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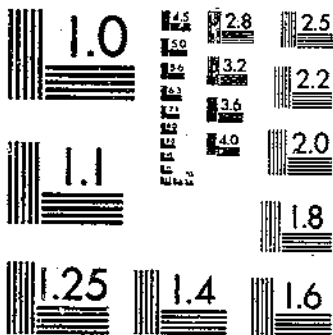
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FARM CHARACTERISTICS, PRODUCTION AND LAND RESOURCES, BY PRODUCTION

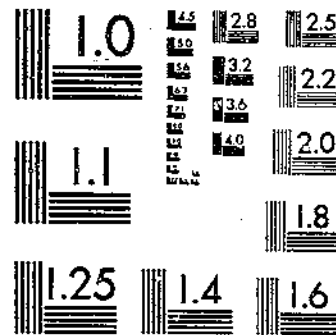
CHARLES J. H. WILLIAMS, D. L. MARTIN, N. R. JR.

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## ABSTRACT

Data on the agricultural resource base in the North Central region are given by relatively homogeneous farm production areas. Forty-three tables contain 1969 Agricultural Census data on farm and operator characteristics and livestock and crop production, 1972 data on bases and allotments from the Agricultural Stabilization and Conservation Service, and 1967 land resource data from the Conservation Needs Inventory.

Keywords: Crops, farms, farm operators, livestock, North Central region.

## ACKNOWLEDGMENTS

Many people helped compile the data in this report. Nobel Veal and Herbert Hinman, Economic Research Service, worked closely with the Agricultural Stabilization and Conservation Service and the Statistical Reporting Service in Washington, D.C., to get county data compiled into the farm production areas. Nobel also compiled the agricultural census data. N.R. Martin, Jr., while at the University of Illinois, compiled the Conservation Needs Inventory data into areas. Maurice Smith set up most of the tables.

Washington, D.C. 20250

July 1974

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# FARM CHARACTERISTICS, PRODUCTION, AND LAND RESOURCES,

## BY PRODUCTION AREAS OF THE NORTH CENTRAL REGION

by

J. A. Sharples, D. L. Williams, and N. R. Martin, Jr. 1/

### INTRODUCTION

Information is presented on the agricultural resource base in the North Central region of the United States by relatively homogeneous farm production areas. This report complements ERS-458 (10), 2/ which contains crop budgets for the same farm production areas. These two publications provide major components of the data base available to researchers for use in analyzing farm production and resource use in the North Central region.

The North Central region consists of Ohio, Indiana, Michigan, Illinois, Missouri, Iowa, Minnesota, and Wisconsin. It is subdivided into 25 production areas (fig. 1). Area boundaries follow the boundaries of the Census of Agriculture subregions or State lines. The counties in each production area are listed in appendix table 6.

Tables 1 to 25 provide 1969 Census of Agriculture data on farm and operator characteristics and livestock production for all farms. Tables 26 to 32 provide 1971 crop production data. Table 33 shows 1972 feed grain bases, wheat allotments, cotton allotments, conserving base, and cropland on eligible farms. Tables 34 to 38 provide land resource data from the Conservation Needs Inventory (CNI) of 1967. Appendix figures 1-9 show selected items of farm data from the 1969 Census for commercial (class 1-5) farms. Further CNI land resource information is presented in the appendix.

The sources of data for this report were (a) special tabulations from the 1969 Census of Agriculture, (b) reports provided by the Statistical Reporting Service (SRS), USDA, (c) special tabulations provided by the Agricultural Stabilization and Conservation Service (ASCS), USDA, and (d) the Conservation Needs Inventory of 1967. Definitions of all terms used in this report are the same as in the original data source.

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1/Agricultural Economists, Economic Research Service. Sharples (Commodity Economics Division) and Williams (National Economic Analysis Division) are stationed at Purdue University; Martin (CED) is stationed at the University of Georgia. This report is also journal paper 5414, from the Purdue University Agricultural Experiment Station.

2/Underscored numbers in parentheses refer to items in References on page 44.



Yields for crops shown in tables 26 to 32 were computed from rounded acreage and total production data and therefore may differ slightly from computations based on unrounded data. Details in some tables may not add to totals due to rounding.

The 1967 Conservation Needs Inventory, the 1969 census data, and the 1972 ASCS data differ somewhat regarding the quantity of land in various categories. The differences can be attributed to differences in definition and differences in the time the data were obtained.

# Farm Production Areas in the North-Central Region

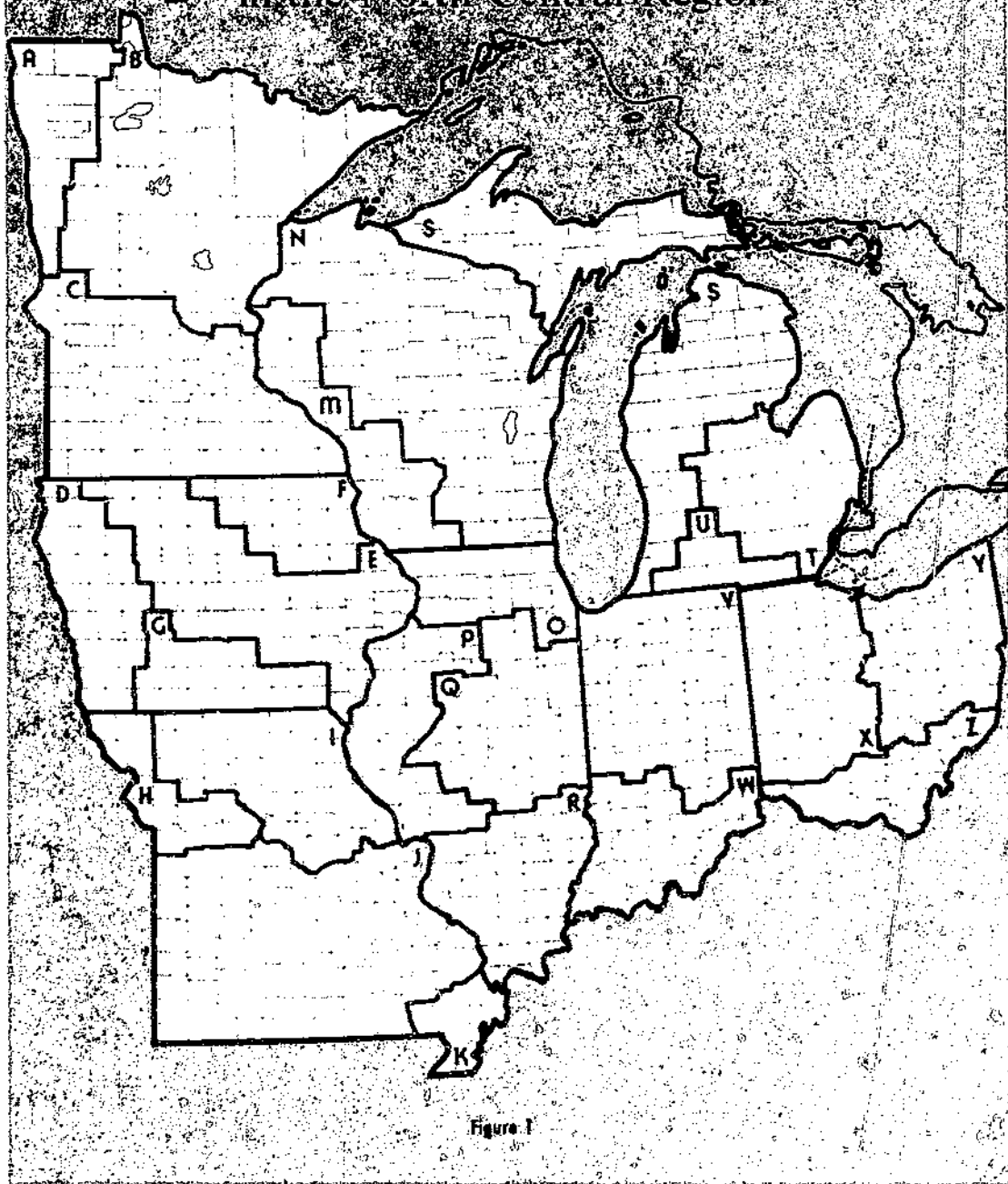


Figure 1

Table 1--Number of farms by economic (sales) class, 1/ North Central region, 1969

Area	Full time						Part	Part	Total
	\$40,000: & over	\$20,000-: 39,999	\$10,000-: 19,999	\$5,000-: 9,999	\$2,500-: 4,999	Under: \$2,500	time 2/	retire- ment 3/	
Number of farms									
Minn.:	7,315	19,509	27,081	20,976	14,142	4,055	13,126	4,513	110,717
A	805	1,570	2,157	2,252	1,820	527	1,129	577	10,837
B	531	2,024	5,244	5,597	4,589	1,538	5,816	1,880	27,219
C	5,979	15,915	19,680	13,127	7,733	1,990	6,181	2,056	72,661
Iowa:	23,833	34,860	31,978	20,543	12,281	3,178	10,309	3,310	140,292
D	7,434	8,148	6,812	4,141	2,234	665	1,518	506	31,458
E	11,784	16,405	14,111	8,508	4,785	1,255	4,403	1,225	62,476
F	2,884	6,466	6,220	3,924	2,174	538	1,785	500	24,491
G	1,731	3,841	4,835	3,970	3,088	720	2,603	1,079	21,867
Mo.:	6,386	13,021	19,410	23,346	24,340	9,097	28,584	12,854	137,038
H	1,496	2,456	2,913	2,938	2,713	800	3,155	1,287	17,758
I	1,971	4,363	6,583	7,183	6,783	2,180	6,378	3,243	38,684
J	2,201	5,006	8,334	11,814	13,513	5,531	17,872	7,963	72,234
K	718	1,196	1,580	1,411	1,331	586	1,179	361	8,362
Wis.:	5,309	18,557	24,741	17,056	11,269	3,181	13,576	5,230	98,919
M	1,848	6,773	8,324	5,299	3,248	926	3,540	1,569	31,527
N	3,461	11,784	16,417	11,757	8,021	2,255	10,036	3,661	67,392
Ill.:	16,630	25,859	25,097	18,729	14,171	3,595	14,943	4,519	123,543
O	3,482	4,648	4,045	2,570	1,732	427	1,911	529	19,344
P	4,959	6,611	6,086	4,631	3,194	746	3,041	912	30,180
Q	6,406	10,056	8,700	5,150	3,052	751	3,217	797	38,129
R	1,783	4,544	6,266	6,378	6,193	1,671	6,774	2,281	35,790
Mich.:	3,975	7,459	9,281	10,887	12,569	4,154	22,631	6,962	77,918
S	1,310	2,381	3,031	3,568	4,128	1,414	7,340	2,498	25,670
T	1,994	3,960	4,881	5,484	6,321	2,025	11,165	3,335	39,165
U	671	1,118	1,369	1,835	2,120	715	4,126	1,129	13,073
Ind.:	7,730	12,684	14,892	15,745	16,213	4,192	23,471	6,507	101,434
V	6,082	9,667	10,753	10,734	10,439	2,451	14,419	3,815	68,360
W	1,648	3,017	4,139	5,011	5,774	1,741	9,052	2,692	33,074
Ohio:	5,915	11,627	14,645	16,465	17,617	5,791	29,714	9,494	111,268
X	3,959	7,576	8,949	9,406	9,192	2,276	12,041	3,197	56,596
Y	1,555	3,106	4,129	4,642	5,400	1,802	11,008	3,767	35,409
Z	401	945	1,567	2,417	3,025	1,713	6,665	2,530	19,263
Region:	77,093	143,576	167,125	143,747	122,602	37,243	156,354	53,389	901,129

1/Based on total sales of products from the farm in 1969.

2/Sales of \$50 to \$2,499; operator under 65 years and working off-farm 100 days or more.

3/Sales of \$50 to \$2,499; operator 65 years of age or over.

4/Excludes abnormal farms (institutional, experimental, and research farms and Indian reservations) of which there were approximately 319 in the region.

Table 2--Number of farm operators by age groups, North Central region, 1969

	: Under :	25 to :	35 to :	45 to :	55 to :	65 :	Total
Area	: 25	: 34	: 44	: 54	: 64	: years	: or over:
	: years	: years	: years	: years	: years	: or over:	
	<u>Number of operators</u>						
Minn.:	2,344	13,645	24,028	30,520	27,302	12,916	110,745
A	244	1,296	2,080	2,965	2,789	1,464	10,838
B	422	2,952	5,696	7,208	7,019	3,927	27,224
C	1,668	9,397	16,252	20,347	17,494	7,525	72,683
Iowa:	3,600	18,374	31,235	39,255	33,543	14,347	140,354
D	859	3,932	7,227	8,875	7,617	2,957	31,467
E	1,626	8,350	13,903	17,723	14,937	5,966	62,505
F	604	3,575	5,662	6,986	5,578	2,095	24,500
G	511	2,517	4,443	5,671	5,411	3,329	21,882
Mo.:	2,981	13,842	24,196	33,663	35,839	26,546	137,067
H	469	1,876	3,269	4,464	4,351	3,335	17,764
I	1,015	4,169	6,497	9,342	9,911	7,757	38,691
J	1,306	6,849	12,778	17,437	19,254	14,625	72,249
K	191	948	1,652	2,420	2,323	829	8,363
Wis.:	2,116	11,193	21,499	27,706	23,377	13,079	98,970
M	839	3,862	6,951	8,877	6,891	4,117	31,537
N	1,277	7,331	14,548	18,829	16,486	8,962	67,433
Ill.:	3,018	14,498	25,137	34,054	30,744	16,114	123,565
O	510	2,312	4,265	5,519	4,488	2,258	19,352
P	741	3,587	6,181	8,258	7,449	3,967	30,183
Q	906	4,365	7,698	10,949	9,650	4,565	38,133
R	861	4,234	6,993	9,328	9,157	5,324	35,897
Mich.:	1,642	8,700	15,714	21,018	18,933	11,929	77,936
S	328	2,670	4,938	6,959	6,554	4,227	25,676
T	933	4,440	8,110	10,649	9,298	5,740	39,174
U	381	1,586	2,666	3,410	3,081	1,962	13,086
Ind.:	2,459	12,732	20,833	26,835	23,661	14,959	101,479
V	1,814	8,775	14,116	18,236	15,760	9,694	68,395
W	645	3,957	6,717	8,599	7,901	5,265	33,084
Ohio:	2,832	12,765	22,273	29,557	26,106	17,799	111,332
X	1,904	7,102	11,607	15,547	12,911	7,554	56,625
Y	631	3,781	7,124	9,196	8,288	6,416	35,436
Z	297	1,882	3,542	4,814	4,907	3,829	19,271
Region	20,982	105,749	184,915	242,608	219,505	127,689	901,448



Table 4--Number of all farms, land acreages, and real estate values, North Central region, 1969

Area	All farms	Average Size	Approx. land area	Land in farms	Proportion of land in farms	Value of land and buildings		
						Total	Average per farm	Average per acre
	Number	Acres	--1,000 acres--		Percent	\$1,000	--Dollars--	
Minn.:	110,745	260	49,903	28,845	58	5,512	58,804	226
A	10,838	486	6,616	5,266	80	724	66,760	137
B	27,224	229	23,435	6,228	27	736	27,040	118
C	72,683	239	19,852	17,351	87	5,053	69,515	291
Iowa:	140,354	239	35,802	33,570	94	13,150	93,694	392
D	31,467	255	8,311	8,009	96	3,165	100,577	395
E	62,505	236	15,757	14,730	94	6,716	107,463	456
F	24,500	215	5,685	5,267	93	1,925	78,571	365
G	21,882	254	6,050	5,562	92	1,344	61,401	242
Mo.:	137,067	237	44,117	32,420	74	7,269	53,034	224
H	17,764	236	4,636	4,190	90	1,328	74,783	317
I	38,691	261	11,253	10,099	90	2,125	54,919	210
J	72,249	219	25,611	15,840	62	2,922	40,437	184
K	8,363	274	2,617	2,291	88	894	106,937	390
Wis.:	98,970	183	34,527	18,108	52	4,201	42,449	232
M	31,537	206	8,287	6,486	78	1,207	38,284	186
N	67,433	172	26,340	11,622	44	2,994	44,396	258
Ill.:	123,565	242	35,680	29,913	84	14,643	118,508	490
O	19,352	219	5,734	4,229	74	2,922	150,971	406
P	30,183	255	8,576	7,683	90	3,123	103,453	592
Q	38,133	272	11,256	10,390	92	6,146	161,182	322
R	35,897	212	10,114	7,611	75	2,453	68,332	490
Mich.:	77,936	153	35,659	11,899	33	3,883	49,824	326
S	25,676	157	22,703	4,031	18	932	36,301	231
T	39,174	148	9,961	5,806	58	2,299	58,676	396
U	13,086	158	2,995	2,061	69	652	49,860	316
Ind.:	101,479	173	23,102	17,572	76	7,135	70,316	406
V	68,395	178	14,605	12,155	83	5,471	79,995	450
W	33,084	164	8,496	5,417	64	1,664	50,307	307
Ohio:	111,332	154	25,967	17,111	66	6,819	61,251	399
X	56,625	164	10,697	9,276	87	4,522	79,864	488
Y	35,436	139	9,338	4,935	53	1,648	46,514	334
Z	19,271	151	5,932	2,900	49	649	33,661	224
Region	901,448	210	284,859	189,440	67	63,614	70,569	336

Table 5--Farms and acreages operated by all operators and by full owners, North Central region, 1969

Area	All farm operators				Full owners <sup>1/</sup>			
	Farms	Area	Harvested cropland		Farms	Area	Harvested cropland	
			Farms	Area			Farms	Area
	Number	1,000 acres	Number	1,000 acres	Number	1,000 acres	Number	1,000 acres
Minn.:	110,745	28,845	102,874	15,649	67,601	13,016	60,632	6,197
A	10,838	5,266	10,130	2,879	5,959	1,876	5,334	873
B	27,224	6,228	24,37	2,308	19,907	3,838	17,681	1,263
C	72,683	17,351	68,077	10,462	41,735	7,302	37,617	4,060
Iowa:	140,354	33,570	128,791	19,287	71,266	12,071	61,265	6,021
D	31,467	8,009	28,958	2,799	13,738	2,443	11,574	1,303
E	62,505	14,730	57,587	9,208	29,567	4,730	25,327	2,584
F	24,500	5,268	22,782	2,991	14,479	2,377	12,954	1,246
G	21,882	5,562	19,464	2,289	13,482	2,521	11,410	888
Mo.:	137,067	32,420	105,853	10,036	96,985	17,612	69,383	3,885
H	17,764	4,190	14,692	1,629	10,916	1,660	8,247	522
I	38,619	10,099	32,156	3,356	26,394	5,255	20,612	1,446
J	72,249	15,840	51,577	3,350	56,073	10,192	37,733	1,647
K	8,363	2,291	7,428	1,701	3,602	505	2,791	269
Wis.:	98,970	18,109	92,194	8,134	72,564	11,566	66,510	4,641
M	31,537	6,486	29,336	2,635	23,368	4,267	21,408	1,607
N	67,433	11,622	62,858	5,498	49,196	7,300	45,102	3,034
Ill.:	123,565	29,913	111,954	19,352	56,164	8,120	46,180	4,133
O	19,352	4,229	17,877	2,849	9,861	1,474	8,626	860
P	30,183	7,683	27,182	4,450	14,360	2,347	11,798	1,096
Q	38,133	10,390	35,452	7,795	13,020	1,811	10,776	1,133
R	35,897	7,611	31,443	4,210	18,923	2,488	14,980	1,044
Mich.:	77,936	11,899	70,597	5,501	56,253	6,687	49,506	2,508
S	25,676	4,031	23,108	1,426	19,715	2,549	17,346	770
T	39,174	5,806	35,735	3,103	26,895	2,003	23,765	1,301
U	13,086	2,062	11,754	973	9,643	1,134	8,395	437
Ind.:	101,479	17,573	88,350	9,670	64,393	7,042	52,254	2,920
V	68,395	12,155	60,402	7,368	41,312	4,242	33,966	2,096
W	33,084	5,418	27,948	2,302	23,081	2,800	18,288	824
Ohio:	111,332	17,111	98,271	8,515	74,016	8,073	62,070	3,023
X	56,625	9,276	50,714	5,883	32,913	3,234	27,554	1,740
Y	35,436	4,935	31,169	1,941	26,102	2,900	22,187	917
Z	19,271	2,900	16,388	692	15,001	1,939	12,329	336
Region	901,448	189,440	798,884	96,144	559,242	84,186	467,800	33,329

<sup>1/</sup>Operators who own all the land they farm.

