

14 1939-40

orig.



52



Hooverville, Sacramento, Calif.
One of Hooverville's better residences.

Overview of the History of California Agriculture

- Wheat Production of the 1850's-1900
- The Great Transition, 1890-1914
- Rise of Cotton

The Californian Model

- Domar Model
- Myth of Midwestern Farms
- California's "Exceptionalism"

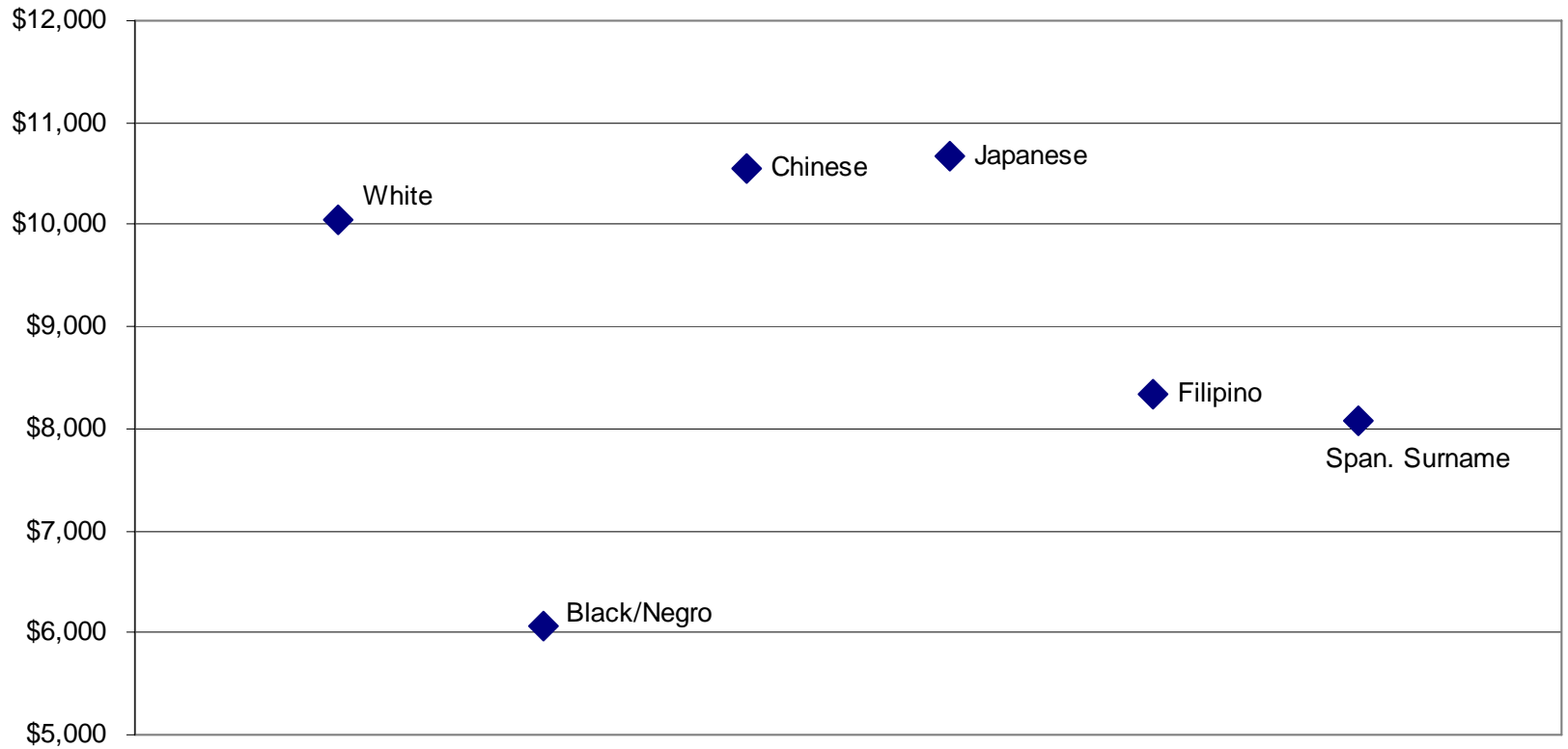
Contract Labor

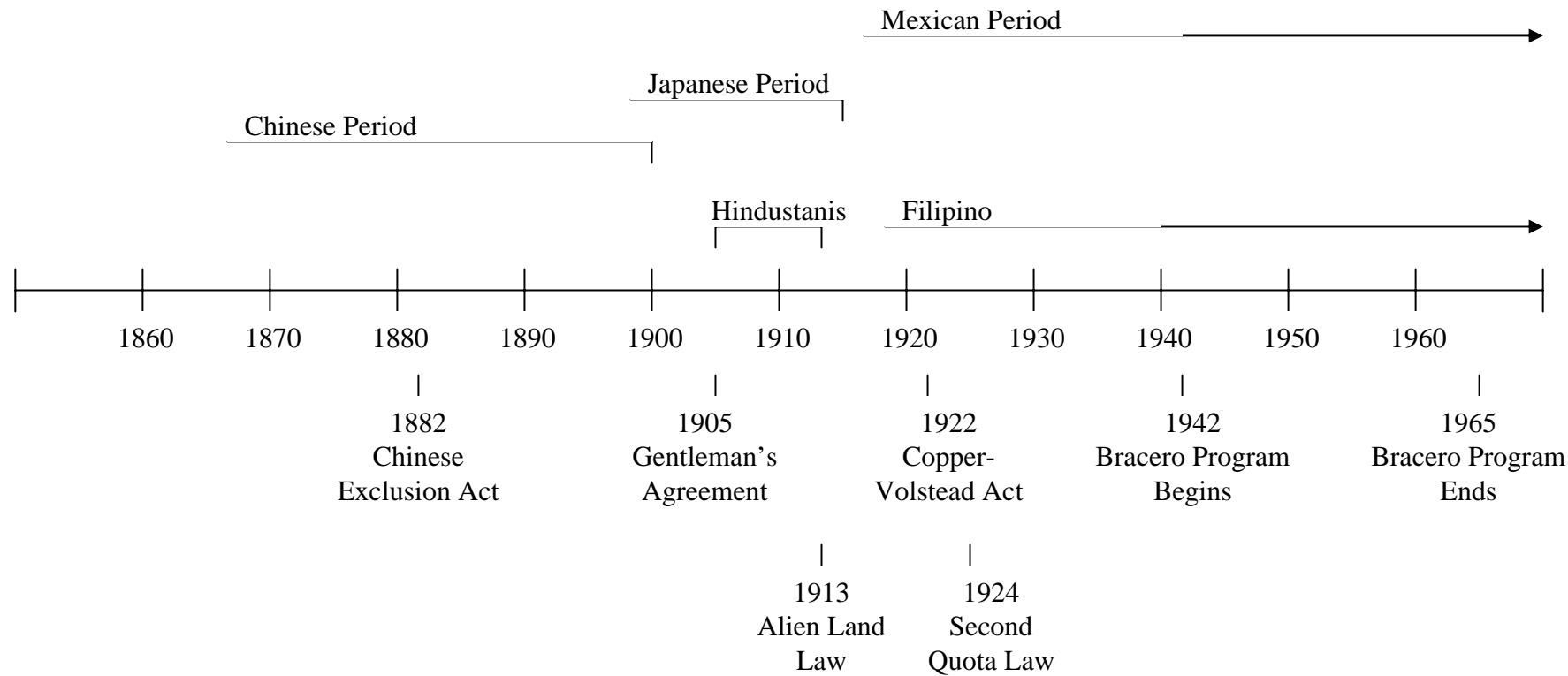
- Chinese Period
- Japanese Period
- Mexican Period
- Filipino Labor
- Hindustanis Labor

The Economic Ladder v.s. The Agricultural Ladder

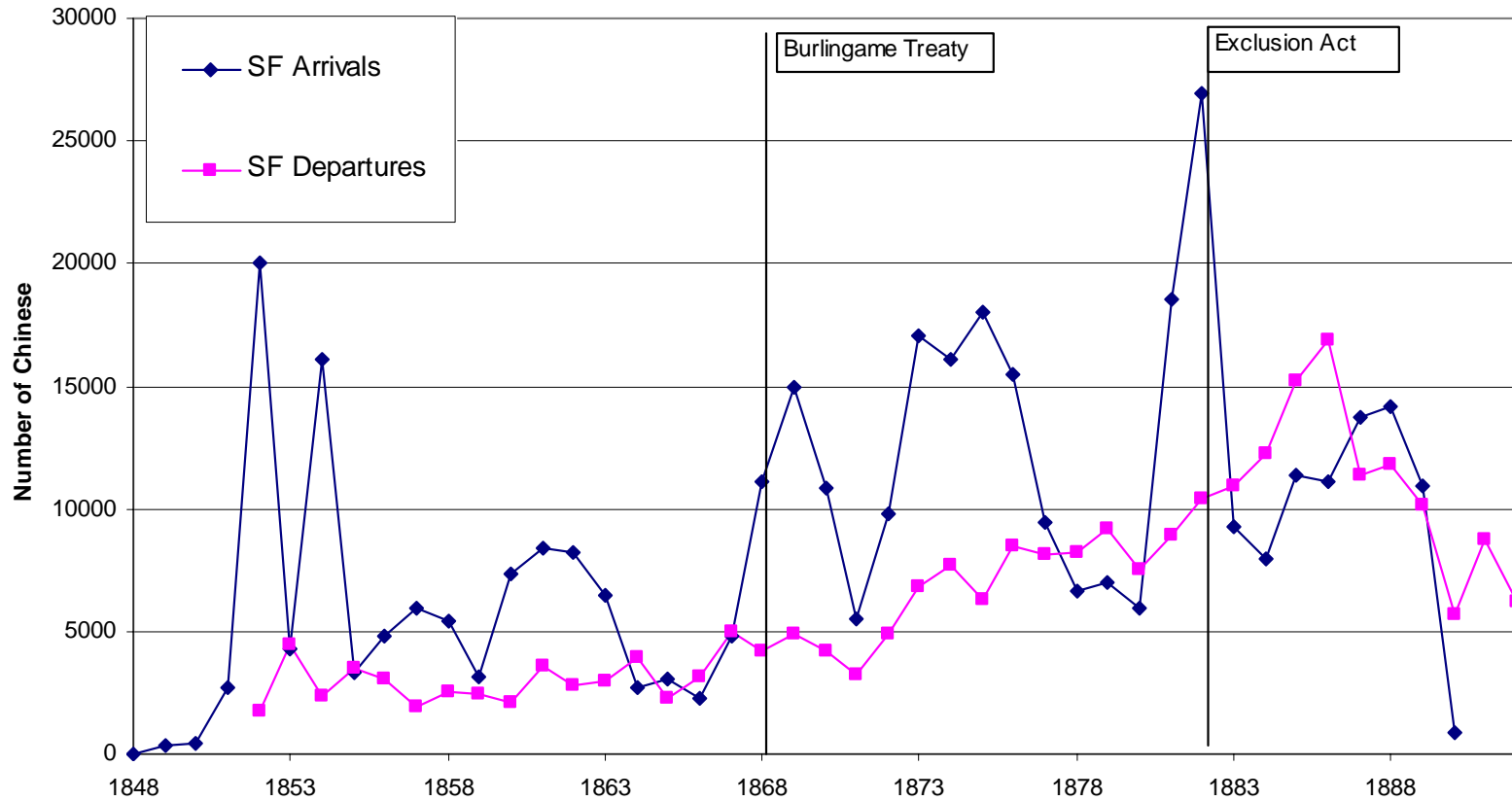
- The Agricultural Ladder of the Midwestern Farm Model

