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Type of Farming Study Manual for the United States and South Dakota

C. R. Hoglund

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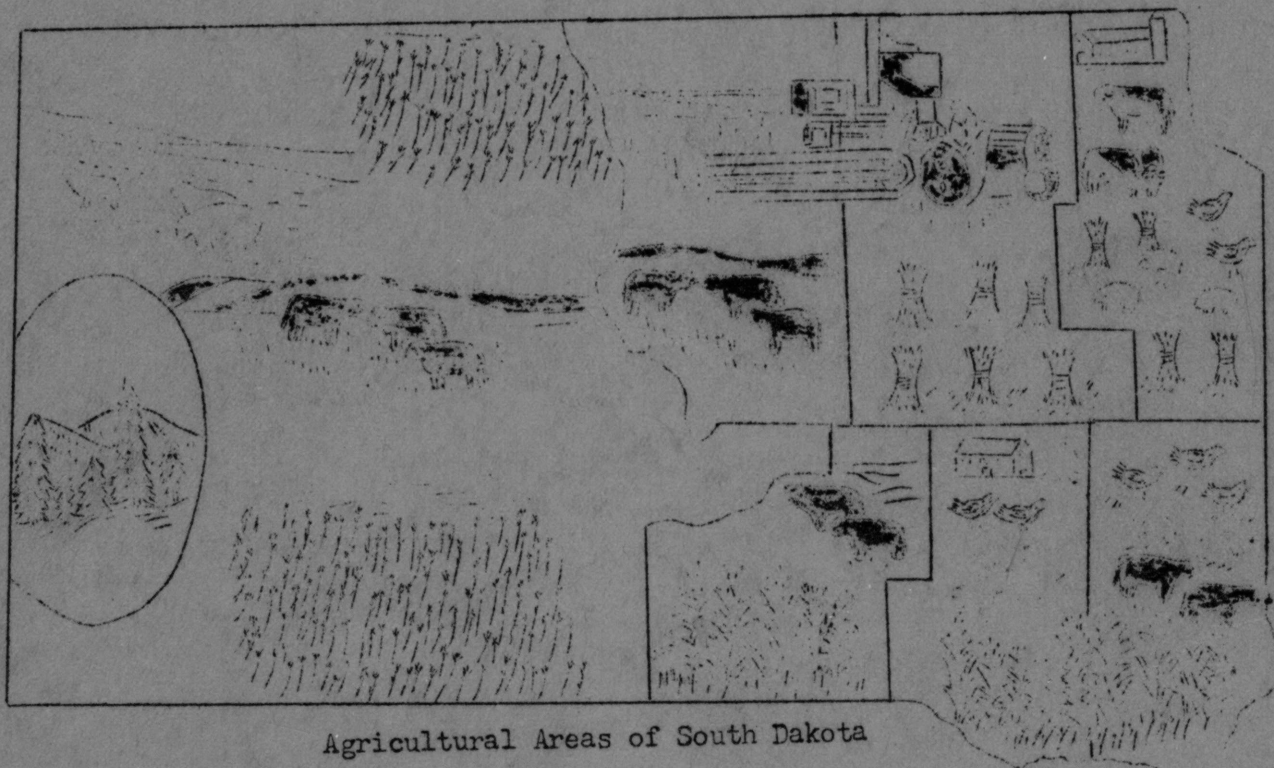
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TYPE OF FARMING STUDY MANUAL FOR THE UNITED STATES AND SOUTH DAKOTA



Agricultural Areas of South Dakota

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Prepared Especially For
FARM AND RANCH MANAGEMENT COURSES
AT SOUTH DAKOTA STATE COLLEGE

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S087.02
No. 24A
c-1

Agricultural Economics Department
South Dakota State College
Brookings, South Dakota

This pamphlet was prepared especially as a teaching guide in farm management courses at South Dakota State College. It should help acquaint students with the geography of crop and livestock production in the states and regions of the United States as well as in the various counties of South Dakota. This material should also be of value to research and extension workers in agriculture. Vocational agricultural instructors may also benefit by studying the maps and other data presented.

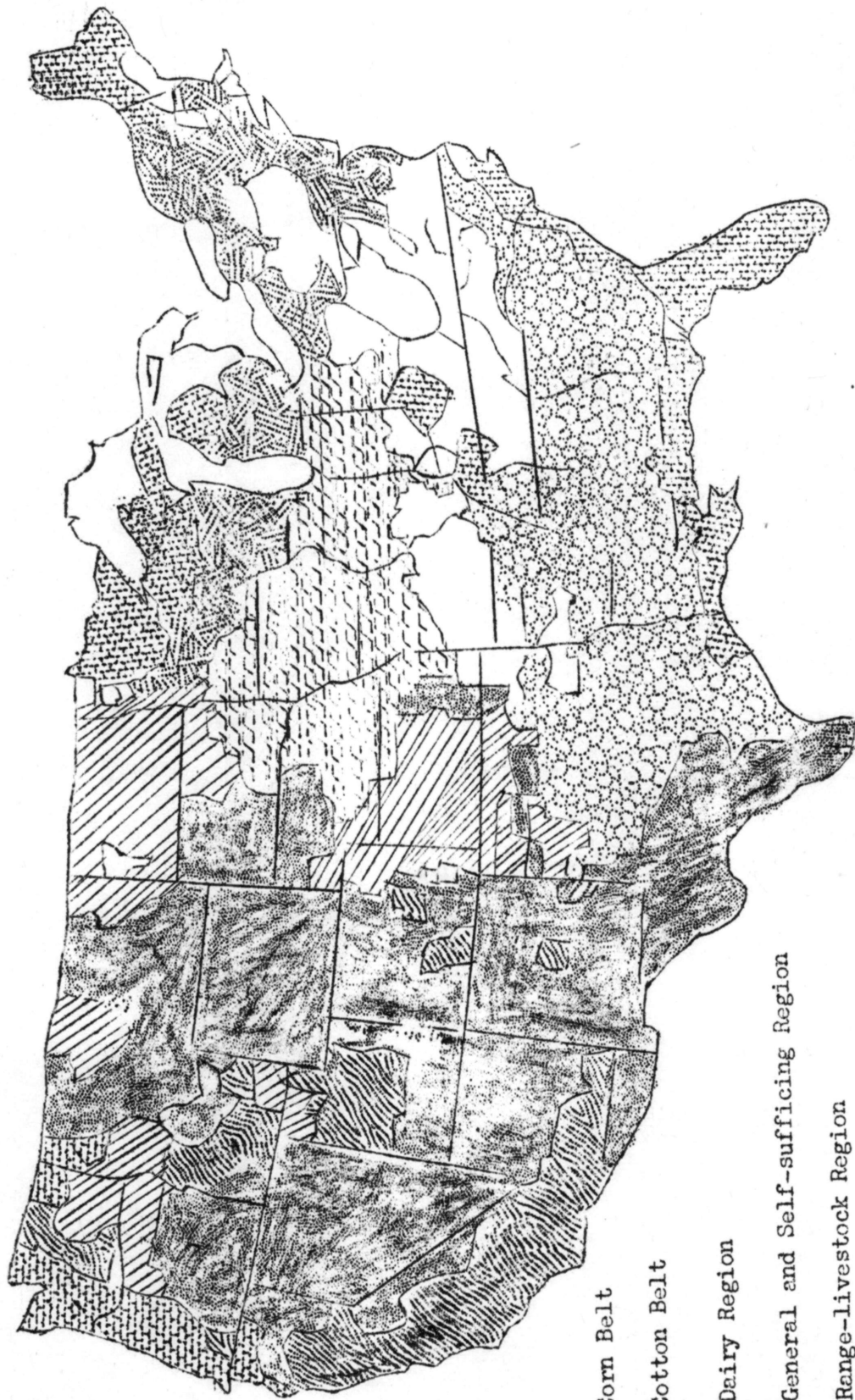
The concentration of specific crop and livestock production in the various areas of South Dakota and the United States is not due to chance, but is greatly influenced by such factors as climate, soil, topography, distance from market, competition, and other important factors.








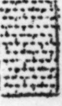
Material for the United States and State maps was obtained chiefly from the 1945 U. S. Census. The first 34 pages is devoted to the United States and the balance of the report to South Dakota.

C. R. Hoglund

C. R. Hoglund
Associate Professor
Farm Management

REGIONALIZED TYPES OF FARMING IN THE UNITED STATES



-  Corn Belt
-  Cotton Belt
-  Dairy Region
-  General and Self-sufficing Region
-  Range-livestock Region
-  Wheat Region
-  Western Specialty-crop Areas
-  Residual Areas

Distribution of Farms by Type, for Major Type-of-Farming Region, 1945

Type of farm 1/	Corn Belt	Cotton Belt	Dairy Region	General and Self-Sufficing Region	Range-Livestock Region	Western Specialty Crop Areas	Wheat Region
	Percent	Percent	Percent	Percent	Percent	Percent	Percent
Total	100	100	100	100	100	100	100
Dairy	12	3	57	15		20	
Poultry	4		5	7		7	
Cattle	13	4		8	15	7	
Hog	12						
Cotton		58					
Tobacco				10			
Fruit						21	3
Truck			4	3		4	
Potato				6		3	
Corn	37	7					
Wheat 2/	5	3					74
Hay			4		11		
Sugar beet				4	15	12	
Other 3/	17	25	30	47	4	4	23

1/ In this report, farms have been typed according to the principal source of farm income.
 2/ Includes a few farms with grain other than wheat or corn as the principal product.
 3/ This group varies with each region and includes all types of farms above for which no data are given as well as other types of farms, the most numerous of which is the farm producing primarily for home use.

Estimates based on data from enumerative sample survey of the Bureau of Agricultural Economics.

Selected Information on Farms, Population and Income in Each Major Type-of-Farming Region in the United States, 1944 and 1945

Type-of-Farming Region	Percent of farm population: 1945	Acres per farm, 1945	Value of products sold or traded in 1944	Value of machinery and equipment in 1945	Percent of farms reporting: in 1944	Percent of farms reporting: in 1945	Percent of farm operators reporting: more off-farm work in 1944	Average county index of farm operator family level of living, 1945
	Percent	Number	Dollars	Dollars	Percent	Percent	Percent	Percent
United States	100	195	3,148	1,094	34	18	100	
Corn Belt	14	175	4,781	1,682	65	11	137	
Cotton Belt	31	110	1,810	533	14	13	53	
Dairy Region	12	115	3,427	1,608	55	22	140	
General and Self-Sufficing Region	20	96	1,619	564	19	28	74	
Range-Livestock Region	3	1,442	4,942	1,436	46	17	113	
Wheat Region	4	621	6,116	2,451	76	8	132	
Western Specialty Crop Areas	4	274	9,256	2,001	40	25	151	
Residual Areas	12	105	2,994	878	26	25	94	

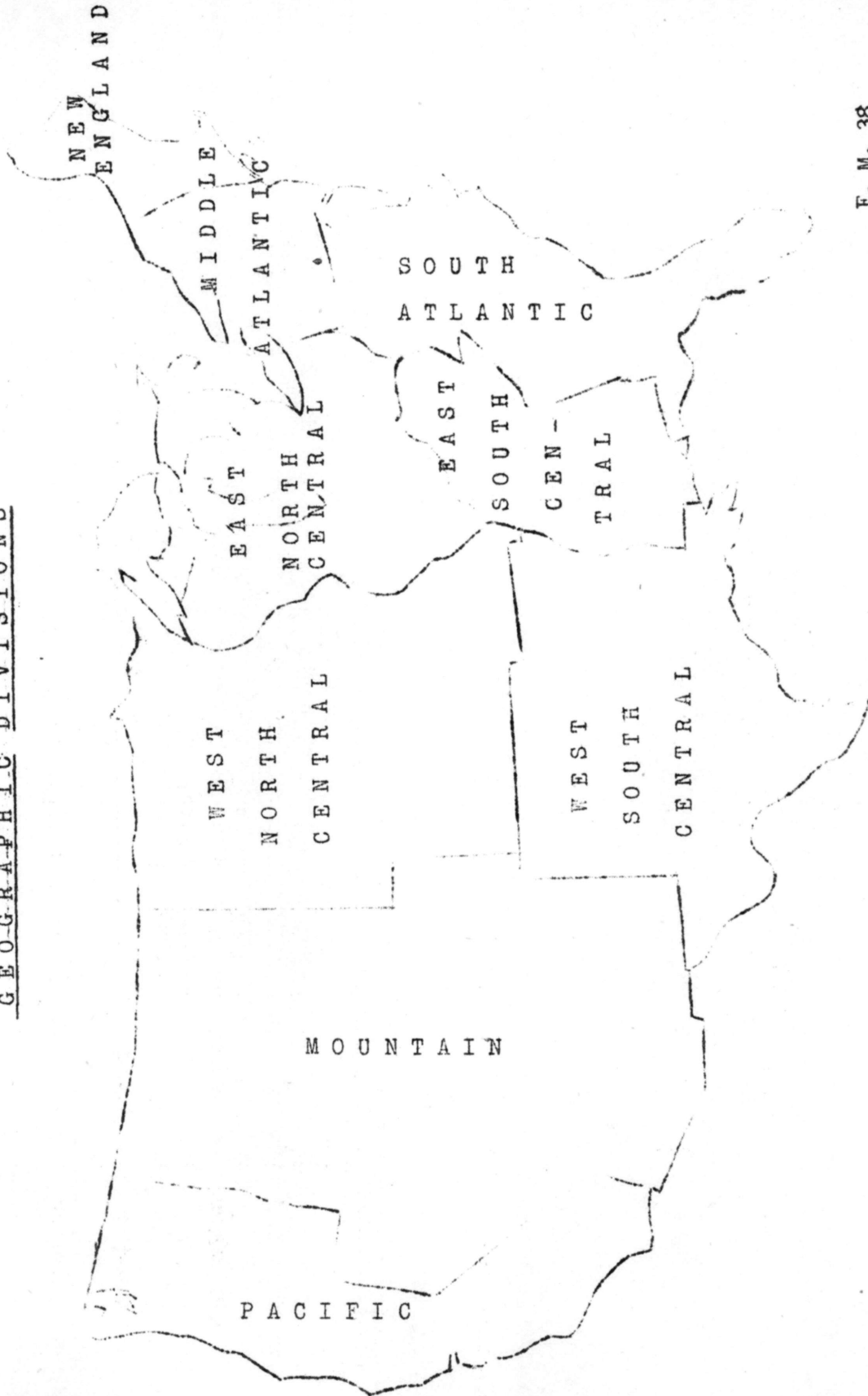
Source: 1945 Census of Agriculture, except last column which has been compiled from "Farm Operator Family Level of Living Indexes for Counties of the United States, 1940 and 1945," Bureau of Agricultural Economics, Washington, D. C. May 1947, (Processed). Indexes in this report were computed from data in the 1945 Census of Agriculture.

