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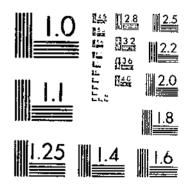
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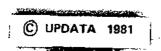


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HARVESTING CORN FOR GRAIN

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and

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TRENDS IN ACREAGE AND PRODUCTION

Early settlers arriving in the New World soon discovered that corn was an important food crop of the Indians. It had probably been so for centuries. Corn is now grown in most countries of the world, but our country alone contributes about 60 porcent of the world crop.

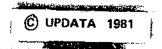
In this country, corn ranks first in importance both as to value of crop and acreage of land used--about 1 in 4 acres of land planted to crops is in corn. Annual estimates of acreage and production of corn are available, beginning with 1866. The total acreage of field corn harvested for all purposes has ranged from about 30 million acres in 1866 to 111 million acres in 1917.

SOURCE OF MATERIAL

The information in this report relating to methods of harvesting corn for grain in 1951 was obtained from the voluntary crop correspondents of the United States Department of Agriculture in February 1952. A mailed questionnaire was used. At that time, the crop correspondents reported the number of acres of corn for grain grown in 1951 that was harvested with each of these methods--the mechanical field-type picker, from the standing stalk by hand, and husked or snapped from the shock. About 16,500 farms that produced corn for grain in 1951 were included in the study. These farms harvested about 550,000 acres. The field reports of the February 1952 survey were edited, tabulated, and prepared for publication in the Washington office of the Bureau of Agricultural Economics.

This report also gives the results of earlier nationwide studies of methods of harvesting corn and estimates of the numbers and distribution of the principal machines used in harvesting.

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During the 25 years ending with 1933, the harvested acreage of corn was at a high level. It exceeded 100 million acres in all except 5 years. Since 1933, the largest acreage was in 1935, when 96 million acres were harvested. From 1949 to 1951, inclusive, harvested acres averaged about 83 million (table 1). The 80.7 million acres of corn harvested in 1951 was the amallest since 1894.

Although the acreage used for corn is now substantially less than in earlier years, production has increased, reflecting the substantial increase in yields per acre. By 1951, the corn crop had exceeded 3 billion bushels in only 7 years; of these crops all but one were produced in the last decade.

In the Lake States, the harvested acreage has been larger in recent than in earlier years. In all other groups of States, the trand in acreage has been downward. Large decreases in acreage have occurred in Oklahoma-Texas and the Delta States.

UTILIZATION OF CORN ACREAGE

In recent years almost 90 percent of the total acreage of field corn was harvested for grain-the ears husked or snapped before storing. The remaining acreage was used for silage, or was hogged, grased, or harvested for forage. The information in this report relating to methods of harvesting corn applies only to corn harvested for grain.

Utilization of corn varies widely in the different parts of the country. In the Corn Belt and in the South a major part of the crop is harvested for grain (table 1). In recent years, about a third of the acreage of corn in the Northeastern States and about 22 percent of the acreage in the Lake States were used for silage. In the Pacific States, only a small acreage of corn is grown, but more than 40 percent of it is used for silage. Although from 1920 to 1950 the acreage of corn harvested for all purposes decreased by about 17 percent, the acreage harvested for silage increased. Fower acres and a smaller percentage of the crop are now hogged, grazed, or harvested for forage than was the case earlier.

HARVESTING WITH MECHANICAL CORN PICKERS

The first patents for a field-type corn picker were issued around 1850. It is estimated that in 1910, there were 1,000 mechanical corn pickers on farms. A decade later the number was estimated at 10,000. All of these early pickers were one-row traction machines. Use of pickers on farms made little headway until 1928, when the tractor power take-off was first adapted for use with them. Two-row pickers first came into use about the same time. Farmers' purchases of corn pickers

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increased with these changes and on January 1, 1930, it was estimated that there were 61,000 on farms. In the depression years of the early thirties farmers bought few pickers. But from 1935 to 1939 purchases averaged about 10,000 units annually and on January 1, 1940, the number on farms was estimated at about 110,000. Around 100,000 pickers were available to harvest the 1938 crop.

