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Geol Survey

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AGSTONE USED IN ILLINOIS
IN 1946

BY
WALTER H. VOSKUIL, DOUGLAS F. STEVENS, AND ETHEL M. KING

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Reports of producers to the Illinois State Geological Survey show that the amount of agstone (ground limestone, dolomite, and marl) used for soil improvement in Illinois during 1946 amounted to more than 5,350,000 tons (table 1). This was 1,068,000 tons more than that used in 1945 and establishes again a new all-time high record.

With this large production of agstone, exceeding by 25 percent the record made in 1945, Illinois continued to rank first among all the states in the amount of liming materials used for soil treatment.

Table 1.--Agstone used in Illinois, 1945 and 1946^a

	1945*		1946	
	Tons	Value	Tons	Value
Produced in Illinois				
Limestone.....	2,322,240	\$2,639,769	2,895,627	\$3,401,694
Dolomite.....	1,966,821	2,009,636	2,218,337	2,394,916
Marl.....	7,527	7,400	5,460	7,135
Total produced in Illinois.....	4,296,588	4,656,805	5,119,424	5,803,745
Less marketed in other states.....	190,280	197,500	154,648	167,531
Produced and used in Illinois...	4,106,308	4,459,305	4,964,776	5,636,214
Produced in other states and used in Illinois.....	181,260	168,400	390,879	347,182
Total agstone used in Illinois...	4,287,568	\$4,627,705	5,355,655	\$5,983,396

* Revised figures.

^a Summary of canvass made by Illinois Geological Survey in cooperation with Illinois Agricultural Association and Midwest Agricultural Limestone Institute.

Table 2.--Agstone used in Illinois Annually, 1927-1946^a

Year	Tons	Value	Av.
1927	647,155	\$579,639	\$0.90
1928	565,001	511,005	.91
1929	947,798	843,693	.89
1930	868,426	740,785	.86
1931	268,874	241,376	.90
1932	164,933	140,969	.86
1933	227,466	165,667	.73
1934	491,644	319,604	.65
1935	379,555	268,139	.71
1936	1,114,466	871,862	.78
1937	1,310,513	1,279,981	.97
1938	1,251,263	1,247,150	1.00
1939	1,497,458	1,318,173	.88
1940	2,365,663	1,999,850	.84
1941	3,084,855	2,873,536	.93
1942	3,866,568	3,600,313	.93
1943	*3,236,477	*3,175,108	.98
1944	4,214,600	4,388,886	1.04
1945	*4,287,568	*4,627,705	1.08
1946	5,355,655	5,983,396	1.12

* Revised figures.

^a U. S. Bureau of Mines, 1927-29; canvass by Illinois Agricultural Association, 1930; canvass by Illinois Geological Survey, 1931-46.

The value of agstone for improving soil fertility is so firmly established that the demand for this product has caused the Illinois stone industry to produce an enormous tonnage of this material. The progressive increase in the use of agstone on Illinois farms during the years for which figures are available is shown in Table 2.

During 1946, agstone was produced in 47 of the 102 counties of the State. Of the total used during the year, 92.7 per cent was produced in Illinois.

Table 3 gives the use of agstone by counties in Illinois during 1946, showing the amount produced in Illinois and in other states. It also shows the arable land and plowable pasture in each county and the average quantity of agstone used, in pounds per acre of such land in each county. These data are from producers who reported

sales of agstone in specific counties, or are estimates by county farm advisers. Production not accounted for in the county totals is given at the bottom of the table marked "counties not specified." The total amount used in Illinois is the actual total of deliveries in Illinois reported by producers.

