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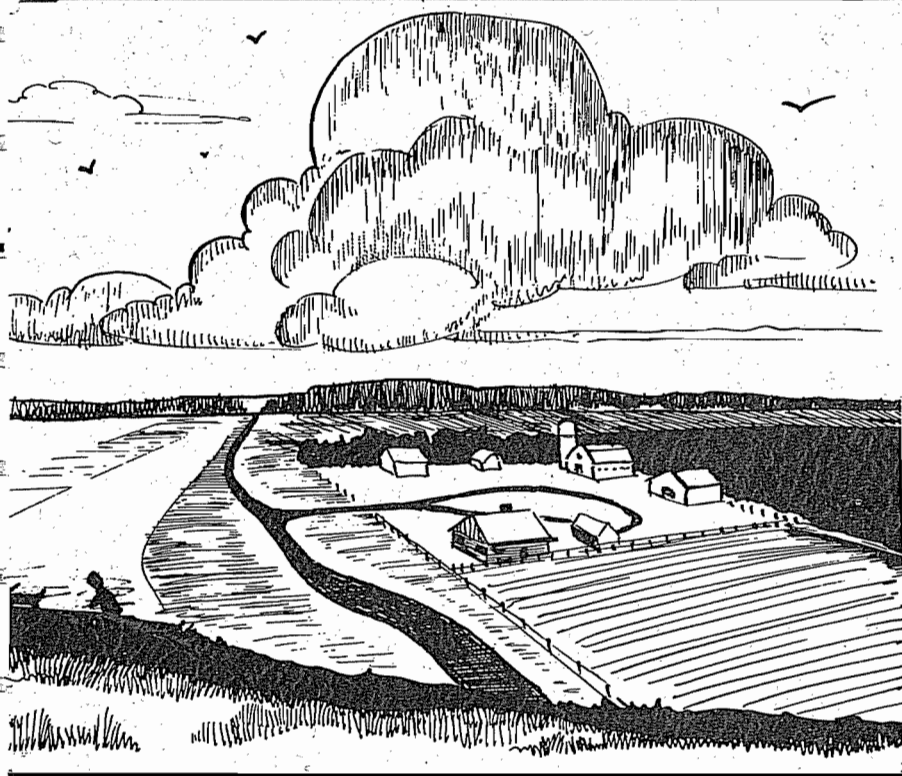
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by
Ronald D. Krenz

Selected Characteristics Of North Dakota Farms

(Supplement to Agr. Econ. Report No. 23)

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Selected Characteristics of North Dakota Farms

by

Ronald D. Krenz 1/

Introduction

This report supplements an earlier report entitled "Farm Characteristics For North Dakota by Economic Areas." 2/ The earlier report was based on data obtained in 1960 and 1961 from Agricultural Stabilization and Conservation Service (ASCS) records on 3,580 farms in 32 counties in North Dakota. In 1963, the following additional data were obtained for this same sample of farms:

1. Acreage of feed grains
 - a. 1959-60 average acreage of barley
 - b. 1959-60 average acreage of corn
2. Normal conserving acreage
 - a. 1959-60 average acreage of hay and pasture on cropland
 - b. 1959-60 average acreage of summerfallow

This additional information allows the estimation of feed-grain base acreages and normal-conserving base acreages for farms in each area. These items are important aspects of both present and future wheat and feed grain programs.

These data are reported herein for farms cross-classified by acreage of cropland and noncropland in each of several areas of the State. This report presents selected characteristics of the average farm in each group. This classification should better describe North Dakota farms and should be useful in continuing farm economic research.

1/ Agricultural Economist, Farm Production Economics Division, Economic Research Service, U. S. Department of Agriculture, stationed at North Dakota Agricultural Experiment Station, Fargo, N. Dak.

2/ Ullrich, E. O., Jr., and Loftsgard, L. D., Agr. Econ. Rpt. No. 23, North Dakota State University, Fargo, June 1962.

Areas of the State

The previous report presented characteristics of farms classified by size of farm and acreage of cropland within each of the 7 economic areas of the state. In this report, the state is divided into 10 soil-climatic areas whose boundaries do not necessarily follow county lines. Data on farm characteristics are presented for 9 of the 10 areas. Following is a list of the areas and their general location:

- Area A -- South and west of the Missouri River
- Area B -- Northwest
- Area C -- South-central
- Area D -- North-central plains
- Area E -- East-central plains
- Area F -- Southeastern plains
- Area G -- Lighter soils in the northern Red River Valley
- Area H -- Heavier soils in Red River Valley
- Area I -- Lighter soils in southern Red River Valley
- Area J -- Sand hills along the Sheyenne River

Only 6 sample farms were located in the sand hills area (Area J), and hence no description of farms is presented for that area. The various areas and the number of sample farms in each area are shown in Figure 1.

