



National Resources Inventory 2003 Annual NRI

Highly Erodible and Non-Highly Erodible Cropland

February 2007

Estimates presented here are based upon the latest information from the National Resources Inventory (NRI). The NRI is a longitudinal sample survey based upon scientific statistical principles and procedures. It is conducted by the U.S. Department of Agriculture's Natural Resources Conservation Service (NRCS), in cooperation with Iowa State University's Center for Survey Statistics and Methodology. These results are based upon the 2003 Annual NRI, which statistically updates 1997 NRI results with data collected during 2000 – 2003. The NRI was conducted on a five-year cycle during the period 1982 to 1997, but now is conducted annually. NRI data were collected every five years for 800,000 sample sites; annual NRI data collection occurs at slightly less than 25 percent of these same sample sites. Current estimates cover the contiguous 48 states. Future estimates will include Hawaii, Alaska, the Caribbean, and selected Pacific Basin islands.

NRI data release procedures are affected by implementation of an annual data collection approach, because the scale of NRI estimates is affected by these reduced sample sizes. Estimates are being released when they meet NRI statistical standards and are scientifically credible in accordance with NRCS policy, and in accordance with OMB and USDA Quality of Information Guidelines.

The 2003 Annual NRI data are suitable for national, many regional, and some state level analyses. Selected state-level results are reported here. These results will be supplemented in 2008 with additional estimates that compare net change with previous inventories.

Until these supplements are released, direct comparisons between 1997 and 2003 NRI estimates to determine change or trends will produce incorrect inferences and is scientifically invalid because:

1. There have been improvements in statistical estimation techniques and procedures between 1997 and 2003.
2. Data from previous inventory cycles were reviewed (edited) concurrently with the 2003 NRI data collection effort.

Margins of error are reported for each NRI estimate and must be considered at all scales of analysis. The margin of error is used to construct the 95 percent confidence interval for the estimate. The lower bound of the interval is obtained by subtracting the margin of error from the estimate; the upper bound is obtained by adding the margin of error to the estimate. A 95 percent confidence interval means that in repeated samples from the same population, 95 percent of the time the true underlying population parameter will be contained within the lower and upper bounds of the interval. In the following tables, an asterisk (*) replaces the estimate if the margin of error is greater than the estimate. If the margin of error is greater than the estimate, the confidence interval includes zero, and the estimate should not be used.

2003 Highly Erodible (HEL) and Non-Highly Erodible (Non-HEL) Cropland by State, in Thousands of Acres, with Margins of Error

State	HEL Cropland Eroding At or Below Soil Loss Tolerance Rates	HEL Cropland Eroding Above Soil Loss Tolerance Rates	Total HEL Cropland	Non-HEL Cropland Eroding At or Below Soil Loss Tolerance Rates	Non-HEL Cropland Eroding Above Soil Loss Tolerance Rates	Total Non-HEL Cropland
Alabama	287.0 ±85.9	373.9 ±85.0	660.9 ±127.8	1109.8 ±133.0	738.3 ±141.4	1848.1 ±182.8
Arizona	470.2 ±85.7	365.5 ±96.7	835.7 ±114.8	74.6 ±33.1	23.6 ±23.3	98.2 ±43.6
Arkansas	119.8 ±45.6	160.8 ±57.8	280.6 ±79.2	6056.5 ±472.5	1184.9 ±196.3	7241.4 ±482.9
California	390.4 ±196.0	167.1 ±67.5	557.5 ±201.1	8754.2 ±684.6	156.5 ±107.2	8910.7 ±709.3
Colorado	2023.6 ±382.8	4399.1 ±741.2	6422.7 ±699.9	1327.0 ±268.5	598.3 ±135.2	1925.3 ±293.3
Connecticut	34.5 ±17.6	14.8 ±9.6	49.3 ±21.5	102.1 ±23.3	20.8 ±10.8	122.9 ±27.0
Delaware	*	14.9 ±9.8	17.6 ±9.7	404.8 ±36.9	35.1 ±15.7	439.9 ±34.8
Florida	11.1 ±10.6	*	54.5 ±46.6	2581.1 ±373.8	237.6 ±104.4	2818.7 ±374.7
Georgia	202.0 ±72.3	248.3 ±74.2	450.3 ±106.0	2346.0 ±282.9	1355.6 ±179.2	3701.6 ±260.0
Idaho	803.4 ±170.8	1374.2 ±189.0	2177.6 ±223.2	2529.9 ±239.1	745.1 ±177.7	3275.0 ±279.0
Illinois	599.1 ±107.5	3027.3 ±186.9	3626.4 ±197.8	17762.3 ±324.1	2591.8 ±238.6	20354.1 ±329.7
Indiana	599.7 ±109.6	1312.7 ±142.4	1912.4 ±185.6	9987.0 ±291.8	1416.2 ±161.9	11403.2 ±283.5