Mean of Personal Income of Males 25-44 Born in California, 1970

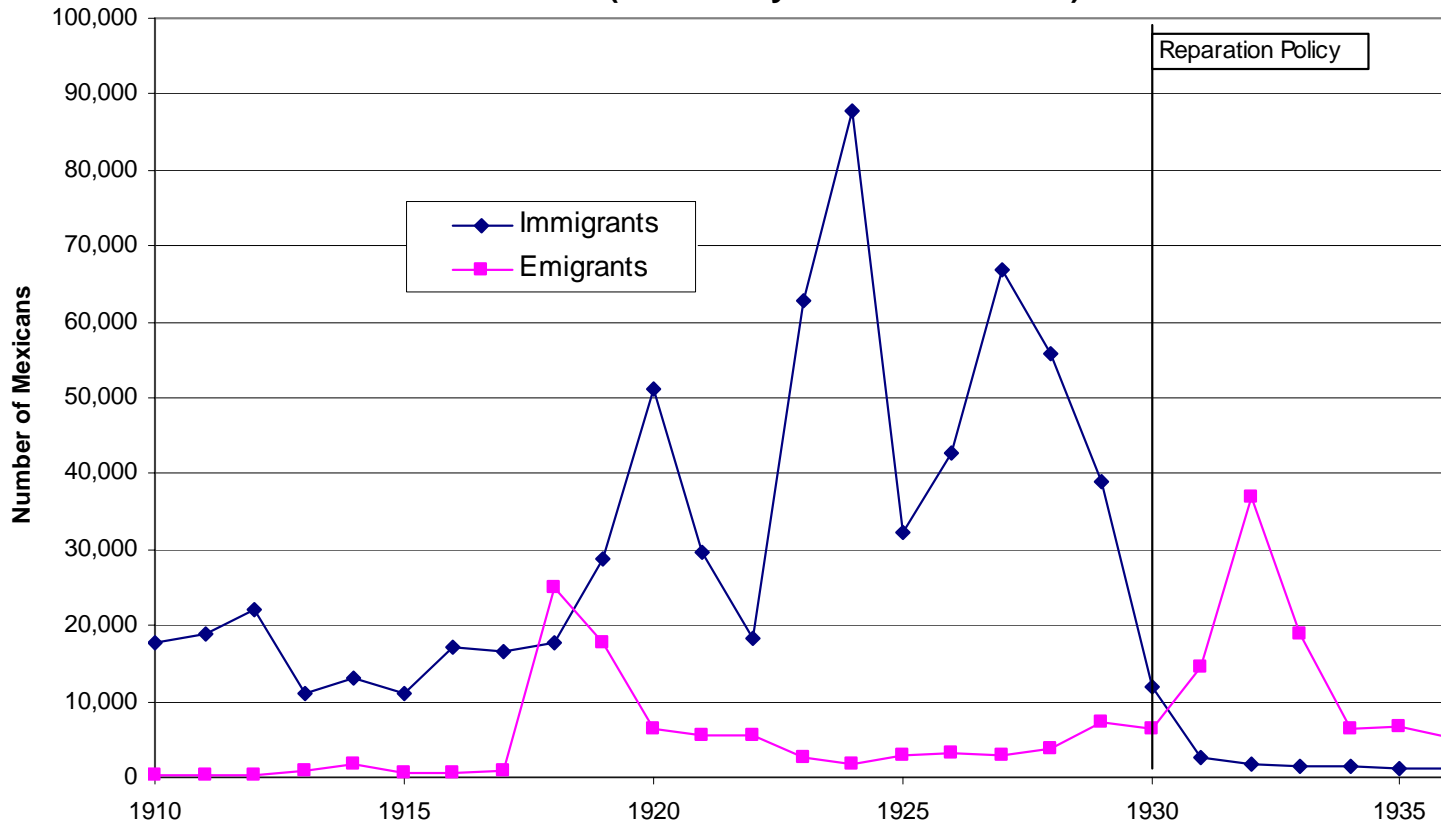




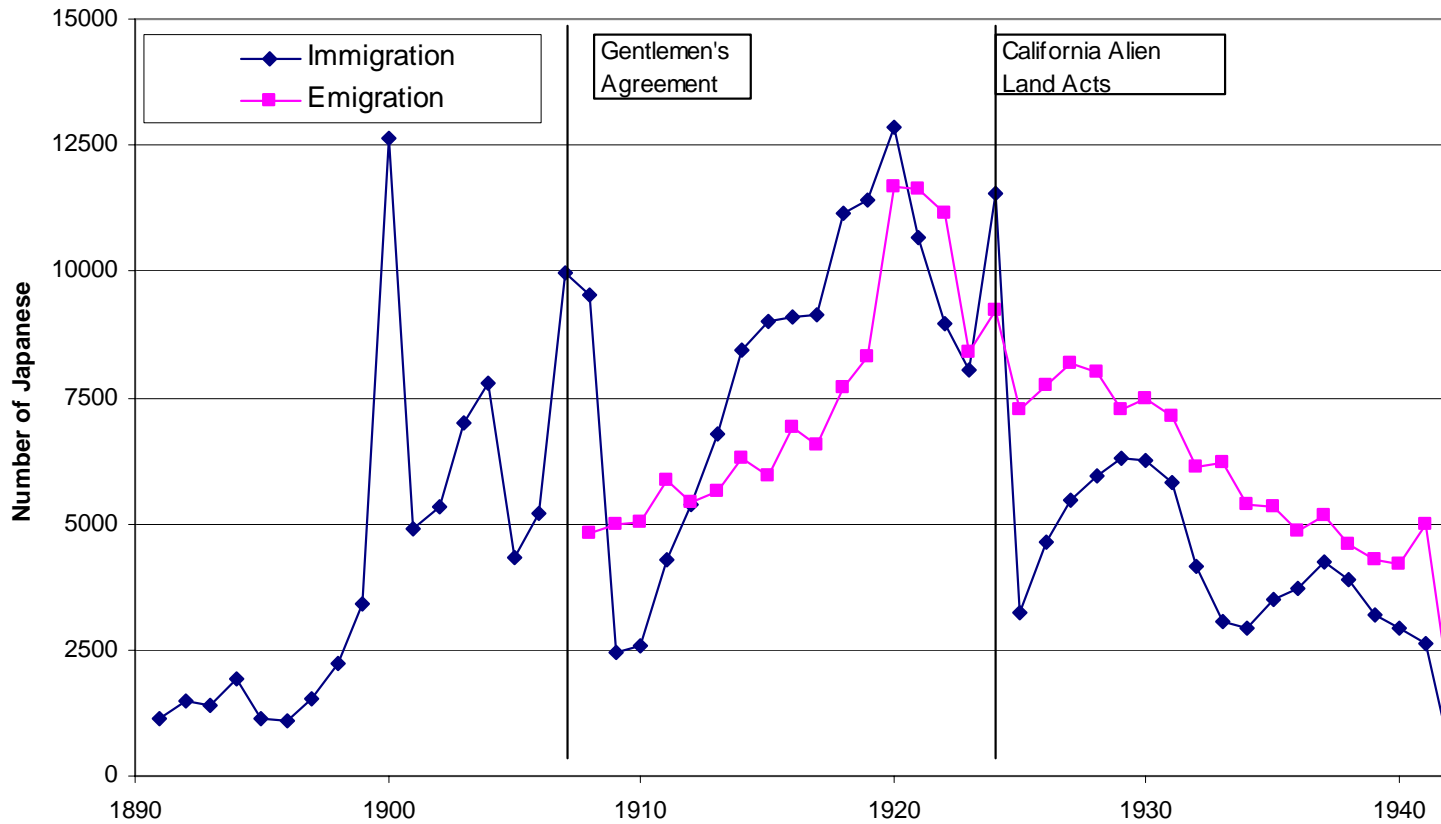
Chinese Arrivals and Departures at Port of San Francisco



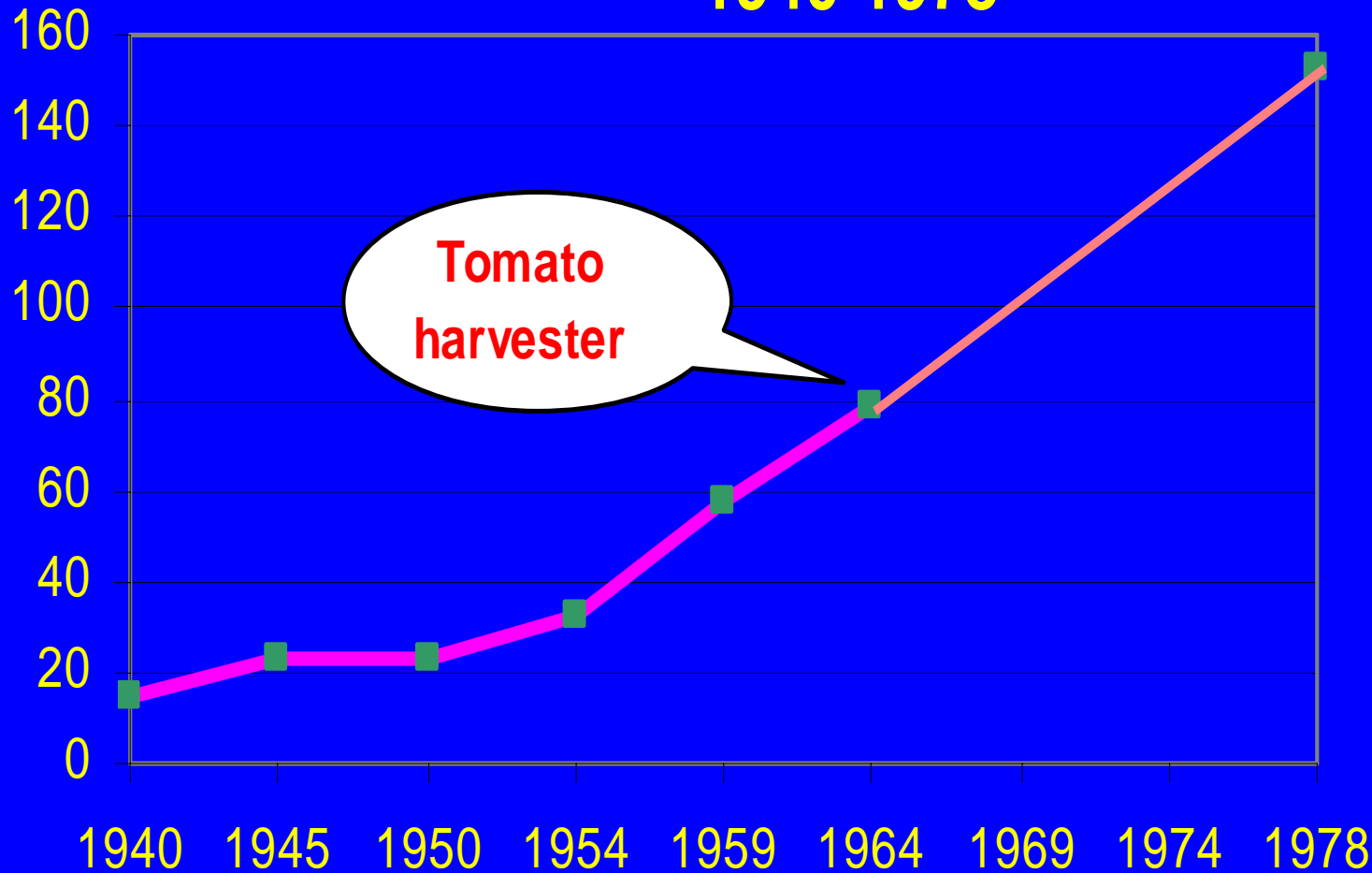
Mexican Legal Migration Flow to United States (n.b. chiefly outside California)