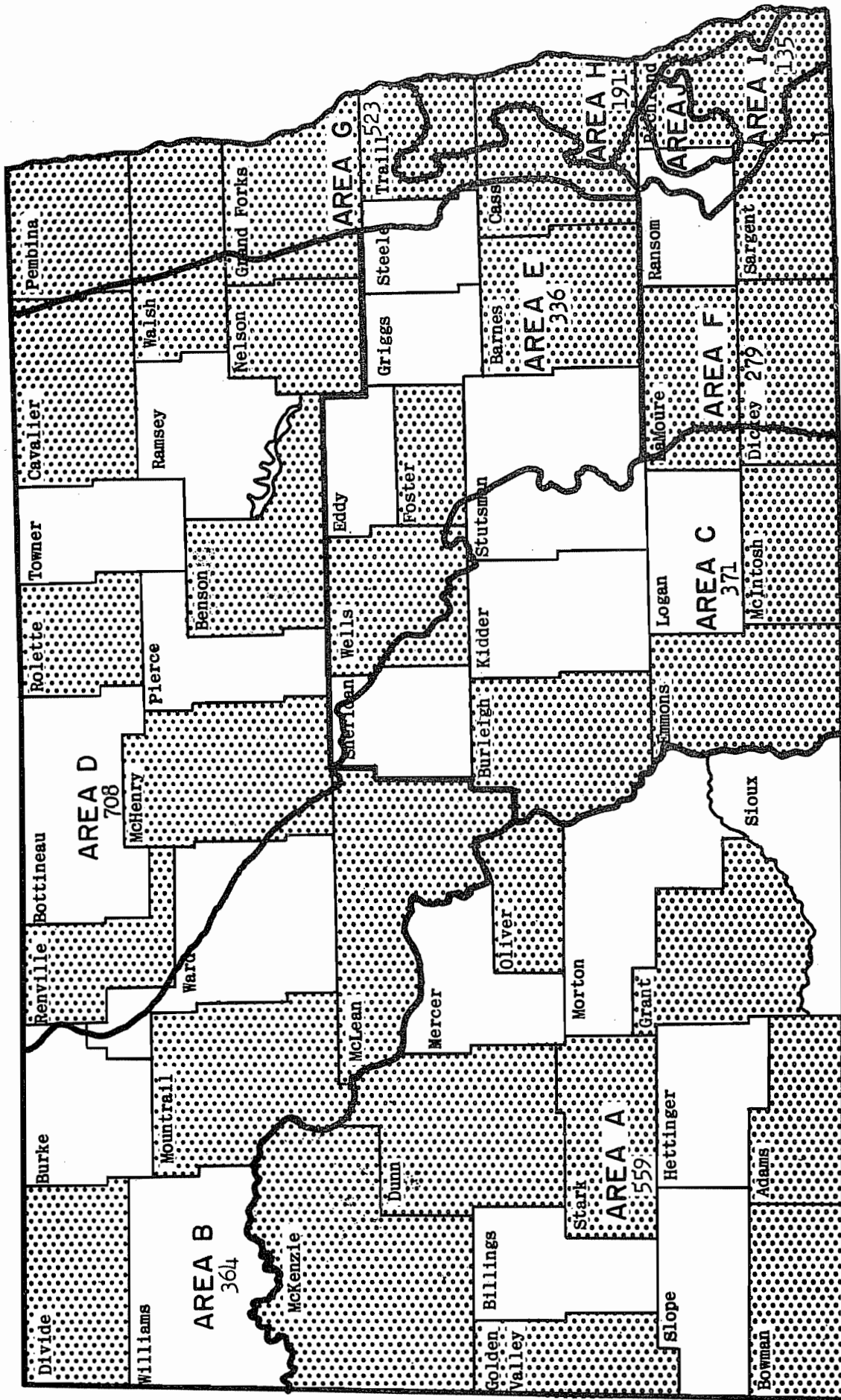


Figure 1. - Location of areas and number of sample farms in each area

Areas are bounded by heavy lines
 Sample counties are crosshatched

Classification of Farms

Selected characteristics of the average farm in each area are given in Table 1. The characteristics of the average farm in each area are ranked by areas in Table 2.

In each area, the sample farms are cross-classified into groups on the basis of the acreage of cropland and noncropland. This procedure results in 5 to 12 groups of farm types in each area. However a significant amount of variation still is found within each of the groups. The variation in acreage of cropland and noncropland on farms is the rule rather than the exception throughout the state. However, this classification provides a better description of farms in North Dakota than does a state or area average.