State	HEL Cropland Eroding At or Below Soil Loss Tolerance Rates	HEL Cropland Eroding Above Soil Loss Tolerance Rates	Total HEL Cropland	Non-HEL Cropland Eroding At or Below Soil Loss Tolerance Rates	Non-HEL Cropland Eroding Above Soil Loss Tolerance Rates	Total Non-HEL Cropland
Iowa	1495.8 ±196.5	5691.1 ±302.4	7186.9 ±310.4	16426.4 ±408.8	1897.8 ±199.0	18324.2 ±366.7
Kansas	5875.9 ±683.9	2224.8 ±318.4	8100.7 ±820.3	16396.9 ±819.1	1968.7 ±299.2	18365.6 ±884.0
Kentucky	2159.1 ±202.7	824.8 ±126.9	2983.9 ±194.0	2299.0 ±175.6	195.6 ±56.9	2494.6 ±194.7
Louisiana	141.4 ±58.5	101.4 ±50.4	242.8 ±73.6	4444.9 ±211.1	747.3 ±152.1	5192.2 ±229.0
Maine	67.9 ±33.9	30.9 ±29.0	98.8 ±42.6	260.1 ±66.7	25.6 ±22.5	285.7 ±64.2
Maryland	218.0 ±50.7	298.6 ±45.8	516.6 ±59.2	912.2 ±78.0	87.8 ±23.9	1000.0 ±79.9
Massachusetts	52.1 ±21.4	6.6 ±5.7	58.7 ±22.8	178.2 ±44.2	14.8 ±12.0	193.0 ±44.0
Michigan	300.7 ±78.3	222.3 ±54.9	523.0 ±108.4	6430.3 ±258.5	1143.9 ±181.2	7574.2 ±269.9
Minnesota	593.3 ±176.3	916.8 ±196.7	1510.1 ±252.5	12496.0 ±663.7	7093.5 ±558.2	19589.5 ±552.1
Mississippi	254.6 ±63.9	468.6 ±117.2	723.2 ±137.8	3097.1 ±242.0	1155.2 ±202.0	4252.3 ±251.2
Missouri	2595.3 ±303.0	2844.2 ±257.1	5439.5 ±372.3	7258.6 ±348.7	979.8 ±132.3	8238.4 ±355.1
Montana	5770.3 ±507.7	2982.8 ±504.7	8753.1 ±754.6	5318.4 ±644.7	455.1 ±206.0	5773.5 ±670.1
Nebraska	2777.2 ±290.9	3798.8 ±391.4	6576.0 ±481.6	11857.8 ±400.8	1118.5 ±221.7	12976.3 ±404.9

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Nevada	223.4 ±126.3	48.4 ±35.8	271.8 ±126.6	360.6 ±112.7	*	364.3 ±113.4
New Hampshire	28.0 ±14.5	1.5 ±1.4	29.5 ±14.5	91.8 ±24.0	*	95.1 ±24.4
New Jersey	66.3 ±22.0	59.0 ±21.1	125.3 ±30.3	324.7 ±58.9	77.9 ±23.3	402.6 ±55.9
New Mexico	433.8 ±110.9	946.1 ±156.5	1379.9 ±201.1	127.0 ±47.6	41.8 ±32.2	168.8 ±46.3
New York	1019.8 ±143.7	656.5 ±106.7	1676.3 ±173.8	3256.6 ±218.5	426.0 ±109.6	3682.6 ±205.3
North Carolina	740.5 ±154.1	568.9 ±109.5	1309.4 ±183.2	3663.9 ±266.5	539.5 ±107.9	4203.4 ±268.1
North Dakota	2112.1 ±261.5	2470.9 ±288.5	4583.0 ±293.8	12557.9 ±558.4	7125.6 ±542.9	19683.5 ±513.4
Ohio	1137.7 ±159.0	957.7 ±106.8	2095.4 ±209.1	8469.6 ±293.2	678.3 ±98.4	9147.9 ±243.0
Oklahoma	1077.2 ±212.0	1129.9 ±146.3	2207.1 ±250.0	5758.7 ±352.1	1005.5 ±229.3	6764.2 ±361.7
Oregon	319.1 ±74.0	413.3 ±91.1	732.4 ±131.1	2587.3 ±236.3	381.3 ±114.3	2968.6 ±288.4
Pennsylvania	1768.1 ±151.7	1329.3 ±137.0	3097.4 ±173.2	1801.8 ±221.9	225.1 ±52.1	2026.9 ±220.4
Rhode Island	*	0.0 ±0.0	*	12.0 ±6.0	7.9 ±6.5	19.9 ±11.0
South Carolina	150.5 ±31.7	63.0 ±34.3	213.5 ±39.0	1900.7 ±125.5	253.7 ±79.1	2154.4 ±125.9

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South Dakota	1043.0 ±241.4	1277.8 ±235.1	2320.8 ±344.8	12578.7 ±488.2	2187.1 ±264.6	14765.8 ±443.9
Tennessee	1186.2 ±135.4	899.5 ±125.6	2085.7 ±172.1	2376.0 ±201.4	288.3 ±95.0	2664.3 ±187.2
Texas	2611.5 ±411.5	6383.6 ±439.8	8995.1 ±547.2	10898.5 ±646.5	5668.7 ±532.4	16567.2 ±612.2
Utah	304.8 ±123.5	252.2 ±90.0	557.0 ±172.7	984.3 ±277.9	140.8 ±66.5	1125.1 ±271.6
Vermont	134.8 ±27.1	43.1 ±20.3	177.9 ±28.9	376.9 ±62.6	31.7 ±13.5	408.6 ±61.2
Virginia	971.4 ±98.1	341.9 ±72.5	1313.3 ±123.9	1127.4 ±131.2	421.7 ±99.1	1549.1 ±132.9
Washington	436.3 ±127.6	2338.9 ±343.7	2775.2 ±364.6	2313.2 ±370.9	1405.4 ±320.1	3718.6 ±439.2
West Virginia	391.6 ±113.9	76.6 ±46.1	468.2 ±115.8	347.4 ±67.7	*	352.4 ±67.4
Wisconsin	1384.7 ±147.9	1609.0 ±221.9	2993.7 ±233.8	6539.6 ±255.3	770.3 ±126.1	7309.9 ±229.2
Wyoming	720.1 ±146.9	319.2 ±108.9	1039.3 ±167.4	907.1 ±201.1	214.7 ±162.0	1121.8 ±258.7

Note: A * indicates that the margin of error is greater than the estimate.

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