A nationwide study made in February 1939, based on material supplied by the voluntary crop reporters of the Department of Agriculture, showed that about 12 percent of the 1938 acreage of corn for grain was harvested with mechanical pickers. In only 5 States--Illinois, Iowa, Minnesota, Indiana, and South Dakota (table 2) - was more than a sixth of the acreage picker-harvested; but more than 90 percent of the total acreage harvested with pickers in 1938 was in these 5 States. Per acre yields are high in the major corn-growing States where the use of pickers is most proncunced. Therefore, the per acre yield of the corn harvested with pickers was substantially above the average yield of the country. At least 18 percent of the 1938 production of corn for grain was harvested with them.

About 146,000 corn pickers were on farms on January 1, 1944. Most of these were available to harvest the 1943 corn crop. This number was about 45 percent more than were available for the 1938 crop. In 1943, however, there were acute shortages of farm labor and acreage harvested per machine was substantially larger than in 1938. A nationwide study made in February 1944 showed that about 27 percent of the acreage of corn for grain in 1943 was harvested with mechanical pickers (tables 2 and 3). Because pickers are used where yields per acre of corn harvested are above average, it is estimated that around 38 percent of the crop harvested for grain in 1943 was harvested with pickers.

In 1943, 60 percent or more of the acreage of corn for grain in Illinois, Iowa, Minnesota, and North Dakota was harvested with pickers. More than two-thirds of the 1943 acreage so harvested was in the 5 Corn Belt States. These States also had about 70 percent of the 130,000 corn pickers on farms January 1, 1942 (table 2). By 1946 about 41 percent of the acreage of corn for grain was harvested with pickers according to another nationwide study made in February 1947. Because pickers are used where per acre yields are above-average, it is estimated that about 52 percent of the crop harvested for grain in 1946 was machine-harvested. In 1946, corn pickers harvested 75 percent or more of the acreage in Iowa, Illinois, and Minnesota, and were important as a method of harvest in practically all of the North Central States. In most Southern States, however, only a small percentage of the 1946 acreage of corn was machineharvested. About 236,000 corn pickers were on farms on January 1, 1947. Practically all of these were available for the 1946 harvest.

By 1951, harvesting with mechanical corn pickers had become the leading method in all of the North Central and Western States. For the country as a whole about 68 percent of the acreage was machine-harvested (tables 2 and 3). It is estimated that about 75 percent of the production of corn for grain in 1951 was picked with machines from the standing stalk.

- 3 -

Corn pickers were used to harvest 90 percent or more of the 1951 acreage in each of 7 States. The pickers still accounted for only a small percentage of the acreage in most Southern States, where the per acre yield of corn is relatively low. Of the 588,000 corn pickers on farms January 1, 1952, more than 55 percent were in the 5 Corn Belt States. In most Southern States there were few pickers in relation to the acreage of corn harvested for grain (table 2). In all areas of the country the percentage of the acreage of corn harvested with pickers was larger on farms with large acreages of corn than on farms with smaller acreages (table 4).

HARVESTING BY HAND FROM STANDING STALK

For many years most of the acreage of corn for grain has been harvested by husking or snapping the ears from the standing stalk. Until the coming of mechanical corn pickers this was done by hand.

In 1913 information supplied by the county reporters of the Department of Agriculture indicated that 61 percent of the acreage of corn for grain was harvested from the standing stalk. Practically all of this acreage was harvested by hand, as there were few machine pickers in 1913. Thirty years later, when 27 percent of the acreage was harvested with the picker, about 60 percent of the acreage was still harvested by hand from the standing stalk (tables 3 and 5). This latter method of harvesting accounted for more than half of the 1913 acreage in the Central Corn Belt, most of the Great Plains States, most of the Southern States, and the Western States (table 5). In 1943 harvesting by hand still accounted for most of the acreage of corn in Missouri, most of the Plains States, most Southern States, and the West.

By 1951, however, only 28 percent of the acreage was harvested by hand from the standing stalk (tables 3 and 5). In most Southern States this was the chief method of harvesting. In Missouri and Kansas, an appreciable part of the 1951 crop was harvested by hand from the standing stalk, as heavy precipitation during the harvest season made it difficult to use corn pickers in some areas.

In all parts of the country, harvesting by hand from the standing stalk was an important method in 1951 on farms with small acreages of corn (table 4). Although 28 percent of the 1951 acreage of corn for grain was harvested by hand from the standing stalk, the acre yield of this corn was below the average for the country. In terms of bushels of corn for grain, only about 20 percent of the 1951 production was harvested by this method.