The estimates presented in tables 3 to 11 are averages of these groups. The range in amount of cropland and noncropland of the sample farms in each group is given in the table headings. These groupings are not the same in all areas since they are made on the basis of the actual distribution of the sample farms in each area.

In each area, a small number of sample farms are not included in any cropland group because they are unlike farms in any group shown. Most of these other farms are the very small and the very large farms. All farms are included in determining the area average.

Also included are estimates of the actual number of farms in each category in 1960. The number of farms reported in the 1959 Census of Agriculture by counties and by acreage of cropland was used as the basis for these estimates.

Table 1. -- Number, average size, and other characteristics of sample farms by areas

Item	Unit	Area									
		A	B	C	D	E	F	G	H	I	
Sample farms-----	Number	559	364	371	708	336	279	523	191	135	
Estimated number of farms in area-1960-----	Number	9,500	7,030	6,500	11,400	6,540	3,275	5,300	1,900	1,300	
Average size of farm-----	Acre	1,116	890	829	713	670	594	510	498	458	
Cropland-----	Acre	515	598	427	546	525	430	445	451	367	
Proportion of farmland: Percent		(46.1)	(67.2)	(51.5)	(76.6)	(78.4)	(72.4)	(87.3)	(90.6)	(80.1)	
Wheat Allotment-----	Acre	167	192	115	153	128	81	103	81	41	
Proportion of cropland: Percent		(32.4)	(32.1)	(26.9)	(28.0)	(24.4)	(18.8)	(23.1)	(18.0)	(11.2)	
Feed-Grain Base-----	Acre	96	104	87	141	146	116	137	128	117	
Proportion of cropland: Percent		(18.6)	(17.4)	(20.4)	(25.8)	(27.8)	(27.0)	(30.8)	(28.4)	(31.9)	
Normal-Conserving Base-----	Acre	170	212	73	157	130	69	87	74	43	
Proportion of cropland: Percent		(33.0)	(35.5)	(17.1)	(28.8)	(24.8)	(16.1)	(19.5)	(16.4)	(11.7)	
All Other Crops-----	Acre	82	90	152	95	121	164	118	168	166	
Proportion of cropland: Percent		(16.0)	(15.0)	(35.6)	(17.4)	(23.0)	(38.1)	(26.6)	(37.2)	(45.2)	

Table 2. -- Summary of characteristics of sample farms by area

Characteristics	Area ranking (highest listed first)
Average size of farm-----	A, B, C, D, E, F, G, H, I
Cropland as percentage of farmland-----	H, G, I, E, D, F, B, C, A
Acreage of cropland per farm-----	B, D, E, A, H, G, F, C, I
Acreage of wheat allotment per farm-----	B, A, D, E, C, G, H, F, I
Wheat allotment as percentage of cropland-----	A, B, D, C, E, G, F, H, I
Feed-grain base acreage per farm-----	E, D, G, H, I, F, B, A, C
Feed-grain base acreage as percentage of cropland-----	I, G, H, E, F, D, C, A, B
Normal-conserving base acreage per farm-----	B, A, D, E, G, H, C, F, I
Normal-conserving base acreage as percentage of cropland-----	B, A, D, E, G, C, H, F, I

Summary of Farm Characteristics

Based on area averages, the largest farms in North Dakota are south and west of the Missouri River (Area A). Farms in this area also have the largest percentage of noncropland, 53.9 percent.

Farms with the largest acreages of cropland, wheat allotments and normal-conserving base acreages, are found in the northwest (Area B). Many farmers in Area B follow a wheat-fallow rotation on most of their cropland acreages. On an average basis, in North Dakota, wheat allotments as a percentage of cropland are highest in the west and north, decreasing to the east and south.

The farms in south-central North Dakota (Area C) have small acreages of cropland (second lowest in the state) and a high percentage of noncropland (second highest in the state).

The smallest average size of farm is in the southern Red River Valley (Area I). Farms in this area also have the smallest acreage of cropland. Wheat allotments and normal-conserving base acreages as a percentage of cropland are the lowest in the state. Farms in this area have the largest corn allotments.

In the northern counties, the bulk of the feed-grain base acreages is planted to barley while in the southern counties, especially in the southeast, more acreage is devoted to corn.

