U.S.D.A. - NATURAL RESOURCES CONSERVATION SERVICE

STREAMBANK & GULLY EROSION FIELD FORM -- DIRECT VOLUME METHOD

Date _____ Watershed _____ Sample No. _____

Staff _____ Sample Location _____ Stream Order _____

Reach No.	CEM Stage	Paces (no.)	Length (ft)	Bank 1		Bank 2		Density (pcf)	Notes
				Height (ft)	Recession Rate (ft/yr)	Height (ft)	Recession Rate (ft/yr)		

Reach No.	Gully Arc Length (ft)	Gully Ht. (ft)	Classic Gully Recession Rate (ft/yr)

Ephemeral gullies observed on approx. ____ acres of adjacent cropland:

1. Length (ft) _____ Avg. Width (ft) _____ Avg. Depth (ft) _____
2. Length (ft) _____ Avg. Width (ft) _____ Avg. Depth (ft) _____
3. Length (ft) _____ Avg. Width (ft) _____ Avg. Depth (ft) _____
4. Length (ft) _____ Avg. Width (ft) _____ Avg. Depth (ft) _____

STREAMBANK AND GULLY EROSION (Direct-Volume Method, Modified for Iowa)

Lateral Recession Rate (ft/yr)	*Erosion Category*	*Description*
0.01 - 0.05	Slight	Some bare bank but active erosion not readily apparent. Some rills, but no vegetative overhang. May be some exposed tree roots from previous stage of erosion. (CEM stages 1, 2, 3 and 6)
0.06 - 0.2	Moderate	Bank is predominantly bare with some rills and vegetative overhang. Few gullies may radiate off main channel; some exposed tree roots. May be stabilized slumps, but no recent slumps and slips. (CEM stages 3, 4 and 5)
0.3 - 0.5	Severe	Bank is bare with rills and severe vegetative overhang. Many exposed tree roots, some fallen trees, and recent slumps and slips. Some changes in cultural features such as fence corners missing and realignment of roads and trails. Some gullies radiating off the main channel. Channel cross-section becomes more U-shaped rather than V-shaped. (CEM stages 3 and 4)
0.5+	Very Severe	Bank is bare with severe vegetative overhang. Gullies radiating off main channel are common. Many fallen trees, drains and culverts eroding out, and changes in cultural features as above. Massive slips or washouts common. Channel cross-section is U-shaped. (CEM stage 3)

UNIT-WEIGHTS OF SOILS

USDA Texture	*pcf*
clay	70
clay loam	75
silty clay loam	80
silt loam	85
loam	90
sandy clay loam	95
sandy loam	100
loamy sand	105
sand	110