

Total Nitrogen Efficiency Estimates

P6 grass legume mixtures with grass at least 50% of full planting rate

P6 reduction coefficients for situations where manure is applied in the fall before cover crop planting

Coastal Plain/Piedmont Crystalline/Karst Set

Drilled Legume plus grass		Other Legume plus grass		Aerial/soy Legume plus grass		Aerial/corn Legume plus grass		Drilled Rye		Other Rye		Drilled Wheat		Other Wheat		Drilled Barley		Other Barley		Drilled Triticale		Other Triticale		Drilled Oats, Win
High	Low	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low	High
0.26	0.26	0.22	0.22	0.18	0.18	0.10	0.10	0.32	0.32	0.27	0.27	0.22	0.22	0.19	0.19	0.27	0.27	0.22	0.22	0.27	0.27	0.23	0.23	0.17
0.25	0.25	0.21	0.21	NA	NA	NA	NA	0.29	0.29	0.25	0.25	0.20	0.20	0.17	0.17	0.20	0.20	0.17	0.17	0.25	0.25	0.21	0.21	0.16
NA	NA	NA	NA	NA	NA	NA	NA	0.13	0.13	0.11	0.11	0.09	0.09	0.08	0.08	NA	NA	NA	NA	0.11	0.11	0.10	0.10	NA

Mesozoic Lowlands/Valley and Ridge Silicic

Drilled Legume plus grass		Other Legume plus grass		Aerial/soy Legume plus grass		Aerial/corn Legume plus grass		Drilled Rye		Other Rye		Drilled Wheat		Other Wheat		Drilled Barley		Other Barley		Drilled Triticale		Other Triticale		Drilled Oats, Win
High	Low	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low	High
0.20	0.20	0.17	0.17	0.14	0.14	0.08	0.08	0.24	0.24	0.20	0.20	0.17	0.17	0.14	0.14	0.20	0.20	0.18	0.18	0.20	0.20	0.17	0.17	0.13
0.19	0.19	0.16	0.16	NA	NA	NA	NA	0.22	0.22	0.19	0.19	0.15	0.15	0.13	0.13	0.15	0.15	0.13	0.13	0.19	0.19	0.16	0.16	0.12
NA	NA	NA	NA	NA	NA	NA	NA	0.11	0.11	0.08	0.08	0.07	0.07	0.06	0.06	NA	NA	NA	NA	0.09	0.09	0.07	0.07	NA

Total Phosphorus Efficiency Estimates

No change to P and sediment values from 5.3.2 mixture values

No change to P and sediment values from

Coastal Plain/Piedmont Crystalline/Karst Settings

Drilled Legume plus grass		Other Legume plus grass		Aerial/soy Legume plus grass		Aerial/corn Legume plus grass		Drilled Rye		Other Rye		Drilled Wheat		Other Wheat		Drilled Barley		Other Barley		Drilled Triticale		Other Triticale		Drilled Oats, Win
High	Low	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low	High
0.10	0.00	0.10	0.00	0.10	0.00	0.10	0.00	0.15	0.00	0.15	0.00	0.15	0.00	0.15	0.00	0.15	0.00	0.15	0.00	0.15	0.00	0.15	0.00	0.09
0.05	0.00	0.05	0.00	NA	NA	NA	NA	0.07	0.00	0.07	0.00	0.07	0.00	0.07	0.00	0.07	0.00	0.07	0.00	0.07	0.00	0.07	0.00	0.04
NA	NA	NA	NA	NA	NA	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NA	NA	NA	NA	0.00	0.00	0.00	0.00	NA

Mesozoic Lowlands/Valley and Ridge Siliciclastic

Drilled Legume plus grass		Other Legume plus grass		Aerial/soy Legume plus grass		Aerial/corn Legume plus grass		Drilled Rye		Other Rye		Drilled Wheat		Other Wheat		Drilled Barley		Other Barley		Drilled Triticale		Other Triticale		Drilled Oats, Win
High	Low	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low	High
0.10	0.00	0.10	0.00	0.10	0.00	0.10	0.00	0.15	0.00	0.15	0.00	0.15	0.00	0.15	0.00	0.15	0.00	0.15	0.00	0.12	0.00	0.12	0.00	0.09
0.05	0.00	0.05	0.00	NA	NA	NA	NA	0.07	0.00	0.07	0.00	0.07	0.00	0.07	0.00	0.07	0.00	0.07	0.00	0.06	0.00	0.06	0.00	0.04
NA	NA	NA	NA	NA	NA	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NA	NA	NA	NA	0.00	0.00	0.00	0.00	NA

Total Sediment Efficiency Estimates

Coastal Plain/Piedmont Crystalline/Karst Settings

Drilled Legume plus grass		Other Legume plus grass		Aerial/soy Legume plus grass		Aerial/corn Legume plus grass		Drilled Rye		Other Rye		Drilled Wheat		Other Wheat		Drilled Barley		Other Barley		Drilled Triticale		Other Triticale		Drilled Oats, Win
High	Low	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low	High
0.15	0.00	0.15	0.00	0.15	0.00	0.15	0.00	0.20	0.00	0.20	0.00	0.20	0.00	0.20	0.00	0.20	0.00	0.20	0.00	0.17	0.00	0.17	0.00	0.14
0.07	0.00	0.07	0.00	NA	NA	NA	NA	0.10	0.00	0.10	0.00	0.10	0.00	0.10	0.00	0.10	0.00	0.10	0.00	0.08	0.00	0.08	0.00	0.07
NA	NA	NA	NA	NA	NA	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NA	NA	NA	NA	0.00	0.00	0.00	0.00	NA

Mesozoic Lowlands/Valley and Ridge Siliciclastic

Drilled Legume plus grass		Other Legume plus grass		Aerial/soy Legume plus grass		Aerial/corn Legume plus grass		Drilled Rye		Other Rye		Drilled Wheat		Other Wheat		Drilled Barley		Other Barley		Drilled Triticale		Other Triticale		Drilled Oats, Win
High	Low	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low	High
0.15	0.00	0.15	0.00	0.15	0.00	0.15	0.00	0.20	0.00	0.20	0.00	0.20	0.00	0.20	0.00	0.20	0.00	0.20	0.00	0.17	0.00	0.17	0.00	0.14
0.07	0.00	0.07	0.00	NA	NA	NA	NA	0.10	0.00	0.10	0.00	0.10	0.00	0.10	0.00	0.10	0.00	0.10	0.00	0.08	0.00	0.08	0.00	0.07
NA	NA	NA	NA	NA	NA	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NA	NA	NA	NA	0.00	0.00	0.00	0.00	NA

