

BMP scenario	Land use groups ^a	Model	Model structure and variable
No-BMP Tillage FDT + tillage	crop-groups_2, nonvegetated lands, forestry general crops, grains, grasses general crops, grains, grasses	Dis1 Dis2 Dis3	Discharge = f (PCP, TMP, SOL_K, land-use-groups_2) Discharge = f (PCP, TMP, SOL_K) Discharge = f (PCP, TMP, SOL_K)
No-BMP Tillage FDT + tillage	crop-groups_1, grasses nonvegetated lands, forestry crop-groups_1, grasses general crops, grains, grasses	Sed1_1 Sed1_2 Sed1_3 Sed2 Sed3	Sediment ^(1/10) = f (USLE_LS, PCP, TMP, SOL_K, land-use-groups_1) Sediment ^(1/10) = f (USLE_LS, PCP) Sediment ^(1/10) = f (USLE_LS, PCP, SOL_K) Sediment ^(1/10) = f (USLE_LS, PCP, TMP, SOL_K, land-use-groups_1) Sediment = Sed1_1 \times TERR_P
No-BMP Tillage FDT + tillage	general crops, grains, grasses nonvegetated lands, forestry general crops, grains, grasses crop-groups_3, grains	N1_1 N1_2 ^b N1_3 N2 N3	$\log(\text{NO}_3 - \text{N}) = f$ (N_APP, PCP, TMP, SOL_K, land use groups) $\text{NO}_3 - \text{N} = 24 \text{ kg ha}^{-1}$ $\log(\text{NO}_3 - \text{N}) = f$ (PCP, TMP, SOL_K) $\log(\text{NO}_3 - \text{N}) = f$ (N_APP, PCP, TMP, SOL_K, land use groups) $\log(\text{NO}_3 - \text{N}) = f$ (N_APP, PCP, TMP, SOL_K, land-use-groups_3)
No-BMP Tillage FDT + tillage	crop-groups_1, grasses nonvegetated lands, forestry crop-groups_1, grasses general crops, grains, grasses	P1_1 P1_2 ^b P1_3 P2 P3	$\log(\text{Sol} - \text{P}) = f$ (P_APP, PCP, TMP, SOL_K, land-use-groups_1) $\text{Sol} - \text{P} = 0.61 \text{ kg ha}^{-1}$ $\log(\text{Sol} - \text{P}) = f$ (PCP, TMP, SOL_K) $\log(\text{Sol} - \text{P}) = f$ (P_APP, PCP, TMP, SOL_K, land-use-groups_1) $\log(\text{Sol} - \text{P}) = f$ (P_APP, PCP, TMP, SOL_K, land use groups)