

**State of Idaho
CAFO Site Advisory Team
Environmental Risk Form**

Name & Date of Siting:

Risk Scoring System

- 1 = Low Risk = Ideal goal for environmental protection
- 2 = Moderate Risk = Provides reasonable resource protection
- 3 = High Risk = Poses a high risk for health and/or for contaminating ground or surface water

CATEGORY	VARIABLE NAME	RISK SCORE			
		L	M	H	NA
Soil					
1. Soil permeability	Perm				
2. Soil depth	DephShall				
3. Thickness of clay in unsaturated zone	Clay				
Ground Water					
4. Depth to first encountered water	FirstHOH				
5. Mean nitrate level in ground water within a 5 mile radius	AvgNO3				
6. Percentage of wells over 5mg/L nitrate within 5 miles	NO3prior				
7. Aquifer geology	Vadose				
8. Time of travel to a spring	TTSpring				
9. Downgradient distance to nearest domestic well	Wells				
10. Time of travel to source water delineation area	SourceHOH				
Surface Water					
11. Down-surface gradient distance from CAFO to nearest surface water body	DistStream				
12. Down-surface gradient distance from land application to nearest surface water body	DistSurf				
13. 100-year floodplain	Flood100				
Nutrient Transport					
14. Run-on	RunOn				
15. Surface Runoff	SurfaceRun				
16. Annual Precipitation	Precip				

Comments and Observations

Index 1 Equation:

$$1.5*Perm + DephShall + 5*Vadose + 3*FirstHOH - 2.5*Clay - Precip + 2.5*Flood100 + 0.5*DistStream + NO3prior + AvgNO3 + 2*Wells + 0.5*RunOn + 6*SurfaceRun + 0.5*DistSurf$$

$$1.5(+)+5(+)+3(-)-2.5(-)+2.5(+)+0.5(+)+(+)+2(+)+0.5(+)+6(+)+0.5(-) = X$$

If greater than 40, site suitability determination is high risk; if less than 32, use Index 2.

If between 32 and 40, use professional judgment. Index 2 Equation:

$$2*Perm - Vadose - FirstHOH + Clay + 0.5*Precip + TTspring - 2*Flood100 - 0.5*SourceHOH + NO3prior - 0.5*AvgNO3 - 0.5*SurfaceRun + 0.5*DistSurf$$

$$2(-)-(-)+(+)+0.5(+)-2(-)-0.5(+)-0.5(-)-0.5(+)+0.5(-) = X$$

If Index 2 is greater than 3.25, moderate risk; if less than 2.75, low risk. 2.75 to 3.25, is borderline and professional judgment will be used to determine final risk.

Enter Rating Here

Individuals Present

* Changed 11 and 12 from downgradient to down-surface gradient for clarification

* Clarified 'borderline range' on Index 1 Equation to determine High Risk