Use of Hired Labor and Annual Cash Labor Costs per Farm, United States and Major Type-of-Farming Regions, 1945

Type-of farming region	Total		Farms		Average		Percent		Average		Annual		Average	
	man-	days	of	hired	man-	days	of	hired	man-	days	of	hired	cash	labor
	days	of	hired	labor	man-	days	of	hired	man-	days	of	hired	cash	labor
	used	in	1945	in	1945	Percent	Number	Percent	Number	Percent	Number	Percent	Dollars	Dols.
	in	1945	Percent	Number	Percent	Number	Percent	Number	Number	Dollars	Dols.	Dollars	Dols.	Dols.
United States	100	100	100	88	47	182	3.70	316	675					
Corn Belt	15	10	11	60	45	125	3.95	223	492					
Cotton Belt	31	30	21	81	47	170	2.55	205	437					
Dairy Region	11	14	11	109	42	251	3.05	323	767					
General and Self-Sufficing Region	19	9	6	44	37	116	2.55	108	293					
Range-Livestock Region	4	5	6	135	52	238	4.35	533	1,035					
Western Specialty Crop Areas	4	13	23	308	72	401	6.30	1,830	2,527					
Wheat Region	4	5	7	103	64	158	5.45	550	866					
Residual Areas	12	14	15	103	52	192	4.00	402	768					

Estimates based on data from enumerative sample surveys of the Bureau of Agricultural Economics.

GEOGRAPHIC DIVISIONS



F. M. 38
C. R. H.
1-2-47

Gross Value of Farm Production Per Farm and Per Worker, Index of Farm Family Living, Proportion of Farmers Reporting

Farm Facilities, and Proportion of All Cows Two Years Old and Older Kept For Milk and Beef.

	New England		Middle Atlantic		East North Central		West North Central		South Atlantic		East South Central		West South Central		Mountain		Pacific		United States	
	1946	1945	1946	1945	1946	1945	1946	1945	1946	1945	1946	1945	1946	1945	1946	1945	1946	1945	1946	1945
Gross Value Farm Production	\$4,656	\$5,435	\$5,548	\$6,802	\$3,133	\$2,047	\$3,443	\$8,066	\$10,950	\$4,772										
Average per farm, 1946	\$2,542	\$2,485	\$3,498	\$3,865	\$1,440	\$1,106	\$1,516	\$3,624	\$4,362	\$2,413										
Average per worker, 1946	137	139	131	125	65	48	81	113	150	100										
Index of Farm Family Living*																				
Proportion of Farms Reporting, (1945 Census)																				
Tractors	31	49	56	61	11	8	25	44	38	34										
Trucks	39	35	23	25	15	10	19	46	42	22										
Automobiles	72	80	84	83	47	31	48	70	81	62										
Electricity	78	79	71	43	38	27	32	57	82	48										
Running Water	71	58	36	21	19	10	23	43	81	29										
Telephone	63	47	51	57	11	10	15	34	43	32										
Radio	87	86	86	85	58	57	66	79	88	73										
Proportion of All Cows Two Years Old and Older;																				
Kept for milk, 1945	99	99	92	70	72	80	51	27	61	70										
Kept for beef, 1945	1	1	8	30	28	20	49	73	39	30										

* U. S. Average = 100. This level of living index for 1945 is based on conveniences and facilities farmers have such as electricity, telephones and automobiles; and the average value of products sold and traded during the preceding year.

Gross Farm Production and Farm-Produced Power, 1/₁ by Geographic Divisions,
Specified Periods, 1919 to 1944

(Production measured in 1935-39 average dollars)

Geographic division	Gross farm production		Farm produced power		Percentage farm produced power				
	Average : 1919-23	Average : 1935-39	Average : 1919-23	Average : 1935-39	Average : 1919-23	Average : 1935-39			
	Million dollars	Million dollars	Million dollars	Million dollars	Percent	Percent			
New England	223	230	255	40	20	16	18	9	6
Middle Atlantic	690	682	728	134	76	62	19	11	9
East North Central	1,679	1,773	2,029	319	190	129	19	11	6
West North Central	2,329	1,976	2,965	472	261	197	20	13	7
South Atlantic	974	1,118	1,304	208	151	146	21	14	11
East South Central	729	819	925	194	147	148	27	18	16
West South Central	1,075	1,125	1,343	235	150	118	22	13	9
Mountain	478	522	678	100	55	47	21	11	7
Pacific	564	815	987	63	33	24	11	4	2
United States	8,741	9,060	11,214	1,765	1,083	887	20	12	8

1/₁ Farm-produced power is the cost in 1935-39 average dollars of keeping work stock and raising colts plus any increase in value above costs of colts up to 2 years of age. Net depreciation of work animals over 2 years old is included in computing costs of keeping work animals. The basic assumption for this computation is that the volume of farm-produced power is equal to the value in 1935-39 average dollars of the feed, labor, net depreciation, and other cost items devoted to the horse and mule enterprise.

Gross production per worker and value of land and buildings, livestock and equipment per worker, by census geographic division, 1939 and 1940 ^{1/}

Census geographic division	Production	Land and		Equipment	Total
	per worker, 1939 (U.S. average =100)	buildings per worker 1940 ^{2/}	Livestock per worker 1940 ^{2/}	per worker, 1940 ^{2/}	cropland per worker, 1939 ^{3/}
	Percent	Dollars	Dollars	Dollars	Acres
Pacific	166	5,709	443	411	32.1
West North Central	150	5,380	757	533	81.7
East North Central	146	4,995	612	483	38.2
Mountain	140	4,120	921	417	60.6
Middle Atlantic	121	3,191	531	459	21.6
New England	104	2,891	367	289	14.4
West South Central	69	2,266	313	178	30.2
South Atlantic	66	1,511	137	99	13.9
East South Central	50	1,303	201	90	14.9
United States	100	3,132	424	285	33.9

^{1/} Based on number of farm workers from BAE Farm Labor Reports, 1939. Production per worker for 1939 is used because that is the production year reported in the 1940 census.

^{2/} Value of land and buildings, livestock, and equipment from 1940 Census of Agriculture.

^{3/} Land from which one or more crops were harvested plus estimated acreage of crop failure and summer fallow.

Gross Farm Production by Geographic Divisions, Average 1935-39
(Production measured in 1935-39 average dollars)

Item	Million dollars									
	New England	Middle Atlantic	North Central	West Central	East South Central	South Atlantic	West South Central	Mountain	Pacific	United States
Gross farm production	229.6	682.4	1,773.3	1,975.6	1,118.0	819.2	1,124.8	521.9	814.7	9,059.5
Product added by all live-stock	91.5	269.9	578.3	631.4	211.1	167.3	234.6	137.5	171.7	2,493.3
Product added by meat animals and animal products	83.4	239.2	509.6	537.3	161.1	118.3	188.7	120.4	158.0	2,116.0
Product added by horses and mules	8.1	30.7	68.7	94.1	50.0	49.0	45.9	17.1	13.7	377.3
Crop and Pasture production:	138.1	412.5	1,195.0	1,344.2	906.9	651.9	890.2	384.4	643.0	6,566.2
Food Grains	--	29.3	113.6	263.3	29.3	10.7	92.3	60.5	66.5	667.5
Feed grains and hay	47.5	176.8	737.4	805.2	213.4	217.2	219.7	110.8	139.2	2,637.2
Cotton (lint and seed)	--	--	--	18.8	155.0	207.9	349.3	19.1	28.0	778.1
Oil bearing crops	--	.2	35.2	21.1	29.1	7.4	5.4	.4	1.6	100.4
Tobacco	8.9	4.7	7.2	1.0	187.6	70.1	--	--	--	279.5
Truck crops	23.3	74.5	78.6	34.8	110.8	47.4	56.3	28.4	105.6	559.7
Fruits and tree nuts	12.6	37.8	36.0	7.8	77.9	13.9	21.2	10.4	214.6	432.2
Vegetables (except truck)	34.7	51.2	55.7	33.3	46.4	23.7	21.0	41.6	42.0	349.6
Sugar crops	2.0	1.5	8.1	7.7	7.2	6.6	21.0	23.6	11.9	89.6
Seed crops	--	.4	11.2	12.2	2.1	2.6	1.2	6.8	2.3	38.8
Miscellaneous crops	--	--	--	--	4.0	2.7	2.9	--	7.4	17.0
Pasture used by livestock	9.1	36.1	110.0	139.0	44.1	41.7	99.9	82.8	53.9	616.6
Gross farm production	2	8	20	22	12	9	12	6	9	100
Product added by all livestock	4	11	23	25	8	7	9	6	7	100
Crop and pasture production	2	6	18	20	14	10	14	6	10	100

Total Average Crop and Pasture Production During 1935-39, and Percentage of Total
 Represented By Various Crop Groups, by Geographic Divisions
 (Production measured in 1935-39 average dollars)

Geographic division	Percentage of total crop and pasture production										
	Total : crop : and : pasture : pro- : duction:	Feed : grains : hay : and	Food : including : truck : crops	Vegetables : including : fruits : and : nuts	Cotton	Tobacco	Oil : Crops	Sugar : Crops	All other : crops		
	Mil. : dol.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.
New England	138.1	41.0	42.0	9.1	---	6.4	---	1.5	---	---	---
Middle Atlantic	412.5	51.6	30.5	9.2	---	1.1	---	0.4	0.1	0.9	0.1
East North Central	1,195.0	70.9	11.2	3.0	---	0.6	---	0.7	0.9	0.9	0.9
West North Central	1,344.2	70.2	5.1	0.6	1.4	---	---	0.6	0.9	0.9	0.9
South Atlantic	906.9	28.4	17.3	3.6	17.1	20.7	---	0.8	0.7	0.7	0.7
East South Central	651.9	39.7	10.8	2.1	31.9	10.9	---	1.0	0.8	0.8	0.8
West South Central	890.2	35.9	8.7	2.4	39.2	---	---	2.3	0.5	0.5	0.5
Mountain	384.4	50.4	18.2	2.7	5.0	---	---	6.1	1.8	1.8	1.8
Pacific	643.0	25.4	23.0	33.4	4.4	---	---	1.9	1.5	1.5	1.5
United States	6,566.2	49.6	13.8	6.6	11.8	4.3	---	1.4	0.8	0.8	0.8

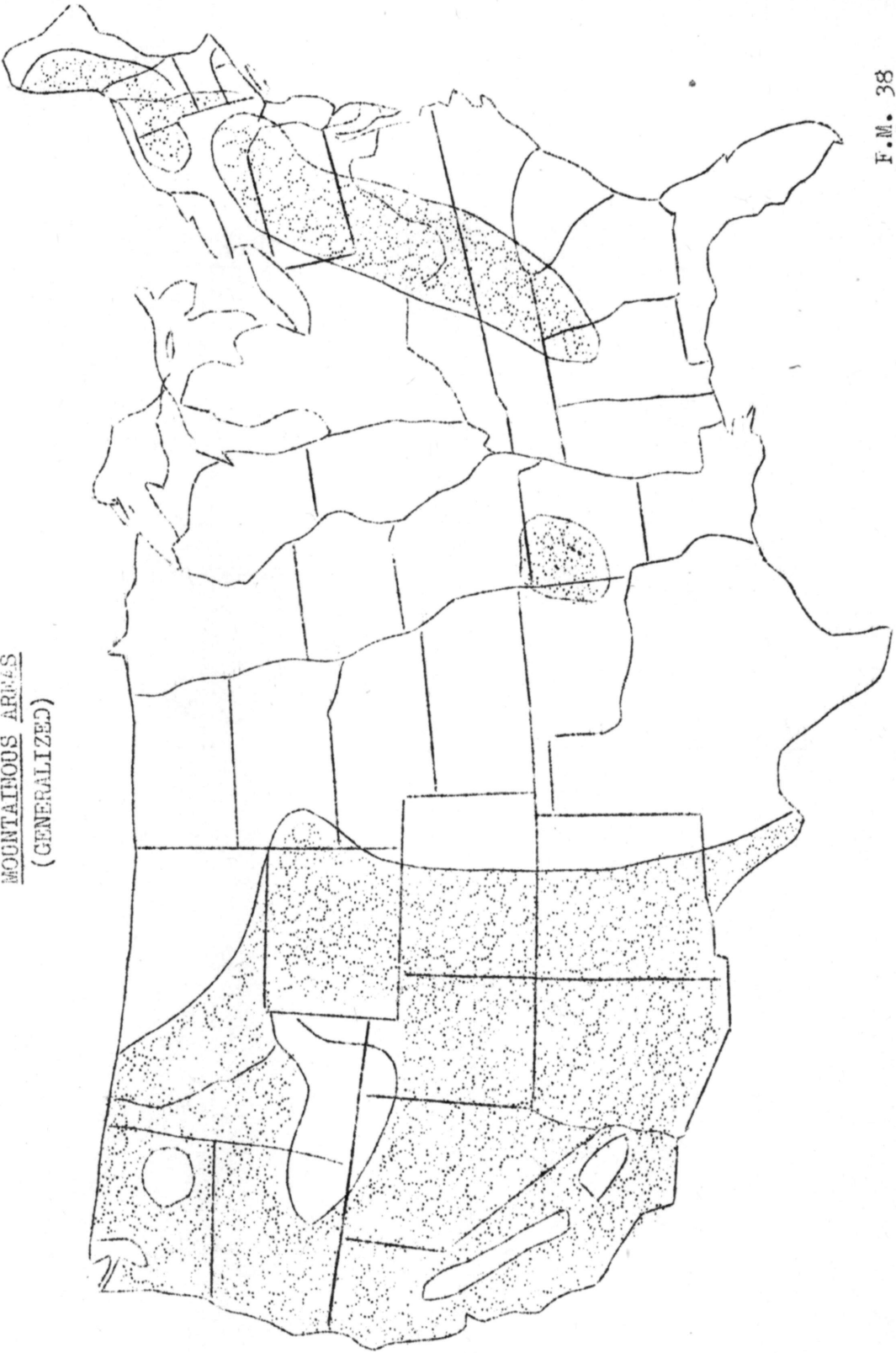
MAJOR CROPS OF THE UNITED STATES AND SOUTH DAKOTA*

(1940-1944 Average Acreage and Value)

UNITED STATES			SOUTH DAKOTA		
<u>Crop</u>	<u>Acreage</u> millions	<u>Value</u> millions	<u>Crop</u>	<u>Acreage</u> millions	<u>Value</u> millions
Corn, all	91.9	\$ 2,518	Corn, all	3.3	\$ 73.6
Hay, all	73.0	1,160	Wheat, all	2.9	35.9
Wheat, all	56.1	1,042	Oats	2.4	33.1
Oats	37.2	600	Hay, all	2.2	16.4
Cotton	21.9	945	Barley	1.7	18.8
Barley	12.9	206	Sorghum, forage	.7	9.7
Sorghum, grain	9.7	112	Rye	.5	3.5
Soybeans, beans	7.6	233	Flax	.3	8.0
Flax	3.0	56	Sorghum, grain	.3	1.7
Potatoes	2.9	385			
Rye	2.7	23			
Peanuts	2.6	114			
Tobacco	1.6	524			
All other crops	20.1	2,199	All other crops	.8	1.8
Total all crops	343.2	\$10,117	Total all crops	15.1	\$202.5

