

Dissolved Oxygen (D.O.)

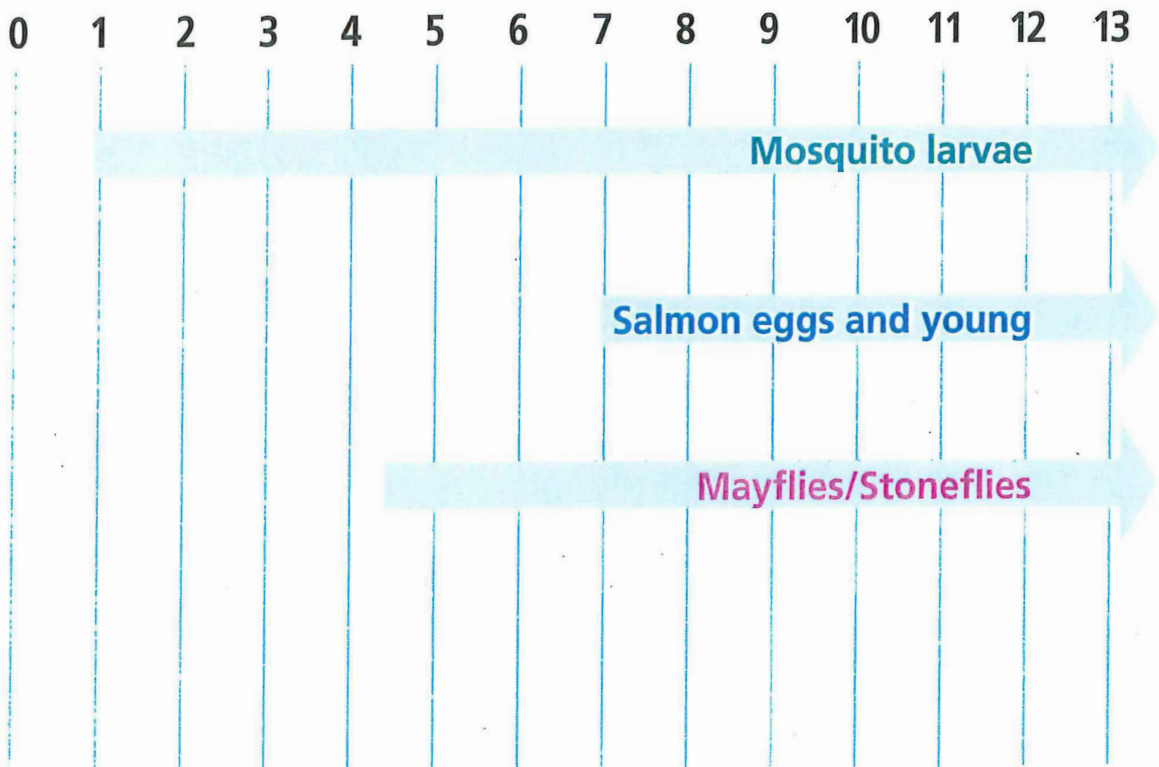
Definition: The amount of oxygen in the water.

Importance: Required by aquatic life to breathe.

How is it measured? In Parts Per Million (PPM).

(some scientists use mg/l or percent saturation)

Dissolved Oxygen (PPM)



Temperature

Aquatic organisms breathe oxygen that is dissolved in the water.

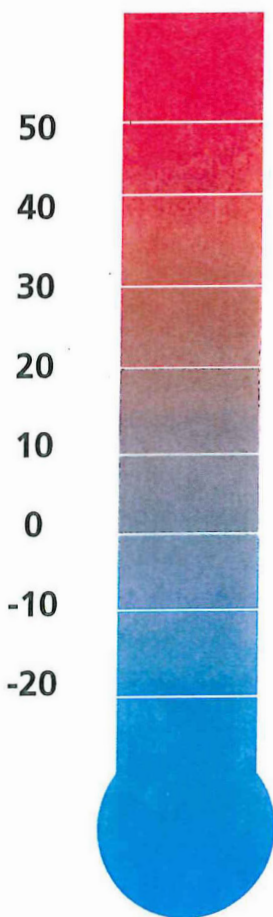
- Warmer water may mean less dissolved oxygen is available for aquatic animals to breathe.
- Colder water can hold more dissolved oxygen.

Rapid changes in water temperature can kill aquatic organisms.