Japanese Migration Flows to the Continental United States



California Tomato Industry: Average Acreage 1940-1978





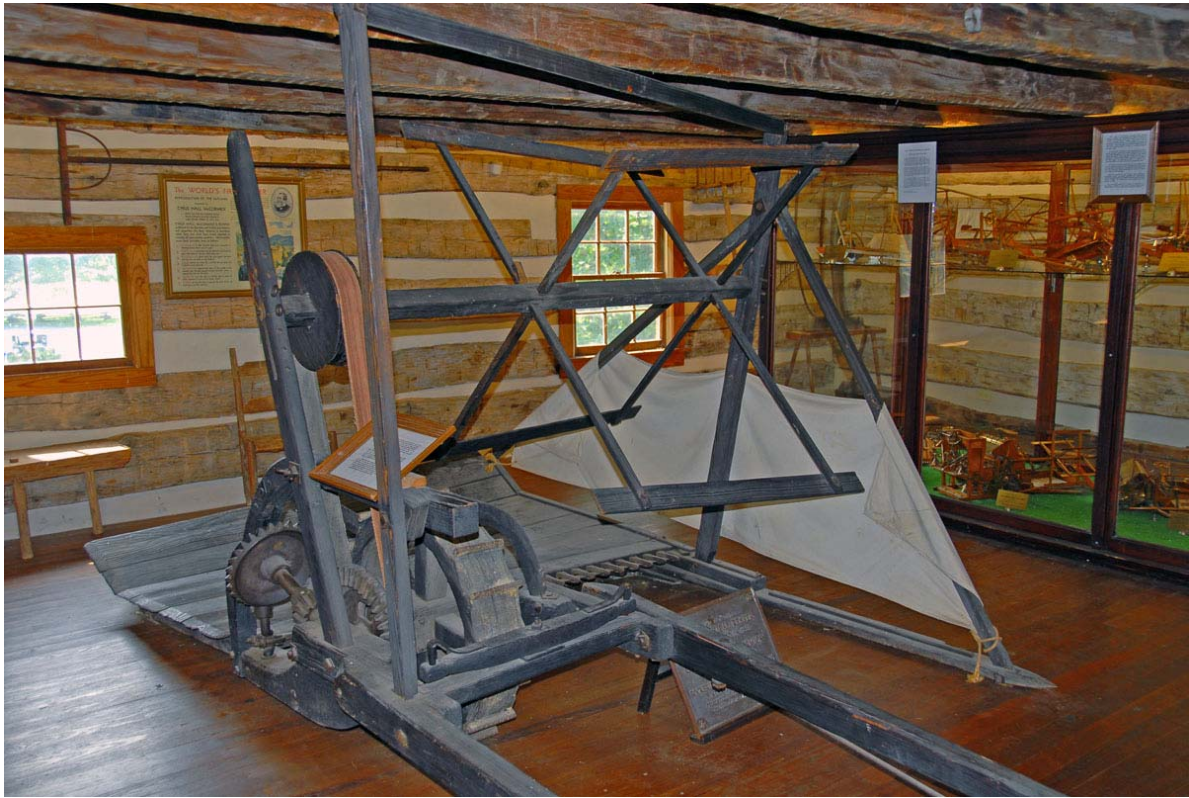


















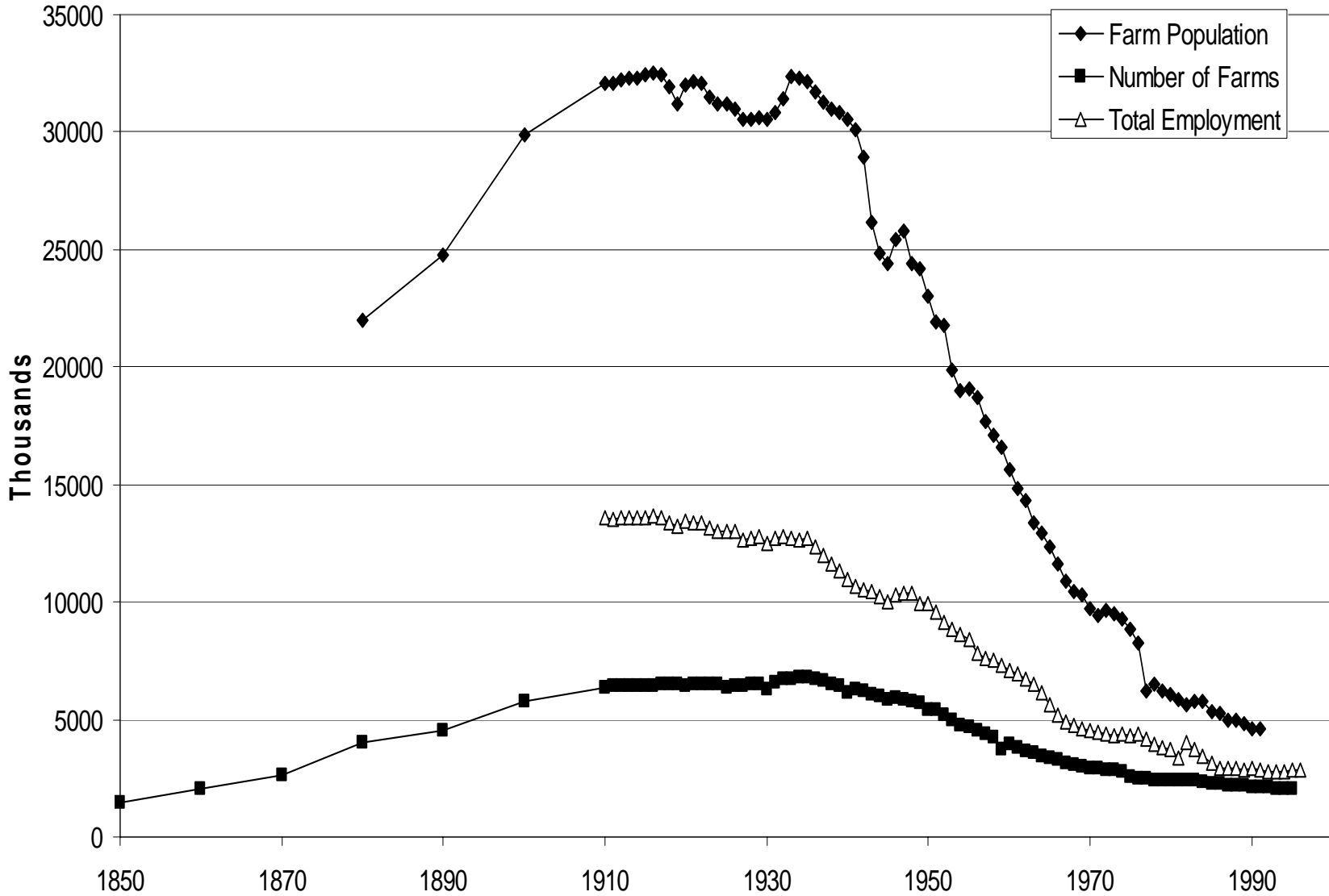
TABLE 4

Agricultural Employment in American South

	<u>Number Employed (in 1000s)</u>			<u>Percentage Decline</u>		
	<u>1950</u>	<u>1960</u>	<u>1970</u>	<u>1950-60</u>	<u>1960-70</u>	<u>1950-70</u>
Family Workers	4104	2192	1340	47	39	67
Hired Workers	1219	902	535	26	41	56
Total	5328	3094	1875	42	39	65

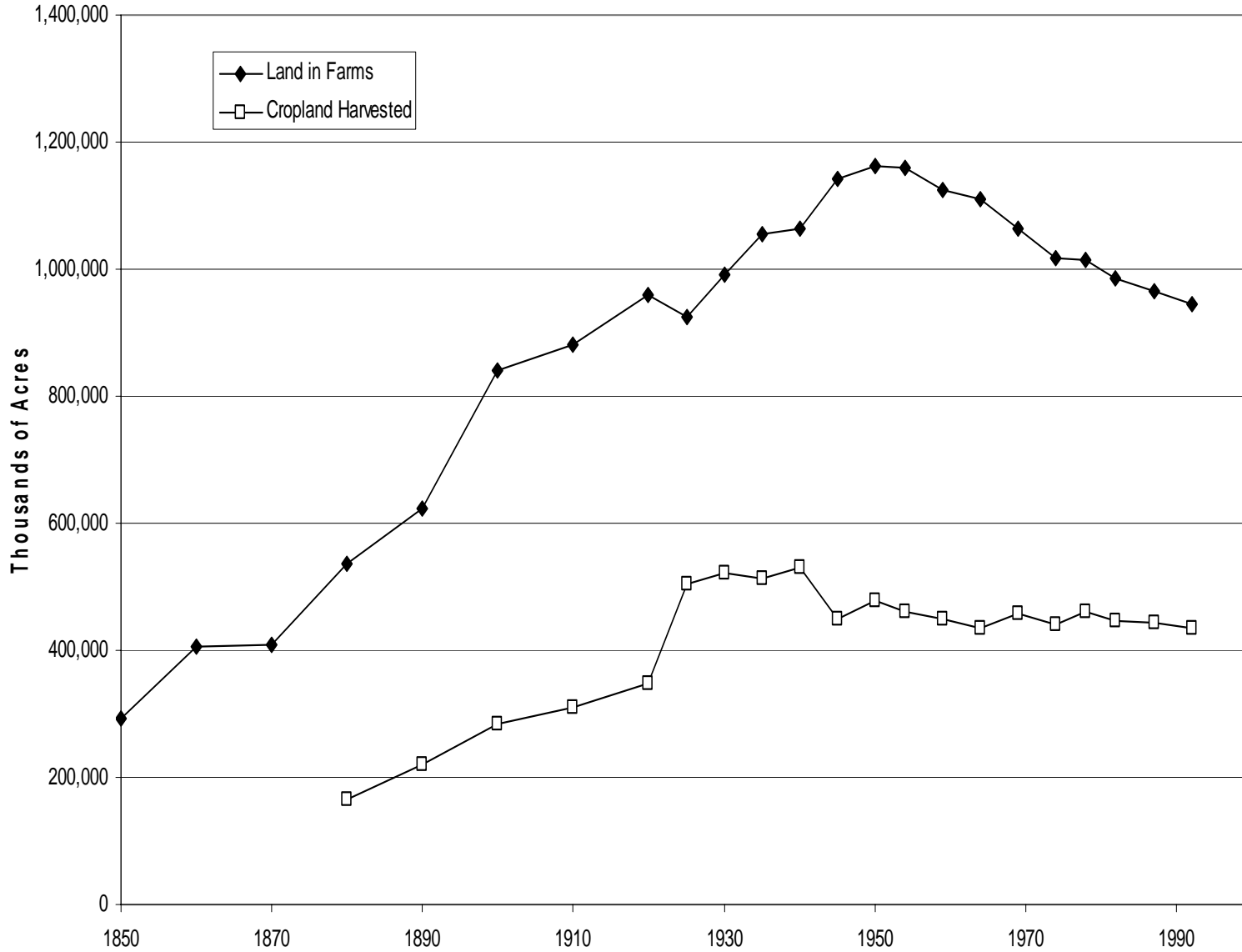
Source: Calculated from USDA, Farm Labor, Annual Summary,
for years 1950-1970

