

Priority Area Number: 10		Priority Area Name: Payette		
Ranking Criteria			Score	Comments
1) POPULATION				
	Points	Select One		
a) Within Priority Area				
<1000	1			
1000 to 10,000	2	X	2	Population = 2725
10,000 to 100,000	3			
		Subtotal	2	
b) Source Water Protection Areas or Public Water System wells in Priority Area				
0	0			
1 to 20	1	X	1	15 PWS
>20	2			
		Subtotal	1	
c) Number of Wells with Nitrate (NO₃) ≥10 mg/l				
0	0			
1 to 2	1			
3 to 5	2			
6 to 9	3			
10 to 15	4	X	4	15 Wells
>15	5			
		Subtotal	4	
		Population Score	7	
		Max Possible Score = 10		
2) WATER QUALITY				
	% wells	Nitrate Concentration Criteria		
Percent of wells with Nitrate (NO ₃) ≥2 mg/l	70%	2	1.4	
Percent of wells with Nitrate (NO ₃) ≥5 mg/l	53%	5	2.65	
Percent of wells with Nitrate (NO ₃) ≥10 mg/l	20%	10	2.0	
		Water Quality Total	6.05	
3) WATER QUALITY TRENDS				
		Select One		
Increasing	10			
No Discernable Trend	5	X	5	
Decreasing trend	0			
		Trend Score	5	
		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			18.05	

NITRATE PRIORITY AREA # 10

PAYETTE

Nitrate Concentrations: (mg/l)

Minimum Value	0
Maximum Value	23.4
Average Value	6.5
No. Samples \geq 10	15
No. Samples 5 – 9.99	24
No. Samples 2 – 4.99	13
No. Samples < 2	22
No. Samples \geq 2	52
No. Samples \geq 5	39
No. Samples \geq 10	15
% Samples \geq 2	70%
% Samples \geq 5	53%
% Samples \geq 10	20%
Total Samples	74
No. PWS Samples	15
No. SMN Samples	11
No. IDAG Samples	15
No. REG/LOC Samples	33

PWS = Public Water Systems

SMN = State Wide Monitoring Network

IDAG = Idaho Dep. Of Agriculture Studies

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

Regional/Local Monitoring projects include:

Fruitland 1995 & 1999 DEQ Studies

Lower Payette, 1992 DEQ Study

1999 - 2000 GROUP 1 NITRATE PRIORITIZATION PAYETTE PRIORITY AREA #10* (RANKED)

POPULATION = 2725 (Est.)

AREA (Est.) = 30,509 Acres

LAND USE = Predominately Irrigated Agriculture with Small Amounts
of Dry Agriculture, Range Land and Riparian

Analytical Results for Nitrate Data Sources:

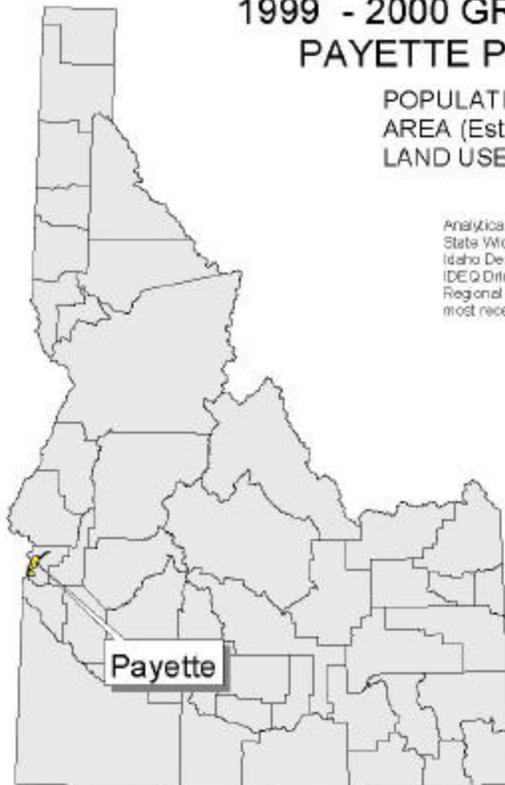
State Wide Monitoring Network (USGS/DWR), 11 sites, most recent analysis used
Idaho Dept. of Agriculture, 15 sites, most recent analysis used
IDEG Drinking Water Information System (DWIMS), 15 PWS, 1999-2000 data, highest value used
Regional Local Monitoring (DEQ - Fruitland 1999 & DEQ - Payette 1992), 33 sites,
most recent value used

Nitrate Values (mg/l)	Number of Sites
>=10	15
5 - 9.99	24
2 - 4.99	13
< 2	22

MAXIMUM VALUE = 23.4
MINIMUM VALUE = 0.0
MEDIAN = 5.6
AVERAGE = 6.5

TOTAL NUMBER OF SAMPLING SITES = 74
TOTAL NUMBER OF PWS SITES = 15

No. Sites Nitrate >= 2 mg/l = 52
No. Sites Nitrate >= 5 mg/l = 39
No. Sites Nitrate >= 10 mg/l = 15



*Previously referred to as Area 5 for trend analysis

**Nitrate Analytical Results - Statewide,
IDAG, PWS, REG/LOC**

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

■ Nitrate Priority Area 10, Payette

USGS = United States Geological Survey
DWR = Idaho Department of Water Resources
IDAG = Idaho Department of Agriculture
IDEG = Idaho Department of Environmental Quality
PWS = Public Water System
REG/LOC = Regional/Local Monitoring Projects
mg/l = milligrams per liter