Table 3.--Agstone Used in Illinois, by Counties, 1945 and 1946^a

County	Total used in 1945 (Tons)	Total used in 1946 (Tons)	Produced in Illinois	Produced in other states	Acres of arable land and plowable pasture (1940 census)	Average No. pounds per acre ^b	
						1945	1946
Adams	50,000	65,000	58,905	6,095	328,009	305	399
Alexander	3,200	12,250	12,250	-	58,779	108	417
Bond	35,000	35,000	30,603	4,397	168,876	414	414
Boone	16,900	46,164	46,164	-	139,691	241	661
Brown	12,000	13,600	13,600	-	119,648	200	227
Bureau	100,000	120,000	117,118	2,882	440,808	454	544
Calhoun	18,000	16,500	16,500	-	70,886	507	466
Carroll	36,000	49,000	49,000	-	200,264	360	489
Cass	30,000	45,873	44,097	1,776	157,002	382	580
Champaign	80,000	100,000	100,000	-	560,583	285	357
Christian	75,000	110,973	106,236	4,737	373,342	402	594
Clark	58,500	74,875	74,875	-	217,376	539	689
Clay	24,600	32,426	28,079	4,347	201,735	243	321
Clinton	37,400	48,833	43,282	5,551	210,349	356	464
Coles	40,000	45,000	45,000	-	254,255	315	354
Cook	25,000	25,000	25,000	-	199,206	251	251
Crawford	30,000	25,375	24,663	712	193,868	309	262
Cumberland	25,000	34,000	33,622	378	157,832	316	431
DeKalb	75,000	70,000	70,000	-	349,131	429	401
DeWitt	13,200	21,500	21,500	-	211,909	124	203
Douglas	20,000	25,633	25,633	-	231,817	172	221
DuPage	46,600	33,800	33,800	-	116,731	796	579
Edgar	30,000	40,000	40,000	-	307,538	195	260
Edwards	13,400	21,576	11,735	9,841	108,888	247	396
Effingham	38,000	49,827	47,044	2,783	213,369	309	467
Fayette	27,200	40,024	38,513	1,511	275,732	*198	290
Ford	25,000	28,000	27,996	4	280,058	178	200
Franklin	29,100	36,906	34,276	2,630	146,843	395	503
Fulton	40,000	50,000	38,762	11,238	338,466	236	295
Gallatin	20,000	25,000	23,849	1,151	127,951	312	390
Greene	17,700	32,000	31,802	198	226,052	157	283
Grundy	20,000	34,670	34,670	-	218,241	183	318
Hamilton	14,700	25,200	14,655	10,545	179,698	135	280
Hancock	21,800	74,000	73,404	596	340,637	128	434
Hardin	13,600	10,000	10,000	-	50,649	533	395
Henderson	41,400	25,000	23,380	1,620	156,071	531	320
Henry	90,000	66,000	54,778	11,222	423,236	425	312
Iroquois	65,000	82,177	54,964	27,213	611,482	213	269
Jackson	16,300	38,000	38,000	-	188,088	173	404
Jasper	37,800	40,000	35,431	4,569	240,290	315	333

Table 3.--Agstone Used in Illinois, by Counties, 1945 and 1946^a (continued)

County	Total used in 1945 (Tons)	Total used in 1946 (Tons)	Produced in Illinois	Produced in other states	Acres of arable land and plowable pasture (1940 census)	Average No. pounds per acre ^b	
						1945	1946
Jefferson	46,000	50,000	29,046	20,954	242,802	379	412
Jersey	35,000	25,273	25,273	-	134,766	518	375
Jo Daviess	25,000	35,000	34,500	500	225,208	223	311
Johnson	14,000	22,000	22,000	-	112,452	250	391
Kane	60,100	86,814	86,814	-	255,882	469	678
Kankakee	77,000	76,000	76,000	-	348,647	441	436
Kendall	25,000	39,780	39,780	-	168,326	298	473
Knox	65,500	87,289	51,850	35,439	317,827	412	549
Lake	12,000	14,000	14,000	-	140,960	170	192
LaSalle	128,000	135,000	135,000	-	585,735	437	461
Lawrence	10,500	23,000	21,054	1,946	165,983	126	217
Lee	130,700	180,795	180,795	-	385,196	680	939
Livingston	196,900	134,466	134,466	-	595,765	661	451
Logan	46,300	78,974	75,342	3,632	346,615	267	456
McDonough	25,000	67,345	55,457	11,888	270,917	185	497
McHenry	39,900	24,251	24,251	-	262,434	305	184
McLean	110,000	112,000	112,000	-	656,782	*320	116
Macon	27,000	45,369	44,678	691	305,531	176	297
Macoupin	29,600	45,000	36,938	8,062	342,781	172	263
Madison	39,000	64,948	62,811	2,137	307,651	253	422
Marion	36,900	50,000	43,069	6,931	239,131	309	418
Marshall	36,700	21,307	21,307	-	189,489	384	225
Mason	38,800	55,000	53,142	1,858	248,797	312	442
Massac	12,100	19,150	19,150	-	89,357	272	429
Menard	20,000	27,000	26,859	141	154,392	259	349
Mercer	20,000	30,000	28,245	1,755	251,449	159	239
Monroe	40,000	60,000	60,000	-	155,971	513	769
Montgomery	70,700	112,000	102,148	9,852	322,306	437	695
Morgan	35,200	55,000	53,867	1,133	261,346	266	421
Moultrie	24,000	30,000	30,000	-	178,794	268	335
Ogle	73,700	100,000	100,000	-	383,404	385	522
Peoria	75,000	100,000	99,696	304	243,380	616	822
Perry	22,900	35,000	24,741	10,259	156,265	293	448
Piatt	45,000	50,000	50,000	-	246,223	366	403
Pike	40,000	40,000	40,000	-	341,756	235	235
Pope	5,000	10,000	10,000	-	92,321	108	216
Pulaski	5,100	12,277	12,277	-	68,920	148	356
Putnam	20,100	21,386	21,386	-	66,867	600	639
Randolph	55,000	75,000	71,066	3,934	227,475	484	659
Richland	20,000	28,675	19,541	9,134	186,383	215	308