Table 6--Farms and acreages operated by part owners and by tenants, North Central Region, 1969

Area	Part owners 1/				Tenants 2/			
	Farms		Harvested cropland		Farms		Harvested cropland	
	Number	Area	Number	Area	Number	Area	Number	Area
		1,000 acres		1,000 acres		1,000 acres		1,000 acres
Minn.:	30,224	12,496	29,881	7,342	12,920	3,333	12,361	2,109
A	3,907	2,987	3,884	1,757	972	404	912	249
B	6,352	2,188	6,201	948	965	202	855	97
C	19,965	7,321	19,796	4,638	10,983	2,727	10,954	1,763
Iowa:	35,339	12,852	34,946	7,715	33,749	8,646	32,580	5,551
D	8,593	3,135	8,486	1,928	9,136	2,431	8,898	1,568
E	16,142	5,762	15,998	3,742	16,796	4,238	16,272	2,882
F	5,272	1,803	5,233	1,078	4,749	1,088	4,595	667
G	5,332	2,152	5,239	967	3,068	889	2,815	434
Mo.:	27,285	11,524	25,568	4,523	12,797	3,284	10,902	1,627
H	4,292	1,829	4,142	777	2,556	702	2,303	330
I	8,658	3,870	8,377	1,489	3,639	974	3,167	421
J	11,816	4,706	10,578	1,384	4,360	941	3,266	319
K	2,519	1,119	2,471	875	2,242	667	2,166	557
Wis.:	19,411	5,248	19,188	2,772	6,995	1,295	6,496	720
M	5,495	1,640	5,433	750	2,674	579	2,495	278
N	13,916	3,607	13,755	2,022	4,321	715	4,001	442
Ill.:	36,416	13,284	35,927	8,992	30,985	8,510	29,847	6,226
O	3,986	1,375	3,916	973	5,505	1,380	5,335	1,017
P	7,936	3,097	7,829	1,919	7,887	2,239	7,555	1,483
Q	12,020	4,652	11,915	3,557	13,093	3,927	12,761	3,106
R	12,474	4,160	12,267	2,543	4,500	963	4,196	621
Mich.:	17,435	4,596	17,145	2,630	4,248	616	3,946	364
S	5,212	1,386	5,099	614	749	95	663	41
T	9,620	2,421	9,471	1,560	2,659	382	2,499	242
U	2,603	788	2,575	456	840	139	784	80
Ind.:	24,712	7,711	24,347	4,881	12,374	2,820	11,749	1,869
V	17,376	5,575	17,167	3,684	9,707	2,338	9,269	1,588
W	7,336	2,136	7,180	1,197	2,667	482	2,480	281
Ohio:	24,016	6,529	23,650	3,935	13,300	2,510	12,551	1,557
X	14,572	4,198	14,419	2,883	9,140	1,844	8,741	1,260
Y	6,666	1,624	6,553	825	2,668	411	2,429	199
Z	2,778	707	2,678	228	1,442	255	1,381	98
Region	214,838	74,240	210,652	42,791	127,368	31,014	120,432	20,024

1/Operators who own part and rent part of the land they farm.

2/Operators who rent all of the land they farm.



Table 7--Cropland and irrigated land, North Central Region, 1969

Area	Total cropland		Harvested cropland		Irrigated land	
	Farms	Area	Farms	Area	Farms	Area
	Number	1,000 acres	Number	1,000 acres	Number	1,000 acres
Minn.:	106,663	22,311	102,874	15,649	575	36
A	10,507	4,375	10,130	2,879	30	1
B	26,234	3,505	24,737	2,308	230	16
C	69,992	14,431	68,007	10,462	315	19
Iowa:	134,143	27,739	128,791	19,287	269	21
D	30,028	6,920	28,958	4,799	104	16
E	59,797	12,545	57,587	9,208	120	4
F	23,551	4,266	22,782	2,991	29	1/
G	20,767	4,007	19,464	2,289	16	1/
Mo.:	127,337	20,955	105,853	10,036	1,386	156
H	16,603	3,225	14,692	1,629	56	3
I	36,250	7,017	32,156	3,356	56	1
J	66,393	8,643	51,517	3,350	383	17
K	8,091	2,070	7,428	1,701	891	134
Wis.:	96,130	11,564	92,194	8,134	1,252	106
M	30,668	3,886	29,336	2,635	194	11
N	65,462	7,678	62,858	5,498	1,058	94
Ill.:	117,871	24,829	111,954	19,352	822	51
O	18,574	3,571	17,877	2,849	172	8
P	28,571	5,893	27,182	4,498	100	5
Q	36,606	9,350	35,452	7,795	303	28
R	34,120	6,014	31,443	4,210	247	9
Mich.:	75,645	8,580	70,597	5,501	2,148	77
S	24,942	2,478	23,108	1,426	1,189	36
T	38,061	4,544	35,735	3,103	721	32
U	12,642	1,558	11,754	1,000	238	9
Ind.:	96,360	13,552	88,350	9,670	682	34
V	64,940	9,915	60,402	7,368	437	29
W	31,420	3,636	27,948	2,302	245	5
Ohio:	105,854	12,447	98,271	8,515	1,024	22
X	53,561	7,773	50,714	5,883	303	7
Y	33,952	3,173	31,169	1,941	506	11
Z	18,341	1,500	16,388	1,000	215	4
Region	860,003	141,976	798,884	96,144	8,158	502

1/ Less than 500 acres.

Table 8--Number of farms by harvested acreage groups, North Central region, 1969

Area	Acres harvested								
	1-9	10-19	20-29	30-49	50-99	100-199	200-499	500- :1,000 999 :or more	
	Number of farms								
Minn.:	2,905	4,623	4,982	10,198	23,583	31,693	21,257	2,854	579
A	132	246	288	651	1,470	2,450	3,361	1,172	360
B	940	1,918	2,309	4,236	7,344	5,607	2,136	207	40
C	1,833	2,459	2,385	5,311	14,769	23,836	15,760	1,475	179
Iowa:	4,149	5,281	4,770	9,731	27,262	44,385	30,801	2,239	173
D	705	768	756	1,665	5,438	10,863	8,135	572	56
E	1,893	2,130	1,827	3,787	11,230	19,943	15,493	1,202	82
F	727	945	858	1,840	5,863	8,374	3,896	257	22
G	824	1,438	1,329	2,439	4,731	5,205	3,277	208	13
Mo.:	9,496	14,543	12,267	17,488	21,937	16,731	11,203	1,842	346
H	1,360	1,614	1,292	2,026	3,039	2,900	2,134	290	37
I	1,887	3,362	3,077	4,981	7,474	6,619	4,236	475	45
J	5,804	9,067	7,485	9,818	10,234	5,772	2,945	396	56
K	445	500	413	663	1,190	1,440	1,888	681	208
Wis.:	4,476	6,612	7,486	14,829	29,070	22,958	6,296	389	78
M	1,298	2,026	2,207	4,379	9,097	8,128	2,129	83	8
N	3,178	4,586	5,279	10,450	19,992	14,830	4,167	306	70
Ill.:	5,243	6,434	5,342	9,228	19,595	29,112	31,960	4,636	404
O	885	872	664	1,344	3,586	5,674	4,262	512	78
P	1,139	1,520	1,279	2,331	4,834	7,510	7,602	887	80
Q	1,273	1,253	1,013	1,837	4,650	8,986	13,884	2,393	163
R	1,946	2,789	2,386	3,716	6,525	6,942	6,212	844	83
Mich.:	7,652	9,546	7,926	11,979	15,890	11,332	5,730	493	49
S	3,235	3,451	2,842	4,303	5,010	3,025	1,161	71	10
T	3,348	4,444	3,714	5,633	8,296	6,452	3,520	297	31
U	1,069	1,651	1,370	2,043	2,584	1,855	1,049	125	8
Ind.:	8,606	9,858	8,213	12,496	18,125	15,975	13,090	1,834	153
V	4,345	5,839	4,972	8,110	12,958	12,166	10,483	1,418	111
W	4,261	4,019	3,241	4,386	5,167	3,809	2,607	416	42
Ohio:	12,146	12,000	10,180	15,409	21,419	16,148	9,741	1,117	111
X	3,403	4,359	3,932	6,912	12,117	11,239	7,750	905	97
Y	4,243	4,616	3,962	5,930	6,955	3,789	1,449	164	11
Z	4,500	3,025	2,286	2,567	2,347	1,120	492	48	3
Region	54,673	68,897	61,166	101,358	176,881	188,534	130,078	15,404	1,893

Table 9--Other farmland use, North Central region, 1969

Area	Cropland used only for pasture and grazing		All other cropland		Woodland including woodland pasture		All other land	
	Farms	Area	Farms	Area	Farms	Area	Farms	Area
	Number	1,000 acres	Number	1,000 acres	Number	1,000 acres	Number	1,000 acres
Minn.:	49,148	2,101	68,390	4,562	45,833	2,844	94,792	3,689
A	4,218	244	8,893	1,252	5,220	393	8,877	497
B	13,167	633	13,099	563	18,811	1,590	22,698	1,133
C	31,763	1,224	46,308	2,746	21,802	861	63,217	2,059
Iowa:	81,412	4,008	82,115	4,445	32,419	1,630	121,943	4,200
D	18,975	925	19,393	1,196	4,280	168	27,529	921
E	34,193	1,395	36,963	1,942	13,359	657	54,014	1,527
F	14,242	534	14,427	741	7,626	396	21,742	605
G	14,002	1,152	11,332	565	7,154	408	18,658	1,147
Mo.:	87,176	7,401	58,563	3,518	72,803	5,847	102,672	5,618
H	10,813	912	9,336	685	6,421	281	14,018	684
I	23,400	2,277	19,828	1,384	18,403	1,180	30,324	1,902
J	50,149	4,081	24,608	1,212	45,628	4,283	53,149	2,914
K	2,814	131	4,491	237	2,351	103	5,181	118
Wis.:	59,292	2,101	40,631	1,329	67,276	4,101	80,794	2,444
M	19,395	835	12,730	416	22,827	1,651	25,963	949
N	39,897	1,266	27,901	913	44,449	2,450	54,831	1,494
Ill.:	55,164	2,179	63,582	3,298	44,570	2,296	97,276	2,788
O	8,495	291	8,197	430	5,334	210	16,033	447
P	15,315	690	14,086	705	12,353	862	24,267	928
Q	13,587	455	21,336	1,099	7,773	366	29,515	674
R	17,767	741	19,963	1,064	19,110	858	27,461	739
Mich.:	32,234	1,090	50,382	1,987	45,799	1,843	62,382	1,477
S	12,351	521	14,560	531	16,201	1,019	20,093	534
T	14,539	416	26,800	1,024	21,727	592	31,541	670
U	5,344	153	9,022	431	7,871	231	10,838	272
Ind.:	49,544	1,572	53,268	2,309	60,106	2,141	83,619	1,880
V	31,369	910	36,729	1,637	38,373	1,144	56,809	1,096
W	18,175	662	16,539	672	21,733	997	26,810	784
Ohio:	51,415	1,726	59,732	2,206	65,928	2,179	91,907	2,485
X	21,465	598	33,372	1,292	28,836	667	46,230	826
Y	18,915	630	17,602	603	23,878	799	29,916	963
Z	11,035	498	8,758	311	13,214	703	15,760	697
Region	465,385	22,178	476,663	23,654	434,734	22,882	735,385	24,582

Table 10--Number of farms with any cattle, hogs, or sheep; and cattle and calves, by size of herd, North Central region, 1969

Area	Any cattle, hogs, or sheep	Cattle and calves in herd:					Cows & heifers that calved
		Any	1 to 4	5 to 9	10 to 20 or 19	more	
Number of farms							
Minn.:	81,713	71,364	2,999	4,299	10,108	53,958	59,984
A	5,887	5,241	303	414	1,000	3,524	4,681
B	20,993	19,608	891	1,426	3,528	13,763	17,500
C	54,833	46,515	1,805	2,459	5,580	36,671	37,803
Iowa:	115,684	96,738	3,479	4,447	10,964	77,848	75,160
D	26,445	22,596	598	778	2,010	19,210	15,434
E	50,067	39,404	1,675	1,986	4,777	30,966	29,558
F	20,606	17,575	605	717	2,002	14,881	15,041
G	18,766	17,163	601	896	2,175	13,491	15,127
Mo.:	108,376	101,444	5,634	8,819	19,689	67,302	85,734
H	13,447	12,337	675	920	2,104	8,638	10,284
I	30,557	28,176	1,395	2,179	4,990	19,612	24,289
J	60,981	58,319	3,167	5,368	12,005	37,779	49,070
K	3,391	2,612	397	352	590	1,273	2,091
Wis.:	81,323	78,159	2,336	3,773	9,038	63,012	70,026
M	27,403	26,675	586	1,018	2,679	22,392	24,487
N	53,920	51,484	1,750	2,755	6,359	40,620	45,539
Ill.:	81,825	64,066	5,070	6,549	11,811	40,636	50,328
O	12,939	10,679	538	545	1,030	8,566	7,767
P	23,351	18,358	1,035	1,450	3,150	12,723	14,680
Q	20,722	15,354	1,559	1,865	3,136	8,794	18,464
R	24,813	19,675	1,938	2,689	4,495	10,553	16,017
Mich.:	41,148	36,034	3,997	4,627	7,116	20,294	26,179
S	11,455	13,276	1,244	1,633	2,837	7,562	10,252
T	19,583	17,195	1,966	2,169	3,169	9,891	12,317
U	7,110	5,563	787	825	1,110	2,841	3,610
Ind.:	66,645	52,092	5,781	7,517	12,233	26,561	38,524
V	43,419	32,091	3,768	4,512	7,060	16,751	22,567
W	23,226	20,001	2,013	3,005	5,173	9,810	15,957
Ohio:	72,621	58,846	7,136	8,796	13,636	29,278	43,718
X	33,218	23,410	3,144	3,377	4,843	12,046	15,472
Y	25,583	22,605	2,690	3,323	5,166	11,426	17,873
Z	13,820	12,831	1,302	2,096	3,627	5,806	10,373
Region	649,335	558,743	36,432	48,827	94,595	378,889	449,653

Table 11--Farms with milk cows, by size of herd,  
North Central region, 1969

Area	Milk cows in herd				
	Any.	1 or 2	3 or 4	5 to 9	10 or more
Minn.:	42,440	2,898	1,340	4,235	33,967
A	2,830	388	211	505	1,726
B	12,934	866	478	1,576	10,014
C	26,676	1,644	651	2,154	22,227
Iowa:	30,005	6,523	2,102	3,880	17,500
D	5,559	1,341	545	971	2,702
E	10,629	2,710	760	1,332	5,827
F	9,611	702	234	862	7,813
G	4,206	1,770	563	715	1,158
Mo.:	28,022	13,130	2,207	3,262	9,423
H	2,818	1,689	223	226	680
I	7,613	4,152	673	1,044	1,744
J	17,404	6,924	1,250	1,972	6,958
K	487	365	61	20	41
Wis.:	60,631	2,044	918	3,229	54,440
M	20,479	621	290	964	18,604
N	40,152	1,424	628	2,265	35,836
Ill.:	14,803	4,149	856	1,250	8,548
O	5,001	309	104	229	4,359
P	2,718	1,219	259	327	913
Q	2,704	1,034	214	271	1,185
R	4,380	1,587	279	423	2,091
Mich.:	17,082	2,050	885	2,013	12,134
S	6,594	791	382	901	4,520
T	8,351	944	379	857	6,171
U	2,137	315	124	255	1,443
Ind.:	13,049	2,927	968	2,080	7,074
V	8,558	1,577	585	1,367	5,029
W	4,491	1,350	383	713	2,045
Ohio:	21,870	4,190	1,504	2,967	13,209
X	8,164	1,327	582	1,166	5,089
Y	9,978	1,840	594	1,145	6,399
Z	3,728	1,023	328	656	1,721
Region	227,902	37,911	10,780	22,916	156,295

Table 12--Farms with hogs and pigs, by size of herd and farrowing periods, North Central region, 1969

Area	Hogs and pigs in herd:					Litters of pigs farrowed between--		
	Any	1 to 4	5 to 9	10 to 24	25 or more	12/1/68 and 11/30/69	12/1/68 and 5/31/69	6/1/69 and 11/30/69
Number of farms								
Minn.:	37,495	2,490	3,086	6,543	25,376	31,419	27,624	24,643
A	1,521	375	239	350	557	1,205	1,017	857
B	6,361	1,217	1,169	1,738	2,237	5,555	4,731	4,500
C	29,613	898	1,678	4,455	22,582	24,659	21,876	19,286
Iowa:	83,251	1,169	2,199	7,440	72,443	73,331	66,118	60,570
D	19,306	192	383	1,545	17,187	16,890	15,355	13,626
E	26,604	468	913	3,105	32,118	32,067	29,014	26,499
F	15,449	209	377	1,438	13,425	13,868	12,417	11,638
G	11,891	300	526	1,352	9,713	10,506	9,332	8,807
Mo.:	48,219	4,544	4,247	8,418	31,010	41,620	37,570	34,430
H	7,189	316	386	936	5,551	6,289	5,754	5,176
I	15,985	843	1,038	2,269	11,835	14,216	12,802	11,662
J	22,988	3,151	2,554	4,723	12,560	19,421	17,541	16,198
K	2,057	234	269	490	1,064	1,649	1,473	1,394
Wis.:	25,292	3,334	3,141	5,048	13,769	21,598	18,803	17,403
M	10,191	684	927	1,810	6,770	9,201	8,068	7,132
N	15,101	2,650	2,214	3,238	6,999	12,397	10,735	10,271
Ill.:	48,475	1,910	2,615	6,416	37,534	41,751	37,881	35,316
O	7,304	151	254	808	6,091	6,085	5,436	4,856
P	16,375	341	574	1,516	13,944	14,735	13,458	12,731
Q	10,045	411	565	1,482	7,587	8,250	7,378	6,781
R	14,751	1,007	1,222	2,610	9,912	12,681	11,609	10,948
Mich.:	10,965	2,054	1,316	2,275	5,320	7,528	6,148	6,115
S	3,114	848	433	595	1,238	1,950	1,586	1,603
T	4,946	922	627	1,120	2,277	3,335	2,705	2,701
U	2,905	284	256	560	1,805	2,243	1,857	1,811
Ind.:	34,899	1,840	2,334	5,019	25,706	29,207	26,368	25,084
V	23,372	924	1,305	2,973	18,170	19,623	17,621	16,784
W	11,527	916	1,029	2,046	7,536	9,584	8,747	8,300
Ohio:	28,912	3,118	2,632	5,010	18,152	22,426	19,987	19,328
X	16,235	816	1,015	2,315	12,089	13,165	11,916	11,525
Y	8,338	1,389	1,055	1,864	4,030	5,999	5,246	5,128
Z	4,339	913	562	831	2,033	3,262	2,825	2,675
Region	317,508	20,459	21,570	46,169	229,310	268,880	240,499	222,889