The farms with the largest percentages of cropland are in the heavier soil areas of the Red River Valley (Area H). These farms also have the largest acreages included in the "all other crops" item, such as sugarbeets, potatoes, flax, soybeans and oats. Since the delineated areas do not follow county lines, the first adjustment was to divide the number of farms in a county between two or more areas. Since the census does not classify farms by acreage of noncropland, a

second adjustment was made, using the proportion of farms in the ASCS sample to obtain estimates of farms classified by noncropland. Some final adjustments were made to insure that the numbers of farms times the acreages check with the total land on farms in each area.

In tables 3 to 11, the wheat allotment estimates represent the 1959 allotments. The feed-grain base acreages are the ASCS established feed-grain bases for the years 1959 and 1960. The estimates of normal-conserving base acreages also apply to the years 1959-60 and follow the ASCS definitions of conserving acres. Hay and pasture includes only grasses and legumes and not small grains harvested for hay. The estimate for summerfallow includes some acreage designated as "idle land" on ASCS records.

Table 3. --- Selected characteristics of farms and ranches in Area A
(south and west of the Missouri river)

Item	CROPLAND ACREAGE										Remain- ing farms		
	85 to 170		171 to 300		301 to 540		541 to 1,000		1,001 and over				
	Unit	Non- cropland acres	Unit	Non- cropland acres	Unit	Non- cropland acres	Unit	Non- cropland acres	Unit	Non- cropland acres			
Estimated number of farms in area - 1960	780	520	875	580	775	325	465	1,760	240	350	480	240	9,500
Proportion of all farms in area	8.2	5.5	9.2	6.1	22.2	8.2	4.9	18.5	2.5	3.7	5.1	2.5	100.0
Average farm size	236	303	452	764	671	1,131	2,365	632	1,251	1,915	3,716	---	1,116
Noncropland	102	46	203	522	261	684	1,978	51	533	569	2,342	---	601
Average per farm	43.2	15.2	44.9	68.3	38.9	60.5	83.6	8.1	42.6	29.7	63.0	---	53.9
Proportion of farmland	134	257	249	242	410	447	387	581	718	1,346	1,374	---	515
Average per farm	56.8	84.8	55.1	31.7	61.1	39.5	16.4	91.9	57.4	70.3	37.0	---	46.1
Proportion of farmland	42	36.6	32.5	29.8	143	132	88	206	234	498	412	---	167
Wheat allotment	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	---	32.4
Average per farm	10	11	29	36	46	56	75	43	71	96	153	---	53
Proportion of cropland	15	23	23	17	37	36	27	67	60	110	106	---	43
Feed-grain base	25	34	51	53	83	92	102	110	131	206	259	---	96
Corn, average per farm	18.7	13.2	20.5	21.9	20.2	20.6	26.4	18.9	18.2	15.3	18.9	---	18.6
Barley, average per farm	14	18	27	40	43	71	89	32	75	80	239	---	63
Total, average per farm	26	70	40	21	79	78	31	162	171	436	270	---	107
Normal-conserving base	40	88	67	61	122	149	120	194	246	516	509	---	170
Hay & pasture, average per farm	29.9	34.2	26.9	25.2	29.8	33.3	31.0	33.4	34.3	38.3	37.0	---	33.0
Summer fallow, average per farm	27	41	50	56	62	74	77	71	107	126	194	---	82
Total, average per farm	20.1	16.0	20.1	23.1	15.1	16.6	19.9	12.2	14.9	9.4	14.1	---	16.0
Proportion of cropland	20.1	16.0	20.1	23.1	15.1	16.6	19.9	12.2	14.9	9.4	14.1	---	16.0

Table 4. -- Selected characteristics of farms in Area B (northwest)