°C

°F

Preferred Temperature



50

122

Warm

Above 68° F (20° C)
dragonflies, bass, carp, catfish

40

98.6

Cool

55-68° F (13-20° C)
Chinook, coho, sturgeon,
cutthroat trout, mayflies

30

86

20

68

10

50

Cold

Below 55° F (13° C)
Steelhead, caddisflies, stoneflies,
salmon eggs and alevins

0

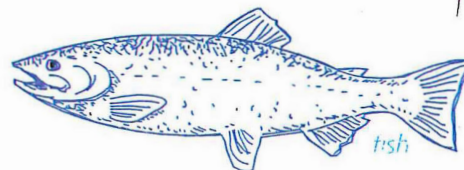
32

-10

14

-20

0

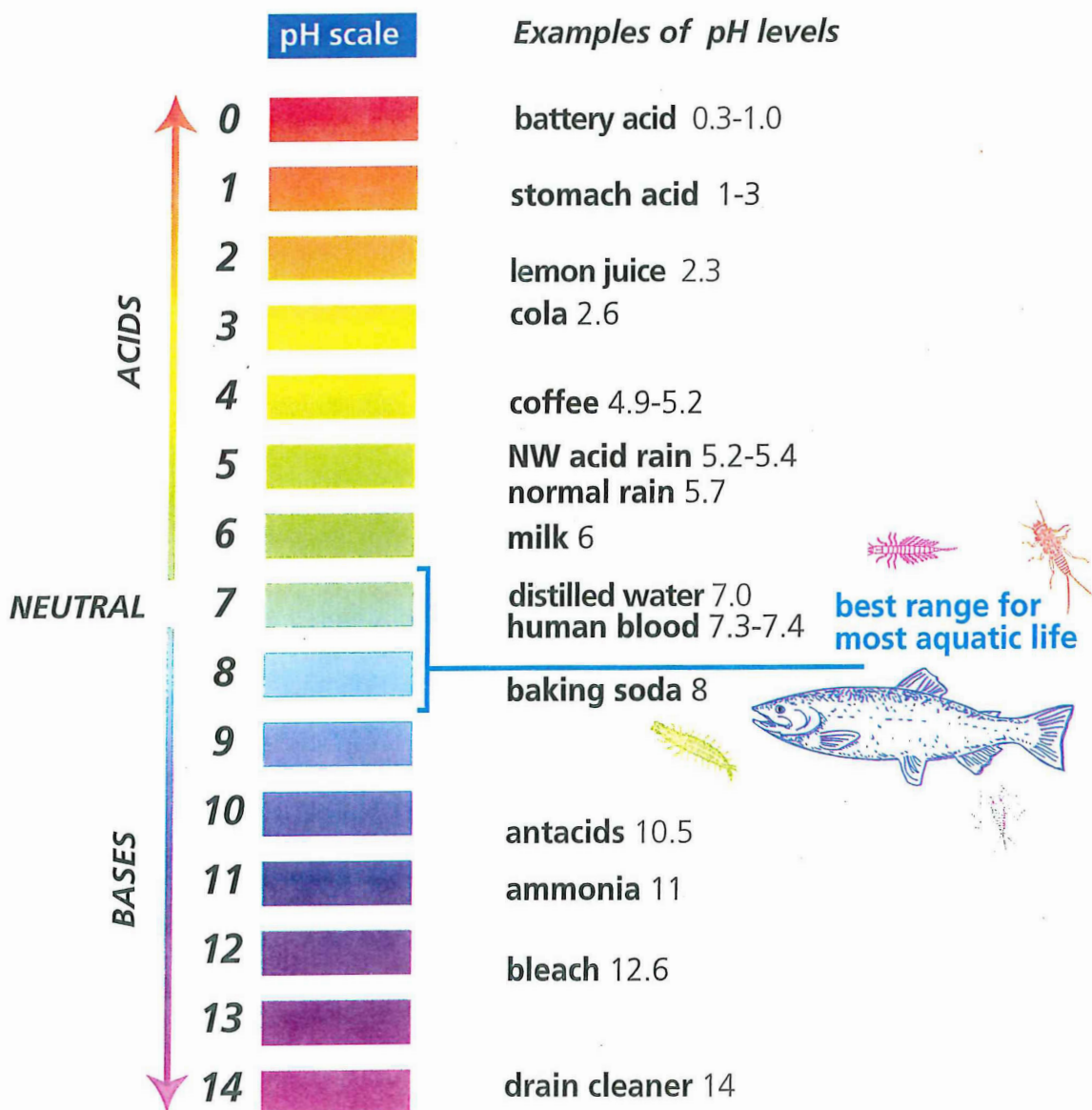


fish

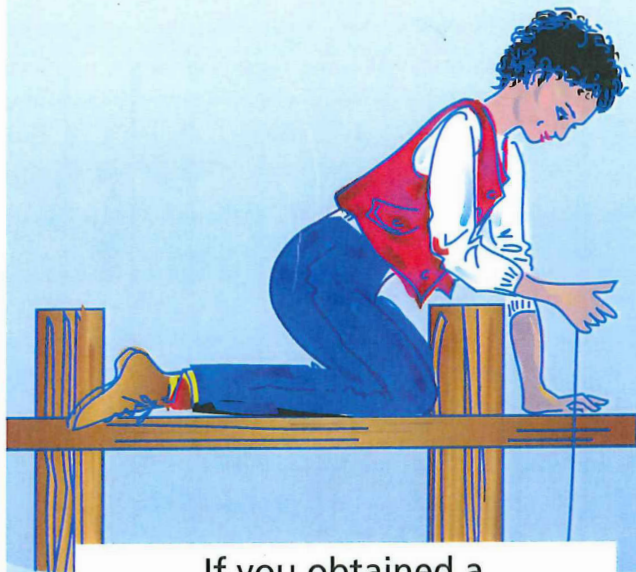
pH

Definition: Measure of how acidic or basic (alkaline) the water is.

Importance: Pollution can change the pH of water.
If water is too acidic or too basic aquatic life can die.



Turbidity Chart



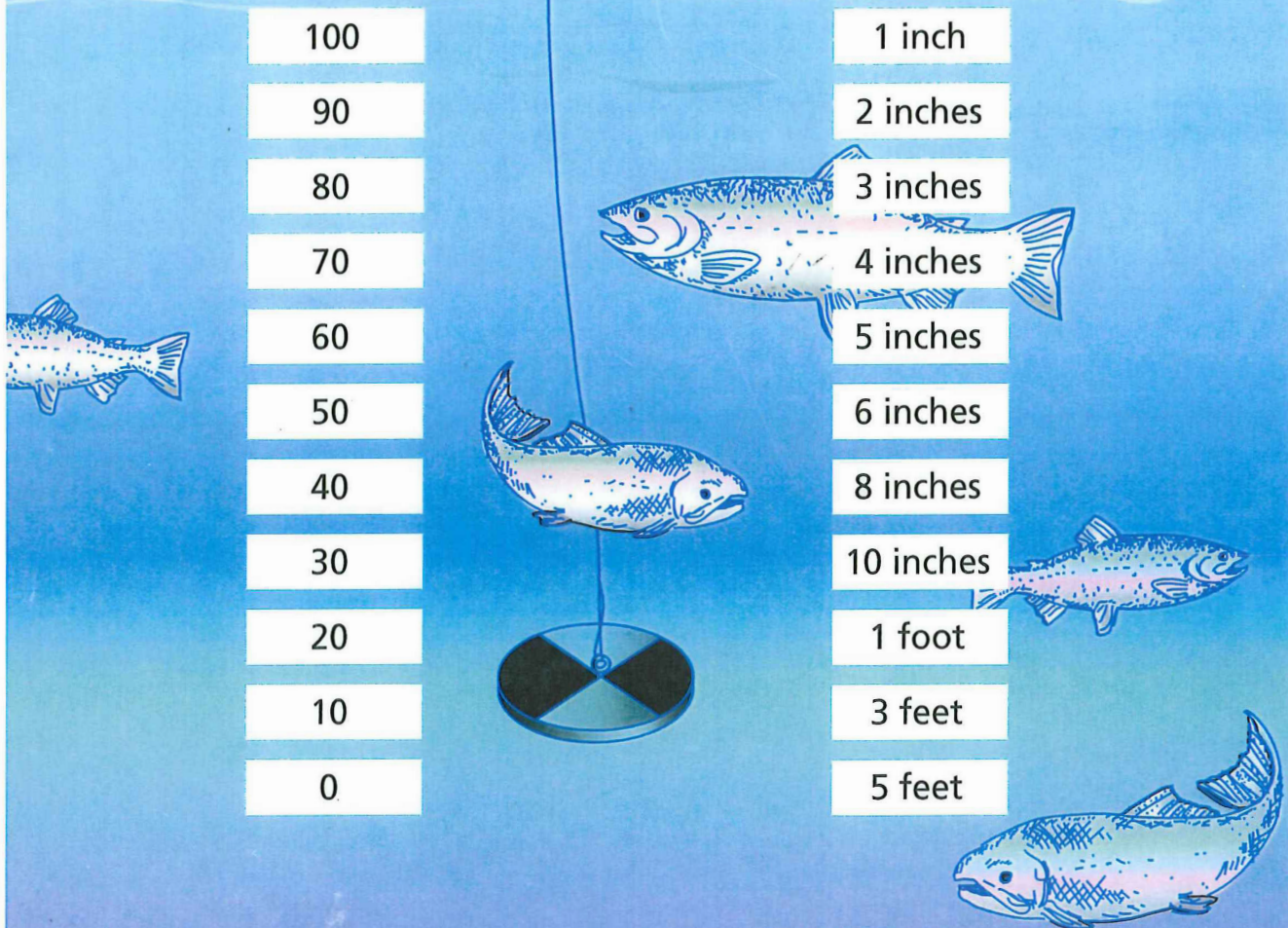
Turbidity: A measure of the cloudiness of the water.