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HARVESTING CORN FROM THE SHOCK

Cutting and shocking corn is a long-ostablished method of harvesting. In the early years, hand tools and animal-drawn sleds were used to cut the corn. In fact, around the turn of the century, some corn was cut with animal-drawn harvesters and shocked on the harvesters; the completed shock was then removed and placed on the ground. Around 1890, row binders were used to cut corn for grain, as well as corn and sorghum for forage and for silage.

Reports from county reporters of the Department of Agriculture indicated that about 40 percent of the acreage of corn for grain in 1913 was cut and shocked and the ear removed from the stalk before the grain was stored or fed. At that time, harvesting corn for grain from the shock was a leading method in the Northeastern States, in Ohio, Indiana, Missouri, the Lake States, and in most of the Appalachian States (table 5).

Usually about three times as much labor is needed to harvest corn from the shock as to harvest by hand from the standing stalk, and about 6 times as much as to harvest with mechanical pickers. With the acute labor shortage of 1943, only 14 percent of the acreage of corn for grain in the country as a whole was harvested from the shock. But this method of harvest accounted for more than half of the 1943 acreage in most Northeastern States, in Michigan, Wisconsin, Virginia, West Virginia, and Kentucky (tables 3 and 5).

About four times as many corn pickers were available for hervest in 1951 as in 1943. With continued shortages of labor and high wage rates, farmers harvested only about 4 percent of the 1951 acreage of corn for grain from the shock (tables 3 and 5). When corn is harvested for grain from the shock the ears are removed from the stalks either by hand methods or with stationary machines. Most of the stationary machines have attachments for shredding the stalks. A good many of these stationary huskers and shredding machines were used in some areas around 1900. But in 1943 and in 1946, only about 3 percent of the total acreage of corn for grain was harvested with husker shredders.

Row binders were once used to harvest corn for grain and to harvest corn and sorghum for forage and for silage as well. Use of these machines, especially for harvesting corn for grain and for harvesting corn and sorghum silage, has decreased greatly in recent years. Recently, farmers have bought few row binders and the number of these machines on farms January 1, 1951, was estimated to be at least 25 percent below the number in 1942 (table 5). Since 1942, numbers of row binders have declined in most States, but have increased moderately in some Southern States. In 1951, only about 13 percent of the row binders were in the South and the West (table 5).

