

Priority Area Number: 20		Priority Area Name: Hibbard		
Ranking Criteria			Score	Comments
<b>1) POPULATION</b>				
	Points	Select One		
<b>a) Within Degraded Area</b>				
<1000	1			
1000 to 10,000	2	X	2	Population = 1409
10,000 to 100,000	3			
		<b>Subtotal</b>	<b>2</b>	
<b>b) Source Water Protection Areas or Public Water System wells in Priority Area</b>				
0	0			
1 to 20	1	X	1	16 PWS
>20	2			
		<b>Subtotal</b>	<b>1</b>	
<b>c) Number of Wells with Nitrate (NO<sub>3</sub>) ≥10 mg/l</b>				
0	0			
1 to 2	1			
3 to 5	2	X	2	4 Wells
6 to 9	3			
10 to 15	4			
>15	5			
		<b>Subtotal</b>	<b>2</b>	
		<b>Population Score</b>	<b>5</b>	
		<b>Max Possible Score = 10</b>		
<b>2) WATER QUALITY</b>				
	% wells	Nitrate Concentration Criteria		
Percent of wells with Nitrate (NO <sub>3</sub> ) ≥2 mg/l	63%	2	1.26	
Percent of wells with Nitrate (NO <sub>3</sub> ) ≥5 mg/l	19%	5	0.95	
Percent of wells with Nitrate (NO <sub>3</sub> ) ≥10 mg/l	6%	10	0.60	
		<b>Water Quality Total</b>	<b>2.81</b>	
<b>3) WATER QUALITY TRENDS</b>				
		Select One		
Increasing	10			
No Discernable Trend	5	X	5	
Decreasing trend	0			
		<b>Trend Score</b>	<b>5</b>	
		<b>Max Possible Score = 10</b>		
<b>4) OTHER BENEFICIAL USES</b>				
Other beneficial uses are impaired	2	Yes=2 No = 0	No	
		<b>Beneficial use score</b>	<b>0</b>	
		<b>Max Possible Score = 2</b>		
		<b>Total Score</b>	<b>12.81</b>	

**NITRATE PRIORITY AREA # 20  
HIBBARD**

Nitrate Concentrations: (mg/l)

Minimum Value	0
Maximum Value	25.9
Average Value	3.7
No. Samples $\geq$ 10	4
No. Samples 5 – 9.99	8
No. Samples 2 – 4.99	28
No. Samples < 2	24
No. Samples $\geq$ 2	40
No. Samples $\geq$ 5	12
No. Samples $\geq$ 10	4
% Samples $\geq$ 2	63%
% Samples $\geq$ 5	19%
% Samples $\geq$ 10	6%
Total Samples	64
No. PWS Samples	16
No. SMN Samples	45
No. IDAG Samples	3
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 1998 ranking for this area used 74 sampling locations with 53 (72%) of those locations  $\geq$ 2 mg/l, 25 (34%)  $\geq$ 5 mg/l, and 8 samples (11%)  $\geq$ 10 mg/l. Of the 74 wells sampled, 13 are PWS and 61 are accounted for as SMN wells, which includes a Health District 7 study.

The 1999-2000 ranking used a total of 64 sites with 40 sites (63%)  $\geq$  mg/l, 12 sites (19%)  $\geq$ 5 mg/l, and 4 sites (6%)  $\geq$ 10 mg/l. Of the 64 sites, 16 are PWS, 45 are SMN, and 3 are IDAG sites.

A difference of 10 wells exists between the totals of the two ranking periods. The USGS had filtered out inconsistent results in the trend analysis data, which was provided to DEQ. It is possible that some of the wells may have been dropped as monitoring sites.

Area 23 does not meet the Group 1 criteria of 25% samples  $\geq$ 5 mg/l for nitrate in the 1999-2000 ranking. Area 23 has only 19% samples  $\geq$ 5 mg/l nitrate.

For the 1999-2000 ranking period, DEQ will maintain the priority status for this area at the present time, with re-evaluation in the 2001 ranking period. Procedures to remove areas from priority status with a continual decline in nitrate contamination below minimum criteria will be developed with the Ground Water Monitoring Technical Committee.

# 1999 - 2000 GROUP 1 NITRATE PRIORITIZATION HIBBARD AREA 20\* (RANKED)

POPULATION (Est.) = 1,409  
 AREA (Est.) = 10,907 Acres  
 LAND USE = Irrigated Agriculture, Very Small Areas of  
 Urban and Range Land

Analytical Results for Nitrate Data Sources:  
 Statewide Monitoring Network (USGS/IDWR), 45 sites, most recent analysis used, includes USGS studies  
 IDEQ Drinking Water Information System (DWIMS), 16 PWS, 1999-2000 data, highest value used  
 IDAG, 3 sites, most recent analysis used



Nitrate Values (mg/l)	Number of Sites
>=10	4
5 - 9.99	8
2 - 4.99	28
< 2	24

MAXIMUM VALUE = 25.9  
 MINIMUM VALUE = 0.0  
 MEDIAN = 2.6  
 AVERAGE = 3.7  
 MODE = 1.9

TOTAL NUMBER OF SAMPLING SITES = 64  
 TOTAL NUMBER OF PWS SITES = 16

No. Sites Nitrate >= 2 mg/l = 40  
 No. Sites Nitrate >= 5 mg/l = 12  
 No. Sites Nitrate >=10 mg/l = 4

\*Previously referred to as Area 23 for trend analysis

## Nitrate Analytical Results - Statewide, USGS, PWS, IDAG

- ▲ >= 10 mg/l
- 5 - 9.99 mg/l
- 2 - 4.99 mg/l
- <2 mg/l

□ Nitrate Priority Area 20  
Hibbard

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