Why is it Important?

- Sediment can smother eggs.
- Sediment can clog the gills of fish and other stream animals making it hard for them to breathe.
- Increased turbidity can result in warmer water, leading to lower levels of dissolved oxygen.

If you obtained a JTU measurement of ...

You would be able to see down this far with a Secchi Disk.



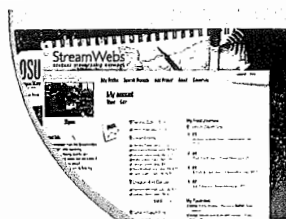
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School: OAK HIGHTS

Teacher: h. p. d. h. g.

Date: Sept 29 Time: 9:30

Stream/Site Name: S. San Juan @ trout creek Lat _____ Long _____

Any fish present? ☐ Yes ☒ No # of live fish: _____ # of carcasses: _____

TEST	Sample 1	Sample 2	Sample 3	Sample 4
Water Temperature <input checked="" type="checkbox"/> °C <input type="checkbox"/> °F	10 10			
Equipment used?	Vernier <input type="checkbox"/> Manual <input type="checkbox"/>	Vernier <input type="checkbox"/> Manual <input type="checkbox"/>	Vernier <input type="checkbox"/> Manual <input type="checkbox"/>	Vernier <input type="checkbox"/> Manual <input type="checkbox"/>
Air Temperature <input type="checkbox"/> °C <input type="checkbox"/> °F	10			
Equipment used?	Vernier <input type="checkbox"/> Manual <input type="checkbox"/>	Vernier <input type="checkbox"/> Manual <input type="checkbox"/>	Vernier <input type="checkbox"/> Manual <input type="checkbox"/>	Vernier <input type="checkbox"/> Manual <input type="checkbox"/>
Dissolved Oxygen (mg/L)	9.7			
Equipment used?	Vernier <input type="checkbox"/> Manual <input type="checkbox"/>	Vernier <input type="checkbox"/> Manual <input type="checkbox"/>	Vernier <input type="checkbox"/> Manual <input type="checkbox"/>	Vernier <input type="checkbox"/> Manual <input type="checkbox"/>
pH	7.0 7.5 7.8 8.0 8.2 8.5 8.8 9.0 9.2 9.5 9.8 10.0 10.2 10.5 10.8 11.0 11.2 11.5 11.8 12.0 12.2 12.5 12.8 13.0 13.2 13.5 13.8 14.0 14.2 14.5 14.8 15.0 15.2 15.5 15.8 16.0 16.2 16.5 16.8 17.0 17.2 17.5 17.8 18.0 18.2 18.5 18.8 19.0 19.2 19.5 19.8 20.0 20.2 20.5 20.8 21.0 21.2 21.5 21.8 22.0 22.2 22.5 22.8 23.0 23.2 23.5 23.8 24.0 24.2 24.5 24.8 25.0 25.2 25.5 25.8 26.0 26.2 26.5 26.8 27.0 27.2 27.5 27.8 28.0 28.2 28.5 28.8 29.0 29.2 29.5 29.8 30.0 30.2 30.5 30.8 31.0 31.2 31.5 31.8 32.0 32.2 32.5 32.8 33.0 33.2 33.5 33.8 34.0 34.2 34.5 34.8 35.0 35.2 35.5 35.8 36.0 36.2 36.5 36.8 37.0 37.2 37.5 37.8 38.0 38.2 38.5 38.8 39.0 39.2 39.5 39.8 40.0 40.2 40.5 40.8 41.0 41.2 41.5 41.8 42.0 42.2 42.5 42.8 43.0 43.2 43.5 43.8 44.0 44.2 44.5 44.8 45.0 45.2 