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No Tillage Use for Crop Production in Kentucky Counties in 1998

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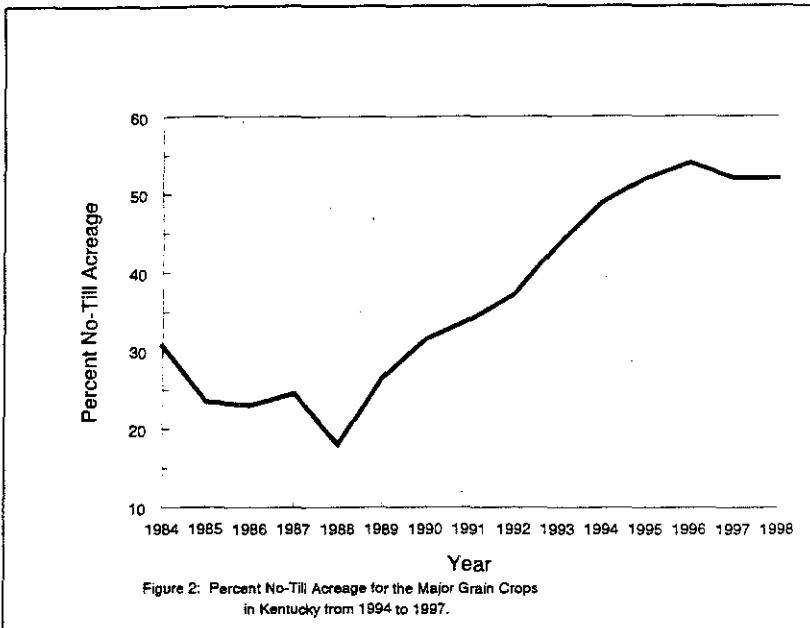
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decreased to 52%[‡] in 1997, and remains at 52% in 1998 (Fig. 2).

Table 2 shows the percentage of no-tilled corn,



soybeans, and small grains for Kentucky on a county by county basis for 1998.

Among the crops, double-cropped soybeans decreased slightly in 1998 to 89%, compared to 94% in 1997. For full-season soybeans, the percentage under no-till increased from 49% in 1997 to 51% in 1998. Full-season corn, increased from 49% in 1994 to 55% in 1996 but dropped slightly to 52% in 1997 and 1998. No-tilled small grains, increased from 1994 (22%) to 1996 (27%) but dropped slightly to 26% in 1997 and 25% in 1998.

Nine Kentucky counties increased their no-tilled full-season soybean production by 10% or greater. Mason Co. led the way by increasing their production from 24% in 1997 to 67% in 1998. McCracken Co. increased from 0% in 1997 to 40% in 1998. Ten counties decreased their no-till full-season soybean production by 10% or greater increased their production by 10% or

[‡] Soil Science News & Views Vol. 19, No. 4, 1998 reported 58% for 1997. 52% is the correct percentage.

greater with in 1998. For full-season corn, 5 counties Webster and McCracken increasing by 24%. Eight counties decreased their production by 10% or greater. For double cropped soybeans, only 2 counties increased their acreage by 10% or greater, while 8 counties decreased the acreage. For small grains, two counties increased while 8 counties decrease their acreage by 10% or greater.

The leading 11 counties in Kentucky, in terms of no-tillage planting of the major grain crops, are listed in Table 3. As can be seen, these counties average slightly below 70% and as high as 81% under no tillage production, which is a very impressive.

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Table 1: Leading States in Percent of Cropland Acres Planted to No-Till in 1996 and 1994.

State	% No Tillage			
	1998	1997	1996	1994
Kentucky	48	48	51	44
Maryland	48	45	46	41
Tennessee	42	43	44	42
Ohio	42	39	39	37
Delaware	38	38	38	37
West Virginia	38	36	37	35

Table 2: No-Till Planting of Corn, Soybeans, and Small Grains in Kentucky - 1998.

	Acreage of corn, soybeans, and small grains			% No-Till Planted			Small Grains
	Total	NT	%	Corn	Soybeans		
	Acres	Acres	NT	Full Season	Full Season	Double Crop	
Adair	11,600	5,800	50	61	50	50	34
Allen	4,880	2,000	41	27	45	70	60
Anderson	2,850	2,050	72	73	67	0	0
Ballard	76,500	31,000	41	35	45	50	10
Barren	55,000	31,150	57	44	50	100	7
Bath	15,000	4,800	32	32	32	100	0
Bell	810	50	6	17	0	0	0
Boone	3,097	615	20	17	22	50	18
Bourbon	27,950	12,650	45	50	83	100	18
Boyd	508	0	0	0	0	0	0
Boyle	14,400	8,960	62	71	62	100	47
Bracken	1,525	1,050	69	70	0	0	0
Breathitt	514	0	0	0	0	0	0
Breckinridge	68,000	39,000	57	62	42	79	44
Bullitt	12,000	4,000	33	38	25	75	0
Butler	49,000	18,700	38	33	42	70	0
Caldwell	41,000	19,000	46	50	52	100	15
Calloway	110,550	49,050	44	42	52	82	14
Campbell	687	225	33	23	48	100	0
Carlisle	67,500	44,425	66	75	65	82	70
Carroll	3,150	1,100	35	36	38	0	0
Carter	1,675	50	3	3	0	0	0
Casey	18,200	6,675	37	44	45	75	22
Christian	166,000	79,000	48	52	42	93	4
Clark	9,390	4,840	52	72	59	100	7
Clay	2,000	0	0	0	0	0	0
Clinton	5,900	2,600	44	37	50	83	71
Crittenden	26,500	11,500	43	46	46	100	23
Cumberland	5,080	1,350	27	38	20	67	9
Daviess	178,000	75,500	42	49	44	50	0
Edmonson	8,700	4,200	48	43	51	100	40
Elliott	725	85	12	12	0	0	0
Estill	4,825	330	7	5	13	0	0
Fayette	10,400	4,200	40	58	29	0	0
Fleming	9,480	1,507	16	18	20	20	0
Floyd	560	0	0	0	0	0	0
Franklin	4,550	1,050	23	48	31	100	5
Fulton	97,471	65,982	68	39	71	67	51
Gallatin	3,600	250	7	16	0	0	0
Garrard	5,575	2,200	39	48	63	100	20
Grant	753	226	30	41	14	100	16
Graves	163,000	97,600	60	70	60	92	10
Grayson	34,400	15,500	45	51	41	100	37
Green	6,157	1,828	30	25	40	90	25

