

Erosion Component Value **2.51**

Gross Erosion (tons/acre)

Sheet & Rill (RUSLE2)	Area (ac)	Tons
5.0		
Ephemeral 0.0		
Gully 0.0		

Factor **5.0**

Sediment Trap Factor (Conservation Practices)

Note: Area to be credited with reduction is the area affected by the practice and should be broken out into separate Conservation Planning Units for P-Index calculation purposes.

None

Factor **1.00**

Sediment Delivery Ratio View Map and Choose

Select Landform Region

Southern Iowa Drift Plain, Northwest Iowa Plains, Paleozoic Plateau

Enter the distance from the center of the field to the perennial or intermittent stream (ft) **600.0**

Factor **0.50**

Filter Factor Click here for information... 393 Standard

0-19 ft

Factor **1.0**

Enrichment Factor (Residue Management Effect)

Tillage

Factor **1.0**

P Test Factor

Bray-1 P, Mehlich-3

Enter the test result (ppm) **28.0**

Factor **0.82** Next >

Runoff Component Value **0.40**

RCN Factor Click here for information... Precipitation Factor 7.9

Select the County

MARSHALL

Row crops - Straight row (SR) good

Clarion loam, 5 to 9 percent slopes

Runoff Curve Number 78

RCN Fraction 0.21

Factor **1.62**

P Test Factor

Bray-1 P, Mehlich-3

Test result (ppm) **28.0**

Factor **0.19**

Rate Factor Click here for information... Enter the Rate of P Application From All Sources (lb P₂O₅/acre) **100.0**

Elemental P (lbs) Convert

Surface Application, No Incorporation

Factor **0.05** Next >

Subsurface Drainage Component Value **0.00**

Flow Factor

Tile

No

Subsurface drainage

Yes

Highly permeable soils:

Choose the soil if available or "NOT ON THE LIST" at the bottom to continue

Factor **0.0**

STP Factor

Assumes 10% of annual rainfall flows through tile or leaches through coarse textured subsoil/substratum.

Factor **0.079**

P-INDEX **2.91**

Two reports are available for storing P-Index data.

1. Summary report stores data for 3 fields, and up to 10 runs per field.
2. Detailed report does not separate runs and fields, but keeps track of all variables in the P-Index.

Summary Report

Detailed Report

Choose output location for summary report:

Enter field name: **Top**
 Enter run name: **Well Planned**
1.0

Use the Copy button to copy data from this worksheet to the reports.

Copy to Reports

Iowa Phosphorus Index

2/2007

Name _____
 Prepared by _____

Date _____
 Tract No. _____

Component Summary

Field: /ell Planned Runs	Erosion Component									Runoff Component			Subsurface Component			OVERALL RISK
	Sheet&Rill	Ephemeral	Gully	Sediment Trap	Filter	Enrichment	STP	Risk	RCN	STP	Risk	Tile	STP	Risk		
1	5.00	0.00	0.00	1.00	1.00	1.10	0.82	2.51	1.62	0.19	0.40	0.00	0.08	0.00	2.91	
Field: Runs	Erosion Component									Runoff Component			Subsurface Component			OVERALL RISK
	Sheet&Rill	Ephemeral	Gully	Sediment Trap	Filter	Enrichment	STP	Risk	RCN	STP	Risk	Tile	STP	Risk		
Field: Runs	Erosion Component									Runoff Component			Subsurface Component			OVERALL RISK
	Sheet&Rill	Ephemeral	Gully	Sediment Trap	Filter	Enrichment	STP	Risk	RCN	STP	Risk	Tile	STP	Risk		

Risk Assessment:

Very Low 0-1 Low >1-2 Medium >2-5 High >5-15 Very High >15

RISK ASSESSMENT

Very Low 0-1

Low >1-2

Medium >2-5

High >5-15

Very High >15

INTERPRETATIONS OF SITE VULNERABILITY RATINGS FOR THE P INDEX

VERY LOW– 0-1 A field in which movement of P off site will be **VERY LOW**. If soil conservation and P management practices are maintained at current levels, impacts on surface water resources from P losses from the field will be small.

LOW – >1-2 A field in which movement of P off site will be **LOW**. Although the P delivery to surface water bodies is greater than from a field with a very low rating, current soil conservation and P management practices keep water quality impairment low.

MEDIUM – >2-5 A field in which movement of P off-site will be **MEDIUM**. Impacts on surface water resources will be higher than for the field with a low rating, and the P delivery potential may produce some water quality impairment. Careful consideration should be given to further soil conservation and P management practices that do not increase P delivery to surface water.

HIGH – >5-15 A field in which movement of P offsite will be **HIGH**. Water quality impairment will be large. Remedial action is required to reduce P movement to surface water bodies. New soil and water conservation and/or P management practices are necessary to reduce offsite P movement and water quality degradation.

VERY HIGH – >15 A field in which movement of P offsite will be **VERY HIGH**. Impacts on surface water resources are extreme. Remedial action is required to reduce P delivery to surface water. All necessary soil and water conservation practices plus a P management plan, which may require discontinuing P applications, must be put in place to reduce water quality impairment.

NOTE: See NRCS Nutrient Management Standard 590 for nutrient management recommendations.



v. 1/22/2007

Iowa Phosphorus Index

Credits: Iowa State University
 USDA National Soil Tilth Laboratory
 USDA Natural Resource Conservation Service

Field Number	Erosion							+	Runoff				+	Tile / Subsurface Recharge			=	Overall
	Gross Erosion	Sediment Trap Factor	SDR	Buffer Factor	Enrichment Factor	STP Factor	Erosion PI		RCN Factor	STP Factor	P App Factor	Runoff PI		Flow Factor	STP Factor	Tile/Sub PI		P Index
Well Planned -- 1	5.00	1.00	0.56	1.00	1.10	0.82	2.51		1.62	0.19	0.05	0.40		0.00	0.08	0.00	2.91	