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Symalachian 1909-11 11,747 11 1919-21 11,552 94.7 .9 1928-31 9,933 94.1 1.7 1939-41 9,429 97.2 1.3 1949-51 7,733 95.7 1.3 1919-21 8,325 1.3 1.3 1919-31 10,187 98.1 .1 1928-31 8,653 97.4 .2 1939-41 10,081 97.0 .2 1949-51 7,674 87.0 .4 1909-11 6,932 96.5 .2 1949-51 3,947 98.7 .3 1939-41 6,737 98.2 .1 1939-41 10,894 1919-31 8,971 97.0 .4 1929-31 7,871 95.3 .3 1939-41 6,483 95.1 .6 1949-51 3,576 95.8 1949-51 3,576 <	17.8	17.			
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1939-41 9,429 97.3 1.3 1949-51 7,733 96.7 1.8 1909-11 8,325 1.1 1.8 1919-21 10,187 98.1 .1 1929-31 8,653 97.4 .2 1939-41 10,081 97.0 .2 1939-41 10,081 97.0 .2 1949-51 7,674 87.0 .4 1939-41 6,260 1 .1 1949-51 5,289 96.0 .1 1939-41 6,6737 98.2 .1 1939-41 6,4737 98.2 .1 1939-41 6,483 95.1 .6 1939-41 6,483 95.1 .6 1939-41 6,483 95.1 .6 1939-41 6,483 95.1 .6 1939-41 1,643 96.5 .3 1939-41 1,643 97.0 .4 1939-31 3,576 96.3	4.2	20.			
1949-51 7,733 95.7 1.8 iouthmast 1909-11 8,325 1 1 1915-21 10,187 98.1 .1 1 1928-31 8,653 97.4 .2 1 1928-31 8,653 97.4 .2 1 1939-41 10,061 97.0 .2 1 1949-51 7,674 87.0 .4 .2 1949-51 5,289 96.5 .2 .1 1929-31 5,289 96.7 .3 .1 1939-41 6,433 96.7 .3 .1 1949-51 3,947 96.7 .3 .3 1939-41 6,483 95.1 .6 .4 1949-51 3,576 95.8 .7 .7 fountain 1909-11 575 .3.0 .9 .1 1949-51 1,625 75.6 4.4 .9 .9 1923-31 2,174 75.5	1.5				
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Noite 1909-11 6,260 1919-21 6,833 96,5 .2 1929-31 5,289 96,0 .1 1939-41 6,737 98.2 .1 1949-51 3,947 96,7 .3 1949-51 3,947 96,7 .3 1949-51 3,947 96,7 .3 1949-51 3,947 96,7 .3 1939-41 6,433 95,1 .6 1949-51 3,576 96,8 .7 1939-41 6,433 95,1 .6 1949-51 3,576 96,8 .7 fountain 1909-11 575 1919-31 2,174 75,5 3.0 1929-41 1,663 64,6 9.1 1949-51 1,007 52.9 18.4 1949-51 1,007 52.9 18.4 1949-51 100 44.9 28,3 1929-41 175 49.4 32.	5.6	ц.			
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1939-41 6,483 95.1 .6 1949-51 3,576 96.8 .7 1919-31 1,625 75.6 4.4 1929-31 2,174 75.5 3.0 1939-41 1,663 64.6 9.1 1919-31 2,174 75.5 3.0 1939-41 1,463 64.6 9.1 1949-51 1,007 52.9 18.4 1919-31 348 58.8 28.9 1929-31 180 44.9 28.3 1929-31 180 44.9 28.3 1929-31 180 44.9 28.3 1929-31 175 49.4 32.1 1949-32 117 46.4 41.6 1949-31 101,287 101,287 101,287	4.4	16.3			
1949-51 3,576 96,8 .7 fountain 1909-11 575	4,3	17.1			
fountain 1909-11 575 1919-31 1,625 75.6 4.4 1923-31 2,174 75.5 3.0 1929-31 1,463 64.6 9.1 1949-51 1,007 52.9 18.4 1919-31 348 58.9 28.9 1929-41 175 49.4 32.1 1939-41 175 49.4 32.1 1949-51 117 46.4 41.6	2.5	20.4			
1919-21 1,635 75.6 4.4 1923-31 2,174 75.5 3.0 1929-31 2,174 75.5 3.0 1929-31 1,463 64.6 9.1 1949-51 1,007 52.9 18.4 1919-31 348 58.9 28.9 1929-31 180 44.9 26.3 1929-31 190 44.9 26.3 1929-31 197 49.4 32.1 1949-31 175 49.4 32.1 1949-31 117 46.4 41.6 1949-31 117 46.4 41.6					
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1949-51 1,007 52.9 18.4 noifig 1909-11 134	31.5	15,1			
baifia 1909-11 134 1919-31 248 58.9 28.9 1929-31 180 44.9 28.3 1929-41 175 49.4 32.1 1949-31 117 46.4 41.6 1949-31 101,287 101,287 101,287	26,3	14.3			
1919-31 345 56.8 28.9 1929-31 180 44.9 38.3 1939-41 175 49.4 32.1 1949-31 117 46.4 41.6 1949-31 101,287 1	28,8	23,3			
1919-31 348 58.9 28.9 1929-31 180 44.9 28.3 1939-41 175 49.4 32.1 1949-31 117 46.4 41.6 1949-31 101,287 56.9 28.9		28.9			
1929-31 180 44.9 28,3 1939-41 175 49.4 32.1 1949-31 117 46.4 41.6 alted States 1909-11 101,287 1	12.3	30.6			
1929-41 175 49.4 32.1 1949-31 117 46.4 41.6 altrd States 1969-11 101,287 1	26.9	33,3			
1949-31 117 46.4 41.6 mited States 1909-11 101,287	18.5	32.4			
mited States 1909-11 101,287	12.0	38.7			
· · · · · · · · · · · · · · · · · · ·	16.7				
		36.1			
1919-31 100,666 69.1 3.5	7.4	28.7			
1929-31 102,045 84.9 4.4	10.7	23.4			
1939-41 86,791 89.3 5.1	5.6	29.5			
1949-61 82,906 89.1 5.7	5.2	37,1			

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Table 1. - Corn: Acreage harvested, utilization of the group, and yield per harvested acre, by State groups, average of specified periods

1/See table 2 for States included in specified group.