Figure 1: Farm Population and Number of Farms



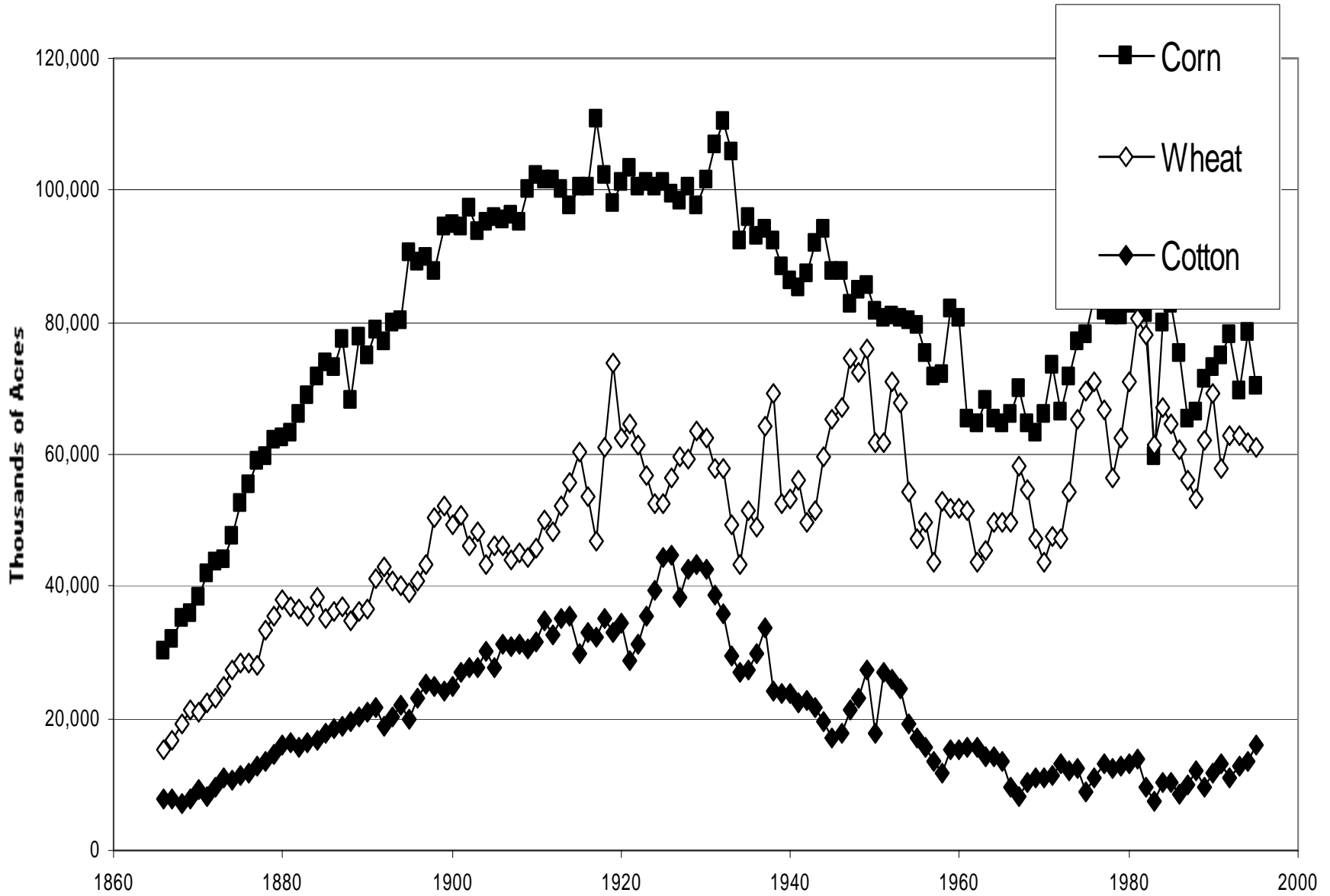
Source: alo.a.19.1, alo.a.1.1, alo.a.2.1, alo.21.1

Figure 2: American Farmland Trends



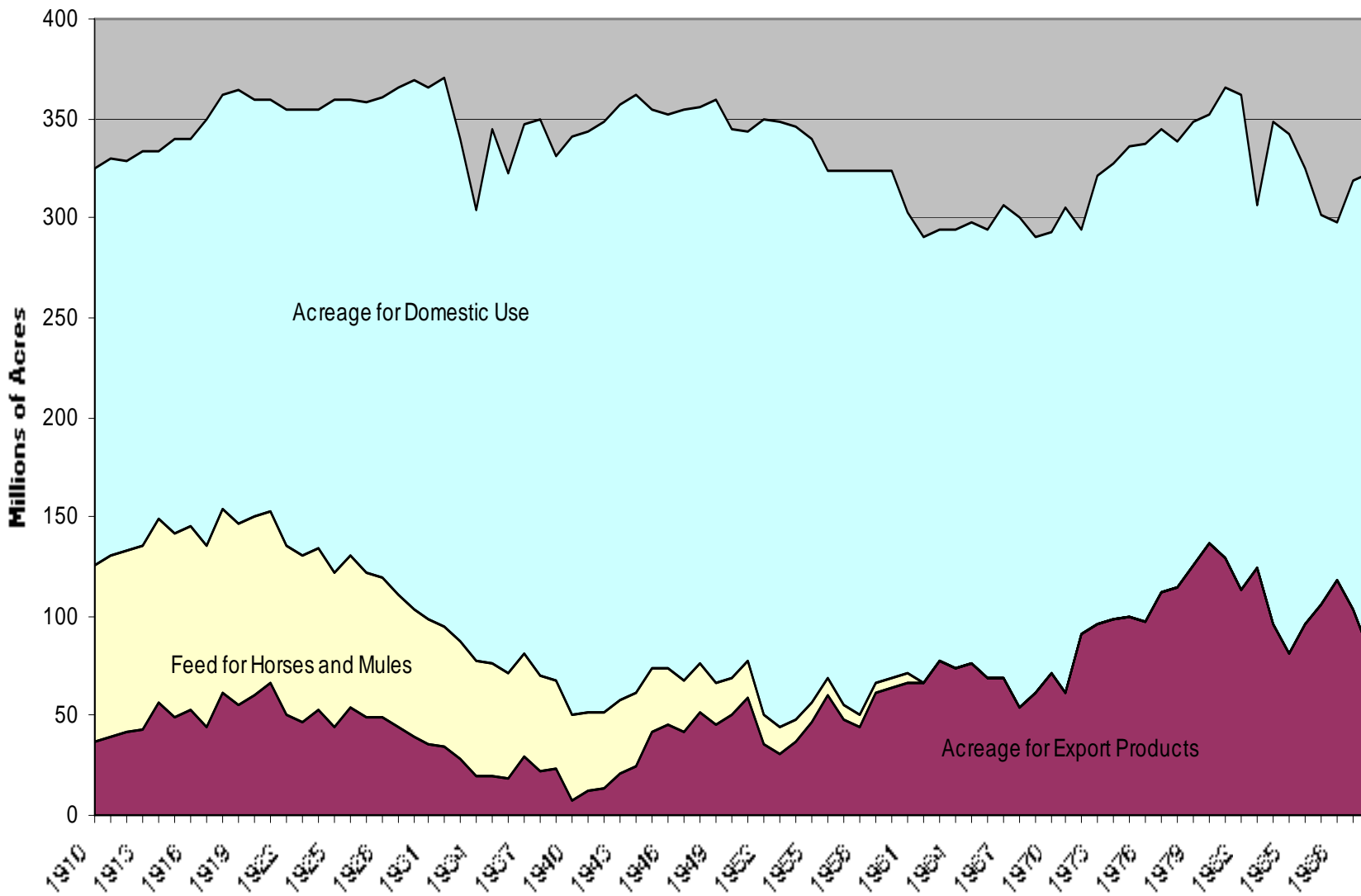
Sources: alo.a.2.4 and alo.a.2.7

Figure 1A: Acreage of Major Crops, 1866-1995



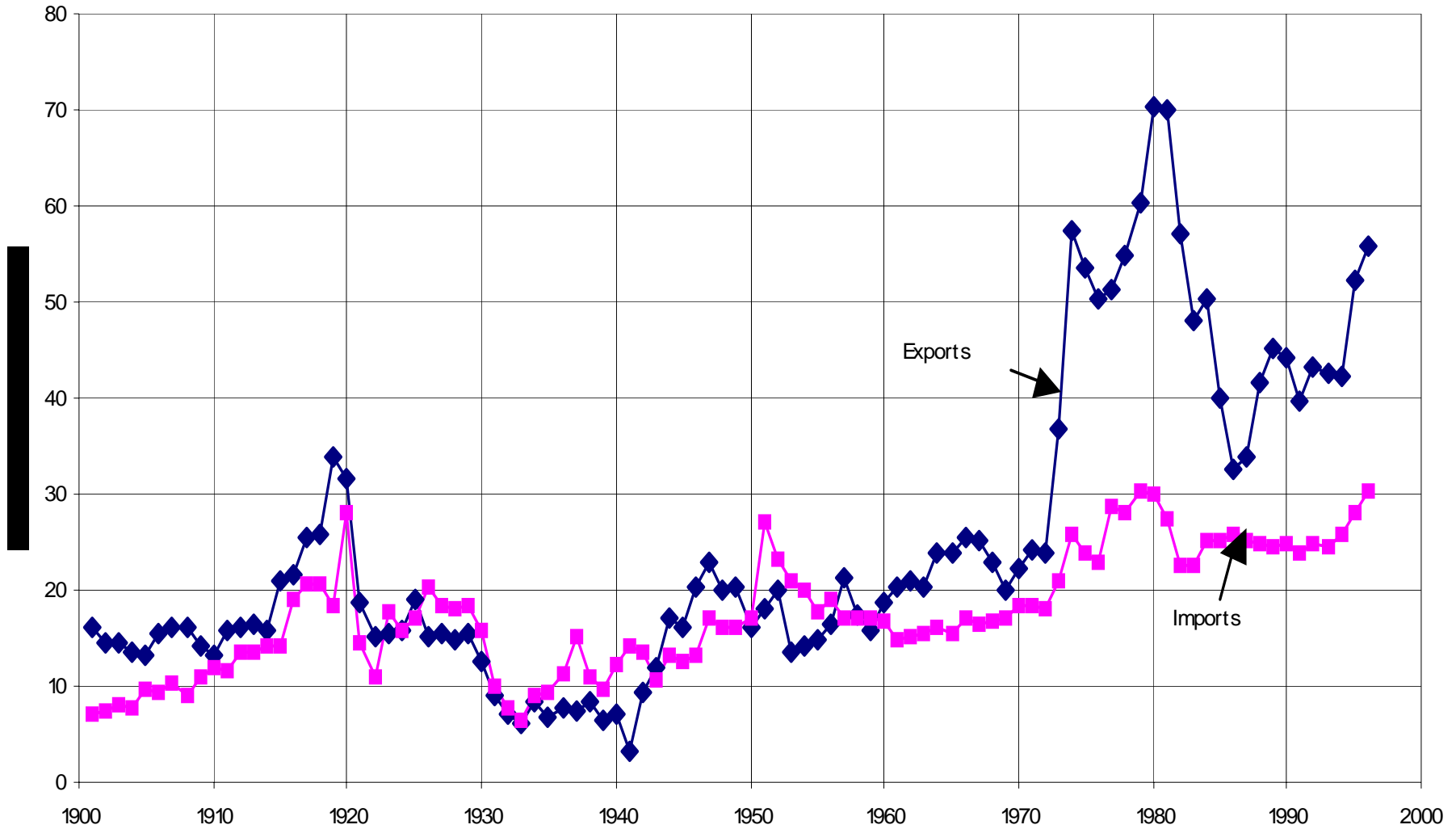
Sources: alo.d.????

