PROCEDURE FOR ESTIMATING SHEET AND RILL EROSION FROM WATER USING THE NRCS TECHNICAL GUIDE AND A CALCULATOR

Client _____ Business ID _____ Tract _____ Field _____
Soil _____ Soil Loss Tolerance (T) _____ Irrigated (circle) Yes No

R – Rainfall factor

K – Soil erodibility factor for the soil is _____ K factor zone (Refer to page 13) _____

Adjusted K factor (Refer to page 15)

L – Length of slope is _____
S – Percent of slope is _____

See LS tables:
1a Pasture/Range
1b Cropland
1c Construction Sites
LS value (Refer to page 16)

C – Average cover management factor for rotation from table 2

Year(s)					
Crop					
Previous Crop					
Tillage/practice 1/					
Percent cover/tons manure					
C factor					

Rotational average C factor (total ÷ years) _____ =

P – Average support practice factor for 10 year single storm El _____
Refer to P factor section, page 20 for instructions on computing P for contouring, stripcropping, terraces, etc.

Soil Hydrologic Group	A	B	C	D
Year(s)				
Crop(s)				
Cover mgt condition, Table P1				
Ridge Height, Table P2				
Furrow Grade				
On-grade P subfactor, Table P3				
Adjust furrow grade, Table P4				
Adjust for slope length				
Terrace/stripcropping subfactor	X	X	X	X	X
P factor for crop(s)	=	=	=	=	=

Rotational average P factor (total ÷ years) _____ =

A – Sheet and Rill erosion from water is RxKx(LS)xCxP = T/A/Yr

1/ Tillage System Types:
ST = Spring Mulch Tillage
FT = Fall Mulch Tillage
MT = Mulch Tillage
NONE = Tillage not allowed
SP = Spring Plow
FP = Fall Plow

Planting System Types:
NT = No Till
STP = Strip Till (Till-Plant)
RT = Ridge Till