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Table 2. - Corn for Grain: Acreage harvested with corn pickers, and number of corn pickers on farms, by States and State groups, specified years

			·····	Acreage fo	e for grain					Corn pickers	
State		Percentage harvested with field				on farm					
and area			type sechanical corn picker			January 1					
	1938	1943	1946	1951	1938	1943	1946	1951	1942	1952	
	1,000 <u>acres</u>	1,000 <u>acres</u>	1,000 <u>ACT08</u>	1,000 <u>acres</u>	Percent	Percent	Percent	Percent	Number	Number	
Fortheast					1						
New England	38	28	25	20		3	13	65		200	
New York	198	131	153	172	1	13	25	76	100	2,700	
New Jorsey	144	127	125	135	2	12	20	70	200	1,500	
Pennsylvania	1,080	1,024	1,065	1,953	3	10	29	75	600	12,500	
Delaware	139	130	134	151] <u>1</u> .	4	22	70	20	1,000	
Meryland	463	413	412	496		5	_20		85.	4.199	
Total	2,062	1,853	1,904	1,937	5	9.0	26.5	73.1	1,005	22,000	
Corn Belt			5		1				!		
Ch1o	3,350	3,186	3,405	3,334	12	34	55	87	9,200	45,000	
Indiana	4,003	4,114	4,398	4,396	22	54	65	93	11,900	58,000	
Illinois	8,073	8,023	8,553	8,584	43	65	75	93	32,100	92,000	
Iova	9,944	10,127	10,600	9,907	35	63	76	95	37,000	111,000	
Kissouri	4.142	4.172	4,239	3,589		2	18	60	1.800	25,000	
Total	29,412	29,622	31,195	30,010	85	51,1	64.9	88,9	98,000	332,000	
Lake States						~~			1 000		
Michigan	1 340	1,043 1,302	1,243	1,365	5 5	23 21	37	80 80	1,900	14,000	
Visconsin Minnezota	1,164 3,360	4,102	1,399 4,,323	1,378	35	65	.76	95	2,700	57,000	
Total	5,764	5.447	6,865	7.053	22	49.4	61.4	89.4	22,500	84,000	
			0,000								
Great Plains North Dakota	307	419	437	405	5	61	72	91	1,100	7,500	
South Dakota	2,231	2,799	3,529	2,580	18	44	72	95	6.800	36.000	
Nebraska	6,513	7,499	7,418	6,736	4	21	45	90	4,100	54,000	
Kansas	1,944	2,987	2,469	2.187	1	12	. 24	73	1.000	16.500	
Total	11,095	13,704	13,853	12,198	6	25.0	49.0	88.2	13,000	114,000	
Appalachian			1		<u> </u>		<u>†</u>		1	1	
West Virginia	412	347	284	202	<u></u>	<i>¥</i>	2	20	10	600	
Lentucky	2 484	2.457	2,194	2,104	3	1	8	41	200	7,400	
Tennessee	5.658	2,508	2,106	1,899		1	3	16	360	3,000	
Virginia	1,387	1,282	1,017	885	<u></u>	1	10	- 44	40	4,000	
North Carolina	2,388	2,352	2,104	2.107	<u> </u>	<u> </u>	╞╼╩╾┈	15	30-	3,000	
Total	9,199	8,789	7,706	7,198	 .	1.0	5.6	26.5	640	18,000	
Southeast South Carolina	1,818	1,553	1,415	1,263	1 1/	/د	2	6	5	700	
Georgia	4,504	3,511	2.886	2,554	1/1 1/1	ע ו	ĩ	7	40	1.400	
Florida	694	595	626	379	-	Ξ.	3	4		200	
Alabama	3.564	3,128	3.531	2,247		1/	li	2	40	1.300	
Total	10,580	8,787	7,358	6,443		[1.3	6.6	85	3,500	
Delta					[1		
Hississippi	3,162	2,626	2,173	1,594	1 <i>U</i>	1	1	10	50	1,200	
Louisians	1,673	1,242	975	677	<u> </u>		1	4	!	500	
Artancas	2,338	1.570	1.436	955		1/	<u> </u>	11	20	1.300	
Total	7,063	6,638	4,583	3,326	4	<u>\</u>	1.0	9.1	40	3,000	
Orla-Tezas Orlahoma	1	1	1 110	946		2	6	23	100	2,500	
Texhe	1,653	1,673	1,317	3,176	1	15			200		
Total	6,377	<u>4,573</u> 6,145	<u>3,019</u> 4,336	3,122		1.3	6.0	27 28.8	300	<u>4,500</u> 7,000	
Nountain					+	1	1	t	†	t	
Colorado	777	676	372	370	4.0	12	28	70	180	S. 900	
Other Mt. States	367	275	188	120	5	7	12	22	190	900	
1	1,144	951	560	490	2.9	10.4	22.6	58.3	360	3,700	
Total						†	+		<u> </u>	†	
Pacific States	92	70	51	49	<u> </u>	12.7	30	60.0	100	700	
United States	82,788	81,906	78,410	71,926	12.0	27.1	41.1	68,2	130,030	588,900	

1/Less than one-half of 1 percent.