Item	Unit	CROPLAND ACREAGE										Remain- ing farms
		90 to 300		301 to 400		541 to 840		841 to 2,700				
		Non- cropland acres	cropland acres	Non- cropland acres	cropland acres	Non- cropland acres	cropland acres	Non- cropland acres	cropland acres	Non- cropland acres	cropland acres	
Estimated number of farms in area - 1960	Number	620	695	190	560	1,640	525	1,120	1,110	290	280	7,030
Proportion of all farms in area	Percent	8.8	9.9	2.7	8.0	23.3	7.5	15.9	15.8	4.1	4.0	100.0
Average farm size	Acre	236	450	1,342	464	655	711	1,076	1,432	2,234	---	890
Noncropland												
Average per farm	Acre	43	243	1,039	53	245	72	390	248	837	---	292
Proportion of farmland	Percent	18.2	54.0	77.4	11.4	37.4	10.1	36.2	17.3	37.5	---	32.8
Cropland												
Average per farm	Acre	193	207	303	411	410	639	686	1,184	1,397	---	598
Proportion of farmland	Percent	81.8	46.0	22.6	88.6	62.6	89.9	63.8	82.7	62.5	---	67.2
Wheat allotment												
Average per farm	Acre	65	62	85	135	128	219	221	360	441	---	192
Proportion of cropland	Percent	33.7	30.0	28.1	32.8	31.2	34.3	32.2	30.4	31.6	---	32.1
Feed-grain base												
Corn, average per farm	Acre	1	6	3	6	16	7	20	24	46	---	15
Barley, average per farm	Acre	34	26	31	62	59	93	104	184	183	---	89
Total, average per farm	Acre	35	32	34	68	75	100	124	208	229	---	104
Proportion of cropland	Percent	18.1	15.4	11.2	16.5	18.3	15.6	18.1	17.6	16.4	---	17.4
Normal-conserving base												
Hay & pasture, average per farm	Acre	3	9	21	11	25	20	24	40	85	---	23
Summer fallow, average per farm	Acre	56	59	95	109	108	219	229	414	370	---	189
Total, average per farm	Acre	59	68	116	120	133	239	253	454	455	---	212
Proportion of cropland	Percent	30.6	32.9	38.2	29.2	32.4	37.4	36.9	38.3	32.6	---	35.5
All other crops												
Average per farm	Acre	34	45	68	88	74	81	88	162	272	---	90
Proportion of cropland	Percent	17.6	21.7	22.5	21.5	18.1	12.7	12.8	13.7	19.4	---	15.0

Table 5. -- Selected characteristics of farms in Area C
(south-central)

Item	Unit	CROPLAND ACREAGE										Remain- ing Farms
		85 to 200		201 to 420		421 to 700		701 to 1,050		1,051 to 3,810		
		Noncropland acres	Noncropland acres	Noncropland acres	Noncropland acres	Noncropland acres	Noncropland acres	Noncropland acres	Noncropland acres	Noncropland acres	Noncropland acres	
Estimated number of farms in area - 1960	Number	270	185	575	1,415	1,375	1,270	340	555	225	290	6,500
Proportion of all farms in area	Percent	4.2	2.8	8.8	21.8	21.2	19.5	5.2	8.5	3.5	4.5	100.0
Average farm size	Acre	205	634	346	516	733	846	1,477	1,415	3,133	—	829
Noncropland												
Average per farm	Acre	74	497	59	210	418	306	921	547	1,565	—	402
Proportion of farmland	Percent	36.1	78.4	17.1	40.7	57.0	36.2	62.4	38.7	50.0	—	48.5
Cropland												
Average per farm	Acre	131	137	287	306	315	540	556	868	1,568	—	427
Proportion of farmland	Percent	63.9	21.6	82.9	59.3	43.0	63.8	37.6	61.3	50.0	—	51.5
Wheat allotment												
Average per farm	Acre	34	25	77	89	92	155	120	250	287	—	115
Proportion of cropland	Percent	26.0	18.2	26.8	29.1	29.2	28.7	21.6	28.8	18.3	—	26.9
Feed-grain base												
Corn, average per farm	Acre	8	9	10	23	37	51	74	64	143	—	39
Barley, average per farm	Acre	13	15	42	27	26	62	58	106	200	—	48
Total, average per farm	Acre	21	24	52	50	63	113	132	170	343	—	87
Proportion of cropland	Percent	16.0	17.5	18.1	16.3	20.0	20.9	23.7	19.6	21.9	—	20.4
Normal-conserving base												
Hay & pasture, average per farm	Acre	16	26	16	35	35	43	86	80	190	—	46
Summer fallow, average per farm	Acre	7	4	22	17	9	37	17	75	147	—	27
Total, average per farm	Acre	23	30	38	52	44	80	103	155	337	—	73
Proportion of cropland	Percent	17.6	21.9	13.2	17.0	14.0	14.8	18.5	17.9	21.5	—	17.1
All other crops												
Average per farm	Acre	53	58	120	115	116	192	201	293	601	—	152
Proportion of cropland	Percent	40.4	42.4	41.9	37.6	36.8	35.6	36.2	33.7	38.3	—	35.6

Table 6. -- Selected characteristics of farms in Area D
(north-central plains)