Table 13--Farms with chickens, by size of flock, North Central region, 1969

Area	Chickens in flock					Laying hens	Broilers
	Any	:1 to 99	:100 to 399	:400 to 1,599	:1,600 or more		
	Number of farms						
Minn.:	19,565	6,882	8,860	3,045	778	18,565	580
A	1,094	537	463	65	29	1,020	20
B	3,974	2,457	1,302	115	100	3,706	202
C	14,497	3,888	7,095	2,865	649	13,839	358
Iowa:	29,984	11,720	13,619	3,901	744	28,971	538
D	7,243	2,437	3,746	943	117	7,006	162
E	12,549	4,930	5,670	1,625	369	12,155	225
F	5,701	1,722	2,650	1,113	216	5,499	82
G	4,446	2,631	1,553	220	42	4,311	69
Mo.:	26,423	21,083	4,313	584	443	25,168	554
H	2,907	2,191	629	59	28	5,784	28
I	7,140	5,737	1,218	129	56	6,819	141
J	15,461	12,364	2,385	377	335	14,695	368
K	915	791	81	19	24	870	17
Wis.:	18,108	9,785	6,933	1,034	356	17,151	359
M	5,554	2,981	2,178	265	130	5,284	113
N	12,554	6,804	4,755	769	226	11,867	246
Ill.:	19,012	11,007	6,245	1,235	525	18,268	206
O	2,869	1,349	1,171	242	107	2,746	50
P	4,853	3,166	1,429	216	42	4,678	42
Q	4,488	2,673	1,284	323	208	4,287	47
R	6,802	3,819	2,361	454	168	6,557	67
Mich.:	9,476	6,330	2,008	511	627	8,741	205
S	3,485	2,459	546	186	291	3,198	81
T	4,549	2,927	1,163	254	205	4,251	96
U	1,442	944	299	68	131	1,292	28
Ind.:	12,122	7,107	3,041	806	1,169	11,356	343
V	7,786	4,391	2,049	540	806	7,294	221
W	4,336	2,715	992	266	363	4,062	122
Ohio:	16,539	10,016	4,376	1,002	1,145	15,580	377
X	6,922	3,552	2,147	507	716	6,495	128
Y	6,349	3,942	1,666	400	341	5,974	207
Z	3,268	2,522	563	95	88	3,111	42
Region	151,229	83,929	49,395	12,118	5,787	143,800	3,162

Table 14--Farms with sheep, horses, and other livestock and poultry,  
North Central region, 1969

Area	Sheep and lambs	Horses and ponies	Other livestock and poultry 1/	Area	Sheep and lambs	Horses and ponies	Other livestock and poultry 1/
	Number of farms				Number of farms		
Minn.:	9,946	14,449	5,976	Ill.:	12,535	17,810	5,558
A	1,122	1,113	334	O	2,211	3,244	1,120
B	1,868	4,110	1,573	P	4,062	4,568	1,355
C	6,956	9,226	4,069	Q	4,471	5,011	1,490
				R	1,791	4,987	1,593
Iowa:	18,618	22,779	6,311				
D	2,886	4,583	1,309	Mich.:	4,151	13,005	4,573
E	9,217	9,675	2,848	S	788	4,203	1,571
F	2,824	3,767	1,187	T	2,232	6,159	2,180
G	3,691	4,754	967	U	1,131	2,643	822
Mo.:	6,610	26,012	7,952	Ind.:	9,818	15,452	4,268
H	881	3,088	707	V	8,561	10,250	2,788
I	3,818	7,332	1,834	W	1,257	5,202	1,480
J	1,888	14,766	5,083				
K	23	826	328	Ohio:	16,331	19,515	6,095
				X	9,932	7,168	2,267
Wis.:	4,190	14,179	6,388	Y	5,183	8,574	2,798
M	1,793	5,024	1,604	Z	1,616	3,777	1,030
N	2,397	9,155	4,784				
				Region:	82,199	143,205	47,121

1/ Excluding cattle, hogs, sheep, horses, and chickens.



Table 15--Cattle and calves, by size of herd, North Central region, 1969

Any	Cattle and calves in herd					Cows and
	Any	1 to 4	5 to 9	10 to 19	20 or more	heifers that calved
	1,000 head					
Minn.:	3,633	8	30	145	3,449	1,408
A	218	1	3	14	200	97
B	783	3	10	51	719	367
C	2,632	5	17	80	2,530	944
Iowa:	7,021	9	31	158	6,823	2,025
D	2,230	2	5	29	2,194	413
E	2,739	4	14	69	2,652	759
F	993	2	6	29	957	383
G	1,059	2	6	31	1,019	470
Mo.:	4,816	15	62	279	4,460	2,172
H	737	2	6	30	699	275
I	1,457	4	15	71	1,367	664
J	2,517	9	37	170	2,320	1,195
K	105	1	2	8	93	39
Wis.:	3,969	6	26	131	3,806	1,981
M	1,507	2	7	39	1,459	724
N	2,463	5	19	92	2,347	1,256
Ill.:	3,194	13	45	166	2,970	1,063
O	582	1	4	14	833	241
P	1,023	3	10	45	965	331
Q	651	4	13	44	590	209
R	668	5	19	63	582	283
Mich.:	1,441	11	32	99	1,300	574
S	485	3	11	40	430	211
T	728	5	15	44	664	285
U	228	2	6	15	205	77
Ind.:	1,829	16	52	170	1,592	661
V	1,179	10	31	98	1,040	399
W	649	5	21	72	551	262
Ohio:	1,910	19	60	189	1,641	765
X	880	8	23	67	782	284
Y	688	7	23	72	586	321
Z	342	4	15	50	274	159
Region	27,813	97	338	1,337	26,041	10,650

Table 16--Milk cows, by size of herd, North Central region, 1969

Area	Milk cows in herd				
	Any	1 or 2	3 or 4	5 to 9	10 or more
	1,000 head				
Minn.:	894	3.9	4.7	30.0	856
A	41	.5	.7	3.4	36
B	249	1.2	1.7	11.3	235
C	604	2.1	2.3	15.3	584
Iowa:	477	8.6	7.4	26.7	434
D	73	1.3	1.9	6.7	62
E	162	3.5	2.7	9.1	147
F	205	.9	.8	6.1	198
G	36	2.3	1.9	4.8	27
Mo.:	309	16.8	7.6	22.1	263
H	29	2.2	.8	1.5	24
I	56	5.3	2.3	7.1	41
J	222	8.8	4.3	13.4	196
K	2	0.5	0.2	0.1	1
Wis.:	1,723	2.8	3.2	23.3	1,694
M	592	.9	1.0	6.9	583
N	1,131	2.0	2.2	16.3	1,110
Ill.:	292	5.3	2.9	8.4	275
O	151	0.4	0.4	1.6	148
P	30	1.6	0.9	2.2	26
Q	37	1.3	0.7	1.8	33
R	74	2.0	1.0	2.8	69
Mich.:	414	2.8	3.1	13.9	394
S	139	1.1	1.3	6.3	131
T	220	1.3	1.3	5.9	212
U	54	0.4	0.4	1.8	52
Ind.:	227	3.8	3.3	14.3	205
V	165	2.1	2.0	9.5	151
W	62	1.7	1.3	4.8	54
Ohio:	424	5.6	5.3	20.4	393
X	168	1.8	2.0	7.8	156
Y	206	2.4	2.1	8.1	194
Z	50	1.3	1.2	4.5	43
Region	4,761	49.6	37.5	159.0	4,515

Table 17--Hogs and pigs, by size of herd; and litters, by farrowing periods, North Central region, 1969

Area	Hogs and pigs in herd					Litters of pigs farrowed between--		
	Any	1 to 4	5 to 9	10 to 24	25 or more	12/1/68 and 11/30/69	12/1/68 and 5/31/69	6/1/69 and 11/30/69
	----- 1,000 head -----					----- 1,000 litters -----		
Minn.:	3,296	6.5	21.2	103	3,165	625	337	288
A	59	1.0	1.6	5	51	15	8	7
B	235	3.1	7.9	27	197	81	41	40
C	3,001	2.4	11.7	71	2,917	530	288	242
Iowa:	13,439	3.1	15.5	123	13,297	2,549	1,364	1,189
D	3,176	.5	2.7	26	3,146	599	332	267
E	6,413	1.2	6.4	51	6,354	1,199	636	563
F	2,318	.6	2.7	24	2,291	444	238	207
G	1,532	.8	3.7	22	1,505	307	158	149
Mo.:	4,250	11.5	28.8	135	4,074	837	435	402
H	907	.8	2.7	15	889	172	91	82
I	1,771	2.2	7.1	37	1,726	344	179	165
J	1,462	7.8	17.2	75	1,362	301	155	146
K	108	.6	1.9	8	98	19	10	9
Wis.:	1,677	8.9	21.3	80	1,567	360	190	170
M	840	1.8	6.4	29	803	179	97	82
N	837	7.1	14.9	51	764	180	92	88
Ill.:	6,995	5.0	18.1	104	6,868	1,361	706	655
O	1,121	0.4	1.8	13	1,106	204	111	93
P	3,239	0.9	4.0	25	3,209	646	332	315
Q	1,299	1.1	4.0	24	1,270	241	126	116
R	1,335	2.7	8.4	42	1,282	269	137	132
Mich.:	699	5.1	9.0	36	648	127	60	67
S	165	2.1	2.9	9	150	30	15	16
T	265	2.3	4.4	18	240	44	22	22
U	269	.8	1.7	9	258	53	24	30
Ind.:	4,440	4.8	16.1	82	4,338	797	407	391
V	3,353	2.4	9.0	49	3,294	598	304	294
W	1,087	2.5	7.1	33	1,044	200	103	97
Ohio:	2,479	7.6	18.0	81	2,373	461	233	228
X	1,817	2.0	7.0	37	1,770	332	168	164
Y	421	3.4	7.2	30	381	81	40	41
Z	241	2.2	3.8	13	222	48	25	24
Region	37,274	52.6	148.1	742	36,330	7,118	3,730	3,387

Table 18--Sheep, horses, and chickens, North Central region, 1969

Area	Sheep:	Horses:	Chickens in flock					Laying:	Broilers
	and lambs:	and ponies:	Any	1 to 99:	100 to 399:	400 to 1,599:	1,600 or more:	hens	
	1,000 head		1,000 birds						
Minn.:	521	51	11,110	256	1,840	1,875	6,605	9,310	1,819
A	79	3	619	21	84	41	441	392	4
B	105	15	2,316	81	229	70	1,526	1,958	1,317
C	337	33	8,176	153	1,528	1,765	4,638	6,961	498
Iowa:	829	78	11,155	421	2,744	2,349	5,452	9,901	141
D	131	15	2,033	78	758	549	597	1,930	52
E	395	35	5,163	188	1,139	982	2,792	4,476	59
F	80	13	3,095	68	570	696	1,760	2,702	21
G	223	15	864	86	278	123	303	792	9
Mo.:	280	88	7,505	611	734	298	5,166	5,752	2,634
H	38	11	712	68	112	30	341	228	3
I	180	25	894	174	195	49	282	785	16
J	62	50	5,662	348	415	210	4,364	4,323	2,615
K	1/	3	237	22	13	10	180	216	1/
Wis.:	150	48	5,365	322	1,216	556	2,909	4,348	2,380
M	62	16	1,717	120	384	134	1,030	1,349	2,037
N	88	32	3,648	275	832	423	1,880	2,999	343
Ill.:	377	73	8,414	382	1,128	633	5,484	7,118	63
O	93	16	1,683	50	215	126	1,200	1,552	22
P	124	17	879	107	244	68	126	840	22
Q	112	21	3,292	93	236	198	2,617	2,582	14
R	49	18	2,560	134	432	242	1,540	2,142	5
Mich.:	272	54	7,293	198	349	325	6,016	5,905	141
S	44	16	3,178	76	86	120	2,544	2,374	126
T	158	27	2,825	94	211	159	2,310	2,483	10
U	69	10	1,290	29	53	46	1,162	1,048	4
Ind.:	283	62	14,940	227	553	511	13,270	11,329	1,713
V	247	43	9,867	142	369	361	8,863	7,633	614
W	36	19	5,073	86	184	150	4,408	3,696	1,099
Ohio:	747	77	11,878	307	786	653	9,989	9,662	1,667
X	395	27	7,285	111	393	339	6,409	5,769	292
Y	283	38	3,734	129	301	253	3,020	3,205	1,339
Z	69	11	859	67	92	61	560	688	35
Region	3,460	531	77,661	2,800	9,354	7,204	54,896	63,325	10,557

1/ Less than 500.

Table 19--Farms with sales of any cattle, hogs, or sheep; and with sales of cattle and calves, by size of herd, North Central region, 1969

Area	Cattle and calves in herd					
	: Any : :cattle : :hogs or: : sheep :	: Any :	: 1 to 4 :	: 5 to 9 :	: 10 to : : 10 :	: 20 : or more
Number of farms with sales						
Minn.:	83,156	72,155	7,804	12,213	22,725	29,413
A	5,958	5,246	736	1,109	1,696	1,705
B	21,121	19,518	2,721	3,945	6,798	6,054
C	56,077	47,391	4,347	7,159	14,231	21,654
Iowa:	118,670	99,981	6,984	11,126	22,320	59,551
D	26,999	23,628	1,312	1,932	4,107	16,277
E	51,542	41,035	3,103	4,480	8,815	24,637
F	20,978	17,846	1,367	2,607	5,239	8,633
G	19,151	17,472	1,202	2,107	4,159	10,004
Mo.:	108,992	100,641	12,412	17,322	27,207	43,700
H	13,676	12,389	1,371	1,835	3,124	6,059
I	31,057	23,830	2,855	4,218	7,457	13,800
J	60,936	57,499	7,700	10,760	16,033	23,006
K	3,323	2,423	486	509	593	835
Wis.:	81,503	77,930	7,111	11,106	24,321	35,392
M	27,607	26,804	2,065	3,567	8,448	12,724
N	53,896	51,126	5,046	7,539	15,873	22,668
Ill.:	82,602	63,121	9,293	11,452	16,117	26,259
O	13,162	10,853	912	1,119	2,321	6,501
P	23,675	18,347	2,061	2,839	4,675	8,799
Q	20,975	15,096	2,665	3,196	3,936	5,299
R	24,790	18,798	3,655	4,298	5,185	5,660
Mich.:	39,684	33,740	6,821	7,209	9,221	10,489
S	14,027	12,618	2,540	2,748	3,695	3,635
T	18,771	16,071	3,160	3,385	4,280	5,246
U	6,886	5,051	1,121	1,076	1,246	1,608
Ind.:	65,941	49,271	10,792	11,426	12,874	14,179
V	43,330	30,583	6,368	6,778	7,816	9,621
W	22,611	18,688	4,424	4,648	5,058	4,558
Ohio:	70,425	54,998	12,788	13,006	14,362	14,842
X	33,047	22,365	4,850	4,739	5,458	7,318
Y	24,281	20,758	4,924	4,957	5,683	5,194
Z	13,097	11,875	3,014	3,310	3,221	2,330
Region	650,973	551,837	74,005	94,860	149,147	233,825

Table 20--Farms with sales of hogs and pigs, by size of herd, and with feeder pig sales, North Central region, 1969

Area	Hogs and pigs in herd					Feeder pig sales
	Any	1 to 4	5 to 9	10 to 24	25 or more	
Number of farms with sales						
Minn.:	39,058	1,144	1,362	4,220	32,332	9,635
A	1,413	171	128	279	835	490
B	6,133	424	425	1,170	4,114	3,358
C	31,512	549	809	2,771	27,383	5,787
Iowa:	88,196	646	1,144	4,152	82,254	14,828
D	20,615	103	220	798	19,494	3,000
E	38,855	279	474	1,727	36,375	6,243
F	16,200	115	233	806	15,046	2,796
G	12,526	149	217	821	11,339	2,789
Mo.:	49,701	1,187	1,983	6,637	39,894	14,126
H	7,628	103	206	729	6,590	1,450
I	16,863	283	504	1,678	14,398	3,687
J	23,161	718	1,128	3,800	17,515	8,334
K	2,049	83	145	430	1,391	655
Wis.:	25,541	1,180	1,293	3,759	19,309	9,496
M	10,558	313	393	1,192	8,660	2,958
N	14,983	867	900	2,567	10,649	6,538
Ill.:	51,090	782	1,362	4,675	44,271	10,179
O	7,787	79	189	507	7,012	1,054
P	17,169	150	287	1,023	10,507	2,862
Q	10,822	218	339	1,135	9,130	1,792
R	15,312	335	447	2,010	12,420	4,471
Mich.:	10,636	909	917	2,159	6,651	2,817
S	2,824	327	290	592	1,615	984
T	4,824	440	447	1,088	2,849	1,088
U	2,988	142	180	479	2,187	745
Ind.:	36,699	798	1,133	3,843	30,925	7,680
V	24,770	487	675	2,176	21,432	4,427
W	11,929	311	458	1,667	9,493	3,253
Ohio:	29,358	1,192	1,474	4,383	22,309	6,194
X	17,103	407	538	1,882	14,276	2,827
Y	8,176	480	599	1,681	5,416	2,377
Z	4,079	305	337	820	2,617	990
Region	330,279	7,838	10,668	33,828	277,945	74,955

Table 21--Farms with sales of chickens, by size of flock, North Central region, 1969

Area	Chickens in flock					Laying hens	Broilers
	Any	1 to 99	100 to 399	400 to 1,599	1,600 or more		
Number of farms with sales							
Minn.:	11,111	1,970	6,757	1,663	721	10,288	669
A	416	126	224	38	28	354	30
B	1,169	409	598	66	96	1,010	181
C	9,226	1,435	5,935	1,559	597	8,294	458
Iowa:	15,551	2,998	9,626	2,182	745	14,837	775
D	3,980	763	2,615	480	122	3,844	203
E	6,571	1,307	4,006	889	369	6,242	343
F	3,626	519	2,207	684	216	3,435	128
G	1,374	409	798	129	38	1,316	101
Mo.:	4,481	2,053	1,671	285	472	4,162	361
H	591	286	249	34	22	564	21
I	1,105	571	438	52	44	1,041	65
J	2,668	1,139	956	189	384	2,449	275
K	117	57	28	10	22	108	0
Wis.:	6,141	2,061	3,219	525	336	5,431	361
M	1,840	516	1,046	154	124	1,656	129
N	4,301	1,545	2,173	371	212	3,775	232
Ill.:	6,364	2,271	3,069	564	460	6,046	243
O	1,172	315	654	117	86	1,092	77
P	1,306	554	632	82	38	1,241	58
Q	1,616	502	713	189	212	1,508	68
R	2,270	900	1,070	176	124	2,205	40
Mich.:	2,906	894	1,072	317	623	2,546	205
S	1,043	308	292	144	299	874	98
T	1,394	464	605	128	197	1,252	56
U	469	122	175	45	127	420	51
Ind.:	4,645	1,122	1,715	551	1,257	4,140	454
V	3,207	774	1,194	378	861	2,860	314
W	1,438	348	521	173	396	1,280	140
Ohio:	5,778	1,659	2,336	608	1,175	5,204	404
X	3,029	736	1,210	336	747	2,734	166
Y	2,144	687	903	223	331	1,922	227
Z	605	236	223	49	97	548	11
Region	56,977	15,028	29,465	6,695	5,789	52,654	3,472

Table 22--Farms with sales of sheep, horses, and other livestock and poultry, North Central region, 1969

Area	Sheep and lambs	Horses and ponies	Other livestock and poultry <sup>1/</sup>	Area	Sheep and lambs	Horses and ponies	Other livestock and poultry <sup>1/</sup>
No. of farms with sales:				No. of farms with sales:			
Minn.:	9,930	2,021	2,888	Ill.:	11,869	2,449	1,657
A	1,134	170	315	O	1,987	458	413
B	1,885	579	683	P	3,861	550	334
C	6,911	1,272	1,990	Q	4,301	778	485
				R	1,720	663	425
Iowa:	18,724	3,056	2,413				
D	2,942	600	461	Mich.:	3,811	2,012	1,620
E	9,293	1,321	1,246	S	707	625	580
F	2,670	501	498	T	2,045	972	729
G	3,819	634	208	U	1,059	415	311
Mo.:	6,675	3,462	2,013	Ind.:	9,329	2,421	1,472
H	899	426	168	V	8,179	1,802	1,019
I	3,921	988	411	W	1,150	619	453
J	1,833	1,944	1,362				
K	22	104	72	Ohio:	15,627	3,022	2,068
				X	9,447	1,122	913
Wis.:	3,708	1,663	2,759	Y	4,856	1,495	951
M	1,679	572	553	Z	1,524	405	204
N	2,029	1,091	2,206				
				Region:	79,673	20,106	16,890

<sup>1/</sup> Excluding cattle, hogs, sheep, horses and chickens.