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Table	3 Corn for Grain: Method of harvesting, by
	States and State groups, 1943 and 1951

			3 crep			195	crop	
State	f i		tage barvest		4	Percentage harvested		
	1	From stands	ter stalk	Shocked		Fron stand	ing stalk	Shocked
and	Acreage		<u> </u>	COTA	Acreage	_		COFR
area	harvested	Corn	Ву	husked	harvested	Corn	Ву	husked
		picker	hand	or		picker	hand	or
			<u> </u>	enapped			┨╍╼╼╍╼╼ ┙	Sugrage 4
	1.000 acres	Percent	Percent	Percent	1.900 acres	Percent	Percent	Percent
Northcast	1							
New England	28	3	28	69	20	65	20	16
Yew York	131	13	28	59	172	75	11	14
Hew Jersey	127	12	42	46	135	70	50	10
Pennsylvania Belaware	1,024	10	31	59 77	1,053	75 70	13	12 20
Noryland	413	5	12	. 83	406	70	10	19
-								** -** - * -=
Total	1,953	9.0	26.0	65.0	1,937	73.1	12.7	14.3
Corn Belt								
O <u>ni</u> o	3,136	34	19	47	3,334	87	5	8
Indiana	4,114	54	35	11	4,396	93	5	2
Illinois	8.023	65	30	5	8,684	93	6	1
Iova Nissouri	10,127	63 7	35	22	9,907	95	4	1
	4.173		71		3.699	60	35	5
Total	29,522	51.1	37.2	11.7	30,010	88.9	8.5	2.5
Lake States		1					1	1
Michigan	1,043	23	22	55	1,365	80	7	13
Wisconsin	1,302	21	24	55	1,278	80	9	11
Mingesota	4,103	65	23	15	4.410	95	3	2
Total	6.447	49.4	23.0	27.5	7,053	89.4	4.9	5.7
Great Plains				L				<u> </u>
North Dakota	419	61	27	12	405	91		
South Dakota	2,799	44	53	3	2,880	91	3	6
Nebraska	7,499	21	78	lĭ	6,726	90	9	1 1
Капаля	2,987	12	81	1 7	2,187	73	24	3
Total					<u> </u>			
10181	13,704	25.0	71.9	3.1	12,198	88.2	10.3	1.5
Appalachian							1	1
Wost Virginia	347	1	10	89	202	30	28	52
Kentucky	3,457	1	37	62	2,104	41	45	14
Tennessee	2,508	1	74	25	1,899	16	74	10
Virginia	1,225	1	20	79	886	44	5 6	30
North Carolina	2,352	t	81	19	2.107	15	76	9
Totel	8,789	1.0	55.5	43.5	7,198	26.5	58.9	14.5
Southeast					1			1
South Carolina	1,553	/د	97	3	1,263	6	92	2
Georgia	3,511	Ĩ/	97	š	2,554	7	91	2
Florida	595	1/	95	5	379	4	94	2
Alabama	3.128	l I/	98	2	2,247	7	91	2
								7
Total	8,787	1/	97.2	2.8	6,443	6,6	91.4	<u>2.0</u>
Delta	· _ ·	1 .		}				
Hististippi	2,326	<u></u> ,	93	7	1,694	10	88	5
Louisiana	1,348	1/	95	5	677	4	93	3
Arkansas	1.670	<u>_</u> /	- 24	6	955	11	64	5
Total	5,638	1/	93.8	6.2	,3,326	9.1	87.9	3.0
OclaToxas					+		1	t
Orlehona	1,573	2	89	9	946	33	63	4
Texas	4.673	1	98	1	2,176	27	71	2
Total	6,145	1.3	95.9	2.9	3,122	28.6	68.5	2.6
		A 40	50.5					+
Hountain					l			· .
Colorado	676	13	77	11	370	70	26	4
Other Ht. States	275	7	81	12	120		72	6
Total	951	10.4	78.3	11.4	490	58,3	37.3	4.4
1		12.7	76.8	10.5	49	60.0	35.0	5.0
B	7U I							
Pacific States	70	200.7	10.0	1010				

1/less than one-half of 1 percent.