Figure 2: Acreage of Harvested Crops, 1910-90



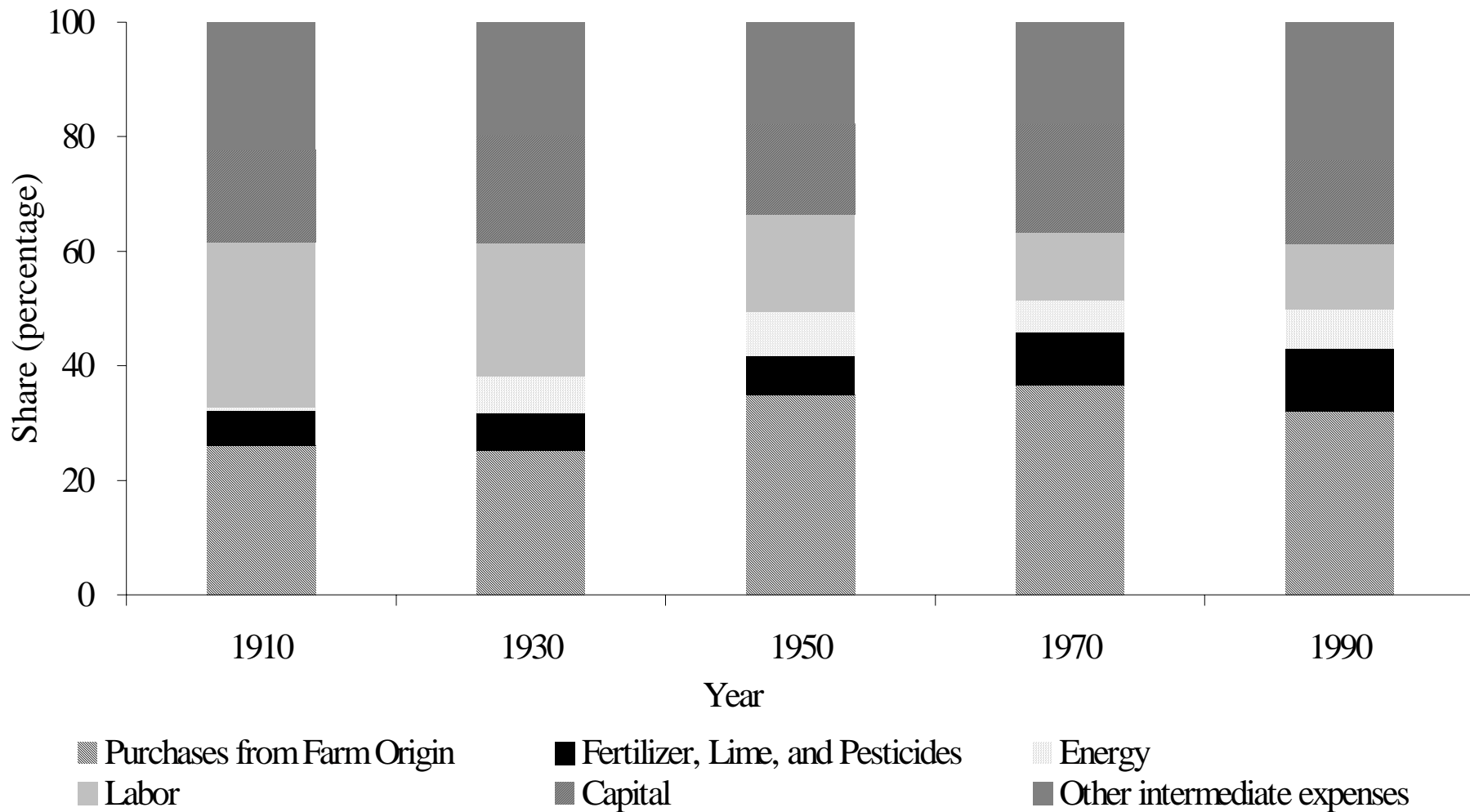
Source: alo.d.1

Figure 3. Agricultural Exports and Imports, Value in 1992 dollars



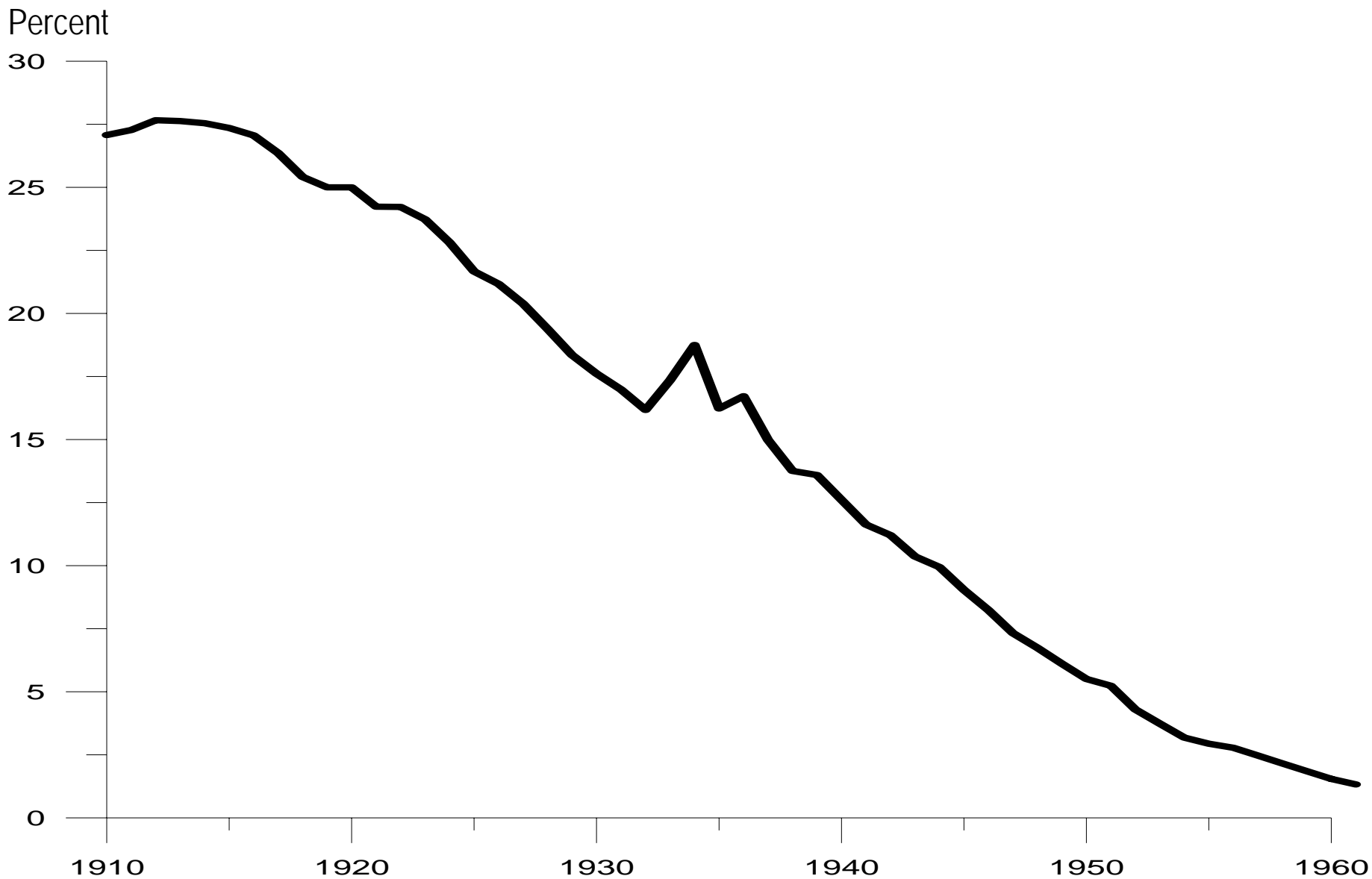
Source: ALO.B.6.1 and ALO.B.6.3 divided by some undisclosed price index