Table 23--Cattle and calves sold, by size of herd, North Central region, 1969

Area	Cattle and calves in herd				
	Any	1 to 4	5 to 9	10 to 19	20 or more
	1,000 head sold				
Minn.:	2,100	21	85	318	1,676
A	120	2	8	23	87
B	358	7	27	94	229
C	1,621	12	50	200	1,359
Iowa:	5,955	18	78	315	5,543
D	2,215	3	14	58	2,140
E	2,426	8	31	124	2,262
F	628	4	18	74	532
G	686	3	15	59	609
Mo.:	3,003	33	120	378	2,473
H	511	3	13	44	451
I	957	7	29	104	816
J	1,457	21	74	222	1,139
K	79	1	3	8	66
Wis.:	1,819	19	78	349	1,373
M	670	6	25	122	517
N	1,149	13	53	227	856
Ill.:	2,437	24	79	222	2,112
O	697	3	7	33	654
P	808	5	20	65	718
Q	524	7	22	54	442
R	408	9	29	71	298
Mich.:	760	17	49	127	567
S	235	6	19	50	159
T	386	8	23	59	295
U	139	3	7	17	112
Ind.:	1,160	27	78	175	880
V	820	16	46	106	650
W	341	11	32	68	229
Ohio:	1,161	33	88	195	845
X	633	12	32	74	514
Y	354	13	34	78	230
Z	174	8	22	43	101
Region	18,394	192	655	2,079	15,468

Table 24--Hogs and pigs sold, by size of herd, and sales of feeder pigs, sheep, and horses, North Central region, 1969

Area	Hogs and pigs in herd				Feeder pig sales	Sheep and lambs	Horses and ponies	
	Any	1 to 4	5 to 9	10 to 25 or more				
	1,000 head sold							
Minn.:	5,488	2.8	9.4	70	5,406	1,141	525	7.4
A	120	0.4	0.9	5	114	58	60	0.5
B	597	1.0	2.9	19	574	372	88	1.9
C	4,771	1.4	5.7	46	4,718	711	377	5.0
Iowa:	20,826	1.7	7.9	70	20,747	2,465	926	11.3
D	4,929	0.3	1.5	14	4,913	545	159	2.5
E	9,963	0.7	3.2	29	9,992	1,123	459	5.4
F	3,521	0.3	1.6	13	3,505	413	72	1.5
G	2,414	0.4	1.5	14	2,399	384	236	1.9
Mo.:	7,219	2.8	13.9	111	7,092	1,381	258	12.1
H	1,454	0.3	1.4	12	1,440	179	36	1.4
I	2,894	0.7	3.5	28	2,861	377	169	3.2
J	2,696	1.7	7.9	63	2,624	778	53	7.2
K	175	0.2	1.0	7	167	46	1/	0.3
Wis.:	3,018	2.9	8.9	62	2,943	935	126	5.3
M	1,381	0.8	2.6	20	1,358	298	49	1.6
N	1,637	2.1	6.2	42	1,585	637	77	3.7
Ill.:	10,972	2.0	9.5	78	10,882	1,379	360	9.8
O	1,714	0.2	1.3	9	1,704	158	109	2.1
P	4,909	0.4	2.0	17	4,889	455	107	2.2
Q	2,064	0.6	2.4	19	2,042	225	101	2.9
R	2,285	0.8	3.8	34	2,247	541	42	2.6
Mich.:	1,110	2.1	6.2	35	1,066	252	197	7.6
S	288	0.8	2.0	10	275	100	33	2.2
T	402	1.0	3.0	18	380	72	109	4.0
U	420	0.4	1.2	8	411	80	55	1.3
Ind.:	7,208	2.0	7.9	64	7,134	1,009	236	8.6
V	5,409	1.2	4.7	36	5,366	652	209	6.0
W	1,799	0.8	3.2	28	1,767	357	27	2.8
Ohio:	4,104	2.9	10.2	72	4,019	610	611	10.2
X	2,953	1.0	3.7	31	2,917	347	344	3.9
Y	746	1.2	4.1	27	714	193	214	4.9
Z	404	0.7	2.3	13	388	71	52	1.5
Region	59,945	19.3	73.9	562	59,288	9,171	3,239	72.3

1/Less than 500 herd.

Table 25--Chickens sold, by size of flock, and sales of laying hens and broilers, North Central region, 1969

Area	Chickens in flock				Laying hens		Broilers
	Any	1 to 99	100 to 399	400 to 1,599	1,600 or more	1,000 birds sold	
Minn.:	10,868	102	1,423	1,089	7,664	6,718	8,457
A	732	5	41	25	619	293	6
B	2,067	18	110	42	1,405	1,312	5,849
C	8,069	79	1,272	1,022	5,640	5,114	2,602
Iowa:	9,730	162	1,979	1,396	5,998	6,748	475
D	1,574	41	531	293	696	1,319	253
E	4,082	72	814	570	2,626	3,031	116
F	3,437	30	478	450	2,479	1,953	81
G	637	19	155	83	197	445	24
Mo.:	7,685	77	305	188	6,867	4,329	12,749
H	884	11	44	23	795	360	4
I	618	21	81	40	445	386	23
J	5,991	43	175	119	5,449	3,437	12,721
K	192	2	5	7	178	144	0
Wis.:	4,419	102	602	331	3,091	2,470	11,460
M	1,493	26	194	105	1,146	867	9,490
N	2,926	76	408	226	1,945	1,603	1,970
Ill.:	7,870	109	561	337	6,183	4,775	184
O	1,399	18	126	73	1,127	1,059	66
P	534	23	110	25	92	44	53
Q	3,909	24	137	126	3,430	2,076	59
R	2,029	44	188	113	1,534	1,197	7
Mich.:	7,192	40	204	235	6,602	4,148	706
S	3,218	12	58	106	2,930	1,822	557
T	2,756	22	111	95	2,529	1,596	29
U	1,217	6	35	34	1,143	730	120
Ind.:	17,707	53	335	405	16,635	8,686	8,478
V	11,776	36	235	284	11,159	6,047	2,679
W	5,931	16	100	121	5,476	2,638	5,779
Ohio:	12,822	79	443	452	11,707	6,941	8,107
X	8,314	37	230	252	7,780	4,405	1,201
Y	3,502	32	172	170	3,088	2,104	6,821
Z	1,006	11	41	30	839	432	85
Region	78,293	724	5,851	4,433	64,749	44,814	50,616

Table 26--Corn production, North Central region, 1971

Area	Total corn		Grain		Silage		
	planted	Harvested	Production	Yield	Harvested	Production	Yield
	-- 1,000 acres --		Mil. bu.	Bu./ acres	1,000 acres	1,000 tons	Tons/ acre
Minn.:	6,572	5,725	475	83.0	795	9,143	11.5
A	93	59	3	57.7	32	301	9.4
B	551	337	21	61.2	206	2,027	9.9
C	5,928	5,328	451	84.7	557	6,815	12.2
Iowa:	12,230	11,570	1,180	102.0	612	8,874	14.5
D	3,394	3,092	286	92.5	205	2,813	13.7
E	5,771	5,562	608	109.3	266	3,963	14.9
F	1,905	1,800	179	99.4	100	1,517	15.2
G	1,160	1,114	106	95.2	41	580	14.1
Mo.:	3,332	3,092	272	88.0	193	2,413	12.5
H	907	844	81	96.0	38	525	13.8
I	1,386	1,304	115	88.2	61	790	13.0
J	846	762	59	77.4	94	1,099	11.7
K	193	182	163	89.6	0	0	0.0
Wis.:	3,074	2,099	204	97.2	932	11,464	12.3
M	1,065	818	79	96.6	283	2,953	10.4
N	2,009	1,281	125	97.6	649	8,511	13.1
Ill.:	10,470	10,170	1,037	102.0	260	3,900	15.0
O	1,797	1,690	164	97.0	NA	NA	NA
P	2,617	2,553	268	105.0	NA	NA	NA
Q	4,368	4,307	484	112.4	NA	NA	NA
R	1,688	1,619	122	75.4	NA	NA	NA
Mich.:	2,253	1,700	116	68.2	505	4,899	9.7
S	453	296	19	64.2	172	1,608	9.3
T	1,240	929	63	67.8	247	2,343	9.5
U	559	475	33	69.5	86	947	11.0
Ind.:	5,679	5,509	534	96.9	142	2,201	15.5
V	4,395	4,265	421	98.7	114	1,866	16.4
W	1,284	1,244	113	90.8	28	334	11.9
Ohio:	3,767	3,526	314	89.1	224	3,226	14.4
X	2,702	2,575	236	91.7	115	1,786	15.5
Y	784	691	57	82.5	86	1,117	13.0
Z	281	259	20	77.2	23	323	14.0
Region	47,378	43,391	4,132	95.2	3,663	46,120	12.6

NA = Not available.

In some instances the special tabulations by production areas differ somewhat from State totals for that item published in Crop Production, 1972 Annual Summary, SRS, USDA, Jan. 1973.

Table 27--Soybean and oat production, North Central region, 1971

Area	Soybeans				Oats			
	Planted	Harvested	Production	Yield	Planted	Harvested	Production	Yield
	-- 1,000 acres --		1,000 bu.	Bu./ acre	-- 1,000 acres--		1,000 bu.	Bu./ acre
Minn.:	2,889	2,851	65,573	23.0	3,100	3,000	177,000	59.0
A	148	140	1,946	13.9	837	826	50,780	61.5
B	66	64	891	13.9	638	618	32,929	53.3
C	2,675	2,647	62,736	23.7	1,625	1,556	93,291	60.0
Iowa:	5,440	5,440	174,080	32.0	2,279	1,550	91,450	59.0
D	1,099	1,099	33,563	30.5	531	393	25,370	64.6
E	2,981	2,981	102,044	34.2	955	602	37,166	61.7
F	736	736	19,176	26.1	492	349	18,603	53.3
G	634	634	19,297	30.4	302	206	10,311	50.1
Mo.:	3,605	3,605	97,335	27.0	359	240	11,280	47.0
H	551	551	16,979	30.8	NA	NA	NA	NA
I	1,338	1,338	39,067	29.2	NA	NA	NA	NA
J	626	626	15,234	24.3	NA	NA	NA	NA
K	1,090	1,090	26,055	23.9	NA	NA	NA	NA
Wis.:	130	128	2,816	22.0	1,588	1,535	93,635	61.0
M	39	39	694	17.8	467	451	26,852	59.5
N	91	89	2,122	23.8	1,121	1,084	66,783	61.6
Ill.:	7,150	7,150	235,950	33.0	1,197	600	36,000	60.0
O	585	585	17,642	30.2	332	226	14,468	64.0
P	1,455	1,455	51,951	35.7	354	184	10,556	57.4
Q	3,104	3,104	115,394	37.2	444	144	8,701	60.4
R	2,006	2,006	50,963	25.4	67	45	2,276	50.6
Mich.:	540	540	11,070	20.5	460	415	19,505	47.0
S	24	24	541	22.5	135	118	5,386	45.6
T	314	314	6,325	20.1	254	236	11,520	48.8
U	201	201	4,204	20.9	71	60	2,599	43.3
Ind.:	3,377	3,377	113,130	33.5	410	280	17,640	63.0
V	2,665	2,665	91,213	34.2	NA	243	15,626	64.3
W	712	712	21,917	30.8	NA	37	2,014	54.4
Ohio:	2,494	2,494	76,067	30.5	623	520	34,840	67.0
X	2,087	2,087	64,652	31.0	NA	324	24,009	74.1
Y	276	276	7,612	27.6	NA	184	10,347	56.2
Z	130	130	3,803	29.3	NA	12	483	40.3
Region	25,625	25,585	776,021	30.3	10,016	8,140	481,350	59.1

NA = Not available.

In some instances the special tabulations by production areas differ somewhat from State totals for that item published in Crop Production, 1972 Annual Summary, SRS, USDA, Jan. 1973.

Table 28--Soybean/corn yield per acre and harvested acreage ratios, North Central region, 1971

Area	Yields			Acres harvested		
	Soybeans:	Corn	Ratio	Soybeans:	Corn	Ratio
	-- Bu./acre --		Percent	- 1,000 acres -		Percent
Minn.:	23.0	83.0	27.7	2,851	5,725	49.8
A	13.9	57.7	24.1	140	59	237.3
B	13.9	61.2	22.7	64	337	19.0
C	23.7	84.7	28.0	2,647	5,328	49.7
Iowa:	32.0	102.0	31.4	5,440	11,570	47.0
D	30.5	92.5	33.0	1,099	3,092	35.5
E	34.2	109.3	31.3	2,981	5,562	53.6
F	26.1	99.4	26.3	736	1,800	40.9
G	30.4	95.2	31.9	634	1,114	56.9
Mo.:	27.0	88.0	30.7	3,605	3,092	116.6
H	30.8	96.0	32.1	551	844	65.3
I	29.2	88.2	33.1	1,338	1,304	102.6
J	24.3	77.4	31.4	626	762	82.2
K	23.9	89.6	26.7	1,090	182	598.9
Wis.:	22.0	97.2	22.6	128	2,099	6.1
M	17.8	96.6	18.4	39	818	4.8
N	23.8	97.6	24.4	89	1,281	6.9
Ill.:	33.0	102.0	32.4	7,150	10,170	70.3
O	30.2	97.0	31.1	585	1,690	34.6
P	35.7	105.0	34.0	1,455	2,553	57.0
Q	37.2	112.4	33.1	3,104	4,307	72.1
R	25.4	75.4	33.7	2,006	1,619	123.9
Mich.:	20.5	68.2	30.1	540	1,700	31.8
S	22.5	64.2	35.0	24	296	8.1
T	20.1	67.8	29.6	314	929	33.8
U	20.9	69.5	30.6	201	475	42.3
Ind.:	33.5	96.9	34.6	3,377	5,509	61.3
V	34.2	98.7	34.7	2,665	4,265	62.5
W	30.8	90.8	33.9	712	1,244	57.2
Ohio:	30.5	89.1	34.2	2,494	3,526	70.7
X	31.0	91.7	33.8	2,087	2,575	81.0
Y	27.6	82.5	33.5	276	691	39.9
X	29.3	77.2	38.0	130	259	50.2
Region	30.3	95.2	31.8	25,585	43,391	59.0

In some instances the special tabulations by production areas differ somewhat from State totals for that item published in Crop Production, 1972 Annual Summary, SRS, USDA, Jan. 1973.

Table.29--All wheat and winter wheat production, North Central region, 1971

Area	All wheat				Winter wheat			
	Planted	Harvested	Production	Yield	Planted	Harvested	Production	Yield
Minn.:	1,536	1,508	57,014	37.8	33	31	868	28.0
A	1,070	1,050	41,750	39.8	14	13	391	30.1
B	128	126	4,011	31.8	2	2	56	28.0
C	338	332	11,253	33.9	16	15	420	28.0
Iowa:	40	36	1,332	37.0	40	36	1,332	37.0
D	23	21	798	38.0	23	21	798	38.0
E	10	9	323	35.9	10	9	323	35.9
F	1/	1/	11	35.3	1/	1/	11	35.3
G	6	6	199	33.2	6	6	199	33.2
Mo.:	974	848	34,344	40.5	974	848	34,344	40.5
H	115	99	4,016	40.6	115	99	4,016	40.6
I	210	181	6,824	37.7	210	181	6,824	37.7
J	389	337	13,717	40.7	389	337	13,717	40.7
K	260	231	9,787	42.4	260	231	9,787	42.4
Wis.:	47	45	1,685	37.4	30	29	1,189	41.0
M	5	4	124	31.0	2	2	63	31.5
N	42	40	1,561	39.0	28	27	1,126	41.7
Ill.:	1,027	983	43,252	44.0	1,027	983	43,252	44.0
O	24	21	753	35.9	24	21	753	35.9
P	174	160	6,417	40.1	174	159	6,317	40.4
Q	227	218	9,959	45.7	227	218	9,959	45.7
R	602	584	26,123	44.7	602	584	26,123	44.7
Mich.:	590	570	20,520	36.0	590	570	20,520	36.0
S	74	71	2,462	34.7	74	71	2,462	34.7
T	385	372	13,721	36.9	385	372	13,721	36.9
U	131	127	4,337	34.1	131	127	4,337	34.1
Ind.:	781	735	33,075	45.0	781	735	33,075	45.0
V	543	516	23,456	45.5	543	516	23,456	45.5
W	238	219	9,618	43.9	238	219	9,618	43.9
Ohio:	1,004	981	42,674	43.5	1,004	981	42,674	43.5
X	744	730	33,471	45.9	744	730	33,471	45.9
Y	192	186	6,766	36.4	192	186	6,766	36.4
Z	68	65	2,436	37.5	68	65	2,436	37.5
Region	5,999	5,706	233,896	41.0	4,479	4,213	177,254	42.1

In some instances the special tabulations by production areas differ somewhat from State totals for that item published in Crop Production, 1972 Annual Summary, SRS, USDA, Jan. 1973.

1/Less than 500 acres.

Table 30--Durum wheat and other spring wheat production, North Central region, 1971

Area	Durum wheat				Other spring wheat			
	Planted	Harvested	Production	Yield	Planted	Harvested	Production	Yield
	-- 1,000 acres --		1,000 bu.	Bu./ acre	-- 1,000 acres --		1,000 bu.	Bu./ acre
Minn.:	41	40	1,540	38.5	1,462	1,437	54,606	38.0
A	35	34	1,351	39.7	1,020	1,003	40,008	39.9
B	3	3	103	34.3	123	120	3,850	32.1
C	3	3	85	28.3	319	314	10,748	34.2
Iowa:								
D								
E								
F								
G								
Mo.:								
H								
I								
J								
K								
Wis.:					17	16	496	31.0
M					3	2	61	30.5
N					14	14	435	31.1
Ill.:								
O								
P								
Q								
R								
Mich.:								
S								
T								
U								
Ind.:								
V								
W								
Ohio:								
X								
Y								
Z								
Region	41	40	1,540	38.5	1,479	1,453	55,102	37.9

In some instances the special tabulations by production areas differ somewhat from State totals for that item published in Crop Production, 1972 Annual Summary, SRS, USDA, Jan. 1973.



Table 31--Grain sorghum and barley production, North Central region, 1971

Area	Grain sorghum				Barley			
	Planted	Harvested	Production	Yield	Planted	Harvested	Production	Yield
	-- 1,000 acres --		1,000 bu.	Bu./ acre	-- 1,000 acres --		1,000 bu.	Bu./ acre
Minn.:								
A	0	0	0	0.0	857	840	40,740	48.5
B	0	0	0	0.0	578	567	28,063	49.5
C	0	0	0	0.0	107	102	4,749	46.6
					172	171	7,928	46.4
Iowa:								
D	143	100	8,500	85.0	4	4	180	45.0
E	61	42	3,661	87.2	2	2	79	39.5
F	32	21	1,904	90.7	1	1	50	50.0
G	3	2	152	76.0	1	1	34	34.0
	47	34	2,783	81.9	1/	1/	17	41.8
Mo.:								
H	740	636	47,700	75.0				
I	124	107	8,467	79.1	0	0	0	0.0
J	199	174	13,976	80.3	0	0	0	0.0
K	362	307	21,942	71.5	0	0	0	0.0
	56	48	3,315	69.1	0	0	0	0.0
Wis.:								
M	0	0	0	0.0	37	36	2,052	57.0
N	0	0	0	0.0	6	6	291	48.5
					31	30	1,761	58.7
Ill.:								
O	200	170	12,750	75.0	20	17	816	48.0
P	6	3	250	83.3	5	5	224	44.8
Q	29	24	1,958	81.6	4	3	147	49.0
R	22	18	1,244	69.1	2	2	104	52.0
	143	125	9,298	74.4	8	7	341	48.7
Mich.:								
S	0	0	0	0.0	22	20	860	43.0
T	0	0	0	0.0	6	6	230	38.3
U	0	0	0	0.0	13	12	548	45.7
					3	2	81	40.5
Ind.:								
V	90	72	5,400	75.0	17	15	630	42.0
W	50	40	2,957	73.9	3	2	89	44.5
	40	32	2,443	76.3	14	13	541	41.6
Ohio.:								
X	0	0	0	0.0	20	16	800	50.0
Y	0	0	0	0.0	4	3	150	50.0
Z	0	0	0	0.0	12	10	515	51.5
					4	3	134	44.7
Region:	1,173	978	74,350	76.0	977	948	46,078	48.6

In some instances the special tabulations by production areas differ somewhat from State totals for that item published in Crop Production, 1972 Annual Summary, SRS, USDA, Jan. 1973.