Item	CROPLAND ACREAGE										Remain- ing Farms	
	100 to 300		301 to 550		551 to 850		851 to 2,500		2,500+			
	Noncropland acres	Percent	Noncropland acres	Percent	Noncropland acres	Percent	Noncropland acres	Percent	Noncropland acres	Percent		
Estimated number of farms in area - 1960.	2,190	510	2,655	1,060	155	1,650	1,080	635	1,070	145	250	11,400
Proportion of all farms in area	19.2	4.4	23.3	9.3	1.3	14.5	9.5	5.6	9.4	1.3	2.2	100.0
Average farm size	271	449	533	629	877	751	944	1,174	1,447	2,085	—	713
Noncropland												
Average per farm.	55	256	76	204	472	86	268	94	288	749	—	167
Proportion of farmland.	20.3	57.0	14.3	32.4	53.8	11.5	28.4	8.0	19.9	35.9	—	23.4
Cropland												
Average per farm.	216	193	457	425	405	665	676	1,080	1,159	1,336	—	546
Proportion of farmland.	79.7	43.0	85.7	67.6	46.2	88.5	71.6	92.0	80.1	64.1	—	76.6
Wheat allotment												
Average per farm.	57	50	126	120	101	185	198	301	335	370	—	153
Proportion of cropland.	26.4	25.9	27.6	28.2	24.9	27.8	29.3	27.9	28.9	27.7	—	28.0
Feed-grain base												
Corn, average per farm.	4	5	6	13	13	10	18	16	25	35	—	11
Barley, average per farm.	57	25	121	100	75	165	152	242	273	283	—	130
Total, average per farm.	61	30	127	113	88	175	170	258	298	318	—	141
Proportion of cropland.	28.2	15.5	27.8	26.6	21.7	26.3	25.1	23.9	25.7	23.8	—	25.8
Normal-conserving base												
Hay & pasture, average per farm	11	24	19	29	42	34	39	30	49	52	—	28
Summer fallow, average per farm	48	38	102	88	84	166	147	297	289	333	—	129
Total, average per farm	59	62	121	117	126	200	186	327	338	385	—	157
Proportion of cropland.	27.3	32.1	26.5	27.5	31.1	30.1	27.5	30.3	29.2	28.8	—	28.8
All other crops												
Average per farm.	39	51	83	75	90	105	122	194	188	263	—	95
Proportion of cropland.	18.1	26.5	18.1	17.7	22.3	15.8	18.1	17.9	16.2	19.7	—	17.4

Table 7. -- Selected characteristics of farms in Area E (east-central plains)

Item	CROPLAND ACREAGE							Remaining farms			
	100 to 300		301 to 540		541 to 850		851 to 2,600				
	Noncropland acres	Cropland acres	Noncropland acres	Cropland acres	Noncropland acres	Cropland acres	Noncropland acres				
Estimated number of farms in area - 1960	Number	1,715	315	1,380	790	825	705	230	385	195	6,540
Proportion of all farms in area	Percent	26.2	4.8	21.1	12.1	12.6	10.8	3.5	5.9	3.0	100.0
Average farm size	Acre	280	438	503	653	753	940	1,258	1,490	---	670
Noncropland											
Average per farm	Acre	70	200	91	221	89	242	70	257	---	145
Proportion of farmland	Percent	25.0	45.7	18.1	33.8	11.8	25.7	5.6	17.2	---	21.6
Cropland											
Average per farm	Acre	210	238	412	432	664	698	1,188	1,233	---	525
Proportion of farmland	Percent	75.0	54.3	81.9	66.2	88.2	74.3	94.4	82.8	---	78.4
Wheat allotment											
Average per farm	Acre	50	54	97	104	160	180	273	320	---	128
Proportion of cropland	Percent	23.8	22.7	23.5	24.1	24.1	25.8	23.0	26.0	---	24.4
Feed-grain base											
Corn, average per farm	Acre	10	15	22	26	40	43	71	36	---	28
Barley, average per farm	Acre	51	46	86	86	153	146	279	246	---	118
Total, average per farm	Acre	61	61	108	112	193	189	350	282	---	146
Proportion of cropland	Percent	29.0	25.6	26.2	25.9	29.1	27.1	29.5	22.9	---	27.8
Normal-conserving base											
Hay & pasture, average per farm	Acre	17	24	28	53	48	44	45	77	---	40
Summer fallow, average per farm	Acre	28	38	70	71	105	122	201	238	---	90
Total, average per farm	Acre	45	62	98	124	153	166	246	315	---	130
Proportion of cropland	Percent	21.4	26.1	23.8	28.7	23.0	23.8	20.7	25.5	---	24.8
All other crops											
Average per farm	Acre	54	61	109	92	158	163	319	316	---	121
Proportion of cropland	Percent	25.8	25.6	26.5	21.3	23.8	23.3	26.8	25.6	---	23.0

Table 8. -- Selected characteristics of farms in Area F
(southeast plains)