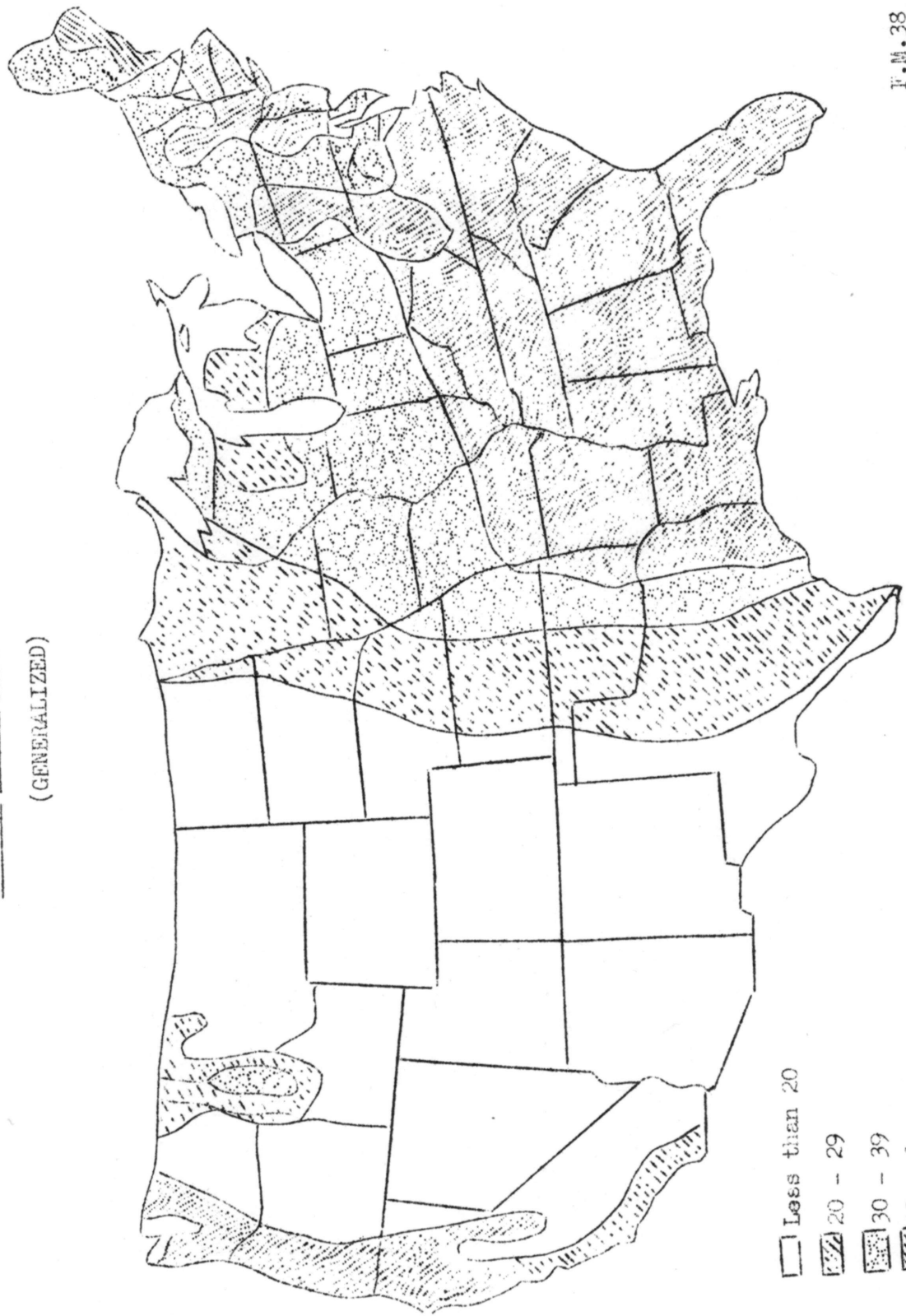
*Data from 1940 and 1944 Agricultural Statistics

MOUNTAINOUS AREAS
(GENERALIZED)



F.M. 38
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1-2-47

AVERAGE ANNUAL PRECIPITATION
(GENERALIZED)

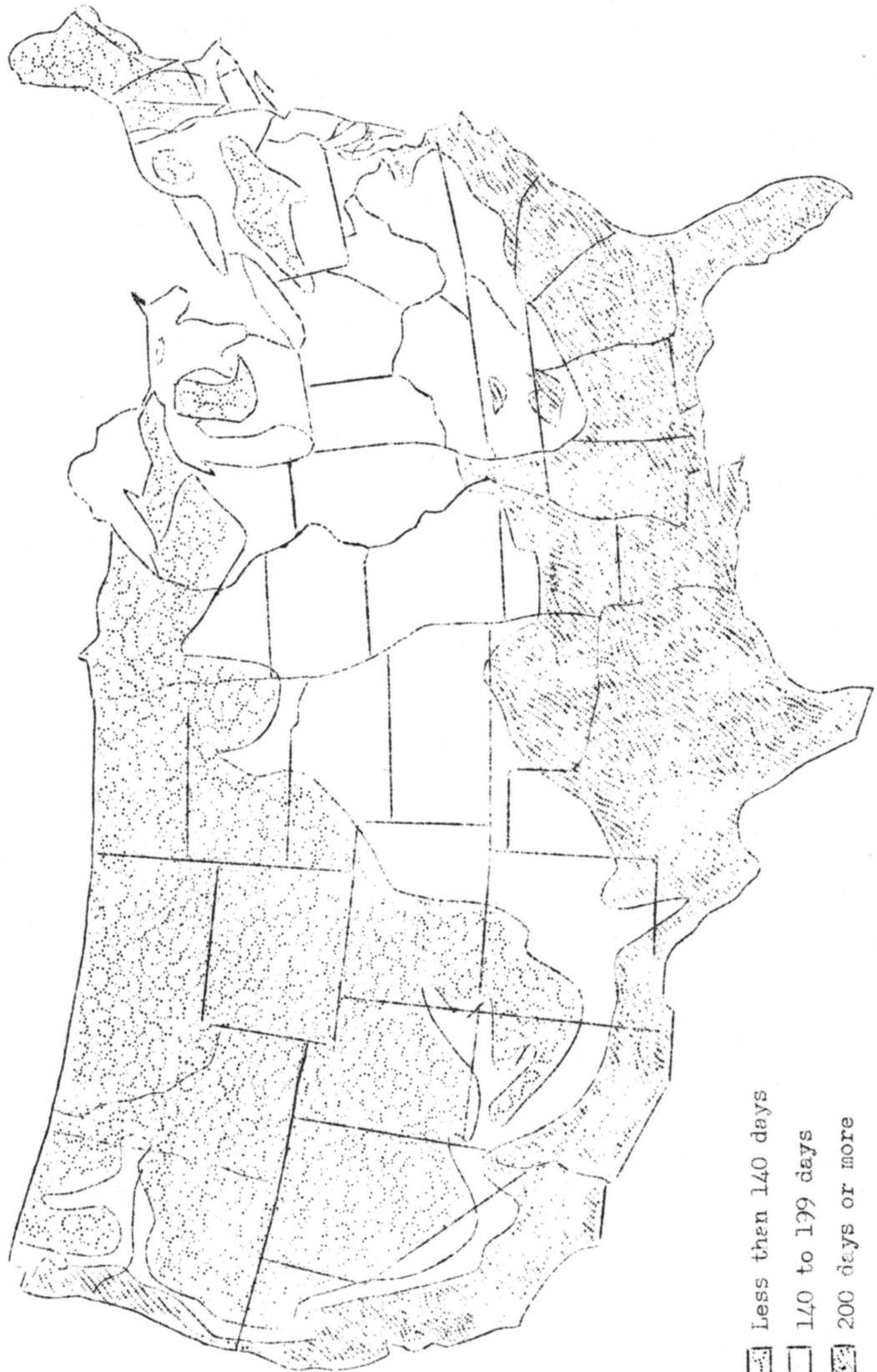





- Less than 20
- ▨ 20 - 29
- ▩ 30 - 39
- ▧ 40 and more

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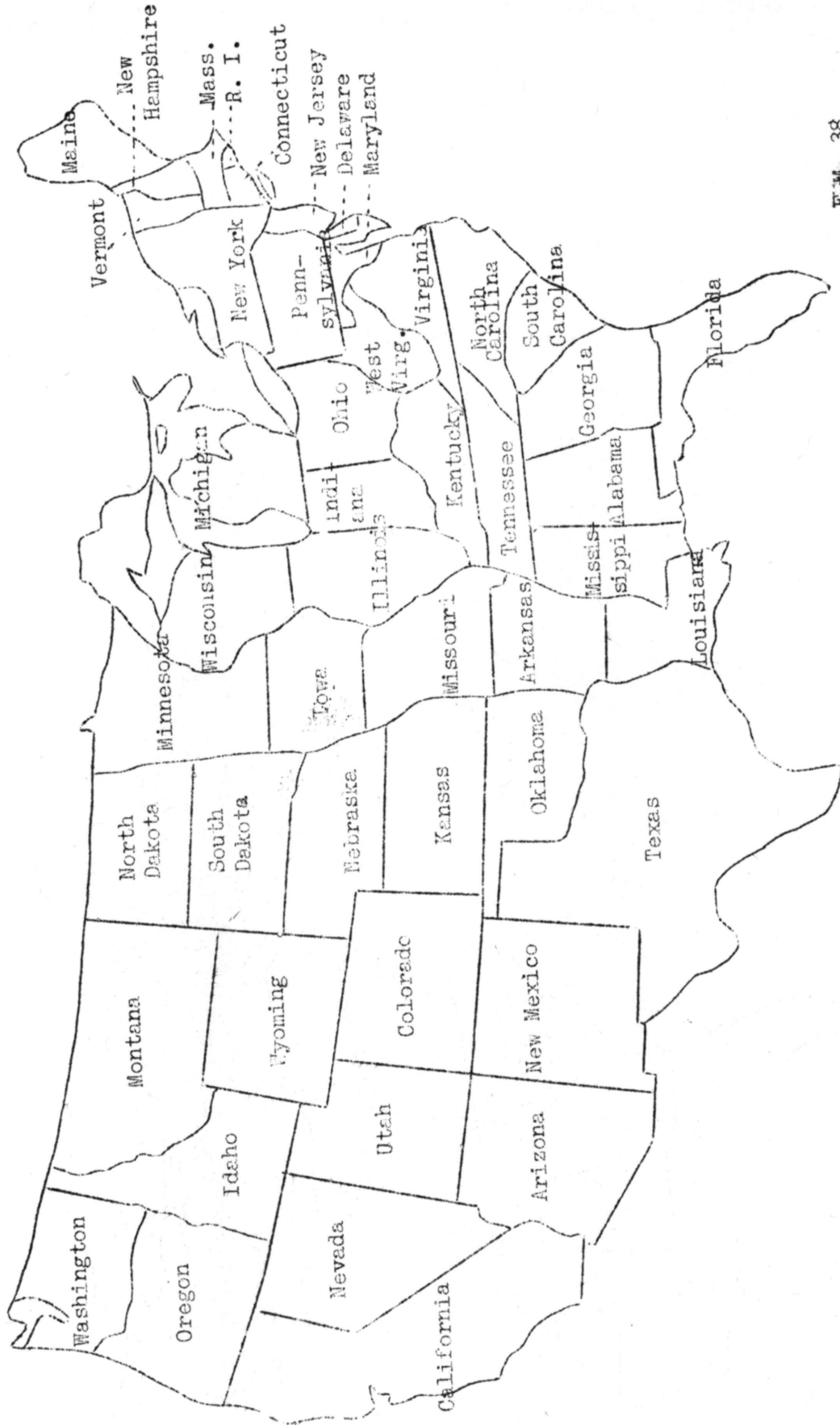
AVERAGE LENGTH OF GROWING SEASON

(Generalized)



-  Less than 140 days
-  140 to 199 days
-  200 days or more

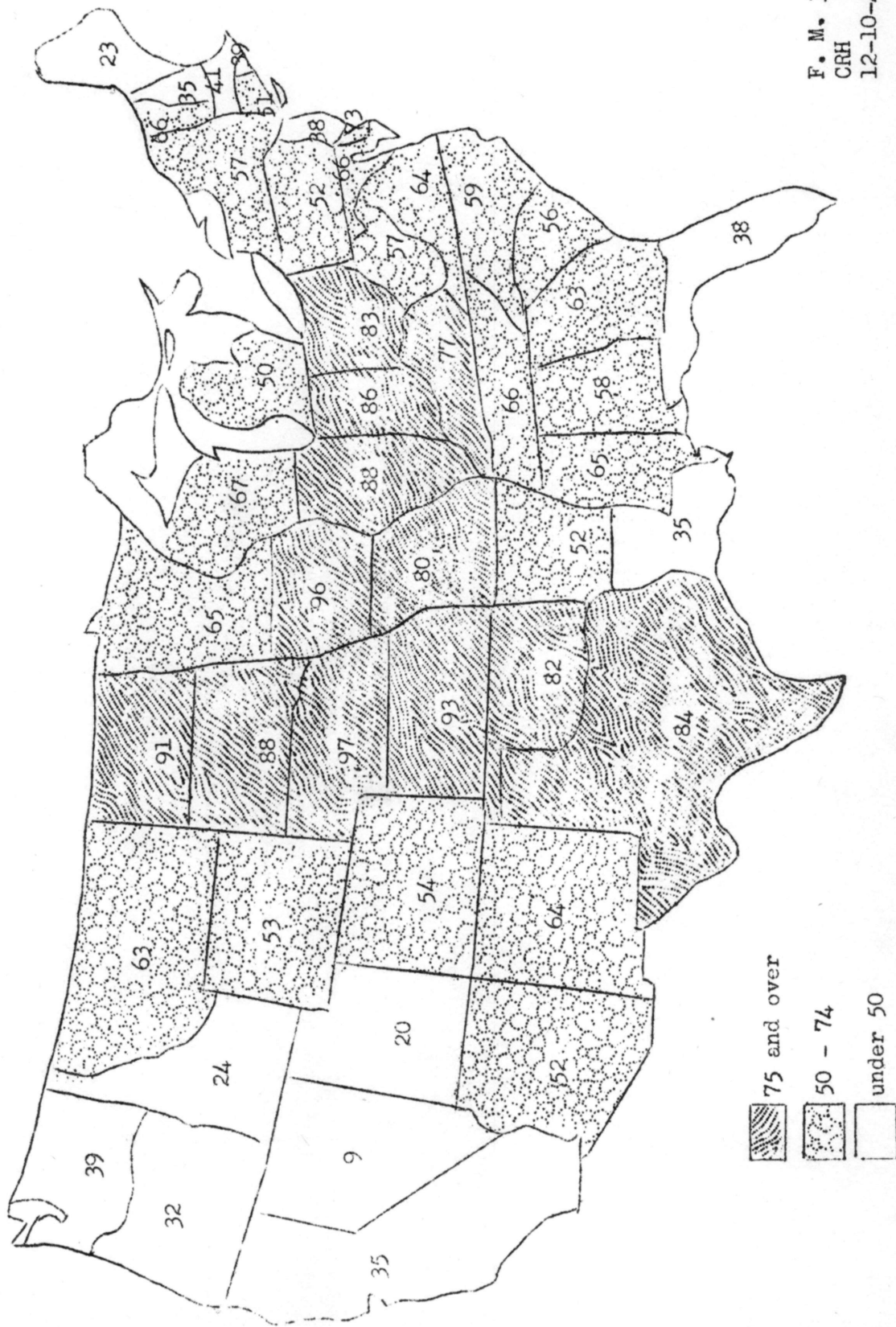
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1-2-47



