

SUBJECT: SOIL EROSION
 CATEGORY: USLE IN RELATION TO "T"*
 QUALIFIER: 1982, 1987, 1992, 1997 CULTIVATED CROPLAND
 REPORTING UNIT: ACRES, TONS/ACRE/YEAR, TOTAL TONS
 GEOGRAPHIC UNIT: STATE OF MISSOURI

TABLE: SUMMARY REVIEW OF SHEET AND RILL EROSION ON CULTIVATED CROPLAND, 1982 -1997

	1982	1987	1992	1997
Acres of Cultivated Cropland	13,121,300	12,647,000	10,991,100	10,513,300
Average USLE Soil Loss Rate On Cultivated Cropland (tons/acre/year)	10.9	8.4	6.6	5.6
Total Soil Loss On Cultivated Cropland (total tons)	142,649,800	105,754,100	72,259,400	59,097,100
Acres of Cultivated Cropland Eroding Above "T"	7,214,100	6,152,100	4,572,800	3,934,400
Average USLE Soil Loss Rate On Cultivated Cropland Eroding Above "T" (tons/acre/year)	17.4	14.7	12.2	11.0
Total Soil Loss On Cultivated Cropland Eroding Above "T" (total tons)	125,677,000	90,194,600	56,003,800	43,274,300

- USLE - Universal Soil Loss Equation. This equation estimates average annual soil loss from sheet and rill erosion. Location specific data for the field in which the NRI sample point falls or that portion of the field surrounding the point that would be considered in conservation planning are used in the NRI calculation. "T" Factor - The soil loss factor used in conjunction with the USLE. It is the maximum rate of annual soil erosion that will permit crop productivity to be sustained economically and indefinitely.

SOURCE: NATIONAL RESOURCES INVENTORY (DECEMBER 2000)