45.5 45.8 46.0 46.2 46.5 46.8 47.0 47.2 47.5 47.8 48.0 48.2 48.5 48.8 49.0 49.2 49.5 49.8 50.0 50.2 50.5 50.8 51.0 51.2 51.5 51.8 52.0 52.2 52.5 52.8 53.0 53.2 53.5 53.8 54.0 54.2 54.5 54.8 55.0 55.2 55.5 55.8 56.0 56.2 56.5 56.8 57.0 57.2 57.5 57.8 58.0 58.2 58.5 58.8 59.0 59.2 59.5 59.8 60.0 60.2 60.5 60.8 61.0 61.2 61.5 61.8 62.0 62.2 62.5 62.8 63.0 63.2 63.5 63.8 64.0 64.2 64.5 64.8 65.0 65.2 65.5 65.8 66.0 66.2 66.5 66.8 67.0 67.2 67.5 67.8 68.0 68.2 68.5 68.8 69.0 69.2 69.5 69.8 70.0 70.2 70.5 70.8 71.0 71.2 71.5 71.8 72.0 72.2 72.5 72.8 73.0 73.2 73.5 73.8 74.0 74.2 74.5 74.8 75.0 75.2 75.5 75.8 76.0 76.2 76.5 76.8 77.0 77.2 77.5 77.8 78.0 78.2 78.5 78.8 79.0 79.2 79.5 79.8 80.0 80.2 80.5 80.8 81.0 81.2 81.5 81.8 82.0 82.2 82.5 82.8 83.0 83.2 83.5 83.8 84.0 84.2 84.5 84.8 85.0 85.2 85.5 85.8 86.0 86.2 86.5 86.8 87.0 87.2 87.5 87.8 88.0 88.2 88.5 88.8 89.0 89.2 89.5 89.8 90.0 90.2 90.5 90.8 91.0 91.2 91.5 91.8 92.0 92.2 92.5 92.8 93.0 93.2 93.5 93.8 94.0 94.2 94.5 94.8 95.0 95.2 95.5 95.8 96.0 96.2 96.5 96.8 97.0 97.2 97.5 97.8 98.0 98.2 98.5 98.8 99.0 99.2 99.5 99.8 100.0 100.2 100.5 100.8 101.0 101.2 101.5 101.8 102.0 102.2 102.5 102.8 103.0 103.2 103.5 103.8 104.0 104.2 104.5 104.8 105.0 105.2 105.5 105.8 106.0 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147.8 148.0 148.2 148.5 148.8 149.0 149.2 149.5 149.8 150.0 150.2 150.5 150.8 151.0 151.2 151.5 151.8 152.0 152.2 152.5 152.8 153.0 153.2 153.5 153.8 154.0 154.2 154.5 154.8 155.0 155.2 155.5 155.8 156.0 156.2 156.5 156.8 157.0 157.2 157.5 157.8 158.0 158.2 158.5 158.8 159.0 159.2 159.5 159.8 160.0 160.2 160.5 160.8 161.0 161.2 161.5 161.8 162.0 162.2 162.5 162.8 163.0 163.2 163.5 163.8 164.0 164.2 164.5 164.8 165.0 165.2 165.5 165.8 166.0 166.2 166.5 166.8 167.0 167.2 167.5 167.8 168.0 168.2 168.5 168.8 169.0 169.2 169.5 169.8 170.0 170.2 170.5 170.8 171.0 171.2 171.5 171.8 172.0 172.2 172.5 172.8 173.0 173.2 173.5 173.8 174.0 174.2 174.5 174.8 175.0 175.2 175.5 175.8 176.0 176.2 176.5 176.8 177.0 177.2 177.5 177.8 178.0 178.2 178.5 178.8 179.0 179.2 179.5 179.8 180.0 180.2 180.5 180.8 181.0 181.2 181.5 181.8 182.0 182.2 182.5 182.8 183.0 183.2 183.5 183.8 184.0 184.2 184.5 184.8 185.0 185.2 185.5 185.8 186.0 186.2 186.5 186.8 187.0 187.2 187.5 187.8 188.0 188.2 188.5 188.8 189.0 189.2 189.5 189.8 190.0 190.2 190.5 190.8 191.0 191.2 191.5 191.8 192.0 192.2 192.5 192.8 193.0 193.2 193.5 193.8 194.0 194.2 194.5 194.8 195.0 195.2 195.5 195.8 196.0 196.2 196.5 196.8 197.0 197.2 