Item	Unit	CROPLAND ACREAGE										Remaining Farms	All Farms		
		85 to 170		171 to 300		301 to 540		541 to 960		961 to 2,200				Non-cropland acres	Total acres
		Non-cropland acres	Cropland acres	Non-cropland acres	Cropland acres	Non-cropland acres	Cropland acres	Non-cropland acres	Cropland acres						
Estimated number of farms in area - 1960	Number	210	420	335	490	825	210	480	110	75	120	3,275			
Proportion of all farms in area	Percent	6.4	12.8	10.2	14.9	25.2	6.4	14.7	3.4	2.3	3.7	100.0			
Average farm size	Acre	164	301	376	462	597	795	912	1,153	1,787	—	594			
Noncropland															
Average per farm	Acre	37	60	171	48	162	59	222	614	460	—	164			
Proportion of farmland	Percent	22.6	19.9	45.5	10.4	30.5	7.4	24.3	53.3	25.7	—	27.5			
Cropland															
Average per farm	Acre	127	241	205	414	415	736	690	539	1,327	—	430			
Proportion of farmland	Percent	77.4	80.1	54.5	89.6	69.5	92.6	75.7	46.7	74.3	—	72.4			
Wheat allotment															
Average per farm	Acre	25	45	31	80	80	142	134	81	203	—	81			
Proportion of cropland	Percent	19.7	18.7	15.1	19.3	19.3	19.3	19.4	15.0	15.3	—	18.8			
Feed-grain base															
Corn, average per farm	Acre	14	23	32	50	54	58	88	122	226	—	55			
Barley, average per farm	Acre	10	31	22	67	59	137	95	68	192	—	61			
Total, average per farm	Acre	24	54	54	117	113	195	183	190	418	—	116			
Proportion of cropland	Percent	18.9	22.4	26.3	28.3	27.2	26.5	26.5	35.3	31.5	—	27.0			
Normal-conserving base															
Hay & pasture, average per farm	Acre	14	16	34	38	40	71	75	63	219	—	46			
Summer fallow, average per farm	Acre	5	10	7	19	24	43	42	29	70	—	23			
Total, average per farm	Acre	19	26	41	57	64	114	117	92	289	—	69			
Proportion of cropland	Percent	15.0	10.8	20.0	13.6	15.4	15.5	17.0	17.1	21.8	—	16.1			
All other crops															
Average per farm	Acre	59	116	79	160	158	285	256	176	417	—	164			
Proportion of cropland	Percent	46.4	48.1	38.6	38.6	38.1	38.7	37.1	32.6	31.4	—	38.1			

Table 9. -- Selected characteristics of farms in Area G
(lighter soils in northern Red River Valley)

Item	CROPLAND ACREAGE										Remain- ing farms									
	80 to 175		176 to 300		301 to 420		421 to 700		701 to 850			851 to 2,200								
	Non- cropland acres	Non- cropland acres	Non- cropland acres	Non- cropland acres	Non- cropland acres	Non- cropland acres	Non- cropland acres	Non- cropland acres	Non- cropland acres	Non- cropland acres		Non- cropland acres	Non- cropland acres							
Unit	770		110		810		1,135		245		265		295		205		240		5,300	
Estimated number of farms in area - 1960.	14.5		2.1		15.3		21.4		4.6		5.0		5.6		3.9		4.5		100.0	
Proportion of all farms in area	165		416		364		557		824		855		1,131		1,607		---		510	
Average farm size	25		182		21		27		59		160		41		202		---		65	
Noncropland	12.7		43.8		5.8		4.8		7.2		18.7		3.6		12.6		---		12.7	
Average per farm.	144		234		343		530		765		695		1,090		1,405		---		445.	
Proportion of farmland.	87.3		56.2		94.2		95.2		92.8		81.3		96.4		87.4		---		87.3	
Wheat allotment	34		56		83		118		161		160		258		314		---		103	
Average per farm.	23.6		23.9		24.2		22.3		21.0		23.0		23.7		22.3		---		23.1	
Proportion of cropland.	4		1		10		24		56		40		51		56		---		19	
Feed-grain base	40		57		97		137		170		160		324		435		---		118	
Corn, average per farm.	44		58		107		161		226		200		375		491		---		137	
Barley, average per farm.	30.6		24.8		31.2		30.4		29.5		28.8		34.4		34.9		---		30.8	
Total, average per farm.	7		27		18		27		43		36		19		49		---		23	
Proportion of cropland.	18		36		53		81		82		87		151		213		---		64	
Normal-conserving base	25		63		71		108		125		123		170		262		---		87	
Hay & pasture, average per farm	17.4		26.9		20.7		20.4		16.3		17.7		15.6		18.6		---		19.5	
Summer fallow, average per farm	41		57		82		143		253		212		287		338		---		118	
Total, average per farm.	28.4		24.4		23.9		26.9		33.2		30.5		26.3		24.2		---		26.6	
Proportion of cropland.	41		24.4		23.9		26.9		33.2		30.5		26.3		24.2		---		26.6	

