Priority Area Number: 3		Priority Area Name: Burley/Marsh Creek		
Ranking Criteria			**Score**	**Comments**
1) POPULATION				
	Points	**Select One**		
a) Within Degraded Area				
<1000	1			
1000 to 10,000	2			
10,000 to 100,000	3	X	3	Population =11,787
		Subtotal	**3**	
b) Source Water Protection Areas or Public Water System wells in Priority Area				
0	0			
1 to 20	1			
>20	2	X	2	33 PWS
		Subtotal	**2**	
c) Number of Wells with Nitrate (NO_3) $\geq$10 mg/l				
0	0			
1 to 2	1			
3 to 5	2			
6 to 9	3			
10 to 15	4			
>15	5	X	5	40 Wells
		Subtotal		
		Population Score	**10**	
		Max Possible Score = 10		
2) WATER QUALITY				
	% wells	**Nitrate Concentration**		
		Criteria		
Percent of wells with Nitrate (NO_3) $\geq$2 mg/l	88%	2	1.76	
Percent of wells with Nitrate (NO_3) $\geq$5 mg/l	60%	5	3.00	
Percent of wells with Nitrate (NO_3) $\geq$10 mg/l	17%	10	1.70	
		Water Quality Total	**6.46**	
3) WATER QUALITY TRENDS				
		Select One		
Increasing	10	X	10	
No Discernable Trend	5			
Decreasing trend	0			
		Trend Score	**10**	
		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	**26.46**	

NITRATE PRIORITY AREA # 3
BURLEY/MARSH CREEK

Nitrate Concentrations: (mg/l)

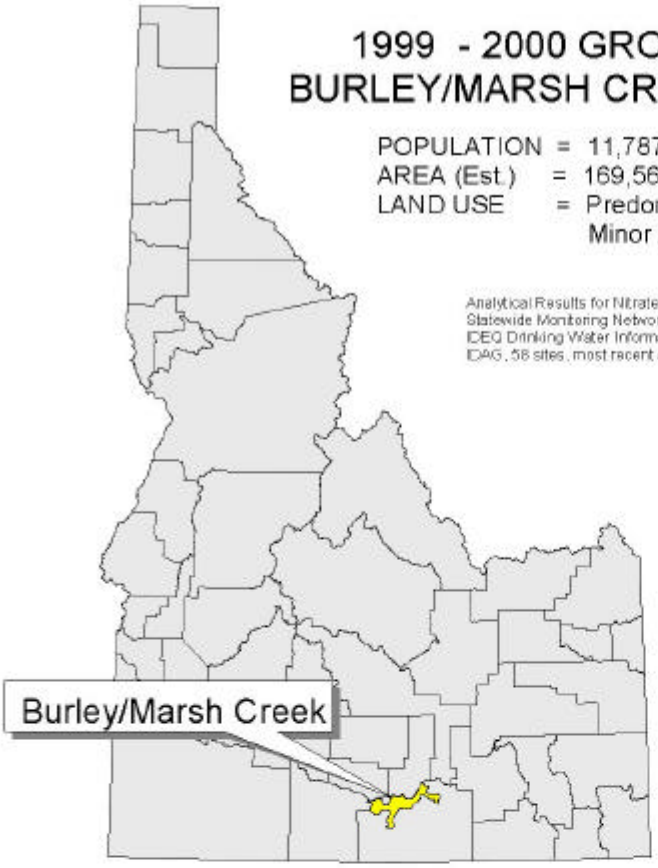
Minimum Value	0
Maximum Value	20.0
Average Value	6.4
No. Samples ≥ 10	40
No. Samples 5 – 9.99	100
No. Samples 2 – 4.99	65
No. Samples < 2	29
No. Samples ≥ 2	205
No. Samples ≥ 5	140
No. Samples ≥ 10	40
% Samples ≥ 2	86%
% Samples ≥ 5	60%
% Samples ≥ 10	17%
Total Samples	234
No. PWS Samples	33
No. SMN Samples	143
No. IDAG Samples	58
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, USGS, and DEQ/IDAG Projects

Monitoring Projects:

USGS NAWQA Study – National Water Quality Assessment Program
Various IDAG studies using most recent data.