Composition of Agricultural Input, 1910-1990



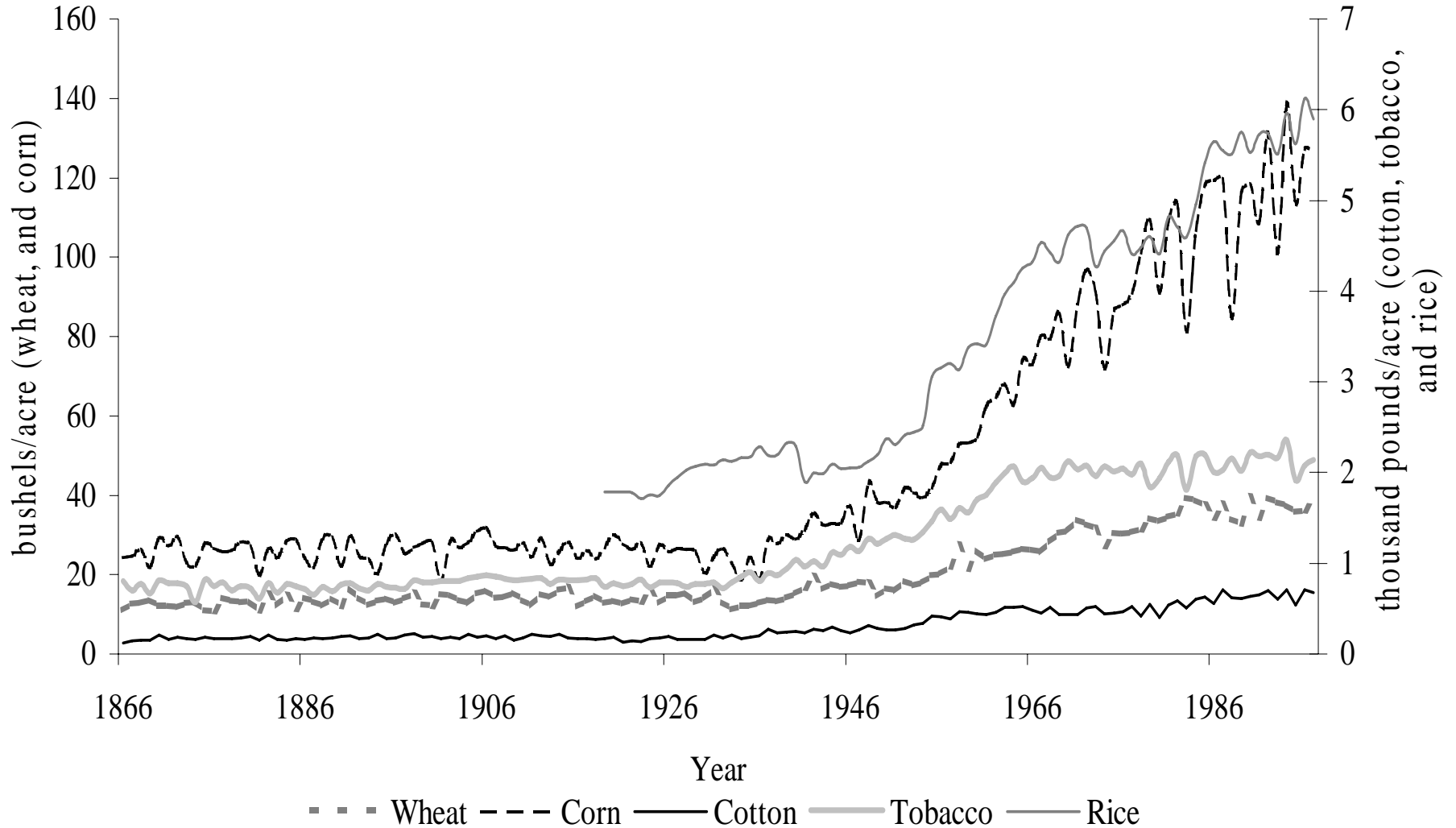
Source: ALO.C.Fig.2

Acreage of Harvested Crops Used to Feed Horses and Mules



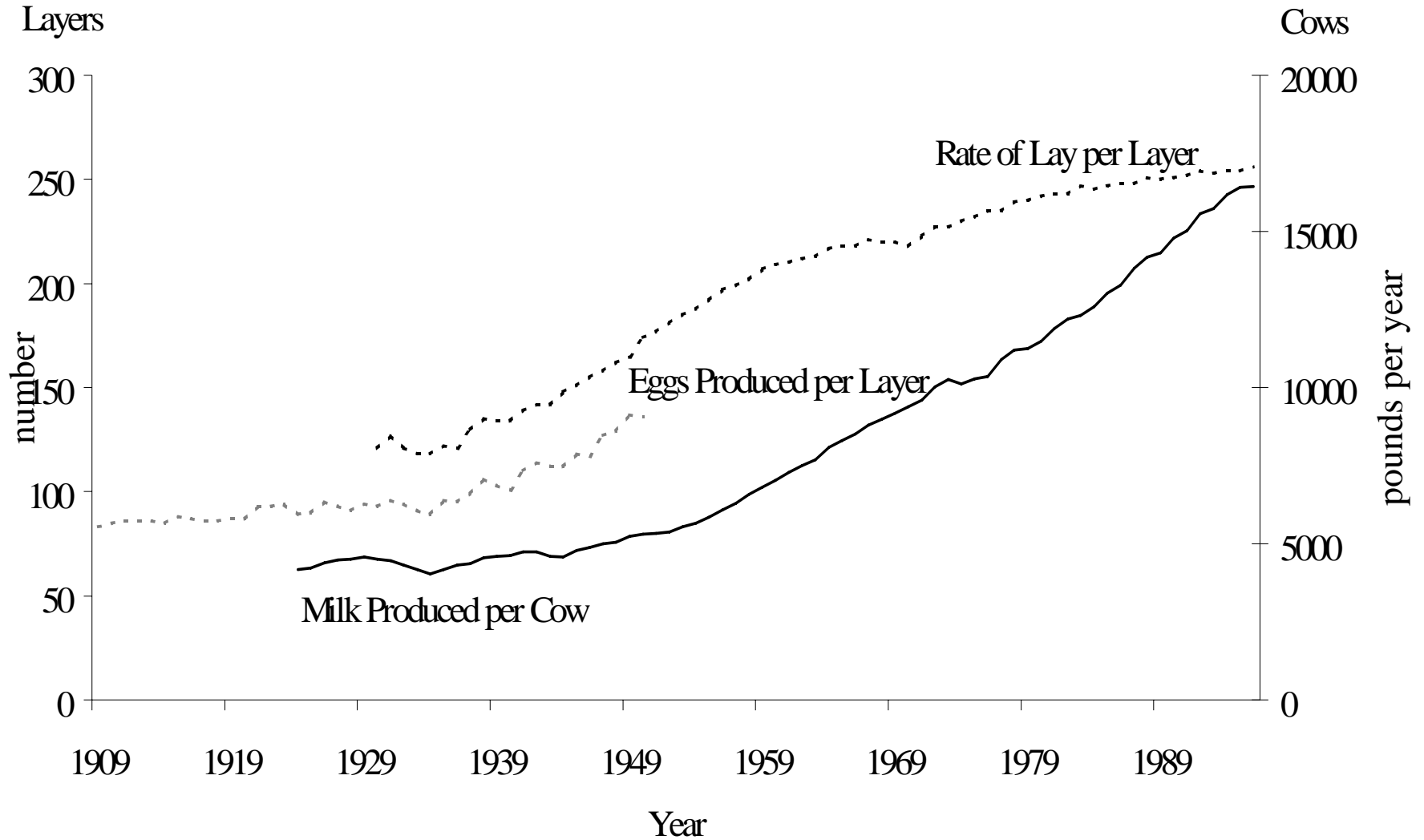
Sources: alo.d.1.1 and alo.d.1.3

Yields by Crop, 1866 - 1997



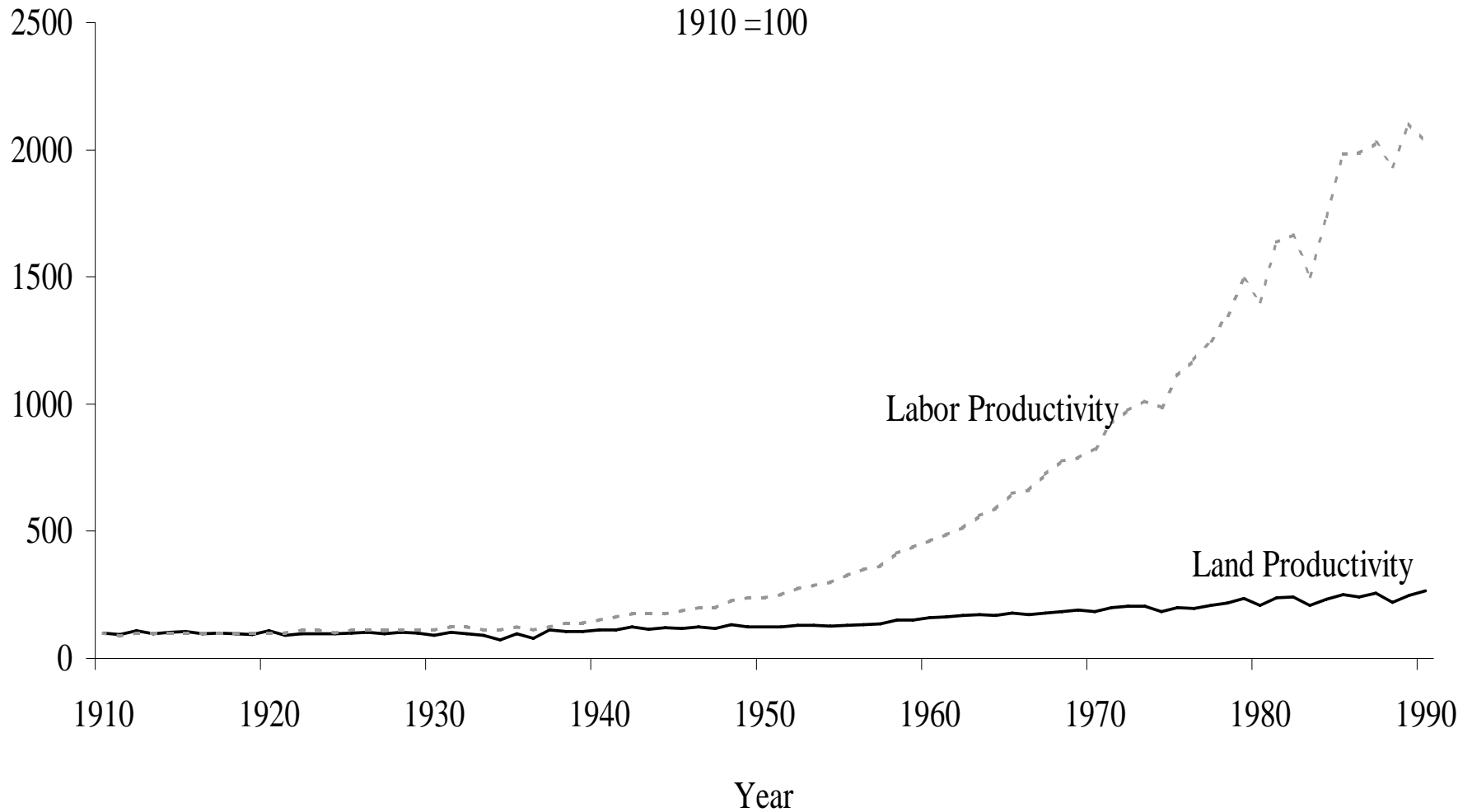
Source: ALO.C.Fig.3

Livestock Yields, 1924 - 1997

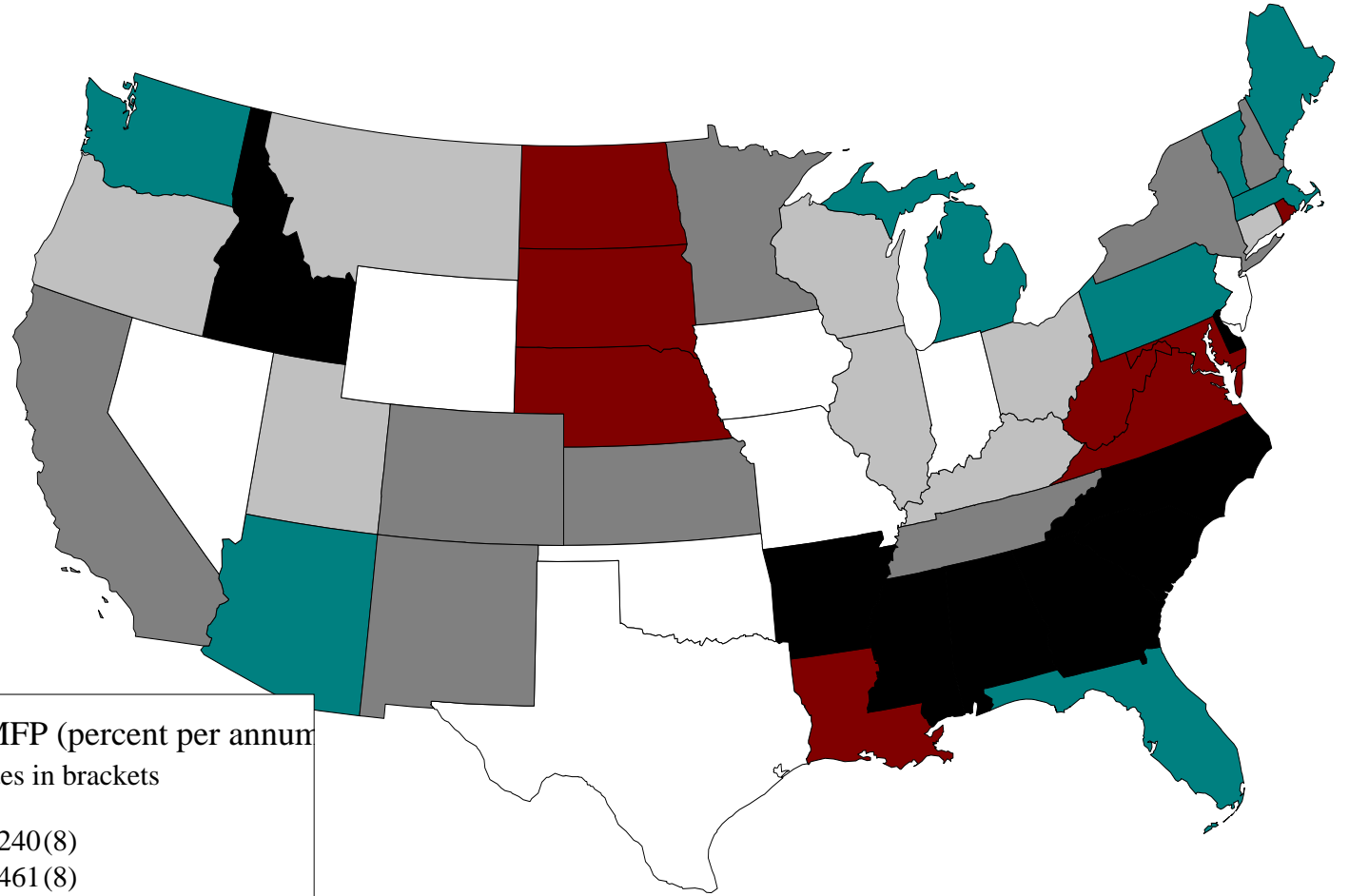