	Acreage of corn, soybeans, and small grains			% No-Till Planted			Small Grains
	Total	NT	%	Corn	Soybeans		
	Acres	Acres	NT	Full Season	Full Season	Double Crop	
Greenup	3,230	0	0	0	0	0	0
Hancock	22,227	9,856	44	50	34	100	22
Hardin	69,539	44,732	64	81	83	96	17
Harlan	550	0	0	0	0	0	0
Harrison	15,000	6,000	40	54	60	100	0
Hart	7,370	3,450	47	50	0	100	54
Henderson	167,000	99,550	60	31	53	85	19
Henry	18,000	9,000	50	49	25	100	10
Hickman	103,700	81,895	79	80	75	95	65
Hopkins	63,000	33,000	52	65	20	80	0
Jackson	2,400	260	11	11	0	0	0
Jefferson	3,720	1,685	45	35	57	80	26
Jessamine	2,137	785	37	32	40	100	19
Johnson	760	0	0	0	0	0	0
Kenton	285	115	40	40	50	0	0
Knott	625	0	0	0	0	0	0
Knox	4,450	2,050	46	43	50	67	67
Larue	28,000	21,300	76	75	75	100	49
Laurel	4,925	2,305	47	59	73	100	0
Lawrence	1,215	65	5	5	0	0	0
Lee	850	45	5	6	0	0	0
Leslie	350	0	0	0	0	0	0
Letcher	100	0	0	0	0	0	0
Lewis	15,000	1,200	8	15	0	0	0
Lincoln	8,000	2,500	31	38	25	50	0
Livingston	17,100	5,450	32	20	17	79	10
Logan	159,430	101,185	63	75	25	95	20
Lyon	10,200	7,300	72	65	80	91	67
McCracken	8,266	1,400	17	68	40	0	0
McCreary	2,000	0	0	0	0	0	0
McLean	31,490	15,545	49	24	24	44	2
Madison	32,600	13,700	42	34	0	0	0
Magoffin	75	0	0	0	0	0	0
Marion	14,875	4,165	28	41	54	50	46
Marshall	38,900	18,300	47	60	28	100	0
Martin	423	0	0	0	0	0	0
Mason	94,100	24,200	26	35	67	50	12
Meade	24,608	16,204	66	75	51	100	5
Menifee	1,175	375	32	20	100	0	0
Mercer	15,800	12,100	77	76	80	100	73
Metcalfe	9,700	2,150	22	16	33	37	20
Monroe	14,600	5,700	39	44	50	0	32
Montgomery	8,050	1,235	15	25	15	0	0
Morgan	1,600	520	33	33	0	0	0
Muhlenberg	34,500	18,500	54	50	53	83	14
Nelson	18,000	14,600	81	63	68	100	80

	Acreage of corn, soybeans, and small grains			% No-Till Planted			Small Grains
	Total	NT	%	Corn	Soybeans		
	Acres	Acres	NT	Full Season	Full Season	Double Crop	
Nicholas	2,650	350	13	23	0	0	0
Ohio	67,250	24,400	36	59	47	80	50
Oldham	9,450	6,425	68	60	71	82	72
Owen	1,042	357	34	41	0	0	15
Owsley	1,490	0	0	0	0	0	0
Pendleton	6,250	1,550	25	48	50	57	0
Perry	75	0	0	0	0	0	0
Pike	210	0	0	0	0	0	0
Powell	1,839	0	0	0	0	0	0
Pulaski	21,800	10,280	47	38	67	71	41
Robertson	1,675	50	3	17	0	0	0
Rockcastle	4,291	1,045	24	18	60	66	42
Rowan	2,130	200	9	13	0	0	0
Russell	9,750	6,150	63	68	100	100	0
Scott	4,300	1,289	30	30	30	0	30
Shelby	45,000	31,800	71	67	52	95	94
Simpson	94,300	56,605	60	64	60	98	10
Spencer	10,220	4,100	40	40	30	84	40
Taylor	23,600	15,500	66	83	61	68	32
Todd	108,130	72,580	67	66	65	100	54
Trigg	34,800	24,800	71	80	67	100	24
Trimble	7,350	2,800	38	40	38	80	24
Union	145,000	78,500	54	28	80	100	50
Warren	74,000	52,500	71	68	82	94	50
Washington	6,100	3,100	51	50	43	57	57
Wayne	25,680	14,125	55	60	65	52	13
Webster	102,730	49,888	49	59	60	81	9
Whitley	3,300	450	14	20	0	0	0
Wolfe	2,034	90	4	8	0	0	0
Woodford	4,980	1,800	36	38	17	100	15
State Total	3,230,813	1,695,254					
	State Average %		52	52	51	87	25

Table 3:

**Eleven Leading Counties in
Percentage of Major Grain Crops
Produced Under No Tillage in 1998.**

County	% No Till
Nelson	81
Hickman	79
Mercer	77
Larue	76
Lyon	72
Shelby	71
Warren	71
Trigg	71
Bracken	69
Oldham	68
Fulton	68



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