1/Less than 500 acres.

Table 32--Upland cotton and flaxseed production, North Central region, 1971

Area	Upland cotton				Flaxseed			
	Planted	Harvested	Production	Yield	Planted	Harvested	Production	Yield
	-- 1,000 acres --		Mil. lbs.	Lbs./acre	-- 1,000 acres --		1,000 bu.	Bu./acre
Minn.:								
A					245	240	3,480	14.5
B					54	51	697	13.7
C					24	23	320	13.9
					167	166	2,463	14.8
Iowa:								
D					-	1	18	18.0
E								
F								
G								
Mo.:	343.0	313.0	192.0	613				
H								
I								
J	1.5	1.0	0.3	300				
K	341.5	312.0	191.8	615				
Wis.:								
M								
N								
Ill.:	1.7	0.8	0.2	242				
O								
P								
Q								
R	1.7	0.8	0.2	242				
Mich.:								
S								
T								
U								
Ind.:								
V								
W								
Ohio:								
X								
Y								
Z								
Region:	344.7	313.8	192.2	612	245	241	3,498	14.5

In some instances the special tabulations by production areas differ somewhat from State totals for that item published in Crop Production, 1972 Annual Summary, SRS, USDA, Jan. 1973.

Table 33--Crop acreages: Eligible bases and allotments, North Central region, 1972

Area	Eligible base - 1972				Eligible Al- lotment-1972		On eligible farms - 1971 1/	
	Corn	Grain Sorghum	Barley	Feed Grain	Wheat	Cotton	Cropland	Conserving base
1,000 acres								
Minn.:	7,494	4	1,112	8,610	341	0	22,090	2,607
A	187	0	795	982	201	0	4,198	551
B	714	2/	102	816	32	0	3,127	878
C	6,593	4	215	6,812	108	0	14,765	1,178
Iowa:	13,753	85	20	13,858	34	0	27,497	2,301
D	3,721	47	10	3,778	21	0	6,790	474
E	6,472	12	6	6,490	7	0	12,735	733
F	2,165	2	3	2,168	1	0	4,199	438
G	1,395	24	1	1,420	5	0	3,773	656
Mo.:	4,836	652	218	5,706	509	255.9	19,047	4,999
H	1,169	135	11	1,315	87	0	3,017	643
I	1,809	135	25	1,969	146	0	6,844	1,602
J	1,505	373	167	2,045	211	1.6	7,132	2,686
K	353	9	15	377	65	254.3	2,054	68
Wis.:	2,981	0	27	3,008	14	0	12,321	4,680
M	1,075	2/	3	1,078	2	0	4,376	1,668
N	1,906	2/	24	1,930	12	0	7,945	3,012
Ill.:	10,956	25	59	11,040	543	2.0	25,034	1,607
O	1,806	0	6	1,812	12	0	3,610	361
P	2,781	6	6	2,793	109	0	5,914	437
Q	4,458	4	4	4,466	179	0	9,219	208
R	1,911	15	43	1,969	243	2.0	6,291	601
Mich.:	2,157	0	72	2,229	357	0	9,806	1,559
S	408	2/	18	426	53	0	2,412	821
T	1,152	2/	35	1,187	231	0	5,650	559
U	597	2/	19	616	73	0	1,744	179
Ind.:	5,596	20	51	5,667	420	0	14,356	1,418
V	4,249	4	15	4,268	280	0	10,398	736
W	1,347	16	36	1,399	140	0	3,958	682
Ohio:	3,785	11	54	3,850	489	0	12,666	2,421
X	2,636	1	26	2,663	345	0	7,675	632
Y	761	10	20	791	106	0	3,514	1,133
Z	388	2/	8	396	38	0	1,477	656
Region:	51,558	797	1,613	53,968	2,707	257.9	142,817	21,592

1/Data for 1971 were used as 1972 data were not complete for this item.  
2/Less than 500 acres.

Source: ASCS, USDA.

Table 34--Land resources, by State, North Central region, 1967

State	Total land area	Non- CNI land 1/	CNI land				
			Total CNI	Cropland	Pasture and range	Forestland	Other
1,000 acres							
Minn.	51,201	5,381	45,820	22,991	3,038	16,166	3,625
Iowa	35,839	1,769	34,070	26,458	3,997	2,586	1,029
Mo.	44,235	3,800	40,435	16,658	8,504	13,709	1,564
Wis.	35,013	3,887	31,126	12,229	2,872	14,058	1,968
Ill.	35,766	2,952	32,814	24,361	3,345	3,585	1,523
Mich.	36,515	5,502	31,013	11,338	1,268	16,677	1,730
Ind.	23,132	1,923	21,209	13,881	2,298	3,761	1,269
Ohio	26,206	3,022	23,184	12,742	2,735	6,340	1,366
Region	287,907	28,236	259,671	140,658	28,059	76,882	14,073

See Appendix and References at the end of this report for further information on CNI land data and publications.

1/Land excluded from the Inventory: Federal noncropland, urban and built-up, and water area.

Source: (7), pp. 2, 4, and 5.

Table 35--Agricultural land uses, by States, North Central region, 1967

State	Total agricultural land	Cropland			Total	Pasture and range
		In tillage rotation	Orchards, vineyards, & bush fruits	Openland formerly cropped		
<u>1,000 acres</u>						
Minn.	26,028	22,710	8	272	22,991	3,038
Iowa	30,455	26,425	3	30	26,458	3,997
Mo.	25,162	16,349	20	288	16,658	8,505
Wis.	15,102	11,847	24	359	12,229	2,872
Ill.	27,706	24,100	36	224	24,361	3,346
Mich.	12,606	9,577	302	1,459	11,338	1,268
Ind.	16,179	13,674	19	188	13,881	2,298
Ohio	15,477	12,319	47	376	12,742	2,735
Region	168,715	137,003	459	3,196	140,658	28,059

Details may not add to totals due to rounding.

Source: (7).

Table 36--Major agricultural land use, by production areas, North Central region, 1967

Area	Cropland : in tillage : rotation	Pasture : and : range	Total open-land
1,000 acres			
Minn.:	22,710	3,038	25,749
A	4,435	310	4,745
B	3,765	1,144	4,909
C	14,510	1,585	16,095
Iowa:	26,425	3,997	30,422
D	6,555	869	7,424
E	12,159	1,240	13,399
F	4,255	528	4,784
G	3,456	1,360	4,816
Mo.:	16,349	8,505	24,854
H	2,554	910	3,464
I	5,662	2,717	8,379
J	6,218	4,769	10,987
K	1,915	109	2,024
Wis.:	11,847	2,872	14,719
M	3,708	1,372	5,080
N	8,138	1,500	9,639
Ill.:	24,100	3,346	27,446
O	3,706	408	4,114
P	5,590	1,189	6,778
Q	9,096	597	9,693
R	5,710	1,152	6,862
Mich.:	9,577	1,268	10,846
S	2,670	789	3,459
T	5,263	360	5,624
U	1,644	119	1,763
Ind.:	13,674	2,298	15,972
V	10,139	1,103	11,242
W	3,535	1,195	4,731
Ohio:	12,319	2,735	15,055
X	7,610	648	8,258
Y	3,288	1,244	4,532
Z	1,421	844	2,265
Region	137,003	28,059	165,062

Source: (7).

Table 37--Total cropland in tillage rotation, by production area and land capability class and subclass, North Central region, 1967

Area	Land capability class and subclass 1/						
	1	2E	3E	4E	6E	7E-8E	2W
	1,000 acres						
Minn.:	1,648.9	6,263.6	2,012.5	497.4	135.5	42.0	6,293.1
A	21.9	785.6	277.7	61.0	1.4	3.0	1,484.2
B	34.3	900.9	424.0	113.6	24.0	0.4	538.6
C	1,592.7	4,557.1	1,310.8	332.8	110.1	38.6	4,270.3
Iowa:	3,632.1	6,063.0	6,908.6	1,295.2	533.3	178.7	6,077.6
D	805.4	1,734.2	2,256.9	384.5	91.4	15.8	842.2
E	2,000.4	2,670.7	2,606.1	363.1	237.5	73.3	3,492.8
F	593.3	1,132.9	826.0	123.5	51.5	13.1	1,213.5
G	233.0	524.9	1,219.6	424.1	152.9	76.5	529.1
Mo.:	1,013.6	1,752.2	5,453.1	1,759.4	692.5	103.2	1,824.6
H	186.2	549.7	789.5	318.3	123.6	23.8	315.5
I	226.3	396.4	2,384.5	626.1	370.7	44.8	695.0
J	452.9	769.5	2,216.1	800.5	196.0	34.6	454.1
K	148.2	36.6	63.0	14.5	2.2	0.0	360.0
Wis.:	391.1	3,427.4	1,992.8	1,173.7	354.3	111.9	2,275.5
M	92.1	919.8	920.3	730.8	215.3	53.6	306.4
N	299.0	2,507.6	1,072.5	442.9	139.0	58.3	1,969.1
Ill.:	4,867.9	7,081.1	1,333.7	963.3	298.7	46.5	6,457.7
O	702.9	1,602.6	343.5	120.1	38.1	6.1	666.9
P	1,752.1	1,804.6	358.7	252.0	106.4	16.9	1,055.2
Q	2,040.9	2,584.0	214.6	99.6	29.6	11.0	3,501.4
R	372.0	1,089.9	416.9	491.6	124.6	12.5	1,234.2
Mich.:	118.4	1,879.1	912.4	252.0	130.0	33.2	3,300.4
S	34.1	534.1	404.7	90.4	48.5	14.2	351.6
T	71.1	922.6	317.4	95.4	55.0	11.4	2,589.4
U	13.2	422.4	190.3	66.2	26.5	7.6	359.4
Ind.:	1,225.5	2,168.3	702.1	667.4	199.2	52.2	6,730.2
V	678.4	1,555.2	470.4	273.4	49.5	8.9	5,764.2
W	547.1	613.1	231.7	394.0	149.7	43.3	966.0
Ohio:	528.7	2,289.4	1,127.2	592.9	215.9	28.3	5,441.3
X	193.1	1,194.6	316.1	83.7	19.7	5.3	4,642.9
Y	133.8	767.6	594.8	327.2	76.1	8.1	674.4
Z	201.8	327.2	216.3	182.0	120.1	14.9	124.0
Total	13,426.2	30,924.1	20,442.4	7,201.3	2,559.4	596.0	38,400.4

Continued

Table 37--Total cropland in tillage rotation, by production area and land capability class and subclass, North Central region, 1967--continued

Area	Land capability class and subclass 1/								Total
	3W	4W	5W-8W:	2S	3S	4S	6S	7S-8S:	
1,000 acres									
Minn.:	2,808.2	652.5	149.8	468.0	717.1	834.3	130.0	57.4	22,710.3
A	1,186.3	332.0	17.9	16.9	120.0	122.5	4.1	0.2	4,434.7
B	347.9	276.1	70.8	58.5	301.4	553.8	88.7	32.2	3,765.2
C	1,274.0	44.4	61.1	392.6	295.7	158.0	37.2	25.0	14,510.4
Iowa:	893.8	83.1	140.4	290.7	92.7	177.1	31.6	27.9	26,425.8
D	301.7	4.7	49.7	27.8	23.6	8.6	5.9	2.3	6,555.2
E	366.1	8.5	53.6	119.5	50.9	89.0	17.0	10.7	12,159.1
F	53.1	0.0	4.1	126.9	17.9	77.2	8.5	13.9	4,255.5
G	172.9	69.9	33.0	16.5	0.3	2.3	0.2	1.0	3,456.0
Mo.:	2,816.0	0.1	30.4	161.4	415.8	169.9	30.2	127.0	16,349.4
H	179.5	0.0	6.5	13.1	18.4	21.6	6.0	2.3	2,554.0
I	829.0	0.0	23.2	6.2	43.7	15.3	0.2	0.9	5,662.3
J	713.9	0.0	0.2	140.1	187.7	106.0	23.5	123.1	6,218.2
K	1,093.6	0.1	0.5	2.0	166.0	27.0	0.5	0.7	1,914.9
Wis.:	303.2	207.2	33.2	474.2	355.9	506.4	131.3	108.5	11,846.6
M	23.3	12.4	10.3	113.6	52.0	166.0	48.6	43.7	3,708.2
N	279.9	194.8	22.9	360.6	303.9	340.4	82.7	64.8	8,138.4
Ill.:	2,108.2	82.8	77.5	321.5	267.2	141.0	36.4	17.0	24,100.5
O	49.2	6.7	26.1	62.7	59.1	16.6	4.0	0.9	3,705.5
P	112.7	0.0	10.3	40.2	34.5	38.4	4.6	2.6	5,589.2
Q	220.7	11.2	10.8	159.1	103.1	81.1	23.2	5.2	9,095.5
R	1,725.6	64.9	30.3	59.5	70.5	4.9	4.6	8.3	5,710.3
Mich.:	1,211.7	156.9	8.7	295.3	794.6	324.8	56.4	103.5	9,577.4
S	418.7	79.8	2.8	47.7	304.8	214.4	44.9	79.0	2,669.7
T	629.8	64.4	4.9	85.1	312.7	75.5	5.4	23.3	5,263.4
U	163.2	12.7	1.0	162.5	177.1	34.9	6.1	1.2	1,644.3
Ind.:	1,073.7	197.3	2.8	293.1	243.6	104.0	9.5	5.2	13,674.1
V	572.4	197.3	2.8	237.7	210.1	104.0	9.5	5.0	10,138.8
W	501.3	0.0	0.0	55.4	33.5	0.0	0.0	0.2	3,535.3
Ohio:	1,839.5	36.3	1.0	117.9	58.5	19.5	8.7	14.3	12,319.4
X	1,019.2	6.4	0.0	63.4	50.3	13.4	1.4	0.4	7,609.9
Y	619.2	28.9	1.0	41.4	8.2	5.7	0.7	1.0	3,288.1
Z	201.1	1.0	0.0	13.1	0.0	0.4	6.6	12.9	1,421.4
Total	13,054.3	1,416.2	443.8	2,422.1	2,945.4	2,277.0	434.1	460.8	137,003.5

See Appendix for further information on CNI definitions and references.

1/Subclass C (climate limitations), which occurs in the northern parts of the region, is combined with subclass W.

Source: (7)



Table 38--Pasture and range, by production area and land capability class and subclass, North Central region, 1967

Area	Land capability class and subclass 1/							
	1	2E	3E	4E	6E	7E-8E	2W	3W
	1,000 acres							
Minn.:	39	363	310	178	102	116	548	501
A	0	8	19	10	2/	2	62	90
B	3	147	113	46	29	7	157	141
C	35	208	178	122	73	107	330	270
Iowa:	165	329	945	563	411	344	750	80
D	35	118	233	111	62	74	150	12
E	61	112	274	129	127	81	274	21
F	43	52	82	37	29	10	158	34
G	26	48	356	286	193	179	168	13
Mo.:	181	585	2,783	1,877	1,177	317	324	221
H	19	137	374	176	110	10	51	10
I	24	137	1,006	535	589	163	153	72
J	131	303	1,373	1,141	470	141	113	121
K	6	8	30	24	9	3	8	18
Wis.:	29	299	340	374	276	157	592	202
M	22	120	188	265	200	116	182	32
N	6	180	152	109	76	42	410	170
Ill.:	325	757	502	510	545	143	297	128
O	63	90	59	45	34	12	49	9
P	127	282	171	173	299	72	32	4
Q	96	158	75	54	72	29	82	6
R	39	227	197	238	140	30	134	109
Mich.:	12	142	171	74	73	48	197	254
S	7	88	117	48	46	28	86	129
T	4	40	30	15	14	11	92	105
U	1	14	24	11	13	9	20	19
Ind.:	172	394	227	352	323	195	426	109
V	96	207	115	107	69	29	329	60
W	76	187	112	245	255	166	97	49
Ohio:	131	316	396	558	531	128	363	209
X	36	148	85	48	52	8	195	62
Y	48	121	211	309	175	47	149	128
Z	47	46	100	201	304	73	18	19
Region	1,054	3,185	5,674	4,486	3,438	1,448	3,497	1,704

Continued

Table 38--Pasture and range, by production area and land capability class and subclass, North Central region, 1967  
--Continued

Area	Land capability class and subclass 1/							Total
	4W	5W-8W	2S	3S	4S	6S	7S-8S	
1,000 acres								
Minn.:	299	289	14	52	127	36	64	3,038
A	63	15	2	8	26	2	2	310
B	209	136	2	26	75	23	29	1,144
C	27	138	11	18	25	11	32	1,585
Iowa:	18	234	24	6	29	17	82	3,997
D	1	60	1	2	4	1	5	869
E	1	84	12	2	15	9	38	1,240
F	0	24	9	2	10	6	33	528
G	17	66	1	2/	2/	2/	5	1,359
Mo.:	2/	11	144	126	135	84	537	8,505
H	0	2	0	2/	2/	5	15	910
I	2/	8	2	6	1	4	14	2,716
J	0	1	141	118	134	75	509	4,770
K	0	0	1	2	0	0	2/	109
Wis.:	146	104	32	23	45	80	174	2,872
M	28	30	5	5	11	47	120	1,372
N	118	73	26	18	34	33	54	1,500
Ill.:	6	25	25	10	12	17	43	3,345
O	1	20	2	3	3	8	12	408
P	0	3	7	1	5	1	11	1,188
Q	1	1	8	3	4	3	5	597
R	5	2	8	2	0	5	16	1,152
Mich.:	56	4	10	81	50	20	76	1,268
S	43	1	4	57	43	19	72	789
T	13	1	4	21	6	1	4	360
U	0	1	2	3	1	2/	1	119
Ind.:	23	2	29	18	13	5	9	2,298
V	23	2	25	16	13	5	8	1,103
W	0	0	4	2	0	0	2/	1,195
Ohio:	9	9	10	4	3	8	62	2,735
X	0	0	4	3	2/	4	2	648
Y	9	9	1	1	2	2	33	1,244
Z	2/	0	5	0	0	3	27	844
Region	557	678	288	320	414	267	1,047	28,059

See Appendix for further information on CNI definitions and references.

1/Subclass C (climate limitations), which occurs only in the northern areas, is included with subclass W.

2/Less than 500 acres.

Source: (7).

## REFERENCES

1. Illinois Conservation Needs Committee, USDA. Illinois Soil and Water Conservation Needs Inventory, Col. Agr., Univ. Ill., 1970.
2. Indiana Conservation Needs Committee, USDA. Indiana Soil and Water Conservation Needs Inventory, Cooperative Extension Serv., Purdue Univ., 1968.
3. Iowa Conservation Needs Committee, USDA. Iowa Conservation Needs Inventory, U.S. Dept. Agr., Soil Conservation Serv., Des Moines, Iowa, 1970.
4. Michigan Conservation Needs Committee, USDA. Michigan Conservation Needs Inventory, U.S. Dept. Agr., Soil Conservation Serv., St. Paul, Minn., 1971.
5. Minnesota Conservation Needs Committee, USDA. Minnesota Soil and Water Conservation Needs Inventory, U.S. Dept. Agr., Soil Conservation Serv., St. Paul, Minn., 1971.
6. Missouri Conservation Needs Committee, USDA. Missouri Conservation Needs Inventory, U.S. Dept. Agr., Soil Conservation Serv., Columbia, Mo., 1970.
7. National Inventory of Soil and Water Conservation Needs, 1967. Stat. Bul. No. 461, U.S. Dept. Agr., Jan. 1971.
8. Ohio Soil and Water Conservation Needs Committee, USDA. Ohio Soil and Water Conservation Needs Inventory, U.S. Dept. Agr., Soil Conservation Serv., Columbus, Ohio, 1971.
9. Wisconsin Conservation Needs Committee, USDA. Wisconsin Soil and Water Conservation Needs Inventory, U.S. Dept. Agr., Soil Conservation Service, Madison, Wisc., 1970.
10. Worden, Gaylord, and others. Selected U.S. Crop Budgets, Yields, Input, and Variable Costs. Vol. II--North Central Region. U.S. Dept. Agr., ERS-458. Apr. 1971.