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22310	4 Corn	for Grains	Nathod of	harvesting	OR SERIE
হৈ হা	pecifiet a	torenge of a	oorn by Stat	te groups,	1951

	Percentere Investel On farme with corn screare of -								
Item	Less	Less 10 to 19 20 to 34 35 to 54 55 to 99 100 and							
	Percent	Percent	Percent	Percent	Percent	Percent	Pares Percent		
Fortheast	1 110000								
Enrested from -			1				1		
Standing stalk					ł				
Corn picker	45.0	68.0	81.0	89.0	91.0	98.0	73.1		
By hand Shocked corn	34,0	21.0	10.0	6.0	5,0	1.0	12.7		
Basked or snapped	80-0	11.0	9.0	5.0	4.0	1.0	14.3		
Corn Belt			1				1		
Hervested from -		Ì	Ì			1			
Standing stalk	1						1		
Corn picker By <u>hend</u>	35.0	59.0 31.0	77.0	89.0 9.0	96.0 3.0	98.0 1.0	88.9 8.6		
Shocked corn	10.0	01.0	13.0	3.0	2.0	1	0.0		
Hatted or engyped	19.0	10.9	4.0	2.0	1.0	1.9	2.5		
Late States									
Harvested from -									
Standing stalk			ļ.	·			ł		
Corn picker	51.0	72.0	89.0	96.0	98.0	98.0	89.4		
By hand	26.0	13.9	5.0	2.0	1.0	1.0	4.9		
Shocked cors Busked or anapped	23.0	1 70 0	6.0		1		1		
	23.0	15.0	0.0	2.0	1,0	1.0	5.7		
Great Plains Envested from -					1				
Standing stalk	4					1			
Corn picker	35.9	57.0	71.0	84.0	93.9	97.0	88.2		
By hand	54.0	38.9	26.9	15.0	5.5	2.5	10.3		
Shocked corn						1			
Ensked or snapped	11.0	5.0	3.0	1.0	.5	.5	1.5		
Appelechien				ł	1		·		
Bervested from -			ļ	1	1				
Standing stalk					1	ş			
Corn picker	5,0	15.0	24.0	37.0	55.0	56.0	26.6		
By hand	55.0	67.0	64.0	57.0	40.0	40.0	58,9		
Shocked corn Snaked or snapped	40.0	18.0	12.0	6.0	5.0	4.0	14.5		
	10.0	10.0		0.0		1	14.9		
Southeast Harvested from -			Í		1	1	1		
Standing stalk		1		1	i	ł			
Corn picker	1.0	2.0	4.0	10.9	25.9	27.0	6.6		
By hand	94.9	94.0	94.0	89.0	74.5	72.5	91.4		
Shocked corn			1		1				
Ensked or sampped	5.0	4.0	2.0	1.0	₽ ₽	.5	2.0		
Delta	•		1				[
Hervested from -									
Standing stalk	1			1					
Corr picker	1.0	2.0	6.0	12.0	18.0	20.0	9.1		
By hand	95.0	94.0	90.0	65.0	80.0	79.0	87.9		
Shocked corn Masked or assuped	4.0	4.0	4.0	3.0	2.0	1.0	3.0		
	1.0		1	0.0		1.0			
Gile,-Texas	f f	1							
Enrested from - Standing stalk				1		1			
Corn picker	3.0	16.0	30.0	39.0	48.0	60.0	28.9		
By hand	94.0	81.0	66.0	59.0	50.0	38.0	68.5		
Shocked cora				_	1				
Ensked or enapped	3.0	3.0	2.0	2.0	5.0	2.0	2,6		
Yest			1	1					
Hervested from -			i	1					
Standing stalk			1		1		1		
Corn picker	25.0	58.0	50.0	63.0	74.0	79.0	58.4		
By hand	69.0	38.0	36.0	33.0	22.0	18.0	37.1		
Shocked corn Basked or snapped	6.9	4.0	4.0			1			
••	0.9	1	3.0	4.0	4,0	3.0	4,5		
United States	1	1		1	1	1			
Harvested from -		1	1	1	1	[1		
Standing stalk Gorn picker	21.0	28.0	57.0	73.0	\$5.0	89.9	68.2		
By hand	57.9	58.0	38.9	25.0	11.0	10,5	27.6		
Sheekod corn			1	1					
insked or encoped	22.0	10.0	5.0	3.0	1.0	.5	4.2		