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C.R.H.
1-2-47

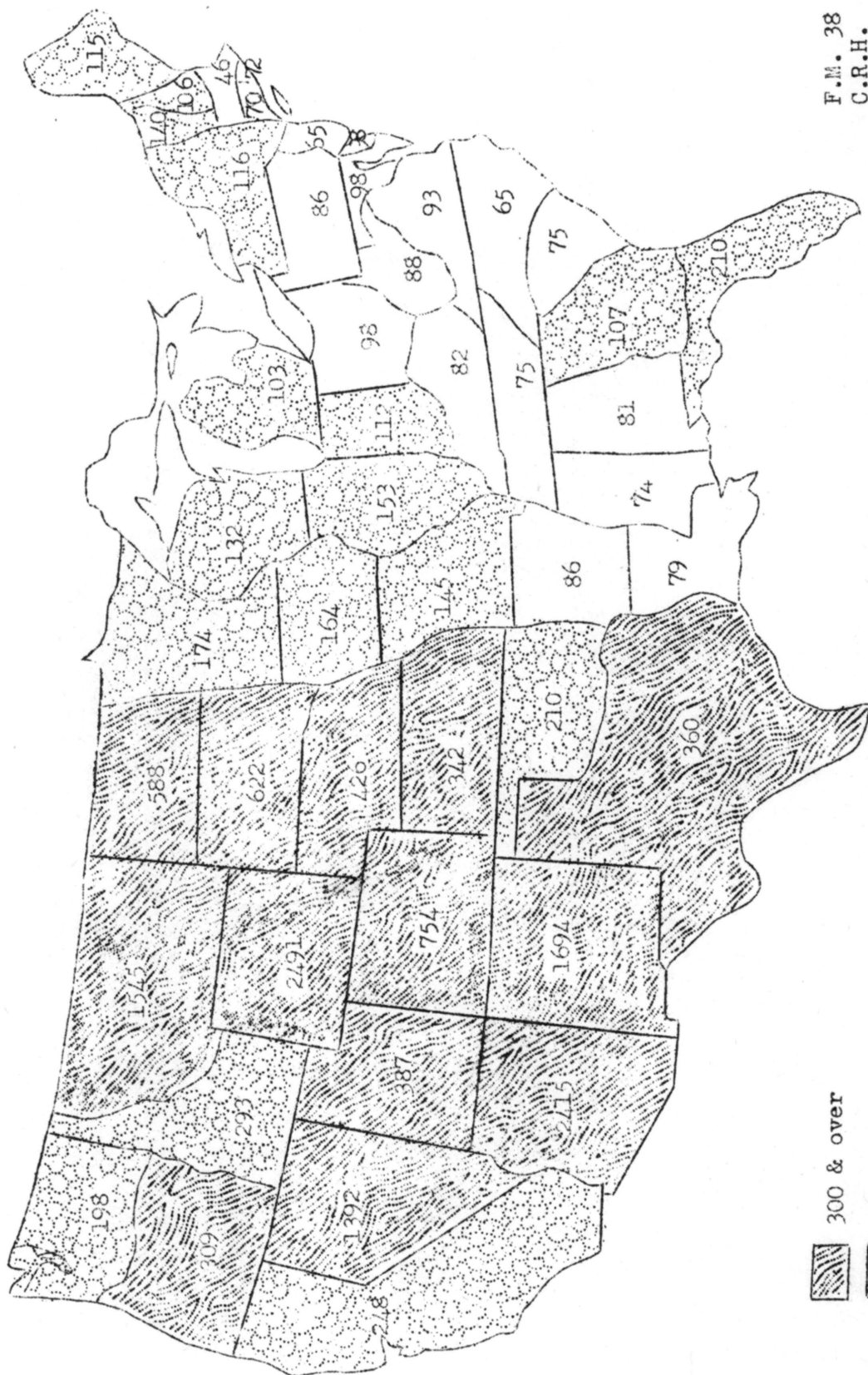
PROPORTION OF LAND AREA IN FARMS, 1945

United States Average 59.9%

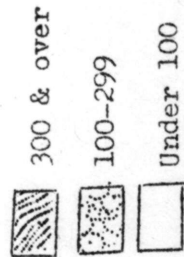


AVERAGE ACRES PER FARM, 1945

United States Average 190

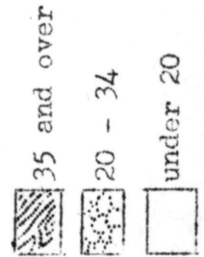
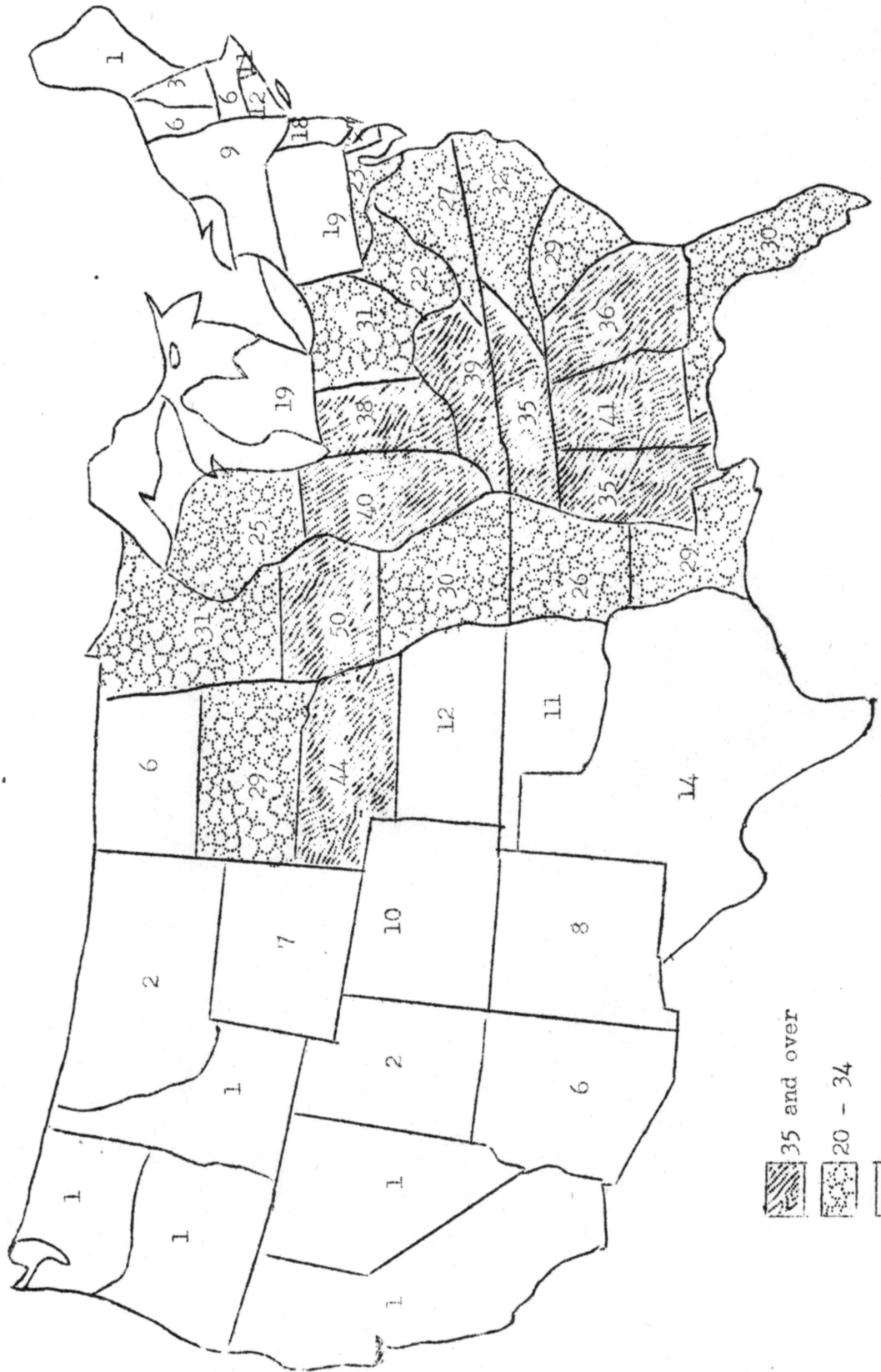


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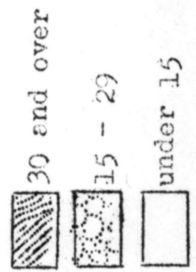
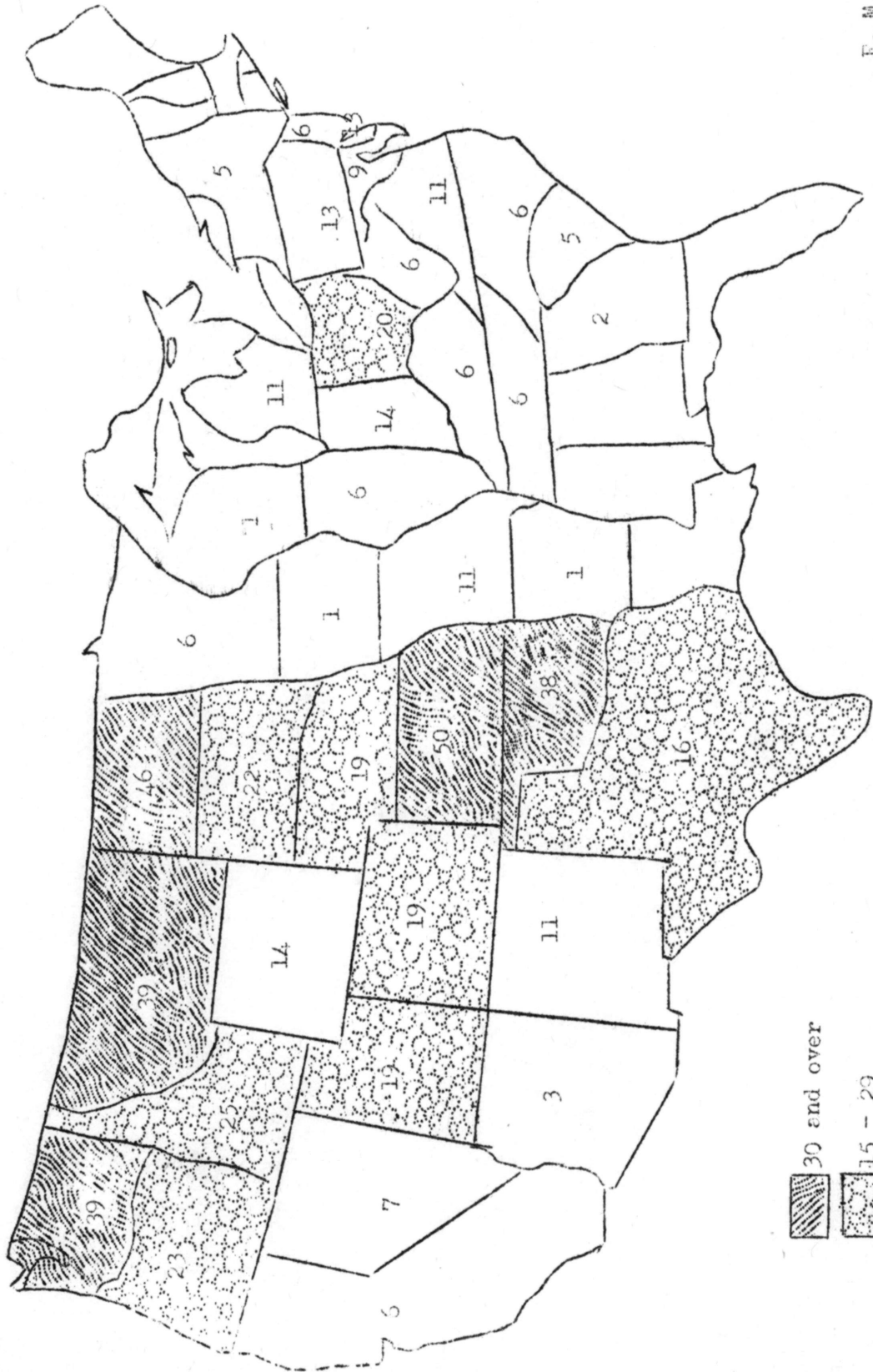
PROPORTION OF CROPLAND USED FOR CORN, 1945

United States Average 23.9%



PROPORTION OF CROPLAND USED FOR WHEAT, 1945

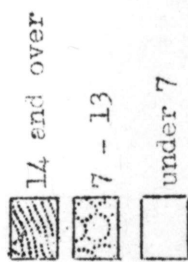
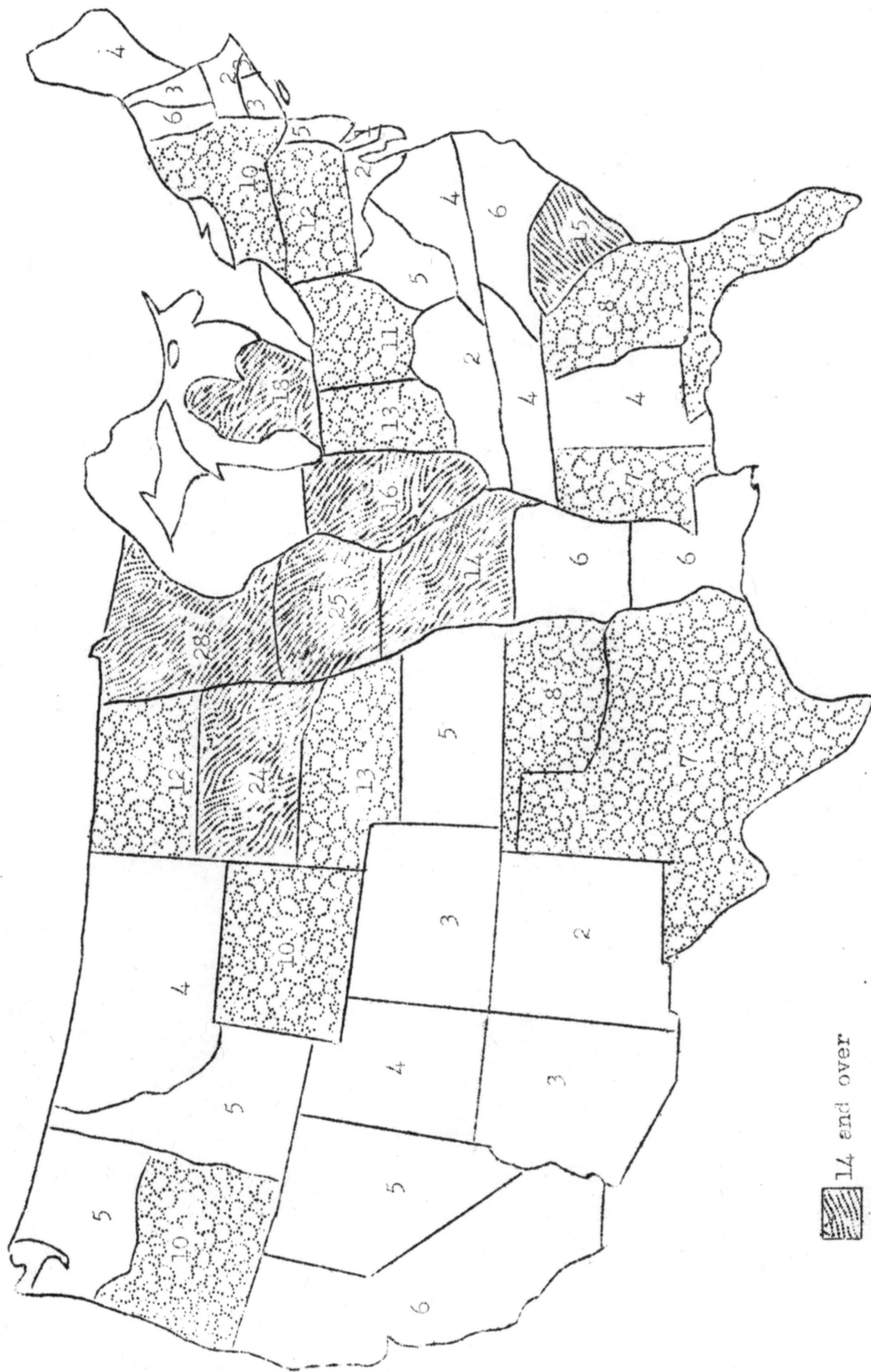
United States Average, 16.8%