## APPENDIX

### Land Resource Data from the Conservation Needs Inventory (CNI), 1967

Land resource data from the national Conservation Needs Inventory of 1967 were published by States and counties. Selected land use data from the CNI were aggregated for the 25 farm production areas of the North Central region and are presented in tables 34 to 38. Definitions of land use, capability class, and subclass in this report are the same as those in the CNI. Brief definitions of the land capability classes and subclasses are presented below. For more complete details and descriptions the reader is referred to the CNI publications listed in References.

The eight capability land classes are briefly defined in the CNI reports as follows: <sup>1/</sup>

- Class I - Soils have few limitations that restrict their use.
- Class II - Soils have some limitations that reduce the choice of plants, or require special conservation practices, or both.
- Class III - Soils have severe limitations that reduce the choice of plants, or require special conservation practices, or both.
- Class IV - Soils have very severe limitations that restrict the choice of plants, or require very careful management, or both.
- Class V - Soils have little or no erosion hazard but have other limitations which are impractical to remove and that limit their use largely to pasture, range, wood, or wildlife habitat.
- Class VI - Soils with severe limitations that make them generally unsuitable for cultivation and that limit their use largely to pasture, range, woodland, or wildlife food and cover.
- Class VII - Soils with very severe limitations that make them unsuitable for cultivation and that restrict their use largely to pasture, range, forest, or wildlife habitat.
- Class VIII - Soils and landforms with limitations that preclude their use for commercial crop production and restrict their use to recreation, wildlife, water supply, or aesthetic purposes.

Capability classes, except Class I, are further broken down into four subclasses: E, for erosion problems; W, for excess water; S, for soil limitations in the root zone; and C, for climate limitations (extreme temperature or lack of moisture).

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<sup>1/</sup>For more detailed descriptions see the CNI publications listed in References, particularly (7), pp. 205-207.

Subclass E is made up of soils where the susceptibility to erosion damage is the dominant problem in their use.

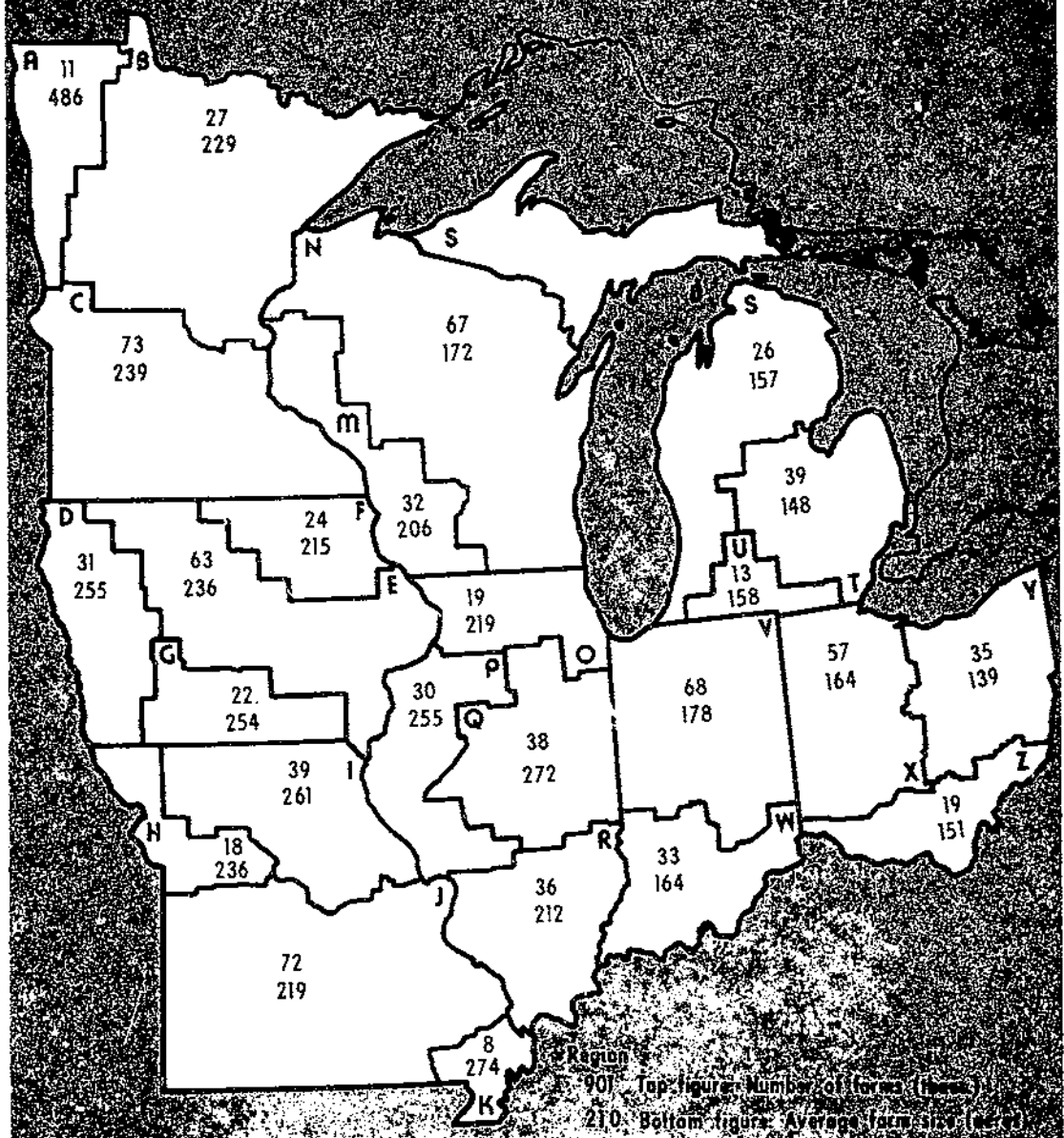
Subclass W is made up of soils where excess water is the dominant limitation in their use. The excess water may be the result of a high water table, frequent overflow, or frequent ponding.

Subclass S is made up of soils where root-zone limitations are the result of shallowness, stoniness, low moisture-holding capacity, alkalinity, and low fertility that is difficult to correct.

Subclass C is made up of soils where climate is the only major hazard limiting their use. (This subclass only occurs in the northern parts of the region and is treated the same as W in this report.)

Where two kinds of limitations which can be modified or corrected are essentially equal, the subclasses have the following priority: E, W, and S. For example, if a soil has both an erosion hazard and an excess water hazard, E takes precedence over W. For soils with both an excess water hazard and a root-zone limitation, W takes precedence over S.

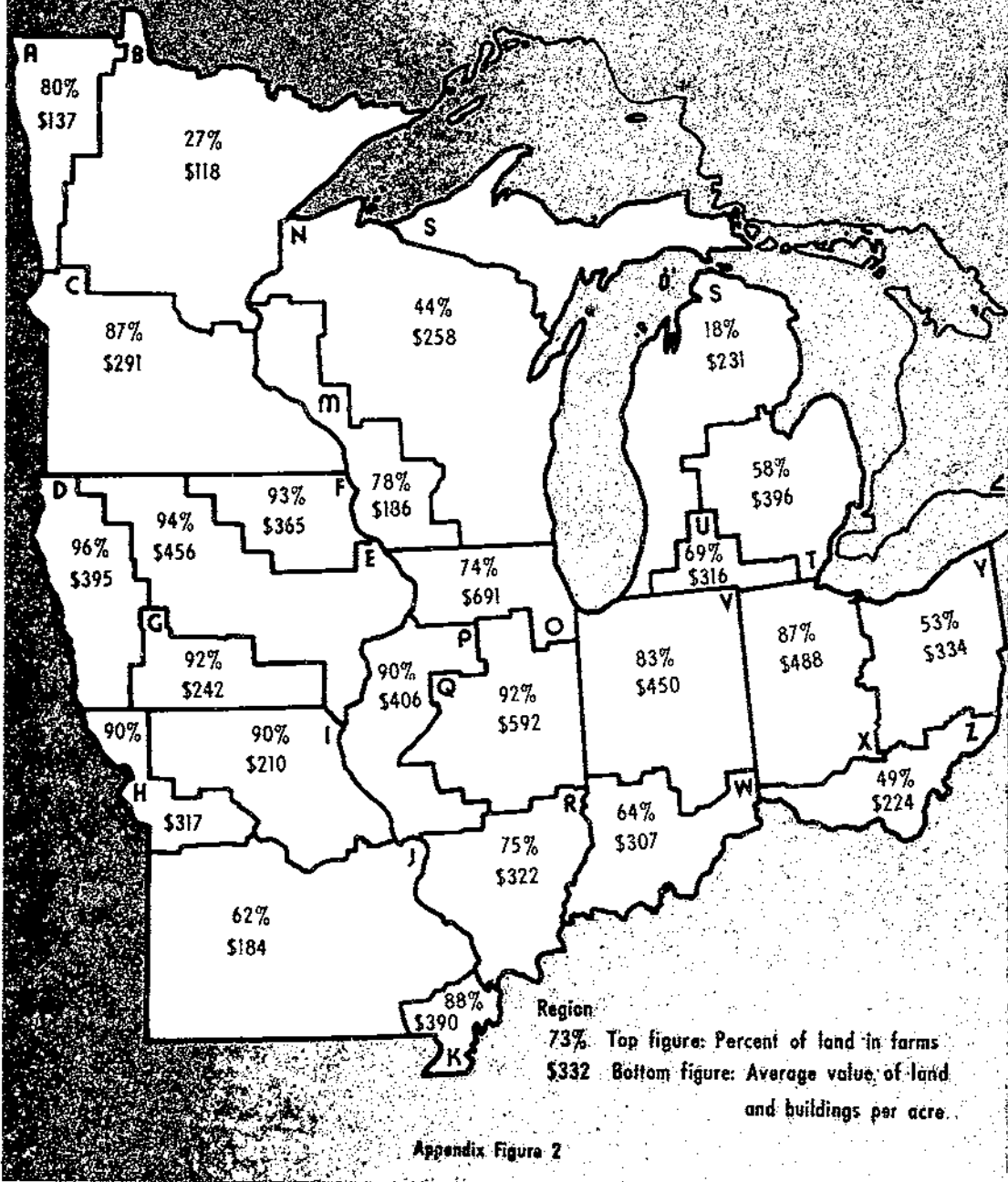
# Number of All Farms and Average Size, 1980



