

Priority Area Number: 23		Priority Area Name: Genessee/Cow Creek	
Ranking Criteria			Score Comments
1) POPULATION			
	Points	Select One	
a) Within Priority Area			
<1000	1	X	1 pop = 775
1000 to 10,000	2		
10,000 to 100,000	3		
		Subtotal	1
b) Source Water Protection Areas or Public Water System wells in Priority Area			
0	0		
1 to 20	1	X	1 2 PWS
>20	2		
		Subtotal	1
c) Number of Wells with Nitrate (NO₃) ≥10 mg/l			
0	0	X	0
1 to 2	1		
3 to 5	2		
6 to 9	3		
10 to 15	4		
>15	5		
		Subtotal	0
		Population Score	2
		Max Possible Score = 10	
2) WATER QUALITY			
	% wells	Nitrate Concentration Criteria	
Percent of wells with Nitrate (NO ₃) ≥2 mg/l	67%	2	1.34
Percent of wells with Nitrate (NO ₃) ≥5 mg/l	67%	5	3.35
Percent of wells with Nitrate (NO ₃) ≥10 mg/l	0%	10	0
		Water Quality Total	4.69
3) WATER QUALITY TRENDS			
		Select One	
Increasing	10		Insufficient data
No Discernable Trend	5	X	5 To establish trend
Decreasing trend	0		In USGS Trend
		Trend Score	5 Analysis, no trend score given*
		Max Possible Score = 10	
4) OTHER BENEFICIAL USES			
Other beneficial uses are impaired	2	Yes=2 No = 0	No
		Beneficial use score	0
		Max Possible Score = 2	
		Total Score	11.69

**NITRATE PRIORITY AREA # 23
GENESEE/COW CREEK**

Nitrate Concentrations: (mg/l)

Minimum Value	0.88
Maximum Value	7.10
Average Value	4.53
No. Samples \geq 10	0
No. Samples 5 – 9.99	2
No. Samples 2 – 4.99	0
No. Samples < 2	1
No. Samples \geq 2	2
No. Samples \geq 5	2
No. Samples \geq 10	0
% Samples $>$ 2	67%
% Samples $>$ 5	67%
% Samples \geq 10	0%
Total Samples	3
No. PWS Samples	2
No. SMN Samples	1
No. IDAG Samples	0
No. REG/LOC Samples	0

PWS = Public Water Systems

SMN = State Wide Monitoring Network

IDAG = Idaho Dept. of Agriculture Studies

REG/LOC = Regional/Local Monitoring DEQ and DEQ/IDAG Projects

The 1999/2000 Group 1 Nitrate data included 2 PWS wells and 1 SMN well sampled during these years. A new monitoring project conducted by the LRO was completed in 2001. This information will be incorporated in the 2001 ranking update.

1999 - 2000 GROUP 1 NITRATE PRIORITIZATION GENESEE/COW CREEK AREA 23* (RANKED)

POPULATION (Est.) = 775
 AREA (Est.) = 18,439 Acres
 LAND USE = Dry Agriculture

Analytical Results for Nitrate Data Sources:
 Statewide Monitoring Network (USGS/IDWR), 1 site, most recent analysis used
 IDEQ, Drinking Water Information System (DWIMS), 2 PWS, 1999-2000 data, highest value used



Nitrate Values (mg/l)	Number of Sites
>=10	0
5 - 9.99	2
2 - 4.99	0
< 2	1

MAXIMUM VALUE = 7.1
 MINIMUM VALUE = 0.9
 MEDIAN = 5.6
 AVERAGE = 4.5

TOTAL NUMBER OF SAMPLING SITES = 3
 TOTAL NUMBER OF PWS SITES = 2

No. Sites Nitrate >= 2 mg/l = 2
 No. Sites Nitrate >= 5 mg/l = 2
 No. Sites Nitrate >= 10 mg/l = 0

*Previously referred to as Area 1 for trend analysis

Nitrate Analytical Results - Statewide, PWS

- ▲ >= 10 mg/l
 - 5 - 9.99 mg/l
 - 2 - 4.99 mg/l
 - < 2 mg/l
- Nitrate Priority Area 23
Genesee/Cow Creek

USGS = United States Geological Survey
 IDWR = Idaho Department of Water Resources
 IDEQ = Idaho Department of Environmental Quality
 PWS = Public Water System
 mg/l = milligrams per liter