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State	l	Pe	rcentere or	sorence be	vested	How binders on farms January 1		
and	Tro:	a standing by band	stalk	0	at and shocks			
A788	1913 1/	1943	1951	1913	iced or enaut 1943	1951	1942	1951
	Percent	Percent	Percent	Percent	Percent	Percent	Number	Funber
Fortheast			[
Hey Ingland Hey York	<u>a/</u> , :	28	20	2/ 2/	69	15	7,300	7,500
New Jorgey	2/	28 43	20	2/	59 46	14	36,000	25,000
Pennsylvania	2/ 2/ 2	31	13	2/ 98	*** 59	10 12	1,700	2,500
Delaware	2/	19	10	3/	77	20	25	19,000
Maryland	2/	. 12	21	2/	83	19	1,600	2,400
Total	9	26.0	12.7	91	65.0	14.3	64.625	56,500
Corn Belt						1	<u> </u>	1
Ohio	9	39	5	91	47	6	39,000	25,000
Indiana 1934	39	35	5	61	11	2	18,000	10,000
Illiacis Iova	59	30	6	41	5	1	25,000	12,000
Kissouri	80 42	35 71	4	20 58	25 2	1 5	40,000	21,000
Total	53			<u> </u>			9.000	9,000
Lake States		37,2	8.6	47	11.7	2,5	131,900	77.900
Kichigan	2	22	7	98	55	13	37,000	31,000
Visconsin	9	24	9	91	55	l n	88,000	55,000
Xinnesota	43		3	57	12	3	72.000	53 200
Total	24	S3*0	6.9	76	27.5	5.7	197,000	139,000
Great Plains			Į –			1		
North Darota	25	27	3	75	15	6	18,000	13,000
South Dakota Nebraska	51	53	4	49	3	1 1	18,500	12.000
Kansas	58 54	78 81	9 24	42	17	1 3	22,000 33,000	15,000
							· · · · · · · · · · · · · · · · · · ·	23,000
Total	55	71.9	10.3	45	3.1	1.5	50,500	63,000
Appalachian Vest Virginia	5	10	28	95	89	52	300	500
Kentucky	30	37	45	70	62	14	500	2,000
Tennessee	73	74	74	27	25	10	800	2,500
Virginia	18	50	28	82	79	30	500	3,500
North Carolina	64	81	76	16	<u>19</u>	9	600	2,000
Total	53	55.5	58.9	48	43.5	14.5	2,700	10,500
Southeast		_				i		<u> </u>
South Carolina	93	97	92	?	3	2	200	800
Georgia Florida	95 96	97 95	91 94	6	3 6	3	300	1,000
Alabsaa	94	98	91		2	2		100 600
Total	94	97.2	91.4	6	2.8	2.0	800	2,500
Delta								6,300
Mississippi	98	93	88	8	7	2	700	900
Louisiana	98	95	93	5	5	3	100	500
Arkansas	90	94	84	10	6	<u>5</u>	600	800
Total	95	93.8	87.9	5	6.2	3,0	1,400	2,300
Okla,-Texas			_					
Oklahosa	76	89	63	34	9	4	7,000	6,000
Toins .	90		71	10		3	18,000	21,000
Totel	84	95.9	68.6	16	2.9	5.6	25,000	27,000
Nountain								
Golorado Other Ht.States	67 50	77 61	26.0	33	11	4	5,000	2,600
_	50		73.0	50	13	6	7.670	4.700
Total	61	78.2	37,3	39	11.4	4.4	12,670	7,300
Pacific States	54	75.0	36.9	46	10.5	5.0	1,100	1,000
United States	61	58,8	87.5	39	14,1	4.2	526,795	386,000

Table 5. - Corn for Grain: Percentage of acroage harvested, by designated methods and number of row binders on farms, by State groups, specified years

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1/Includes acreage harvested with corn pickers. Only 1,000 corn pickers were estimated on U.S. farms in 1910, so that probably less than 0.1 percent of the 1913 corn acreage was harvested with pickers.

2/Included in State group total.

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