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CRH
12-10-47

PROPORTION OF CROPLAND USED FOR OATS, 1945

United States (average 11.6%)



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PROPORTION OF CROPLAND USED FOR BARLEY, 1945

United States Average 2.9%

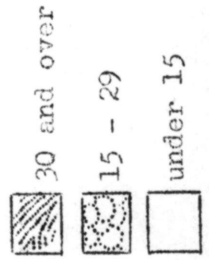
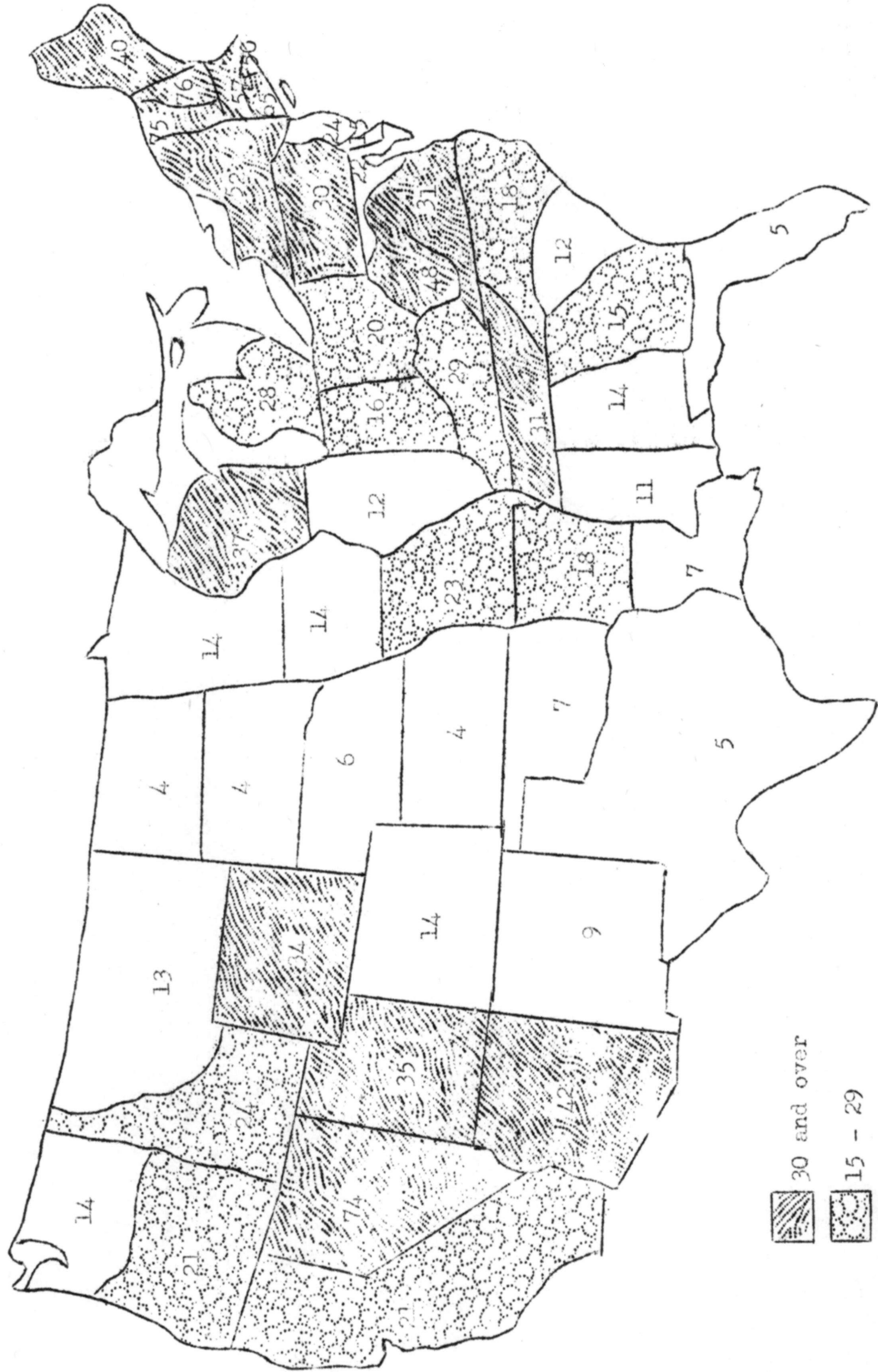


8 and over

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PROPORTION OF GRASSLAND USED FOR TIMBER HAY, 1945

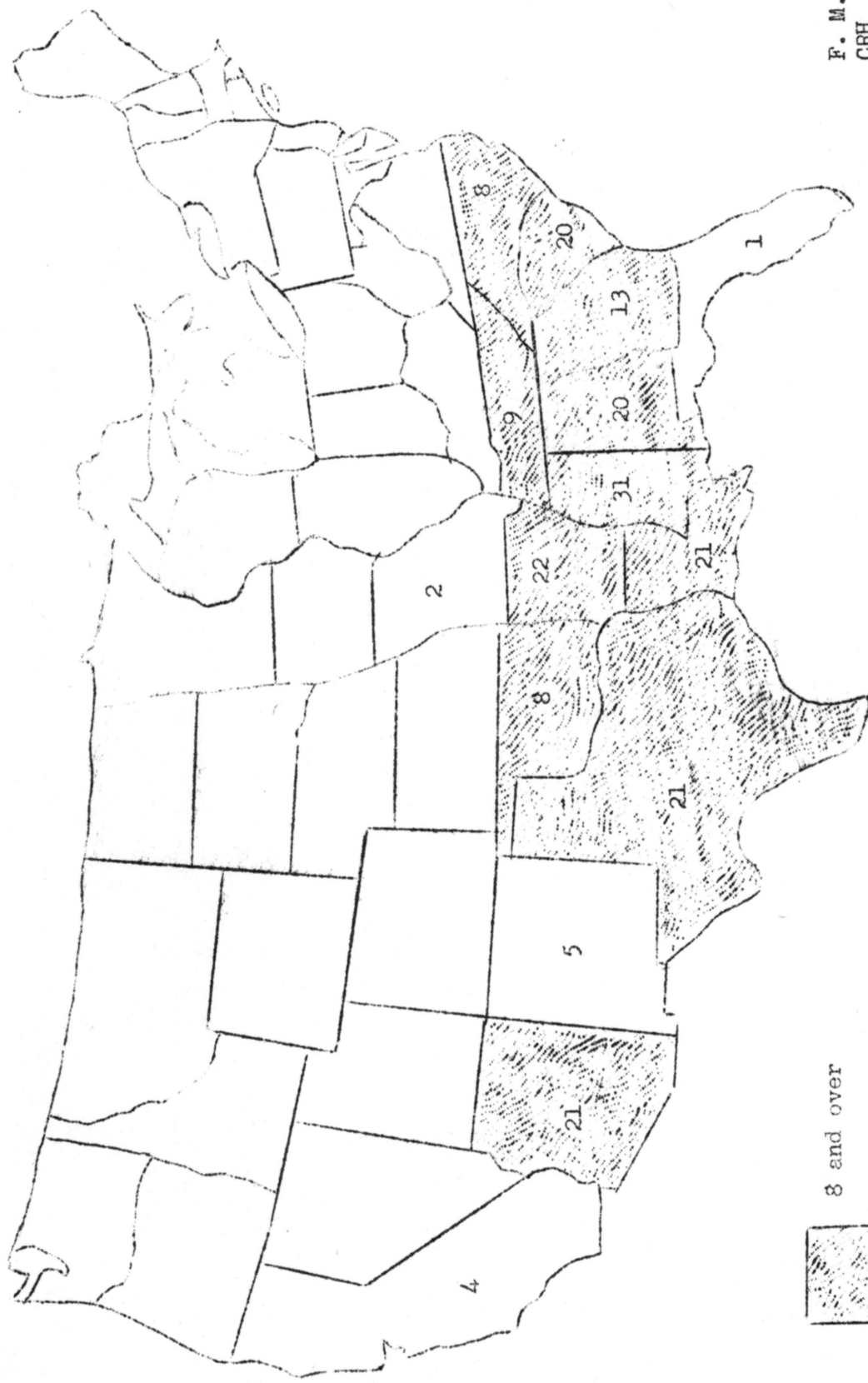
United States Average 15.4%



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PROPORTION OF CROPLAND USED FOR COTTON, 1945

United States Average 4.6%

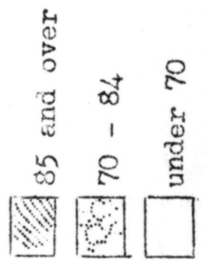
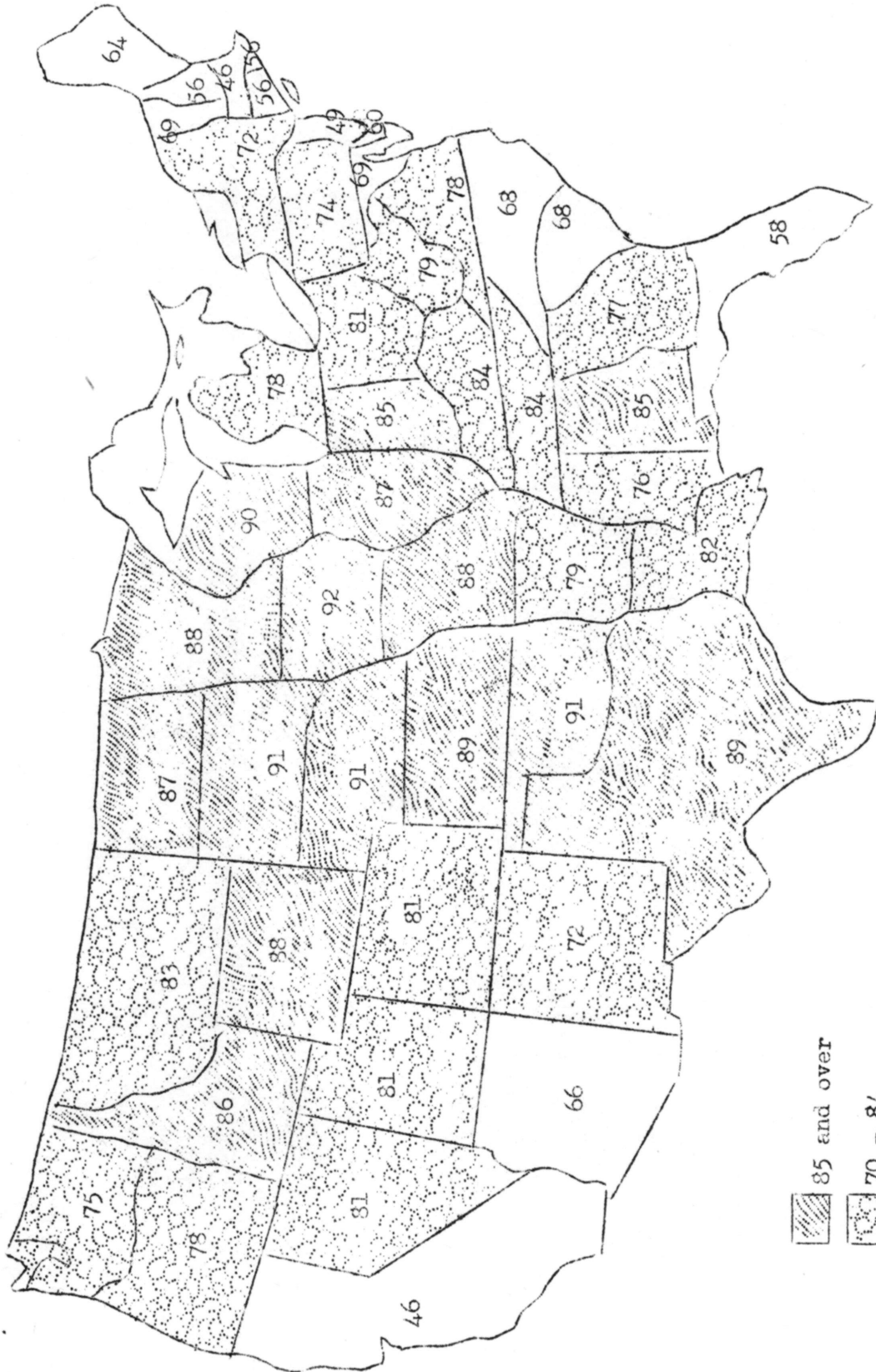


8 and over

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12-10-47

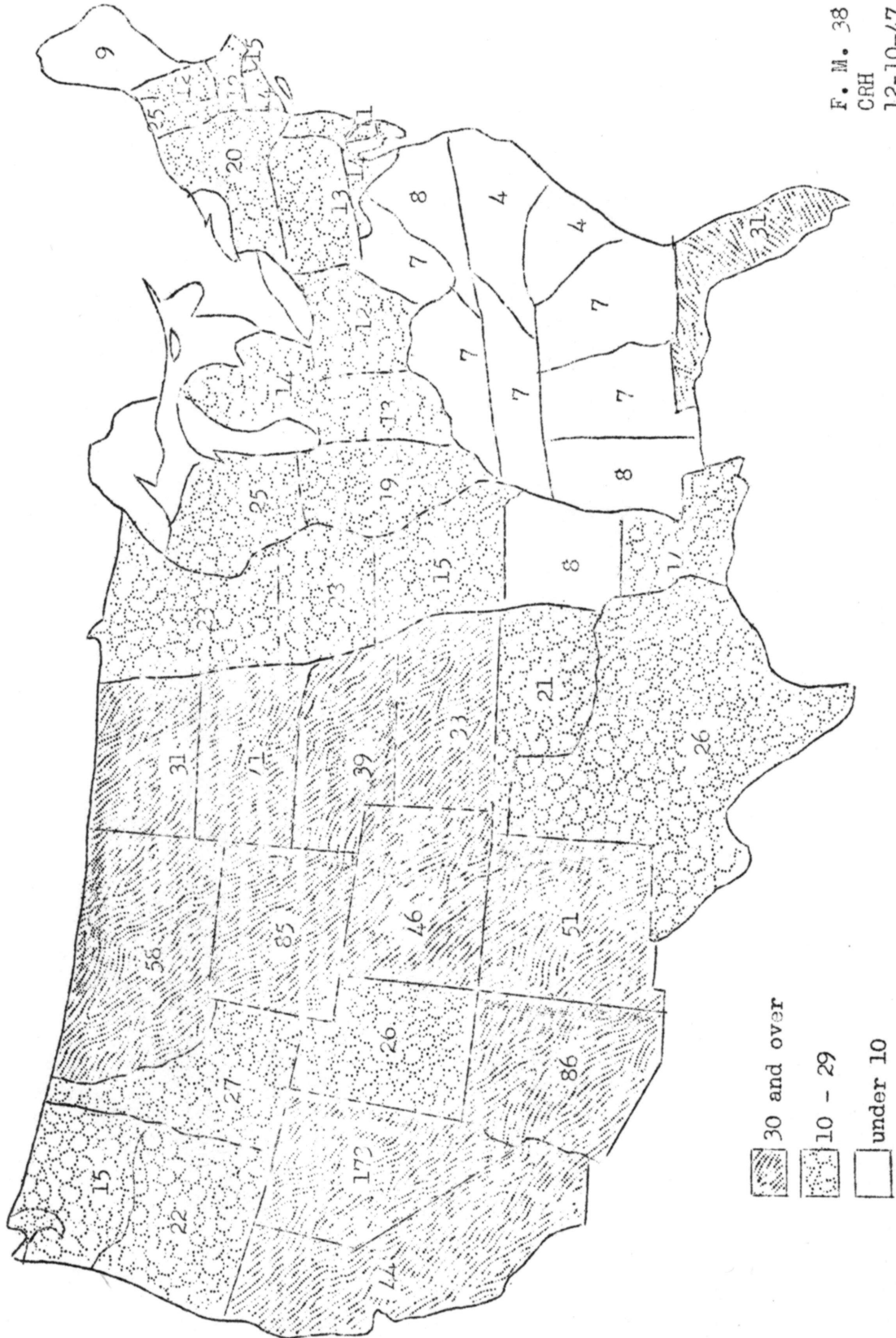
PROPORTION OF FARMS REPORTING CATTLE, 1945