Source: ALO.C.Fig.4

Land and Labor Productivity in Agriculture, 1910 - 1990



Agricultural Productivity Growth Rates, 1949 - 1991



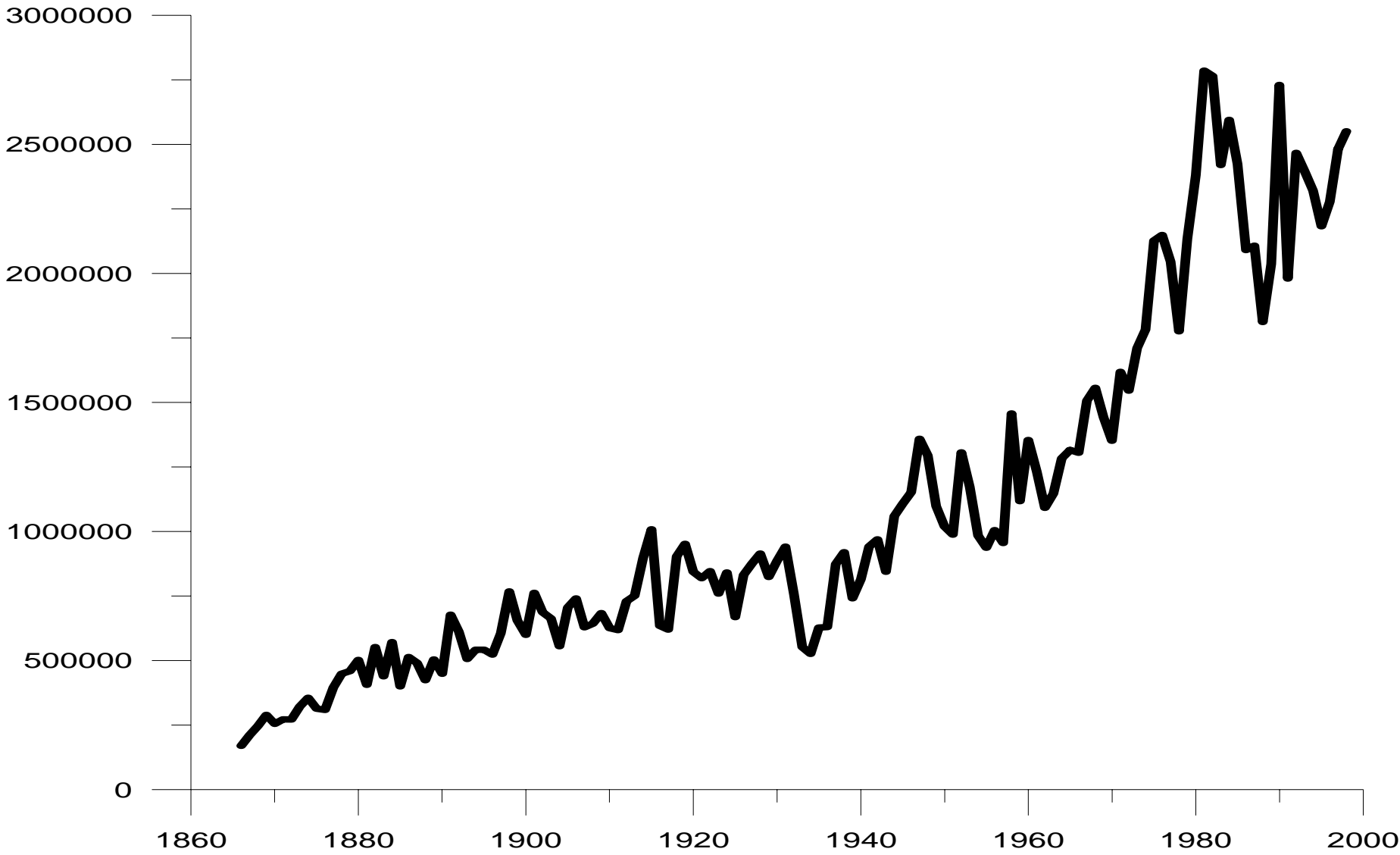
Range of growth rates of MFP (percent per annum)
with number of states in brackets

- 2.461 to 3.240(8)
- 1.964 to 2.461(8)
- 1.813 to 1.964(8)
- 1.650 to 1.813(8)
- 1.430 to 1.650(8)
- 0.790 to 1.430(8)