Table 3.--Agstone Used in Illinois, by Counties, 1945 and 1946^a (concluded)

County	Total used in 1945 (Tons)	Total used in 1946 (Tons)	Produced in Illinois	Produced in other states	Acres of arable land and plowable pasture (1940 census)	Average No. pounds per acre ^b	
						1945	1946
Rock Island	40,000	60,000	59,927	73	156,111	512	769
St. Clair	75,000	88,913	87,238	1,675	258,552	579	688
Saline	19,300	38,200	30,924	7,276	145,818	264	524
Sangamon	65,000	76,660	70,536	6,124	425,644	305	360
Schuyler	7,400	12,000	11,713	287	144,306	103	166
Scott	21,000	20,152	20,152	-	103,624	404	389
Shelby	46,100	63,856	59,201	4,655	374,712	246	341
Stark	28,900	24,000	21,188	2,812	148,213	391	324
Stephenson	75,400	90,000	90,000	-	283,408	533	635
Tazewell	40,000	45,000	44,880	120	304,959	262	295
Union	20,800	35,854	35,854	-	123,799	335	579
Vermilion	70,000	80,000	79,559	441	451,146	310	355
Wabash	16,600	23,095	-	23,095	103,459	322	446
Warren	60,000	77,204	77,010	194	271,171	442	569
Washington	20,200	33,000	23,474	9,526	242,105	166	273
Wayne	44,300	60,000	21,933	38,067	330,724	267	363
White	55,000	62,650	31,300	31,350	240,726	458	521
Whiteside	100,000	127,000	126,640	360	350,544	569	724
Will	47,500	100,000	100,000	-	396,213	239	505
Williamson	15,300	26,732	19,104	7,628	128,514	237	417
Winnebago	30,000	40,412	40,412	-	219,494	274	368
Woodford	29,400	32,666	32,666	-	258,560	227	253
County not specified	*109,268	89,980	79,330	10,650	-	-	-
Total	*4,287,568	5,355,655	4,964,776	390,879	25,133,474	*341 (Av.)	426 (Av.)

* Revised figures.

^a Compiled from canvass made by Illinois Geological Survey, in cooperation with Illinois Agricultural Association and Midwest Agricultural Limestone Institute.^b Calculated from columns 5 and 6.

Table 4.--Agstone Produced in Other States and Used in Illinois, 1941-1946^a

Year	Tons sold in Illinois	Percent of total Illinois consumption
1941	95,226	3.2
1942	171,035	4.5
1943	166,518	5.3
1944	314,800	7.5
1945	181,200	4.3
1946	390,879	7.3

^a From canvass made by Illinois Geological Survey.

Table 4 gives the total amount of agstone produced in other states but marketed in Illinois. Table 5 gives the total amount produced in Illinois which was marketed in other states.

The map shows the average amount of agstone used in each county in pounds per acre of arable land and plowable pasture.

Table 5.--Agstone Produced in Illinois and Marketed in Other States, 1941-1946^a (In Tons)

Year	Wisconsin	Iowa	Missouri	Kentucky	Indiana	Other states ^b	Total
1941	--	100	867	940	1,800	1,125	4,832
1942	450	--	203	9,700	28,811	19,853	59,017
1943	--	11,000	1,192	1,000	34,579	28,200	75,971
1944	--	7,683	8	8,900	46,302	110,318	173,211
1945	--	--	2,700	23,600	46,000	117,900	190,200
1946	5,140	5	208	--	46,495	102,800	154,648

^a From canvass made by Illinois Geological Survey.

^b Marketed outside Illinois, destination seldom specified.

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