901 Top figure: Number of farms (thous.)  
 210 Bottom figure: Average farm size (acres)

Appendix Figure 1

# Land in Farms and Average Value of Land and Buildings per Acre, 1969

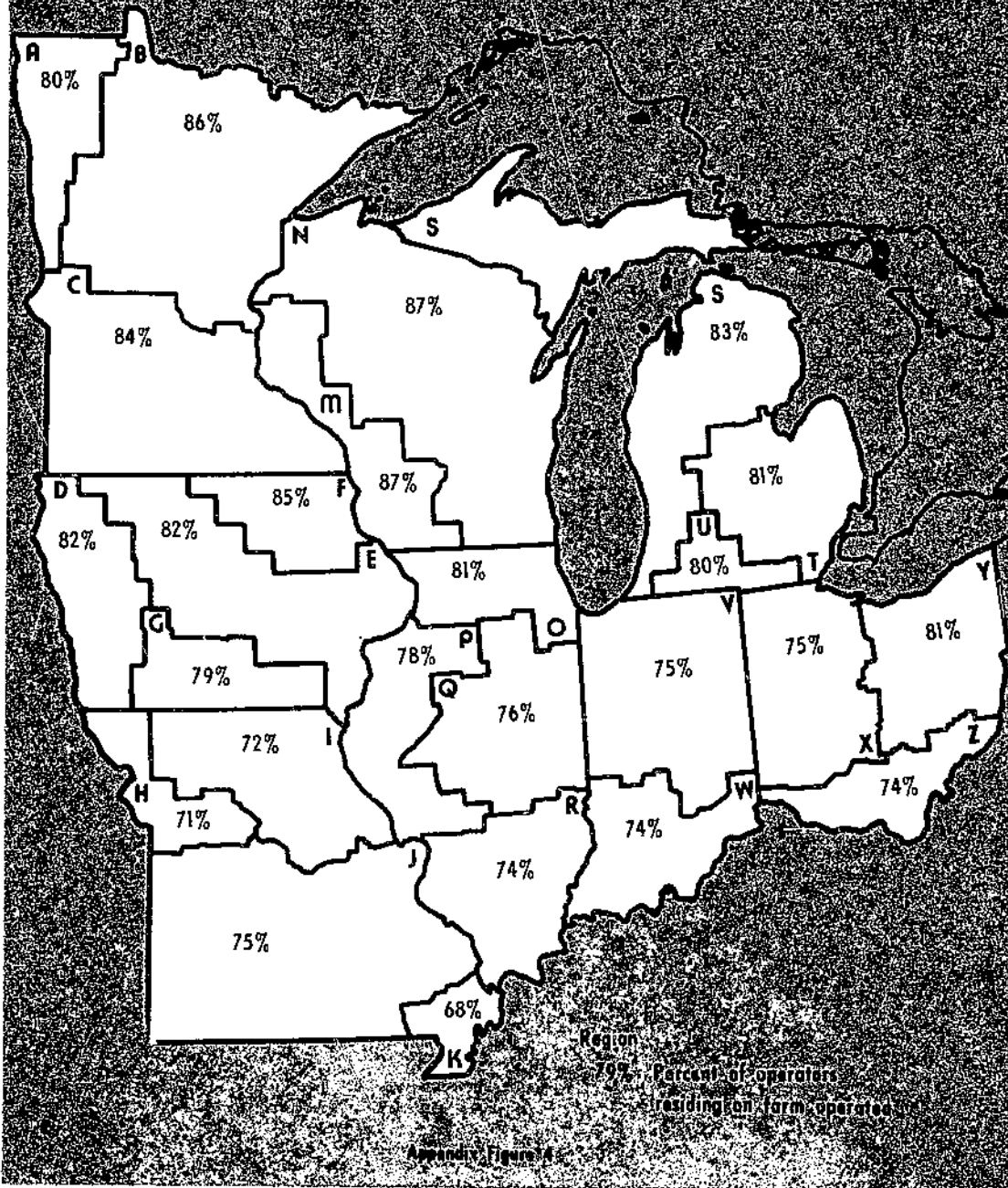


Appendix Figure 2



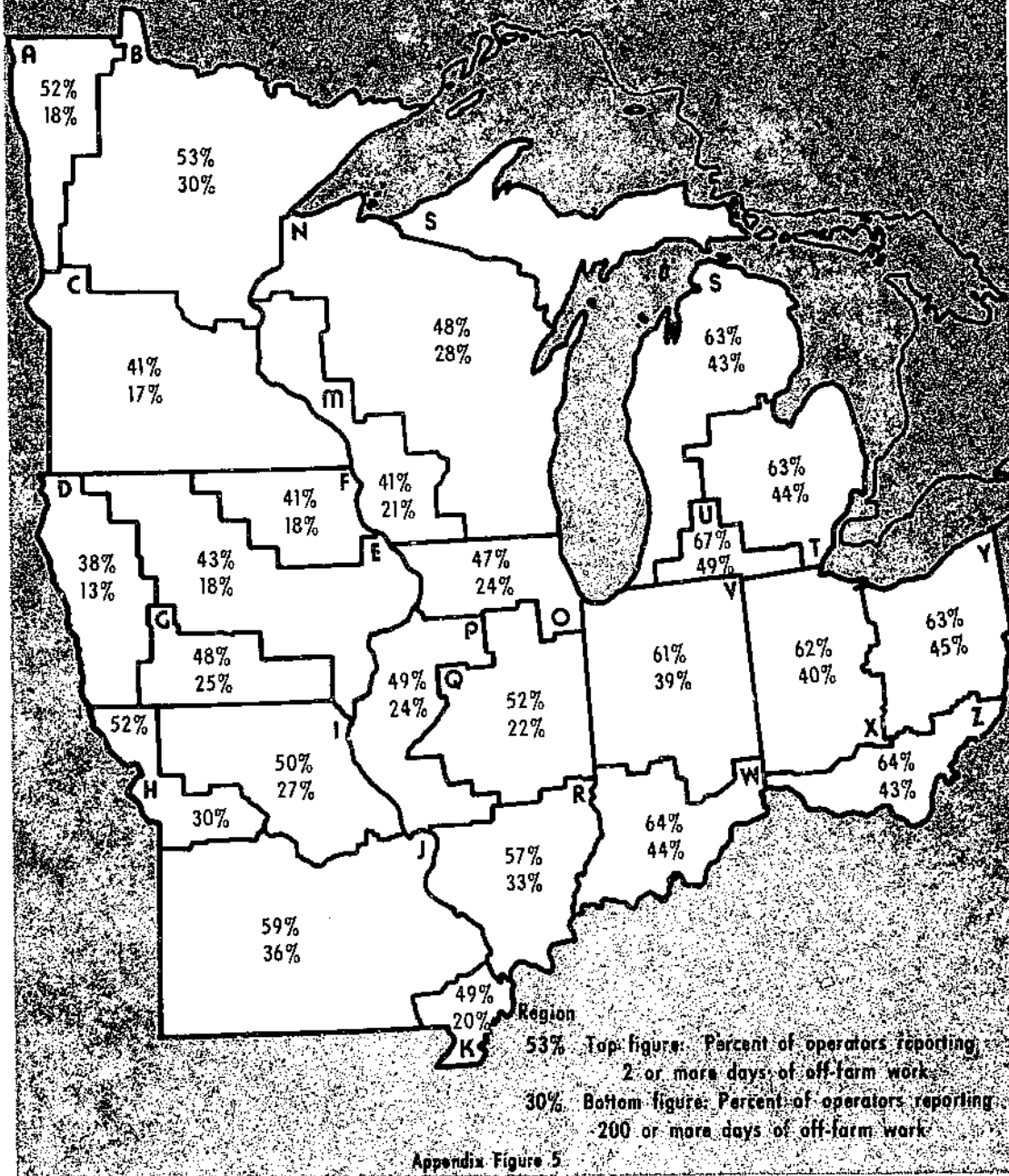


# Farm Operators Residing on Farm, 1969



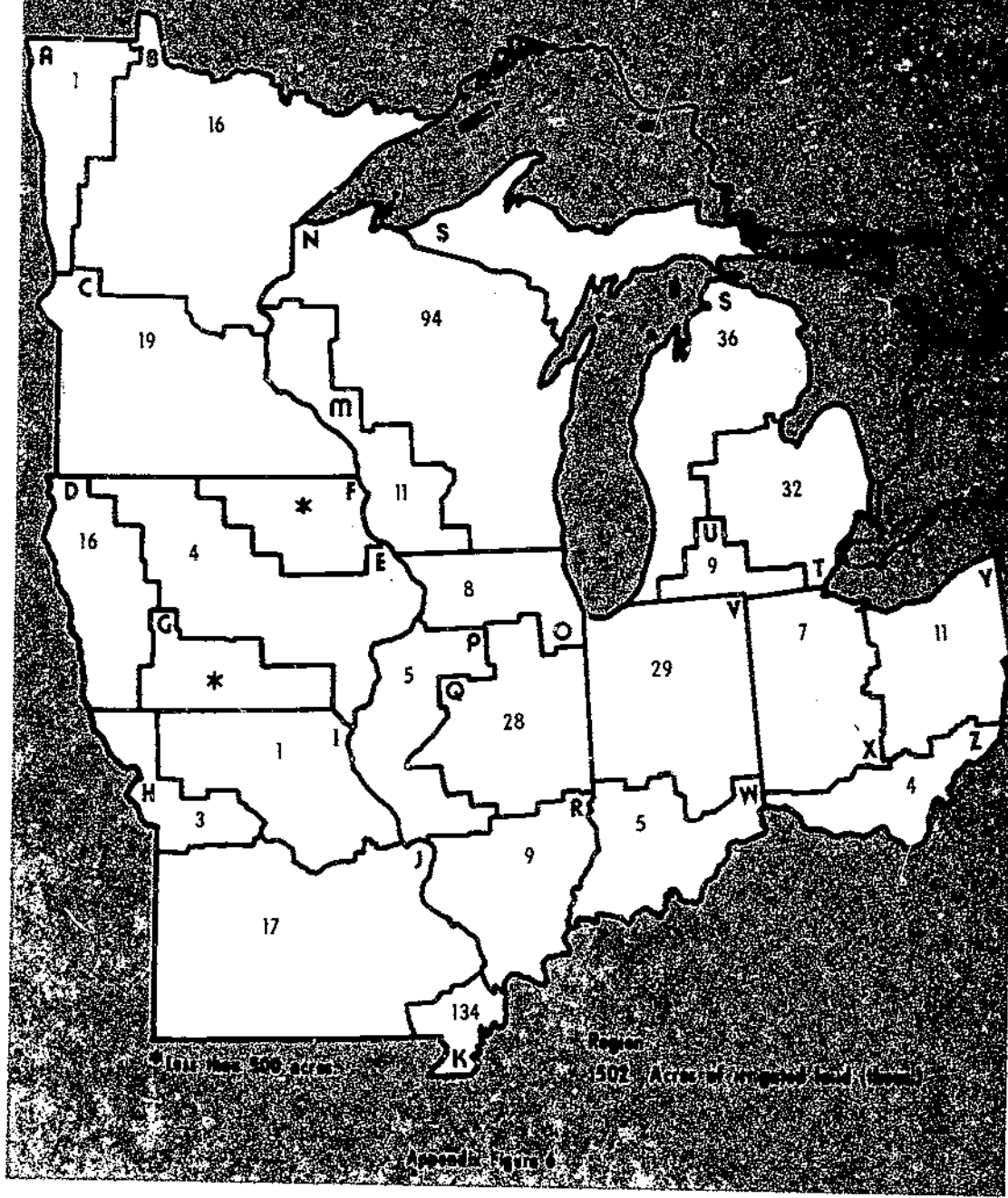
Appendix Figure A

# Farm Operators Employed Off Farm, 1969

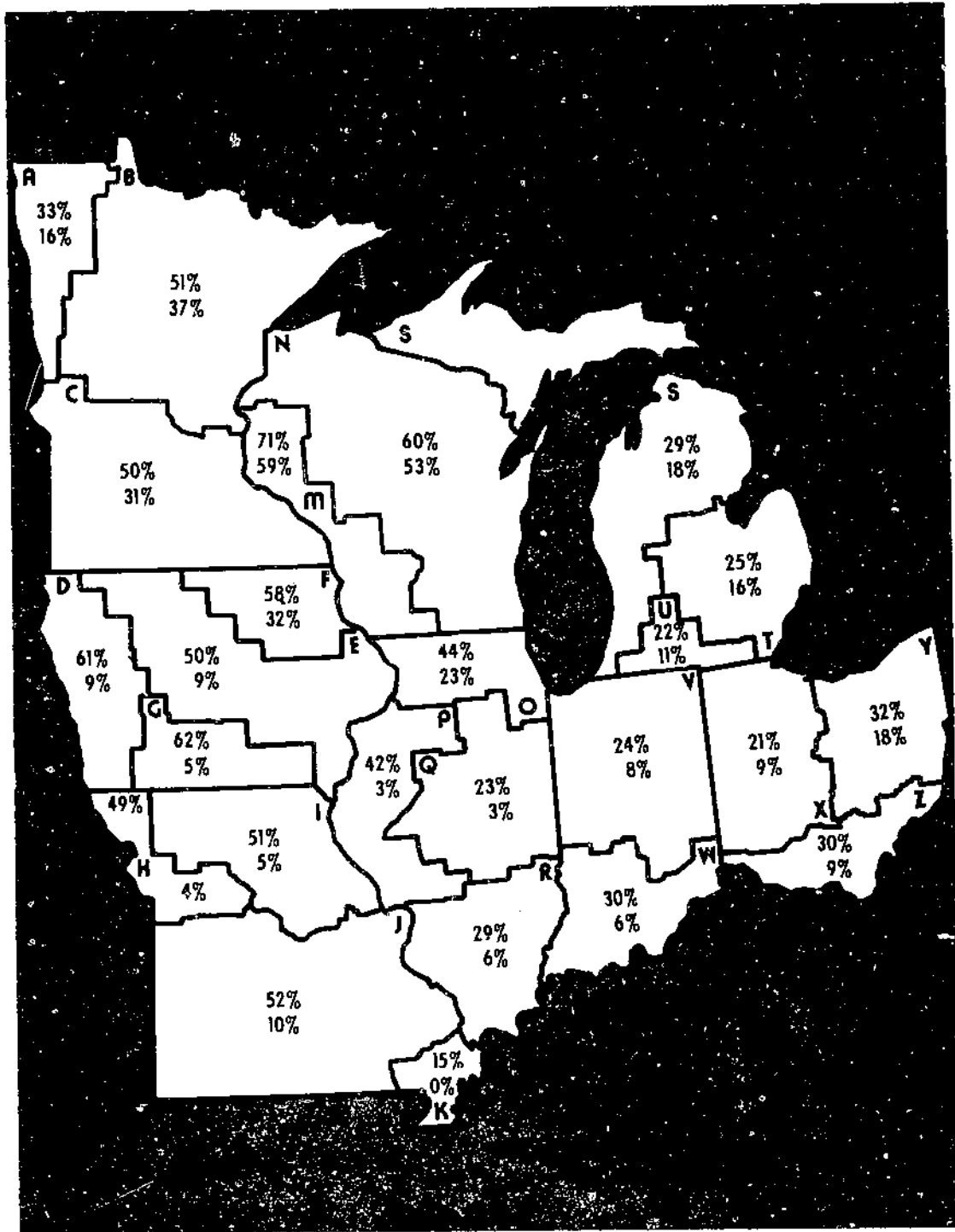


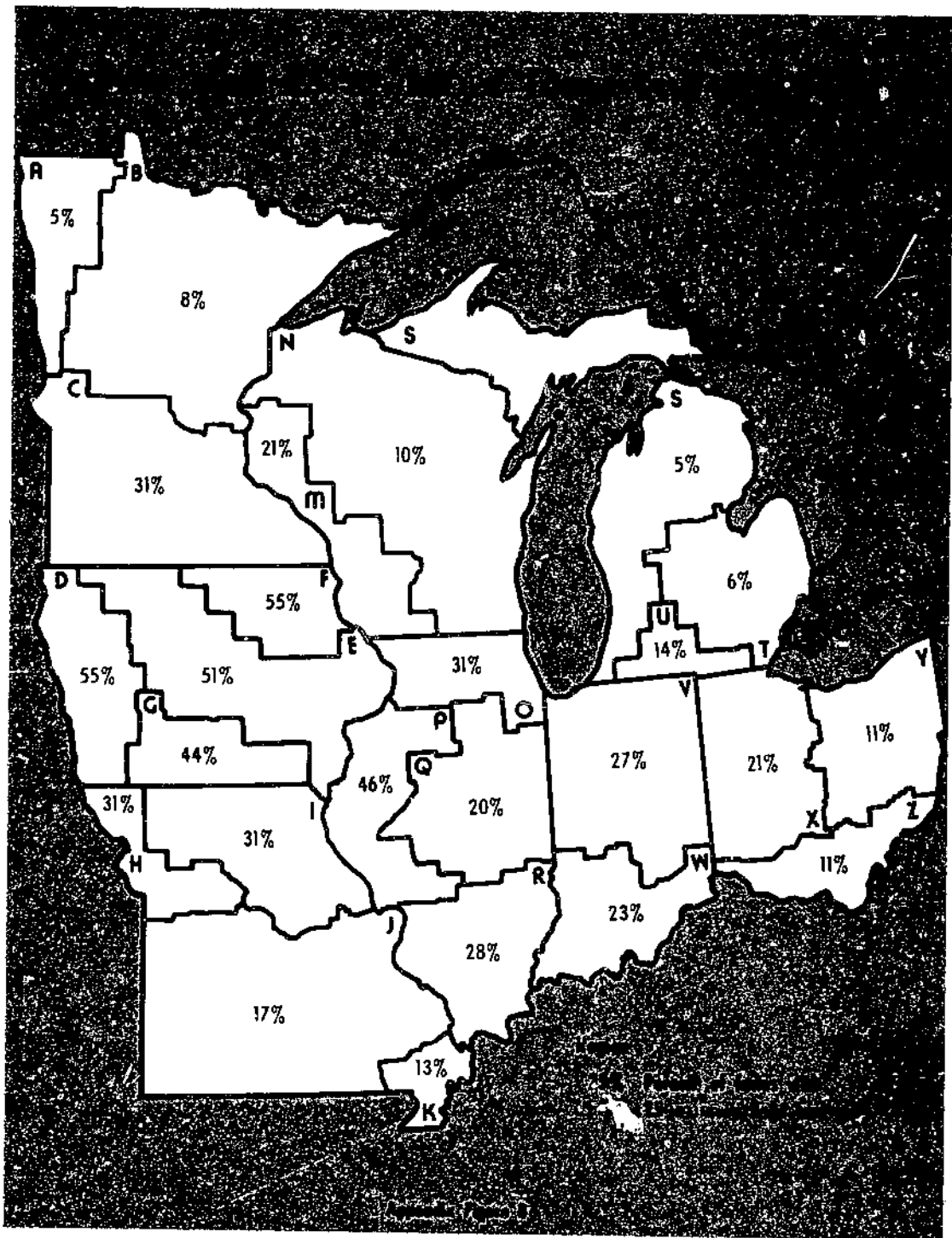
Appendix Figure 5

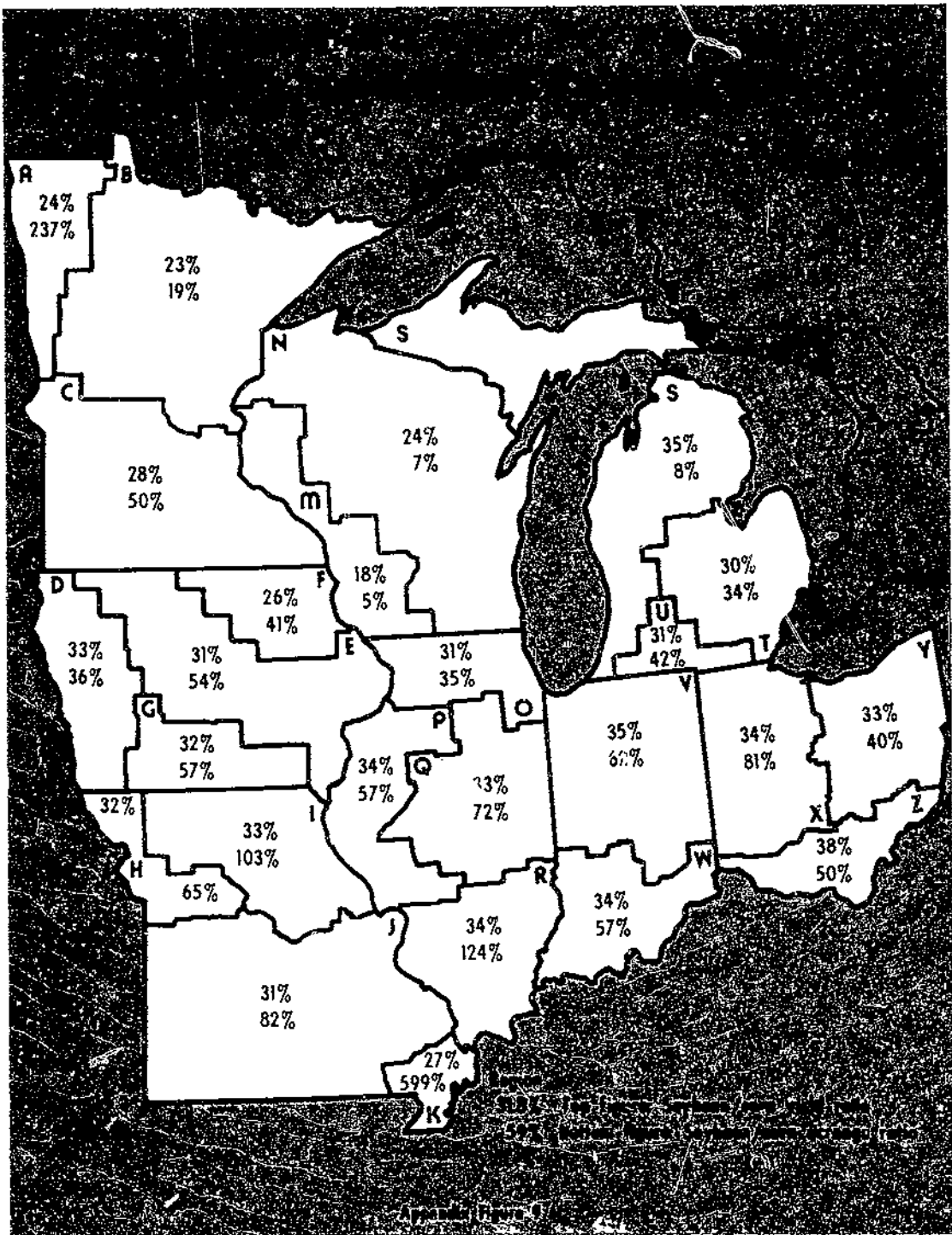
# Fragmented Land 1985



Appendix Figure 4







Appendix table 1--Woodland: Land use data for commercial (class 1-5) farms, North Central region, 1969

Area	Total		Pastured		Not pastured	
	Farms	Area	Farms	Area	Farms	Area
	Number	1,000 acres	Number	1,000 acres	Number	1,000 acres
Minn.:	34,849	2,244	23,919	1,316	20,280	928
A	3,983	321	2,366	142	2,813	179
B	12,608	1,167	9,837	701	7,073	466
C	18,258	755	11,716	473	10,394	282
Iowa:	28,078	1,484	20,788	1,107	11,824	377
D	3,873	158	2,603	112	1,771	45
E	11,577	599	8,564	444	4,731	156
F	6,755	368	5,103	277	3,102	91
G	5,853	360	4,518	275	2,220	85
Mo.:	47,106	4,366	35,328	2,856	21,755	1,510
H	4,730	233	3,234	138	2,347	95
I	13,614	969	9,805	604	6,662	365
J	27,144	3,084	21,532	2,085	11,688	999
K	1,618	80	757	29	1,058	51
Wis.:	54,277	3,442	35,334	1,816	33,601	1,626
M	18,969	1,441	14,284	877	10,809	564
N	35,308	2,001	21,050	939	22,792	1,062
Ill.:	35,807	2,033	21,461	1,054	21,332	979
O	4,609	192	2,974	122	2,379	70
P	10,488	790	7,625	517	5,063	273
Q	6,468	332	3,942	187	3,551	145
R	14,242	720	6,920	228	10,339	491
Mich.:	27,814	1,301	10,318	442	21,299	860
S	9,642	714	4,155	272	7,260	443
T	13,429	420	4,601	126	10,294	293
U	4,743	167	1,562	44	3,745	123
Ind.:	42,484	1,695	23,620	715	27,483	979
V	28,970	970	15,788	435	18,312	535
W	13,514	725	7,832	281	9,171	444
Ohio:	41,824	1,491	19,477	560	29,838	931
X	22,076	566	8,812	198	16,096	368
Y	13,576	524	6,740	190	9,825	334
Z	6,172	401	3,925	172	3,917	229
Region	312,239	18,056	190,245	9,866	187,412	8,189

Appendix table 2--Pastureland: <sup>1/</sup> Land use data for commercial (class 1-5) farms, North Central region, 1969

Area	Total		Improved		Not improved	
	Farms	Acres	Farms	Acres	Farms	Acres
	Number	1,000 acres	Number	1,000 acres	Number	1,000 acres
Minn.:	24,534	1,273	7,851	336	18,773	937
A	1,712	143	534	44	1,361	99
B	6,669	438	2,160	112	5,311	326
C	16,153	692	5,157	181	12,101	512
Iowa:	33,117	1,921	14,202	818	22,052	1,103
D	6,744	350	3,257	174	3,974	176
E	12,580	590	5,123	237	8,433	353
F	6,207	247	1,931	75	4,659	173
G	7,556	734	3,891	332	4,986	402
Mo.:	29,771	3,279	18,485	1,733	17,614	1,545
H	3,987	377	2,343	201	2,301	176
I	10,109	1,163	6,139	610	5,986	553
J	15,120	1,708	9,669	902	9,051	806
K	555	31	334	20	276	11
Wis.:	24,035	1,078	8,526	317	18,387	761
M	10,232	554	4,513	194	7,265	360
N	13,803	523	4,013	123	11,122	401
Ill.:	22,107	1,117	11,084	518	13,704	599
O	3,541	175	1,338	66	2,501	109
P	7,969	507	4,173	227	4,991	280
Q	4,717	188	2,163	88	2,903	100
R	5,880	247	3,410	138	3,309	109
Mich.:	7,422	313	2,164	77	5,848	237
S	2,737	148	808	36	2,201	112
T	3,224	114	933	28	2,490	87
U	1,461	51	423	13	1,157	38
Ind.:	14,975	576	7,846	295	8,908	281
V	8,849	286	4,143	135	5,420	151
W	6,126	290	3,703	160	3,488	130
Ohio:	17,847	871	9,512	403	11,040	468
X	6,810	221	3,116	99	4,167	122
Y	7,600	380	4,289	174	4,706	205
Z	3,437	271	2,107	130	2,167	140
Region	173,808	10,429	79,670	4,498	116,326	5,931

<sup>1/</sup>Excludes cropland and woodland pasture.



Appendix table 3--Other land: Land use data for commercial  
(class 1-5) farms, North Central region, 1969

Area	All other land		Irrigated land		Total pastureland	
	Farms	Area	Farms	Area	Farms	Area
	Number	1,000 acres	Number	1,000 acres	Number	1,000 acres
Minn.:	73,905	1,876	447	33	63,277	4,446
A	6,807	279	22	1	4,872	494
B	14,332	418	178	15	15,978	1,645
C	52,766	1,180	247	17	42,427	2,307
Iowa:	104,276	2,019	212	19	95,718	6,800
D	24,461	530	100	16	22,307	1,350
E	46,854	847	87	3	40,363	2,354
F	18,721	322	17	1/	17,180	1,032
G	14,249	320	8	1/	15,868	2,064
Mo.:	61,198	1,250	1,214	153	73,959	11,992
H	9,367	221	47	3	10,567	1,320
I	19,828	458	39	2	23,468	3,721
J	28,291	506	283	16	37,528	6,789
K	3,712	65	845	132	2,396	162
Wis.:	59,312	943	1,034	100	65,762	4,726
M	19,520	266	152	10	23,734	2,176
N	39,792	677	882	90	42,028	2,550
Ill.:	76,446	1,364	681	48	64,684	4,117
O	13,283	234	156	8	10,269	557
P	19,442	352	86	5	19,677	1,669
Q	25,096	429	282	28	16,936	795
R	18,625	349	157	6	17,802	1,086
Mich.:	34,546	622	1,719	70	25,221	1,534
S	10,843	186	987	34	9,213	784
T	17,852	308	549	28	11,754	542
U	5,851	128	183	8	4,254	307
Ind.:	53,806	876	428	29	47,295	2,558
V	38,642	610	288	26	32,033	1,496
W	15,164	266	140	3	15,262	1,062
Ohio:	53,316	827	723	16	44,732	2,634
X	31,443	443	214	6	22,472	924
Y	15,265	254	371	8	15,166	973
Z	6,608	130	138	2	7,094	737
Region	516,805	9,778	6,458	468	480,648	38,809

1/ Less than 500 acres.