Source: ALO.C.Fig.6

Wheat Harvested

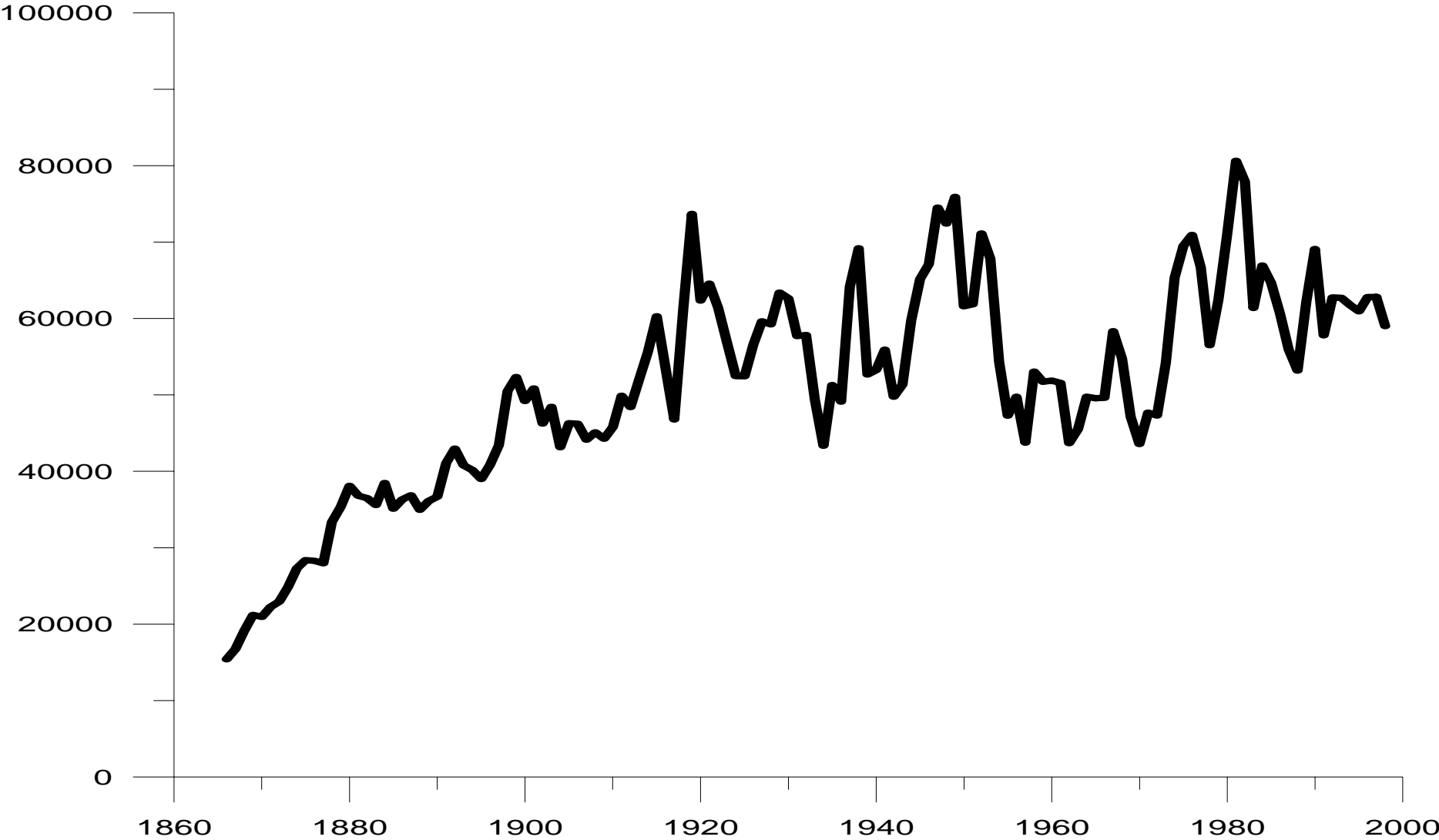
Thousands of bushels



Source: alo.d.6.2

Acres of Wheat Harvested

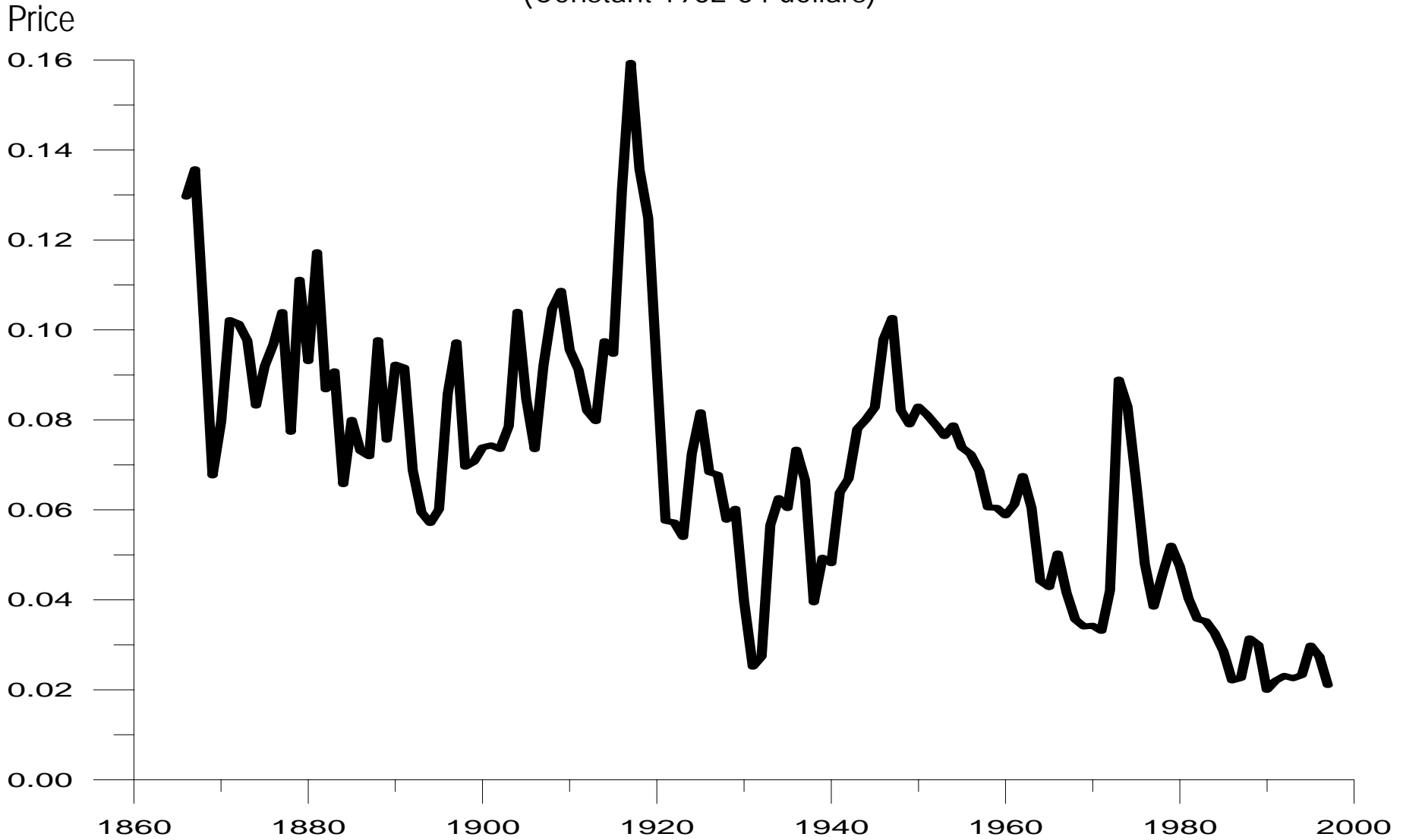
Thousands
of acres



Source: alo.d.6.1

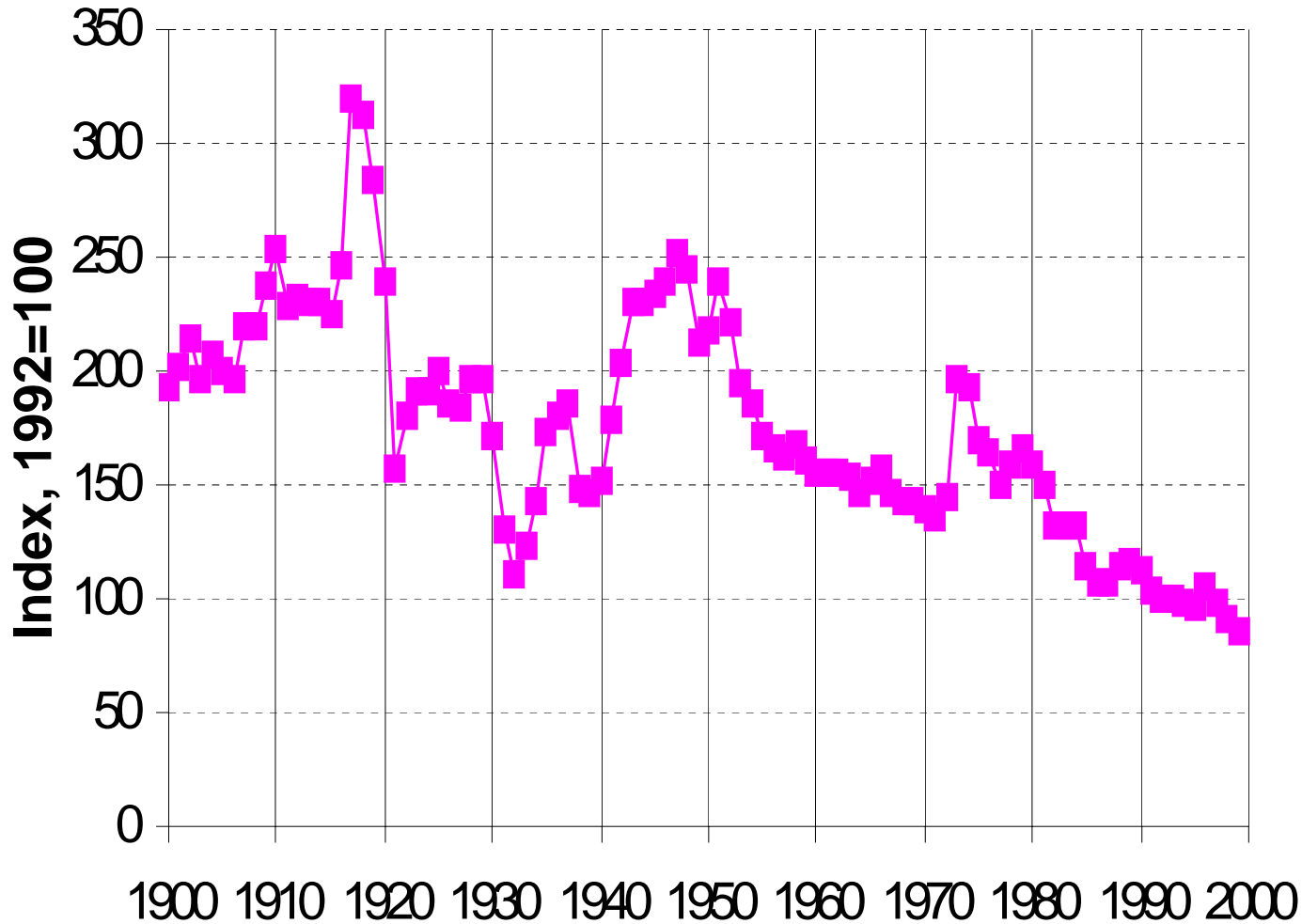
Price of Wheat per Bushel

(Constant 1982-84 dollars)



Sources: alo.d.6.3 divided by phl.b.1.1

Figure 1. Real Prices Received by Farmers



Source: Historical Statistics, Agricultural Statistics

USDA index, calendar years, deflated by GDP price deflator

Source: ALO.B.Fig.1

ALO.B.8.1

Thinking about Technological Change

- Counterfactual Worlds
- Threshold Models
 - fixed vs. variable costs
- Induced Innovation

Stylized Past

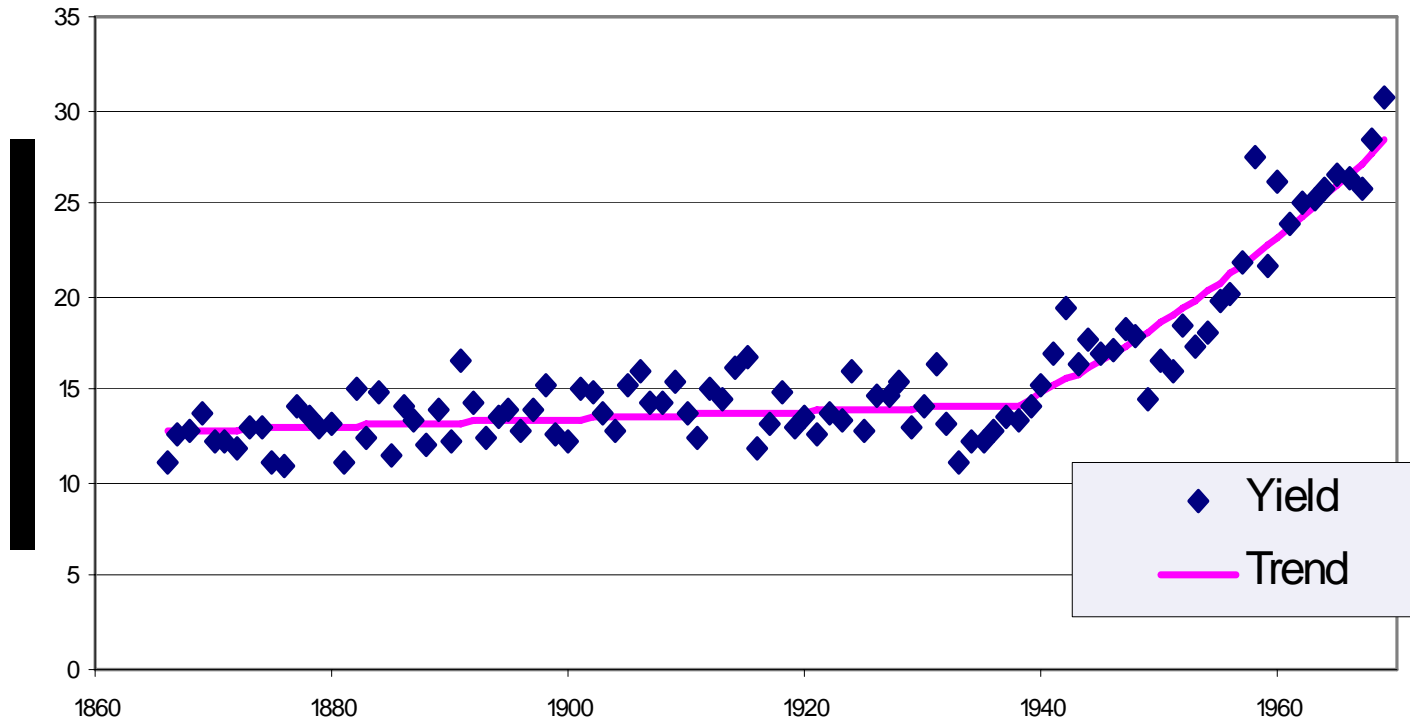
Pre-1940

Age of Mechanical Innovation

Post-1940

Age of Biological Change

US Wheat Yields



Durum Wheat Yields

<u>Year</u>	<u>Yield per Acre (Bushels)</u>
1942-1951	14.5
1952	9.7
1953	6.2
1954	3.0
1958	23.8



Threshold Model