197.5 197.8 198.0 198.2 198.5 198.8 199.0 199.2 199.5 199.8 200.0 200.2 200.5 200.8 201.0 201.2 201.5 201.8 202.0 202.2 202.5 202.8 203.0 203.2 203.5 203.8 204.0 204.2 204.5 204.8 205.0 205.2 205.5 205.8 206.0 206.2 206.5 206.8 207.0 207.2 207.5 207.8 208.0 208.2 208.5 208.8 209.0 209.2 209.5 209.8 210.0 210.2 210.5 210.8 211.0 211.2 211.5 211.8 212.0 212.2 212.5 212.8 213.0 213.2 213.5 213.8 214.0 214.2 214.5 214.8 215.0 215.2 215.5 215.8 216.0 216.2 216.5 216.8 217.0 217.2 217.5 217.8 218.0 218.2 218.5 218.8 219.0 219.2 219.5 219.8 220.0 220.2 220.5 220.8 221.0 221.2 221.5 221.8 222.0 222.2 222.5 222.8 223.0 223.2 223.5 223.8 224.0 224.2 224.5 224.8 225.0 225.2 225.5 225.8 226.0 226.2 226.5 226.8 227.0 227.2 227.5 227.8 228.0 228.2 228.5 228.8 229.0 229.2 229.5 229.8 230.0 230.2 230.5 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355.2 355.5 355.8 356.0 356.2 356.5 356.8 357.0 357.2 357.5 357.8 358.0 358.2 358.5 358.8 359.0 359.2 359.5 359.8 360.0 360.2 360.5 360.8 361.0 361.2 361.5 361.8 362.0 362.2 362.5 362.8 363.0 363.2 363.5 363.8 364.0 364.2 364.5 364.8 365.0 365.2 365.5 365.8 366.0 366.2 366.5 366.8 367.0 367.2 367.5 367.8 368.0 368.2 368.5 368.8 369.0 369.2 369.5 369.8 370.0 370.2 370.5 370.8 371.0 371.2 371.5 371.8 372.0 372.2 372.5 372.8 373.0 373.2 373.5 373.8 374.0 374.2 374.5 374.8 375.0 375.2 375.5 375.8 376.0 376.2 376.5 376.8 377.0 377.2 377.5 377.8 378.0 378.2 378.5 378.8 379.0 379.2 379.5 379.8 380.0 380.2 380.5 380.8 381.0 381.2 381.5 381.8 382.0 382.2 382.5 382.8 383.0 383.2 383.5 383.8 384.0 384.2 384.5 384.8 385.0 385.2 385.5 385.8 386.0 386.2 386.5 386.8 387.0 387.2 387.5 387.8 388.0 388.2 388.5 388.8 389.0 389.2 389.5 389.8 390.0 390.2 390.5 390.8 391.0 391.2 391.5 391.8 392.0 392.2 392.5 392.8 393.0 393.2 393.5 393.8 394.0 394.2 394.5 394.8 395.0 395.2 395.5 395.8 396.0 396.2 396.5 396.8 397.0 397.2 397.5 397.8 398.0 398.2 398.5 398.8 399.0 399.2 399.5 399.8 400.0 400.2 400.5 400.8 401.0 401.2 401.5 401.8 402.0 402.2 402.5 402.8 403.0 403.2 403.5 403.8 404.0 404.2 404.5 404.8 405.0 405.2 405.5 405.8 406.0 406.2 406.5 406.8 407.0 407.2 407.5 407.8 408.0 408.2 408.5 408.8 409.0 409.2 409.5 409.8 410.0 410.2 410.5 410.8 411.0 411.2 411.5 411.8 412.0 412.2 412.5 412.8 413.0 413.2 413.5 413.8 414.0 414.2 414.5 414.8 415.0 415.2 415.5 415.8 416.0 416.2 416.5 416.8 417.0 417.2 417.5 417.8 418.0 418.2 418.5 418.8 419.0 419.2 419.5 419.8 420.0 420.2 420.5 420.8 421.0 421.2 421.5 421.8 422.0 422.2 422.5 422.8 423			