1999 - 2000 GROUP 1 NITRATE PRIORITIZATION
BURLEY/MARSH CREEK PRIORITY AREA #3* (RANKED)



POPULATION = 11,787 (Est.)
AREA (Est.) = 169,563 Acres
LAND USE = Predominantly Irrigated Agriculture,
Minor Amounts of Dry Agriculture, Urban and Range Land

Analytical Results for Nitrate Data Sources:
Statewide Monitoring Network USGS/IDWR, 143 sites, most recent analysis used
IDEQ Drinking Water Information System (DWIMS), 33 PWS, 1999-2000 data, highest value used
IDAG, 58 sites, most recent analysis used

Nitrate Values (mg/l)	Number of Sites
>=10	40
5 - 9.99	100
2 - 4.99	65
< 2	29

MAXIMUM VALUE = 20.0
MINIMUM VALUE = 0.0
MEDIAN = 5.8
AVERAGE = 6.4
MODE = 3.2

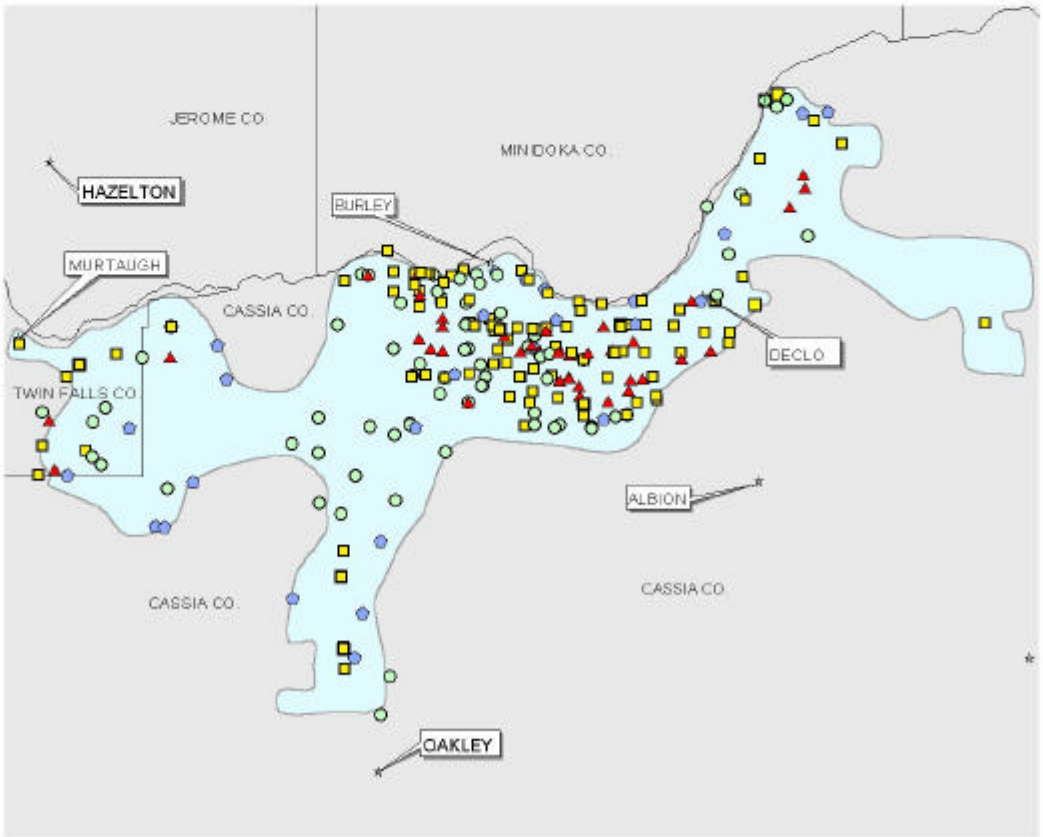
TOTAL NUMBER OF SITES = 234
TOTAL NUMBER OF PWS SITES = 33

No. Sites Nitrate >= 2 mg/l = 205
No. Sites Nitrate >= 5 mg/l = 140
No. Sites Nitrate >= 10 mg/l = 40

*Previously referred to as Area 17 for trend analysis

Nitrate Analytical Results - Statewide, USGS, IDAG, PWS

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

Nitrate Priority Area 3 Burley/Marsh Creek

USGS = United States Geological Survey
IDAG = Idaho Department of Agriculture
IDEQ = Idaho Department of Environmental Quality
IDWR = Idaho Department of Water Resources
PWS = Public Water System
REG/LOC = Regional/Local Monitoring Studies, various agencies
mg/l = milligrams per liter