United States Average 80.0%






AVERAGE NUMBER OF ALL CATTLE KEPT PER FARM REPORTING, 1945

United States Average 17.6%



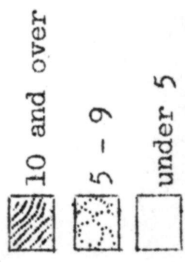
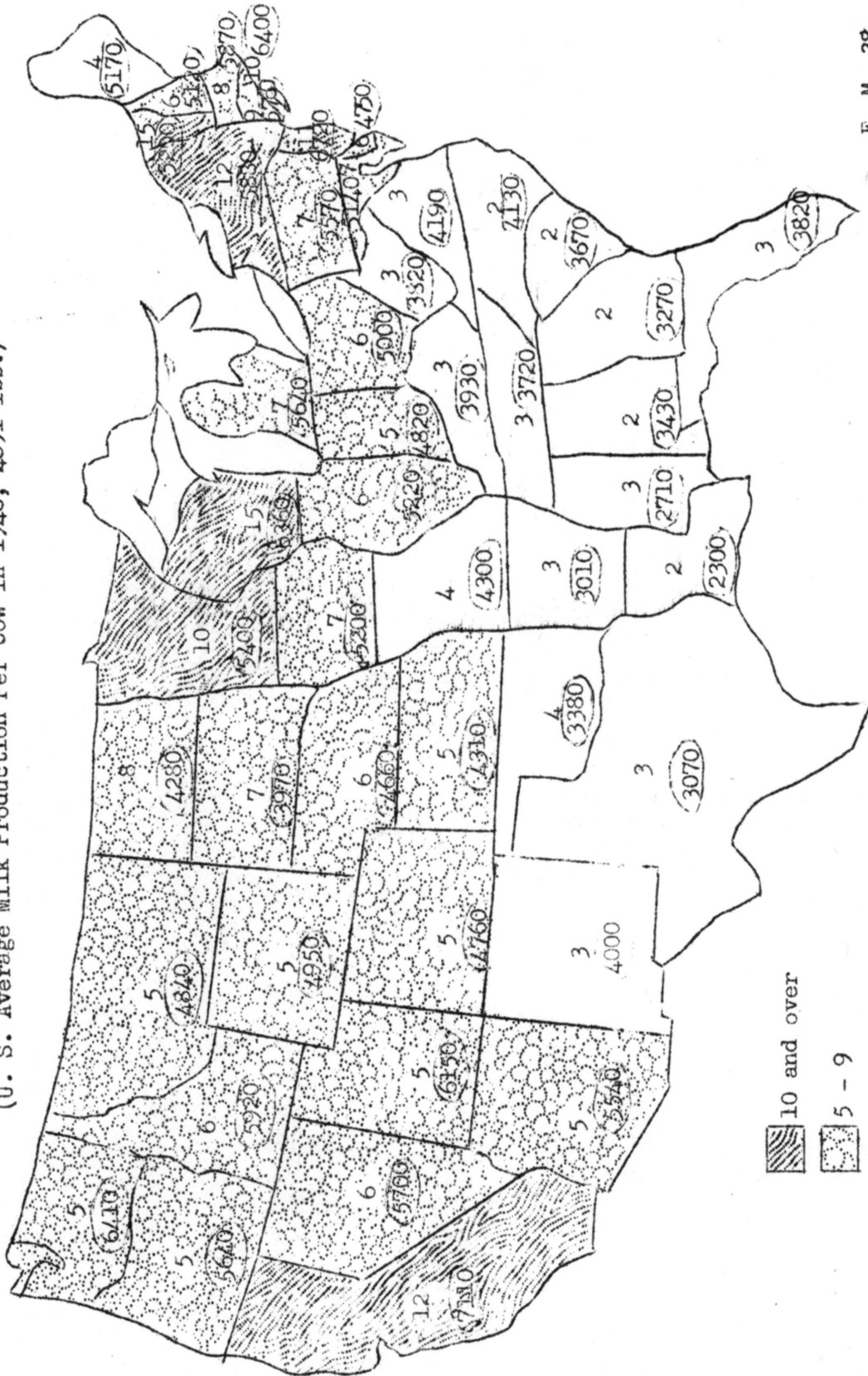
F. M. 38
CRH
12-10-47

 30 and over
 10 - 29
 under 10

AVERAGE NUMBER OF COWS KEPT FOR MILK PER FARM REPORTING, 1945

United States Average 5.1%

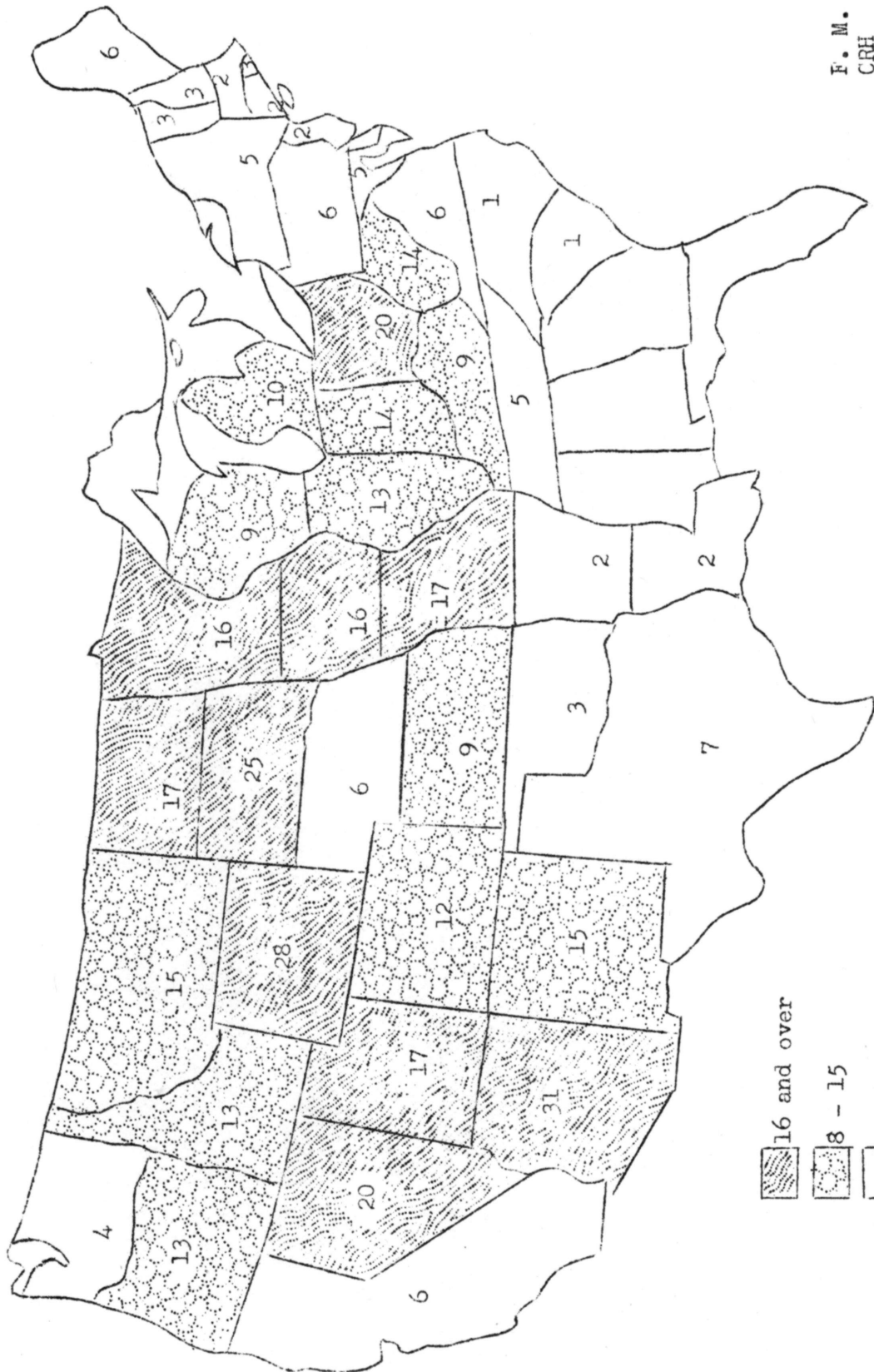
(U. S. Average Milk Production Per Cow in 1946, 4891 lbs.)






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CRI
12-10-47

PROPORTION OF FARMS REPORTING SHEEP AND LAMBS, 1945

United States Average 7.8%

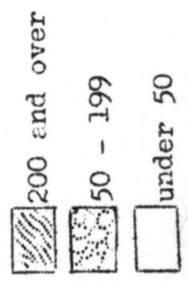
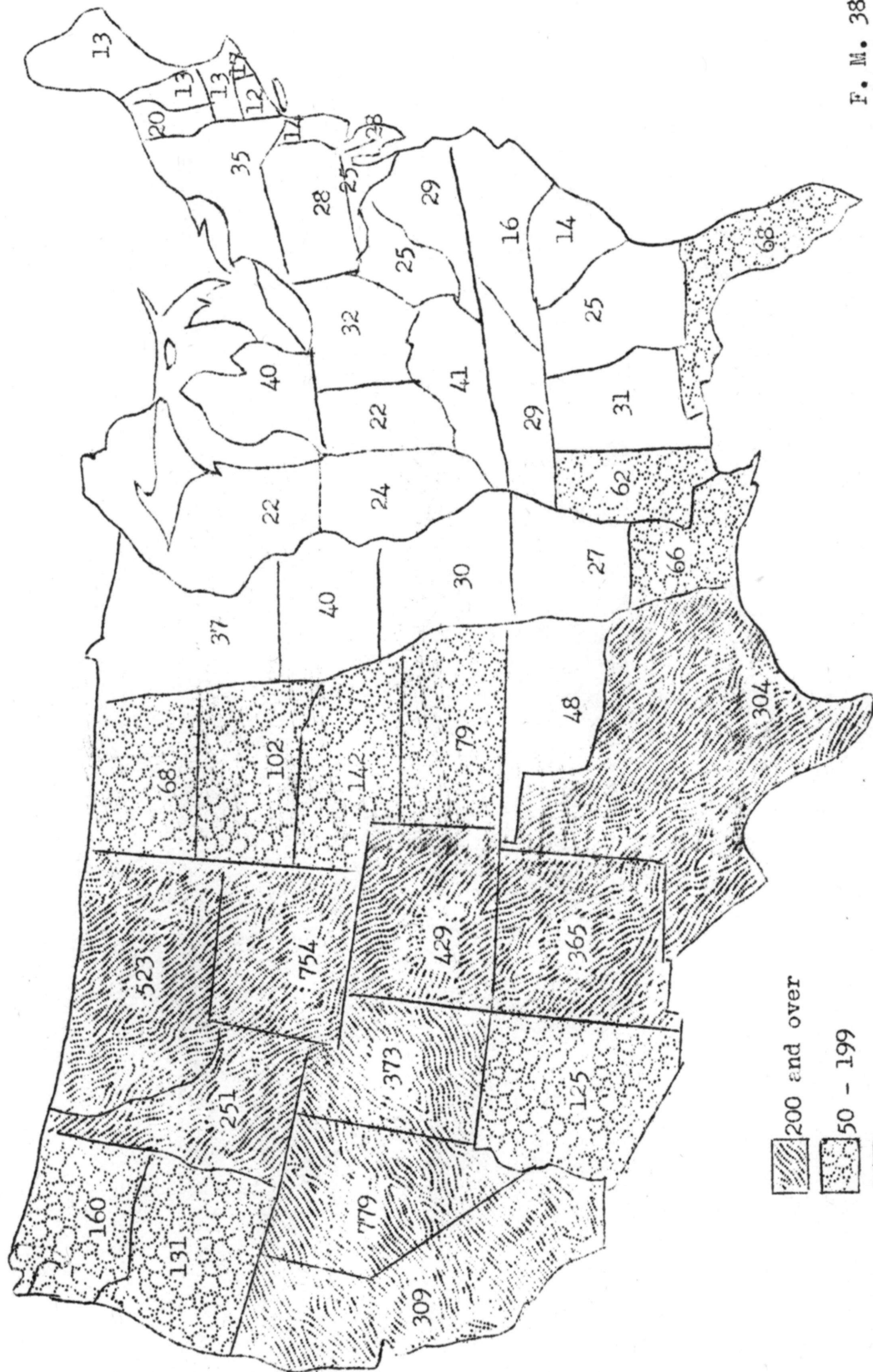