Appendix table 4--Artificial drainage: Land use data for commercial (class 1-5) farms, North Central region, 1969

Area	Farms with artificial drainage						:Farms reporting both irrigation and drainage	
	Farms		Land in farms		Drained land		Farms	Land in
	Total	Proportion	Area	Average	Area	Average	Farms	farms
	Number	Percent	1,000 acres	Acres	1,000 acres	Acres	Number	1,000 acres
Minn.:	37,862	43	12,562	332	6,005	159	125	57
A	3,536	41	2,392	676	1,502	425	12	7
B	3,637	20	1,220	335	304	84	39	18
C	30,689	49	8,950	292	4,199	137	74	31
Iowa:	41,289	33	12,055	292	6,873	166	92	49
D	6,504	23	2,097	322	848	130	48	39
E	23,979	43	6,880	287	4,665	195	32	6
F	7,990	37	2,110	264	1,028	129	8	3
G	2,816	16	968	344	331	118	4	1/
Mo.:	8,081	9	3,551	439	1,802	223	598	347
H	1,897	15	839	442	340	179	16	9
I	2,030	8	978	482	329	162	7	3
J	1,487	4	597	402	192	129	29	14
K	2,667	43	1,137	426	941	353	546	321
Wis.:	12,945	17	3,053	236	869	67	311	173
M	1,559	6	460	287	68	43	22	12
N	11,346	22	2,594	229	801	71	289	161
Ill.:	33,048	33	11,044	334	7,691	233	269	116
O	5,929	36	1,747	295	1,035	175	65	22
P	6,815	27	2,394	351	1,404	206	42	18
Q	17,024	51	5,606	329	4,592	270	127	58
R	3,280	13	1,289	396	661	202	35	18
Mich.:	18,217	41	4,165	229	2,232	123	755	174
S	3,915	27	889	227	280	71	402	81
T	11,669	52	2,609	224	1,621	139	302	78
U	2,663	37	667	253	332	126	51	15
Ind.:	32,974	49	8,596	261	5,967	181	158	82
V	28,500	60	7,234	254	5,391	189	130	71
W	4,474	23	1,362	304	576	129	28	11
Ohio:	30,879	47	7,078	229	4,723	153	316	56
X	22,301	57	5,180	232	3,917	176	116	26
Y	7,320	39	1,538	210	694	95	182	23
Z	1,258	15	360	286	110	88	18	7
Region	215,295	33	62,106	288	36,162	168	2,624	1,054

1/ Less than 500 acres.

Appendix table 5--Irrigation: Land use data for commercial (class 1-5) farms, North Central region, 1969

Area	Farms with some irrigation in the last 5 years				Farms irrigated in 1969			
	Proportion:		Land in farms	Cropland in farms	Proportion:		Land in farms	
	Farms	of all farms			Farms	of all farms	Total	Average
	Number	Percent	-- 1,000 acres --		Number	Percent	1,000 acres	Acres
Minn.:	597	1	230	180	447	1	173	388
A	33	1/	32	28	22	1/	22	992
B	216	1/	84	56	178	1/	72	402
C	348	1	114	96	247	1/	80	324
Iowa:	429	1/	175	153	212	1/	87	411
D	189	1/	112	110	100	1/	66	660
E	160	1/	41	35	87	1/	15	177
F	46	1/	12	10	17	1/	5	267
G	34	1/	9	7	8	1/	1	149
Mo.:	1,508	2	768	653	1,214	1	617	508
H	96	1	42	33	47	1/	12	246
I	85	1/	32	23	39	1/	11	280
J	412	1/	181	109	283	1	118	417
K	915	15	514	489	845	14	476	564
Wis.:	1,161	2	494	281	1,034	1	464	449
M	194	1	71	42	152	1	63	413
N	967	2	423	240	882	2	401	455
Ill.:	876	1	298	255	681	1	232	340
O	210	1	50	42	156	1	34	218
P	131	1	51	42	86	1/	32	367
Q	319	1	126	110	282	1/	113	402
R	216	1	73	61	157	1	53	336
Mich.:	2,059	5	434	313	1,719	4	365	212
S	1,164	8	224	149	987	7	193	196
T	680	3	158	124	549	2	130	237
U	215	3	52	41	183	3	42	229
Ind.:	640	1	208	161	428	1	151	353
V	416	1	151	125	288	1	115	399
W	224	1	57	36	140	1	36	258
Ohio:	929	1	140	104	723	1	95	131
X	305	1	63	53	214	1	39	182
Y	451	2	53	37	371	2	39	104
Z	173	2	24	14	138	2	17	127
Region	8,199	1	2,747	2,102	6,458	1	2,184	338

Continued

Appendix table 5--Irrigation: Land use data for commercial (class 1-5) farms, North Central region, 1969--continued

Area	Farms irrigated in 1969				
	Cropland	Harvested	Irrigated land	Water	
	:cropland	:cropland	: Total	:Average:	used
	--- 1,000 acres ---		Acres	Acres	Acres
Minn.:	134	99	33	74	18,634
A	19	13	1	55	781
B	49	33	15	85	8,306
C	67	52	17	68	9,547
Iowa:	78	57	19	91	10,558
D	60	44	16	155	8,158
E	13	10	3	37	2,163
F	4	2	2/	19	194
G	1	1	2/	20	43
Mo.:	549	451	153	126	110,569
H	10	7	3	64	2,422
I	8	4	2	40	1,865
J	77	52	16	56	11,451
K	454	389	133	157	94,831
Wis.:	259	201	100	97	61,723
M	36	26	10	67	6,188
N	223	175	90	102	55,535
Ill.:	200	158	47.6	70	26,267
O	29	24	8.1	52	4,896
P	26	19	5.1	59	2,630
Q	99	80	28.2	100	14,910
R	45	36	6.2	40	3,831
Mich.:	262	183	70	40	41,111
S	128	87	34	34	20,301
T	101	74	28	51	16,782
U	34	23	8	43	4,028
Ind.:	119	89	29	67	14,027
V	96	73	26	89	12,613
W	23	16	3	21	1,414
Ohio:	71	49	16	23	9,478
X	33	24	6	27	2,609
Y	27	19	8	22	5,659
Z	11	6	2	17	1,210
Region	1,673	1,288	468	72	292,367

Continued

Appendix table 5--Irrigation: Land use data for commercial (class 1-5) farms, North Central region, 1969--continued

Area	Farms irrigated in 1969					
	Cropland		Cropland harvested		Cropland pasture	
	Farms:	Area	Farms:	Area	Farms:	Area
	Number	1,000 acres	Number	1,000 acres	Number	1,000 acres
Minn.:	446	33.1	439	32.4	21	476
A	22	1.2	20	1.1	4	122
B	177	15.2	174	15.0	9	84
C	247	17.0	245	16.4	8	270
Iowa:	212	19.2	206	18.7	9	416
D	100	15.5	97	15.1	5	303
E	87	3.2	84	3.1	4	113
F	17	0.3	17	0.3	0	0
G	8	0.2	8	0.2	0	0
Mo.:	1,212	153.0	1,187	150.2	58	1,881
H	47	3.0	43	3.0	4	45
I	39	2.0	39	2.0	0	0
J	282	15.8	267	15.0	28	552
K	844	132.4	838	131.0	26	1,314
Wis.:	1,033	100.3	1,007	97.2	35	560
M	151	10.2	144	10.0	10	139
N	882	90.1	863	87.2	25	421
Ill.:	680	47.4	634	45.0	45	1,253
O	155	7.9	145	7.2	7	354
P	86	5.1	78	4.9	8	254
Q	282	28.2	265	27.1	18	309
R	157	6.2	146	5.8	12	336
Mich.:	1,719	70.0	1,693	66.3	16	398
S	987	34.0	978	32.0	4	31
T	549	28.2	534	27.0	10	325
U	183	8.0	181	8.0	2	42
Ind.:	428	28.8	417	28.0	10	113
V	288	25.8	280	25.1	6	40
W	140	3.0	137	2.8	4	73
Ohio:	723	16.6	717	16.2	9	475
X	214	6.0	211	6.0	3	230
Y	371	8.3	369	8.0	3	183
Z	138	2.3	137	2.2	3	62
Region	6,453	467.3	6,300	453.6	203	5,572

1/Less than 0.5 percent.

2/Less than 500 acres.

Appendix table 6--Counties by production areas, North Central region

North Central

Area A - Minn.

Clay  
Kittson  
Marshall  
Norman  
Pennington  
West Polk  
Red Lake  
Roseau  
Wikin  
East Polk

Area B - Minn.

Aitkin  
Becker  
Beltrami  
Benton  
Carlton  
Cass  
Chisago  
Clearwater  
Cook  
Crow Wing  
Douglas  
Hubbard  
Isanti  
Itasca  
Kanabec  
Koochiching  
Lake  
Lake of the Woods  
Mahnommen  
Mille Lacs  
Morrison  
West Utter Tail  
Pine  
South St. Louis  
Sherburne  
Todd  
Wadena  
East Utter Tail  
North St. Louis

Area C - Minn.

Anoka  
Big Stone  
Blue Earth  
Brown  
Carver  
Chippewa  
Cottonwood  
Dakota  
Dodge  
Faribault  
Fillmore  
Freeborn  
Goodhue  
Grant  
Hennepin  
Houston  
Jackson  
Kandiyohi  
Lac qui Parle  
Le Sueur  
Lincoln  
Lyon  
McLeod  
Martin  
Meeker  
Mower  
Murray  
Nicollet  
Nobles  
Olmstead  
Pipestone  
Pope  
Ramsey  
Redwood  
Renville  
Rice  
Rock  
Scott  
Sibley  
Stearns  
Steele  
Stevens  
Swift  
Traverse  
Wabasha  
Waseca

Area C - Minn. --Cont.

Washington  
Watonwan  
Winona  
Wright  
Yellow Medicine

Area D - Iowa

Audubon  
Buena Vista  
Carroll  
Cass  
Cherokee  
Crawford  
Fremont  
Harrison  
Ida  
Lyon  
Mills  
Monona  
Montgomery  
O'Brien  
Page  
Plymouth  
W. Pottawattamie  
Sac  
Shelby  
Sioux  
Woodbury  
E. Pottawattamie

Area E - Iowa

Benton  
Boone  
Calhoun  
Cedar  
Clay  
Clinton  
Dallas  
Des Moines  
Dickinson  
Dubuque  
Emmet  
Franklin  
Greene

Appendix table 6--Counties by production areas, North Central region--Continued

North Central

Area E - Iowa--Cont.

Grundy  
Hamilton  
Hancock  
Hardin  
Henry  
Humboldt  
Iowa  
Jackson  
Jasper  
Johnson  
Jones  
Keokuk  
Kossuth  
Lee  
Linn  
Louisa  
Mahaska  
Marshall  
Muscatine  
Osceola  
Pala Alto  
Pocahontas.  
Polk  
Poweshiek  
Scott  
Story  
Tama  
Washington  
Webster  
Wright

Area F - Iowa

Allemakee  
Black Hawk  
Bremer  
Buchanan  
Butler  
Cerro Gordo  
Chickasaw  
Clayton  
Delaware  
Fayette  
Floyd  
Howard

Area F - Iowa--Cont.

Mitchell  
Winneshiek  
Worth

Area G - Iowa

Adair  
Adams  
Appanoose  
Clarke  
Davis  
Decatur  
Guthrie  
Jefferson  
Lucas  
Madison  
Marion  
Monroe  
Ringgold  
Taylor  
Union  
Van Buren  
Wapello  
Warren  
Wayne

Area H - Mo.

Buchanan  
Carroll  
Clay  
Clinton  
Holt  
Jackson  
Lafayette  
Nodaway  
Andrew  
Atchison  
Platte  
Ray  
Saline

Area I - Mo.

Adair  
Audrain  
Boone  
Caldwell  
Callaway  
Chariton  
Clark  
Daviness  
De Kalb  
Gentry  
Grundy  
Harrison  
Howard  
Knox  
Lewis  
Lincoln  
Linn  
Livingston  
Macon  
Marion  
Mercer  
Monroe  
Montgomery  
Pike  
Putnam  
Ralls  
Randolph  
Schuyler  
Scotland  
Shelby  
Sullivan  
Worth

Area J - Mo.

Barry  
Barton  
Bates  
Benton  
Bollinger  
Camden  
Cape Girardeau  
Carter

Appendix table 6--Counties by production areas, North Central region--Continued

North Central

Area J - Mo.--Cont.

Cass  
Cedar  
Christian  
Cole  
Cooper  
Crawford  
Dade  
Dallas  
Dent  
Douglas  
Franklin  
Gasconada  
Greene  
Henry  
Hickory  
Howell  
Iron  
Jasper  
Jefferson  
Johnson  
Laclede  
Lawrence  
McDonald  
Madison  
Maries  
Miller  
Moniteau  
Morgan  
Newton  
Oregon  
Osage  
Ozark  
Perry  
Pettis  
Phelps  
Polk  
Pulaski  
Reynolds  
Ripley  
St. Charles  
St. Clair  
St. Francois  
St. Lewis  
Ste. Genevieve  
Shannon

Area J - Mo.--Cont.

Stone  
Taney  
Texas  
Vernon  
Warren  
Washington  
Wayne  
Webster  
Wright

Area K - Mo.

Butler  
Dunklin  
Mississippi  
New Madrid  
Pemiscot  
Scott  
Stoddard

Area N - Wis.

Ashland  
Bayfield  
Burnett  
Douglas  
Florence  
Forest  
Iron  
Langlade  
Lincoln  
Oneida  
Price  
Rusk  
Sawyer  
Vilas  
Washburr  
Adams  
Brown  
Calumet  
Chippewa  
Clark  
Columbia  
Dane  
Dodge

Area N - Wis.--Cont.

Door  
Eau Claire  
Fond du Lac  
Green Lake  
Jackson  
Jefferson  
Juneau  
Kenosha  
Manitowoc  
Marathon  
Marquette  
Milwaukee  
Menominee  
Oconto  
Outagamie  
Ozaukee  
Portage  
Racine  
Rock  
Shawano  
Sheboygan  
Taylor  
Walworth  
Washington  
Waukesha  
Waupaca  
Waushara  
Winnebago  
Wood

Area M - Wis.

Crawford  
Dunn  
Grant  
Green  
Iowa  
La Crosse  
Lafayette  
Monroe  
Pepin  
Pierce  
Polk  
Richland



Appendix table 6--Counties by production areas, North Central region--Continued

North Central

Area M - Wis.--Cont.

St. Croix  
Sauk  
Trempealeau  
Vernon  
Barron  
Buffalo

Area O - Ill.

Boone  
Carroll  
Cook  
De Kalb  
Du Page  
Jo Daviess  
Kane  
Lake  
Lee  
McHenry  
Ogle  
Stephenson  
Whiteside  
Will  
Winnebago

Area P - Ill.

Adams  
Brown  
Bureau  
Calhoun  
Fulton  
Greene  
Hancock  
Henderson  
Henry  
Jersey  
Knox  
McDonough  
Macoupin  
Marshall  
Mercer  
Montgomery  
Morgan  
Pike

Area P - Ill.--Cont.

Putnam  
Rock Island  
Schuyler  
Scott  
Stark  
Warren

Area Q - Ill.

Cass  
Champaign  
Christian  
Coles  
De Witt  
Douglas  
Edgar  
Ford  
Grundy  
Iroquois  
Kankakee  
Kendall  
La Salle  
Livingston  
Logan  
McLean  
Macon  
Mason  
Menard  
Moultrie  
Peoria  
Piatt  
Sangamon  
Shelby  
Tazewell  
Vermilion  
Woodford

Area R - Ill.

Alexander  
Bond  
Clark  
Clay  
Clinton  
Crawford

Area R - Ill.--Cont.

Cumberland  
Edwards  
Effingham  
Fayette  
Franklin  
Gallatin  
Hamilton  
Hardin  
Jackson  
Jasper  
Jefferson  
Johnson  
Lawrence  
Madison  
Marion  
Massac  
Monroe  
Perry  
Pope  
Pulaski  
Randolph  
Richland  
St. Clair  
Saline  
Union  
Wabash  
Washington  
Wayne  
White  
Williamson

Area S - Mich.

Alcona  
Alger  
Allegan  
Alpena  
Antrim  
Arenac  
Baraga  
Benzie  
Berrien  
Charlevoix  
Cheboygan  
Chippewa

Appendix table 6--Counties by production areas, North Central region--Continued

North Central

Area S - Mich.--Cont.

Clare  
Crawford  
Delta  
Dickinson  
Emmet  
Gladwin  
Gogebic  
Grand Traverse  
Houghton  
Iosco  
Iron  
Kalkaska  
Kent  
Keweenaw  
Lake  
Leelanau  
Luce  
West Mackinac  
Manistee  
Marquette  
Mason  
Mecosta  
Menominee  
Missaukee  
Montmorency  
Muskegon  
Newaygo  
Oceana  
Ogemaw  
Ontonagon  
Osceola  
Oscoda  
Otsego  
Ottawa  
Presque Isle  
Roscommon  
Schoolcraft  
Van Buren  
Wexford  
East Mackinac

Area T - Mich.

Washtenaw  
Wayne  
Bay

Area T-Mich.--Cont. Area V - Ind.--Cont.

Clinton  
Eaton  
Genesee  
Gratiot  
Huron  
Ingham  
Ionia  
Isabella  
Jackson  
Lapeer  
Livingston  
Macomb  
Midland  
Monroe  
Montcalm  
Oakland  
Saginaw  
St. Clair  
Sanilac  
Shiawassee  
Tuscola

Area U - Mich.

Barry  
Branch  
Calhoun  
Cass  
Hillsdale  
Kalamazoo  
Lenawee  
St. Joseph

Area V - Ind.

Adams  
Allen  
Bartholomew  
Benton  
Blackford  
Boone  
Carroll  
Cass  
Clinton  
Decatur  
De Kalb

Delaware  
Elkhart  
Fayette  
Fountain  
Fulton  
Grant  
Hamilton  
Hancock  
Hendricks  
Henry  
Howard  
Huntington  
Jasper  
Jay  
Johnson  
Kosciusko  
Lagrange  
Lake  
La Porte  
Madison  
Marion  
Marshall  
Miami  
Montgomery  
Newton  
Noble  
Parke  
Porter  
Pulaski  
Putnam  
Randolph  
Rush  
St. Joseph  
Shelby  
Starke  
Steuben  
Tippecanoe  
Tipton  
Union  
Vermillion  
Wabash  
Warren  
Wayne  
Wells  
White  
Whitley

Appendix table 6--Counties by production areas, North Central region--Continued

North Central

Area W - Ind.

Brown  
 Clark  
 Clay  
 Crawford  
 Daviess  
 Dearborn  
 Dubois  
 Floyd  
 Franklin  
 Gibson  
 Greene  
 Harrison  
 Jackson  
 Jefferson  
 Jennings  
 Knox  
 Lawrence  
 Martin  
 Monroe  
 Morgan  
 Ohio  
 Orange  
 Owen  
 Perry  
 Pike  
 Posey  
 Ripley  
 Scott  
 Spencer  
 Sullivan  
 Switzerland  
 Vanderburgh  
 Vigo  
 Warrick  
 Washington

Area X - Ohio

Allen  
 Auglaize  
 Butler  
 Champaign  
 Clark  
 Clinton  
 Crawford

Area X-Ohio--Cont.

Darke  
 Defiance  
 Delaware  
 Fayette  
 Franklin  
 Fulton  
 Greene  
 Hancock  
 Hardin  
 Henry  
 Logan  
 Lucas  
 Madison  
 Marion  
 Mercer  
 Miami  
 Montgomery  
 Ottawa  
 Paulding  
 Pickaway  
 Preble  
 Putnam  
 Sandusky  
 Seneca  
 Shelby  
 Union  
 Van Wert  
 Warren  
 Williams  
 Wood  
 Wyandot

Area Y - Ohio

Ashland  
 Ashtabula  
 Belmont  
 Carroll  
 Columbiana  
 Coshocton  
 Cuyahoga  
 Erie  
 Fairfield  
 Gauga  
 Guernsey

Area Y - Ohio--Cont.

Harrison  
 Holmes  
 Huron  
 Jefferson  
 Knox  
 Lake  
 Licking  
 Lorain  
 Mahoning  
 Medina  
 Morrow  
 Muskingum  
 Perry  
 Portage  
 Richland  
 Stark  
 Summit  
 Trumbull  
 Tuscarawas  
 Wayne

Area Z - Ohio

Adams  
 Athens  
 Brown  
 Clermont  
 Gallia  
 Hamilton  
 Highland  
 Hocking  
 Jackson  
 Lawrence  
 Meigs  
 Monroe  
 Morgan  
 Noble  
 Pike  
 Ross  
 Scioto  
 Vinton  
 Washington

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