS:						
Barley	bu.	5,141	2,754	- 46		
Buckwheat	bu.	2,966	1,462	- 51		
Corn for Grain*	bu.	7,504	9,450	+ 26		
Oats	bu.	27,008	30,917	+ 14		
Rye	bu.	316	332	+ 5		
Wheat	bu.	4,720	11,344	+140		
DRY BEANS	100# bag	625	1,436	+130		
TOBACCO	lb.	1,151	700	- 39		
FORAGE CROPS:						
Corn Silage	ton	3,015	4,560	+ 51		
Tame Hay	ton	5,333	5,378	+ .1		
LIVESTOCK PRODUCTS						
Milk	1,000 lb.	6,957	9,002	+ 29		
Eggs	1,000	1,439	2,514	+ 75		
Wool	lb.	3,119	1,080	- 65		
LIVESTOCK ON HAND, JAN. 1:						
Cattle and Calves		1,865	2,226	+ 19		
Hogs		279	212	- 24		
Sheep, stock		465	158	- 66		
Chickens		14,048	17,759	+ 26		

*Includes hogging down and forage.