Table 10. -- Selected characteristics of farms in Area H
(Heavier soils in Red River Valley)

Item	Unit	CROPLAND ACREAGE								Remaining farms
		80 to 300:301 to 550:551		to 840:920		to 1,400:750		to 1,400		
		Non-cropland acres	Non-cropland acres	Non-cropland acres	Non-cropland acres	Non-cropland acres	Non-cropland acres	Non-cropland acres	Non-cropland acres	
Estimated number of farms in area - 1960	Number	635	715	210	100	130	110	1,900	1,900	
Proportion of all farms in area	Percent	33.4	37.6	11.1	5.3	6.8	5.8	100.0	100.0	
Average farm size	Acre	242	446	691	1,130	1,224	---	498	498	
Noncropland										
Average per farm	Acre	27	41	40	52	160	---	47	47	
Proportion of farmland	Percent	11.2	9.2	5.8	4.6	13.1	---	9.4	9.4	
Cropland										
Average per farm	Acre	215	405	651	1,078	1,064	---	451	451	
Proportion of farmland	Percent	88.8	90.8	94.2	95.4	86.9	---	90.6	90.6	
Wheat allotment										
Average per farm	Acre	39	67	127	188	176	---	81	81	
Proportion of cropland	Percent	18.1	16.5	19.5	17.4	16.5	---	18.0	18.0	
Feed-grain base										
Corn, average per farm	Acre	13	37	26	39	87	---	29	29	
Barley, average per farm	Acre	48	82	139	272	266	---	99	99	
Total, average per farm	Acre	61	119	165	311	353	---	128	128	
Proportion of cropland	Percent	28.4	29.4	25.3	28.8	33.2	---	28.4	28.4	
Normal-conserving base										
Hay & pasture, average per farm	Acre	12	29	35	27	41	---	23	23	
Summer fallow, average per farm	Acre	21	36	91	155	131	---	51	51	
Total, average per farm	Acre	33	65	126	182	172	---	74	74	
Proportion of cropland	Percent	15.3	16.0	19.4	16.9	16.2	---	16.4	16.4	
All other crops										
Average per farm	Acre	82	154	233	397	363	---	168	168	
Proportion of cropland	Percent	38.2	38.1	35.8	36.9	34.1	---	37.2	37.2	

Table 11. -- Selected characteristics of farms in Area I
(Lighter soils in southern Red River Valley)

Item	CROPLAND ACREAGE							Remaining farms	
	Unit	115 to 300:180 to 360:301 to 520:420 to 990:720 to 1,070	Non-cropland acres	Non-cropland acres	Non-cropland acres	Non-cropland acres	Non-cropland acres		
Estimated number of farms in area - 1960	Number	480	245	250	75	85	60	105	1,300
Proportion of all farms in area	Percent	36.9	18.9	19.2	5.8	6.5	4.6	8.1	100.0
Average farm size	Acre	244	449	444	675	755	1,047	---	458
Noncropland									
Average per farm	Acre	28	156	50	200	59	150	---	91
Proportion of farmland	Percent	11.5	34.7	11.3	29.6	7.8	14.3	---	19.9
Cropland									
Average per farm	Acre	216	293	394	475	696	897	---	367
Proportion of farmland	Percent	88.5	65.3	88.7	70.4	92.2	85.7	---	80.1
Wheat allotment									
Average per farm	Acre	22	32	42	71	73	99	---	41
Proportion of cropland	Percent	10.2	10.9	10.7	14.9	10.5	11.0	---	11.2
Feed-grain base									
Corn, average per farm	Acre	44	62	65	111	161	204	---	77
Barley, average per farm	Acre	24	26	38	50	98	103	---	40
Total, average per farm	Acre	68	88	103	161	259	307	---	117
Proportion of cropland	Percent	31.5	30.0	26.1	33.9	37.2	34.2	---	31.9
Normal-conserving base									
Hay & pasture, average per farm	Acre	22	20	37	37	78	60	---	34
Summer fallow, average per farm	Acre	4	8	15	22	8	7	---	9
Total, average per farm	Acre	26	28	52	59	86	67	---	43
Proportion of cropland	Percent	12.0	9.6	13.2	12.4	12.4	7.5	---	11.7
All other crops									
Average per farm	Acre	100	145	197	184	278	424	---	166
Proportion of cropland	Percent	46.3	49.5	50.0	38.8	39.9	47.3	---	45.2