 16 and over
 8 - 15
 under 8

F. M. 38
 CRH
 12-10-47

AVERAGE NUMBER OF SHEEP KEPT PER FARM REPORTING, 1945

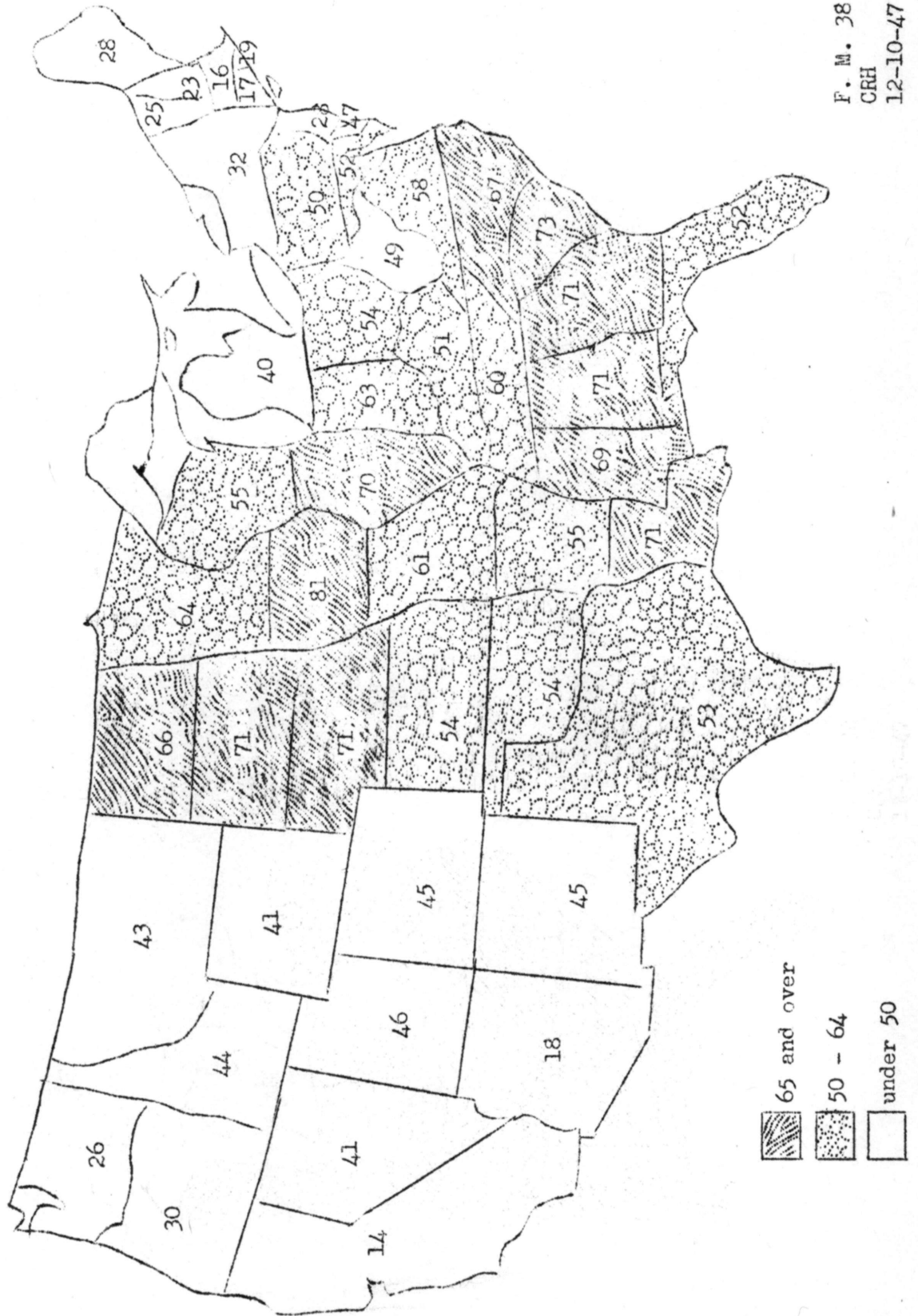
United States Average 90.3%



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CRH
12-10-47

PROPORTION OF FARMS REPORTING HOGS AND PIGS, 1945

United States Average 56.6%

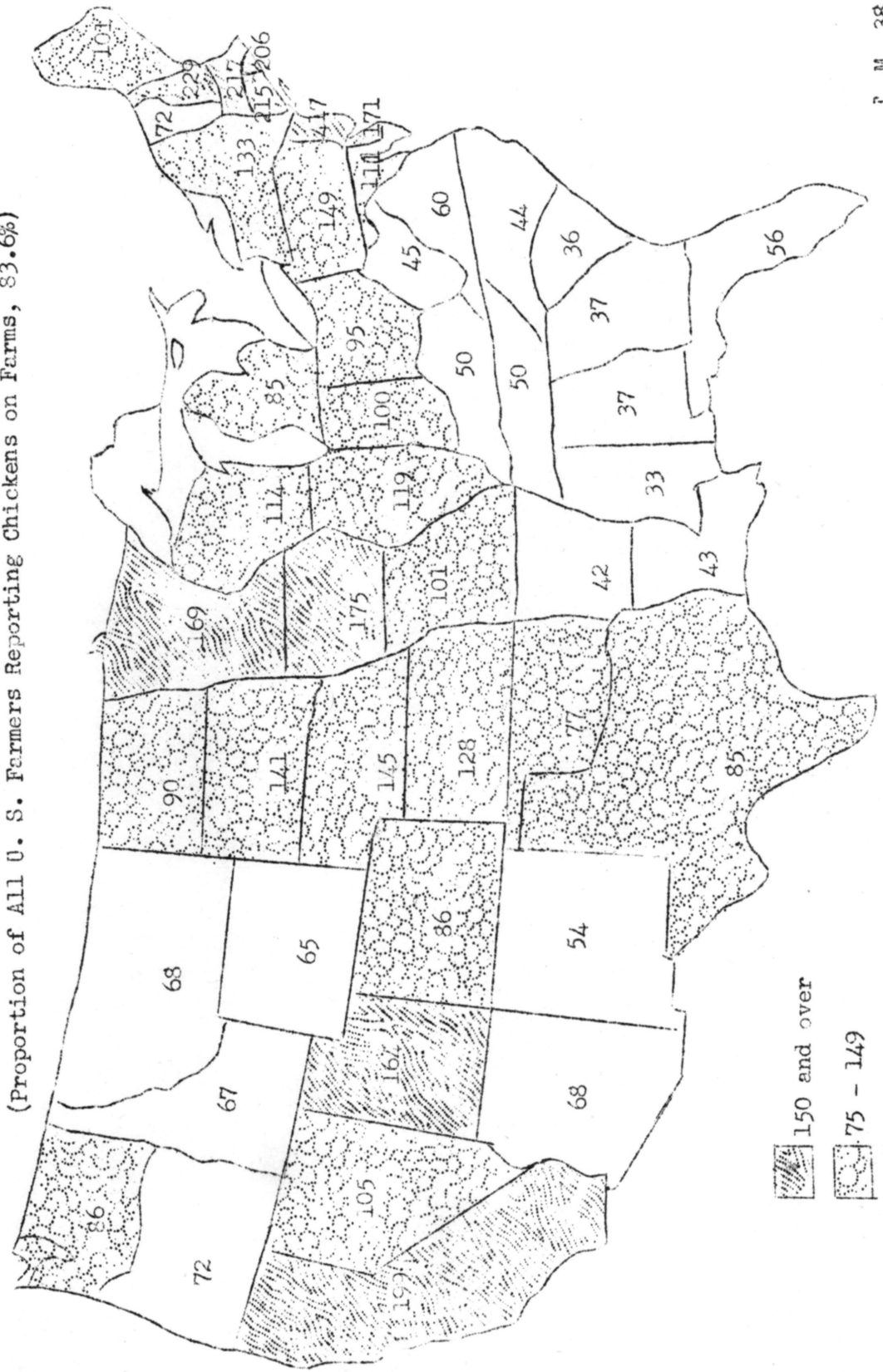





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AVERAGE NUMBER OF CHICKENS KEPT PER FARM REPORTING, 1945

United States Average 88.4%

(Proportion of All U. S. Farmers Reporting Chickens on Farms, 83.6%)



