

SUBJECT: SOIL EROSION

CATEGORY: USLE – RELATION TO "T" VALUE *

QUALIFIERS: 1997 BROAD LAND COVER/USE SUBCATEGORIES – CULTIVATED CROPLAND, NONCULTIVATED CROPLAND,** PASTURELAND AND CRP***

REPORTING UNIT: AREA (ACRES IN THOUSANDS)

GEORAPHIC AREA: STATE OF MISSOURI

TABLE: ESTIMATED AVERAGE ANNUAL SHEET AND RILL EROSION IN RELATION TO "T" FOR SELECTED RURAL LAND COVERS/USES

| LAND COVER | = 0 | > 0 <= T | > T <= 2T | > 2T <=3T | >3T <=4T | >4T <=5T | > 5T | TOTAL |
|------------------------------------|------|----------|-----------|-----------|----------|----------|-------|---------|
| Cultivated Cropland | 2.6 | 6583.1 | 1890.1 | 784.9 | 446.1 | 251.2 | 555.3 | 10513.3 |
| Noncultivated Cropland | 1.4 | 3171.8 | 48.4 | 8.0 | 1.3 | 0.0 | 3.1 | 3234.0 |
| Pastureland | 11.8 | 9832.3 | 658.2 | 175.1 | 79.9 | 52.1 | 39.3 | 10848.7 |
| Conservation Reserve Program (CRP) | 0.0 | 1570.0 | 18.4 | 3.2 | 6.5 | 1.6 | 6.4 | 1606.1 |
| _TOTAL | 15.8 | 21157.2 | 2615.1 | 971.2 | 533.8 | 304.9 | 604.1 | 26202.1 |

* 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.

** NONCULTIVATED CROPLAND - A subcategory of the NRI cropland category. Noncultivated cropland includes permanent hayland and horticultural cropland.

*** CRP - Conservation Reserve Program. A federal United States Department of Agriculture program established under the Food Security Act of 1985 to assist land owners in converting highly erodible cropland to vegetative cover for ten years.

DATA SOURCE: 1997 NATIONAL RESOURCES INVENTORY (REVISED DECEMBER 2000)