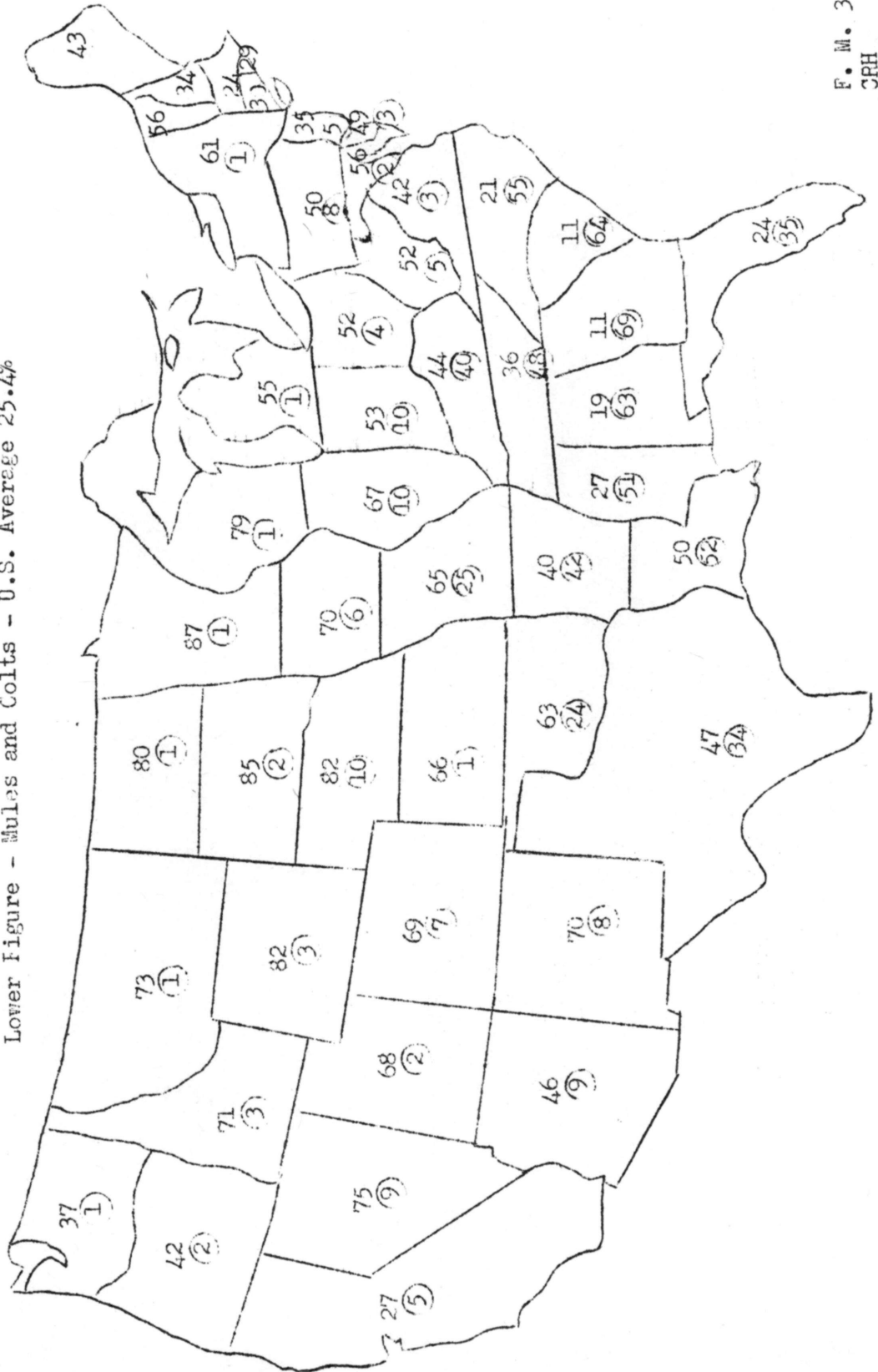
-  150 and over
-  75 - 149
-  under 75

J. M. 38
JMH
12-10-47

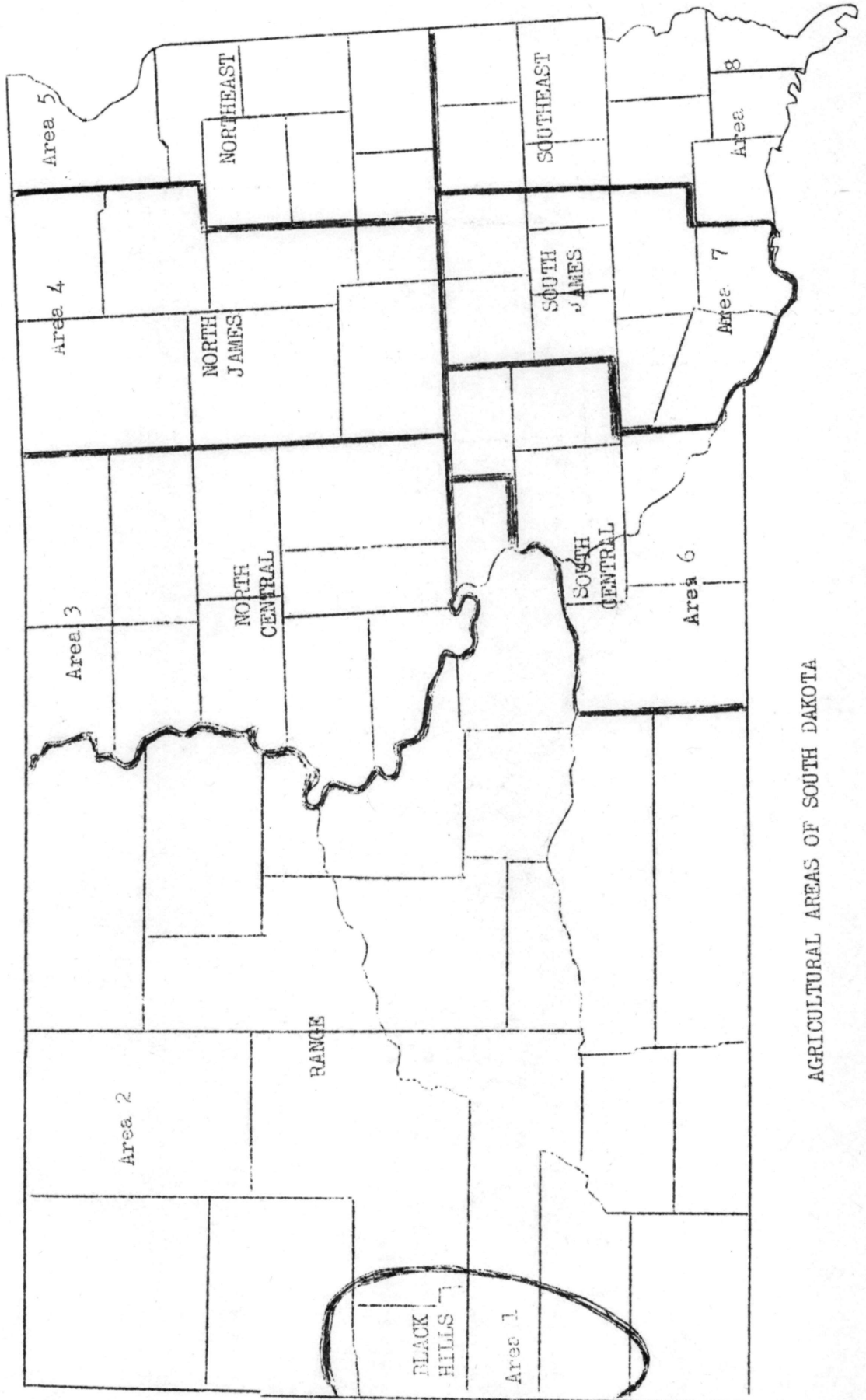
PROPORTION OF FARMS REPORTING HORSES AND MULES, 1945

Upper Figure - Horses and Colts - U.S. Average 48.3%

Lower Figure - Mules and Colts - U.S. Average 25.4%

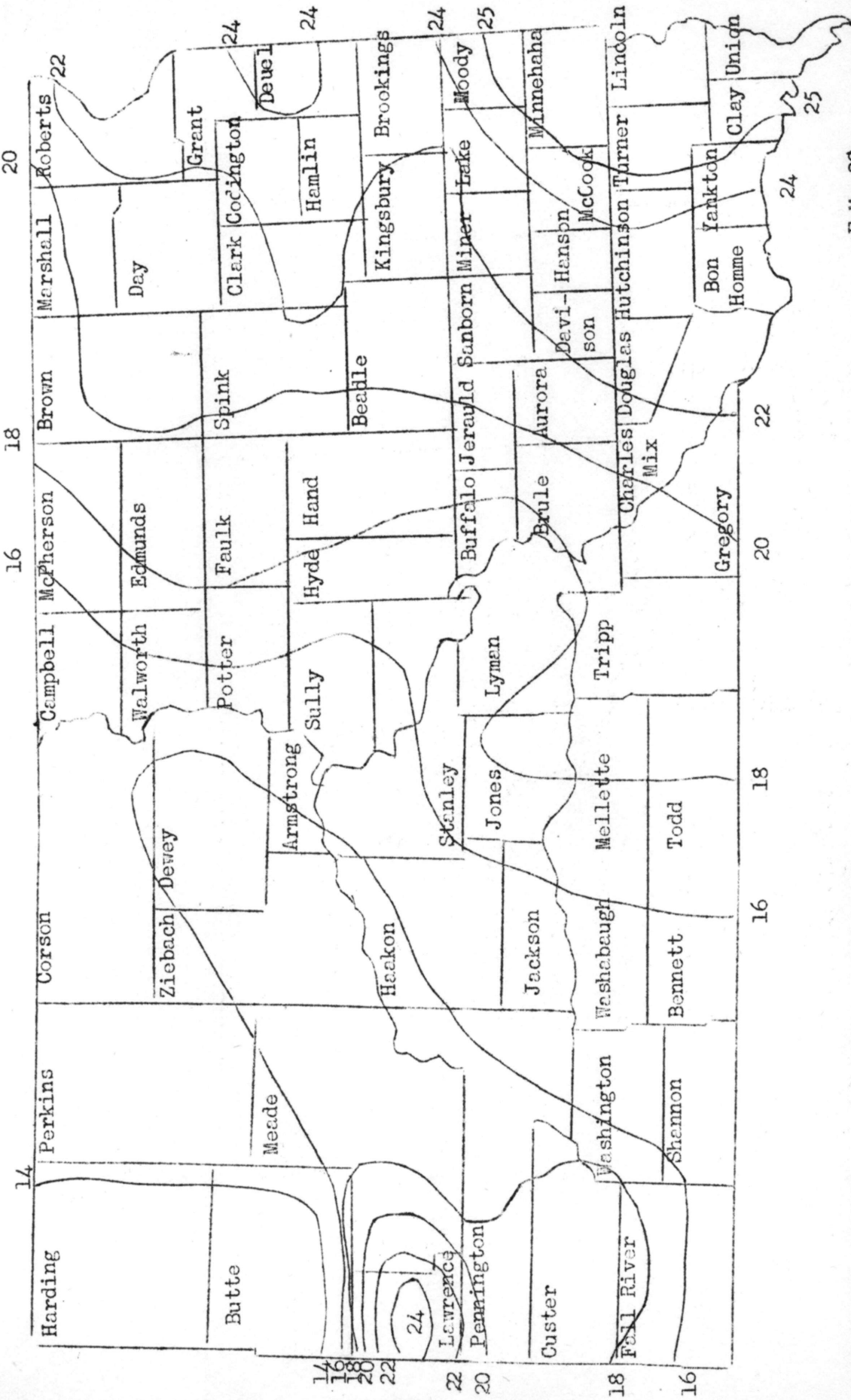


F. M. 38
CRH
12-10-47



AGRICULTURAL AREAS OF SOUTH DAKOTA

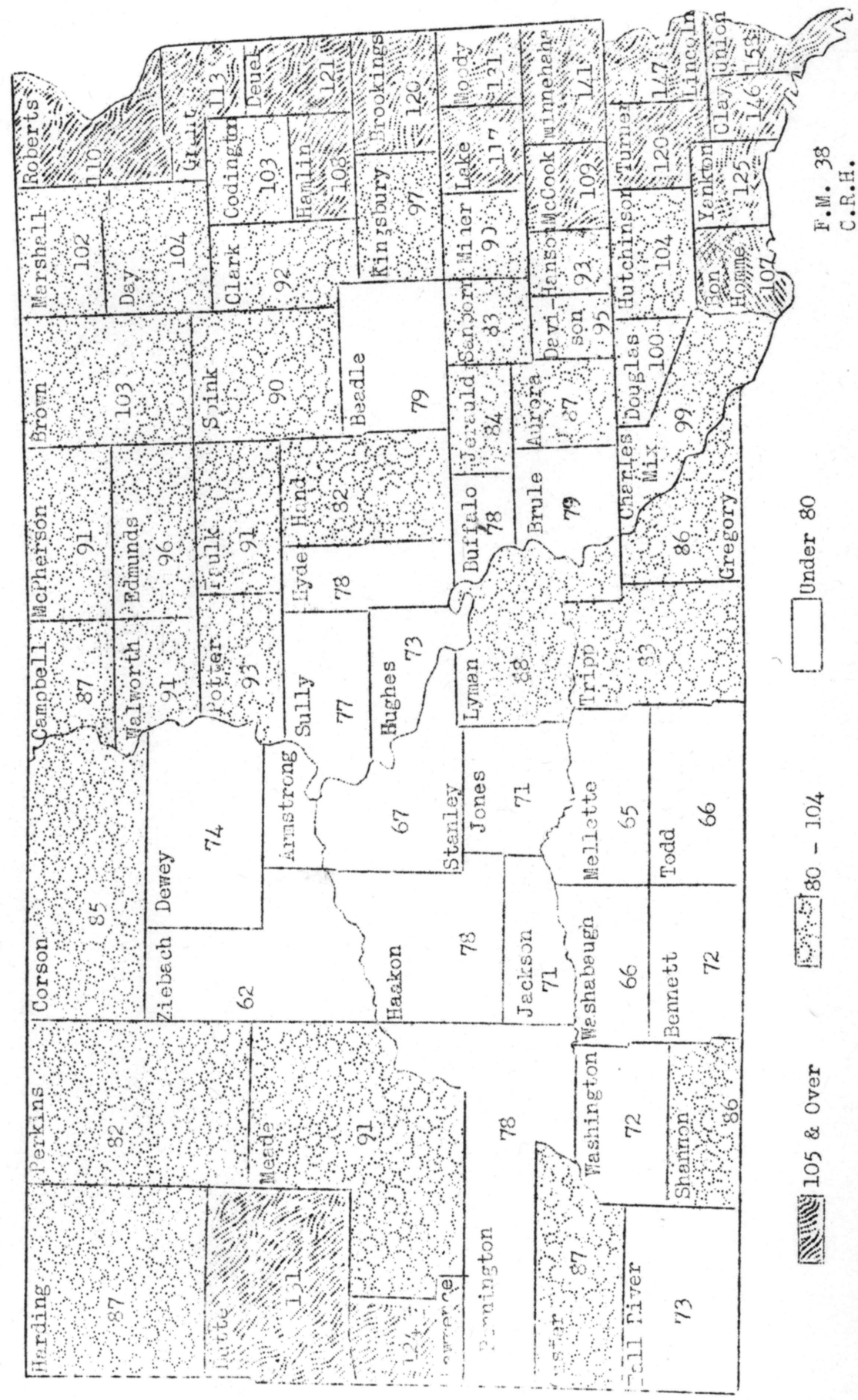
NORMAL ANNUAL PRECIPITATION IN SOUTH DAKOTA



F.M. 38
C. R. H.
1-2-47

INDEX OF CROP YIELDS, 1924-43 AVERAGE

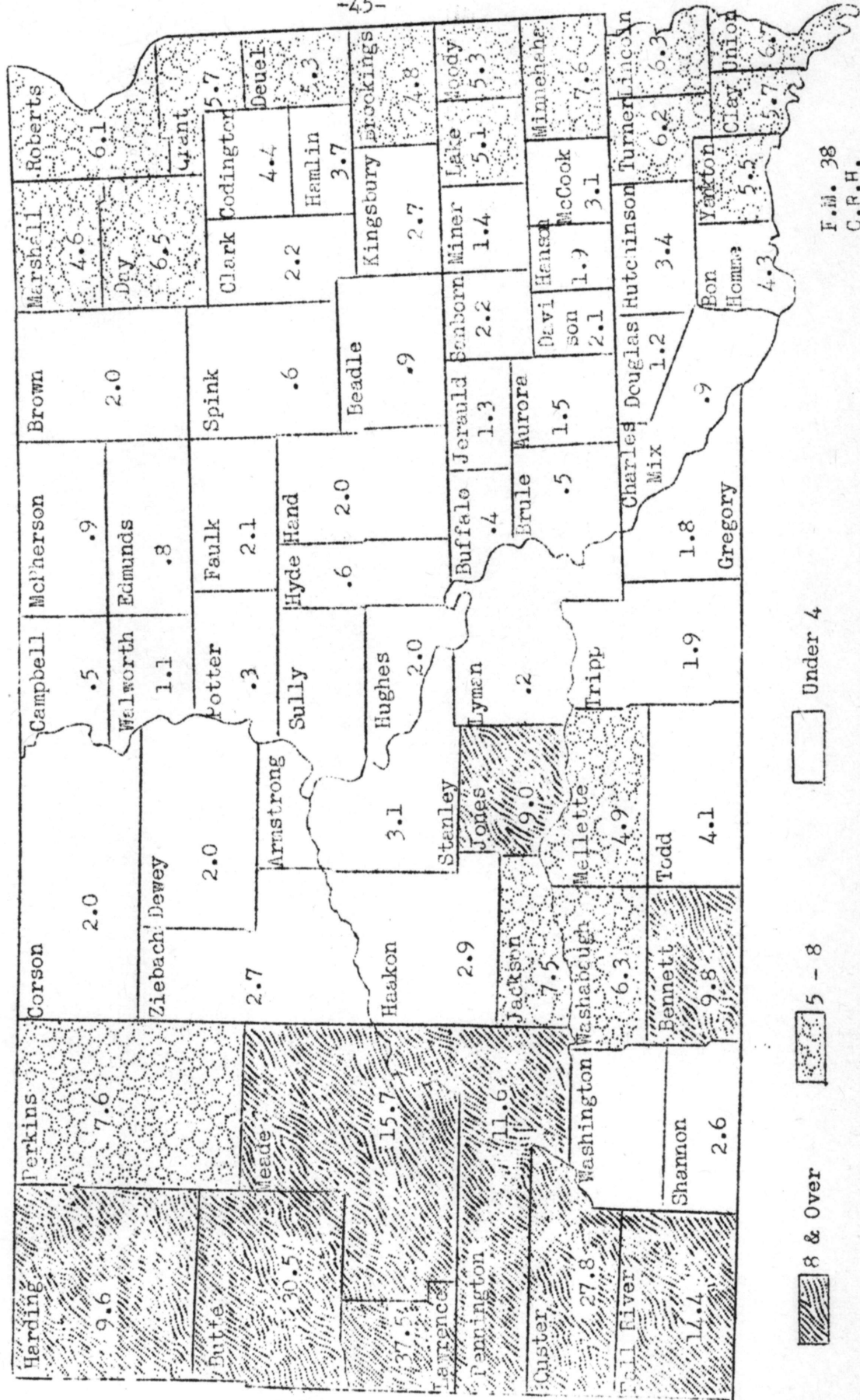
South Dakota Average 100



105 & Over
 80 - 104
 Under 80

PROPORTION OF CROPLAND USED FOR ALL TAME HAY, 1944

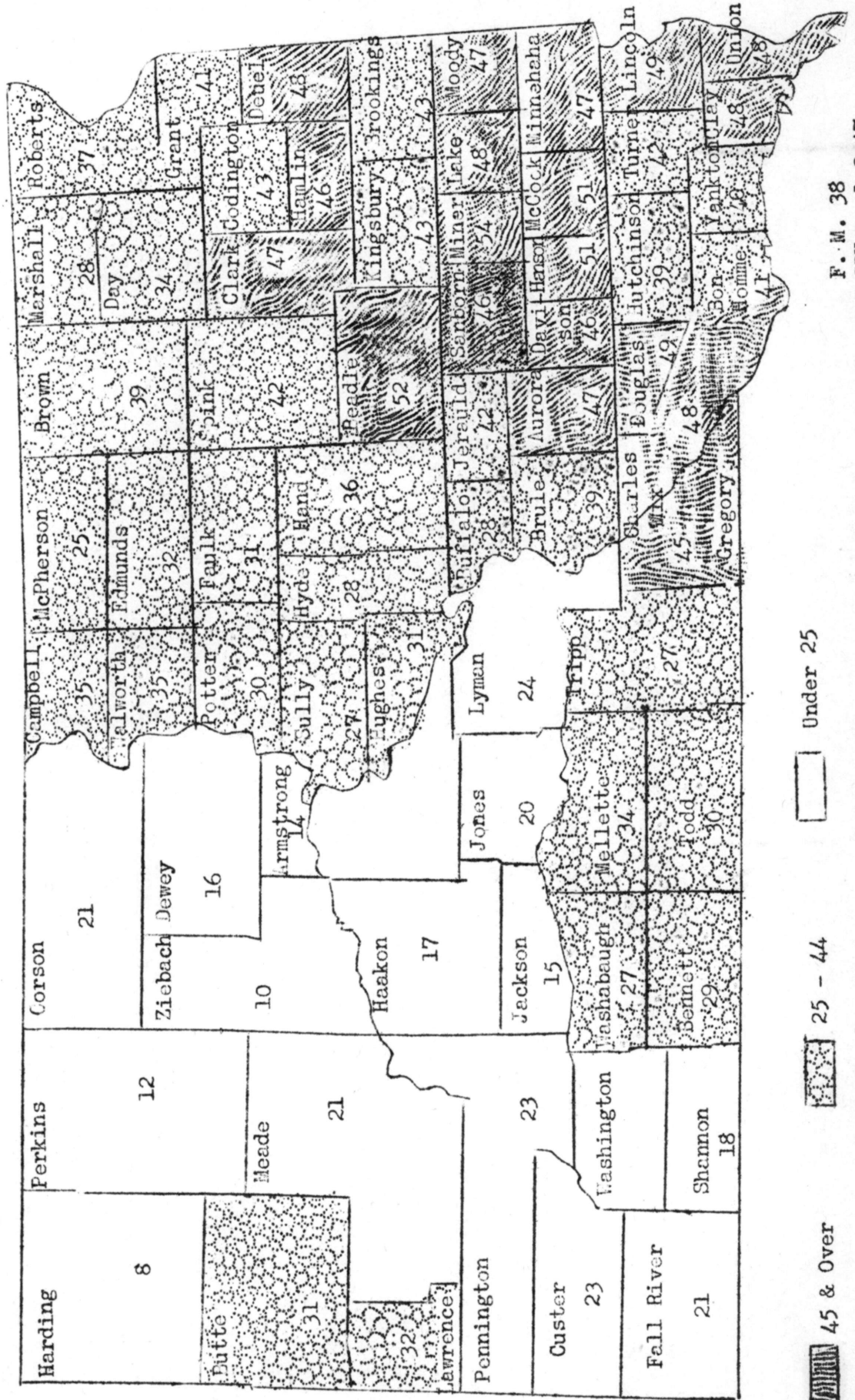
South Dakota Average 3.8%



F.M. 38
C.R.H.
1-2-47

8 & Over
 5 - 8
 Under 4

PROPORTION OF FARM OPERATORS THAT ARE TENANTS, 1945
 South Dakota Average 38%



45 & Over

25 - 44

Under 25