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www.streamwebs.org

School: _____

Teacher: _____

Date: _____ Time: _____

Stream/Site Name: _____ Lat _____ Long _____

Any fish present? ☐ Yes ☐ No # of live fish: _____ # of carcasses: _____

TEST	Sample 1	Sample 2	Sample 3	Sample 4
Water Temperature <input checked="" type="checkbox"/> °C <input type="checkbox"/> °F	10°C 56°F 47°F	11°C 52°F 15°C	12°C 50°F	10°C
Equipment used?	Vernier <input type="checkbox"/> Manual <input type="checkbox"/>	Vernier <input type="checkbox"/> Manual <input type="checkbox"/>	Vernier <input type="checkbox"/> Manual <input type="checkbox"/>	Vernier <input type="checkbox"/> Manual <input type="checkbox"/>
Air Temperature <input type="checkbox"/> °C <input type="checkbox"/> °F	61°F 18°C	16°C 61°F		
Equipment used?	Vernier <input type="checkbox"/> Manual <input type="checkbox"/>	Vernier <input type="checkbox"/> Manual <input type="checkbox"/>	Vernier <input type="checkbox"/> Manual <input type="checkbox"/>	Vernier <input type="checkbox"/> Manual <input type="checkbox"/>
Dissolved Oxygen (mg/L)	11			
Equipment used?	Vernier <input type="checkbox"/> Manual <input type="checkbox"/>	Vernier <input type="checkbox"/> Manual <input type="checkbox"/>	Vernier <input type="checkbox"/> Manual <input type="checkbox"/>	Vernier <input type="checkbox"/> Manual <input type="checkbox"/>
pH	7.0 7.5	7.5	7.0	8.0
Equipment used?	Vernier <input type="checkbox"/> Manual <input type="checkbox"/>	Vernier <input type="checkbox"/> Manual <input type="checkbox"/>	Vernier <input type="checkbox"/> Manual <input type="checkbox"/>	Vernier <input type="checkbox"/> Manual <input type="checkbox"/>
Turbidity (NTU)	52 53 11 45	52 60	58 49 13 54	33 37
Equipment used?	Vernier <input type="checkbox"/> Manual <input type="checkbox"/>	Vernier <input type="checkbox"/> Manual <input type="checkbox"/>	Vernier <input type="checkbox"/> Manual <input type="checkbox"/>	Vernier <input type="checkbox"/> Manual <input type="checkbox"/>

Adapted from: Environmental Services City of Portland

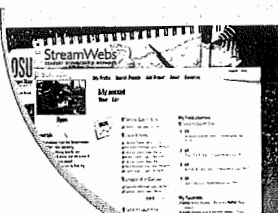


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School: _____

Teacher: _____

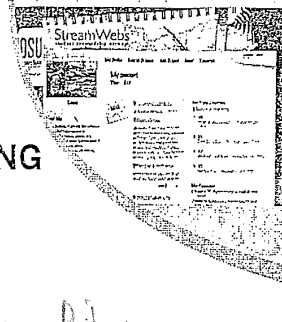
Date: _____ Time: _____

Stream/Site Name: _____ Lat _____ Long _____

Any fish present? ☐ Yes ☐ No # of live fish: _____ # of carcasses: _____

TEST	Sample 1	Sample 2	Sample 3	Sample 4
Water Temperature <input type="checkbox"/> °C <input type="checkbox"/> °F	11, 10, 10	11°C,	10°C	
Equipment used?	Vernier <input type="checkbox"/> Manual <input type="checkbox"/>	Vernier <input type="checkbox"/> Manual <input type="checkbox"/>	Vernier <input type="checkbox"/> Manual <input type="checkbox"/>	Vernier <input type="checkbox"/> Manual <input type="checkbox"/>
Air Temperature <input type="checkbox"/> °C <input type="checkbox"/> °F				
Equipment used?	Vernier <input type="checkbox"/> Manual <input type="checkbox"/>	Vernier <input type="checkbox"/> Manual <input type="checkbox"/>	Vernier <input type="checkbox"/> Manual <input type="checkbox"/>	Vernier <input type="checkbox"/> Manual <input type="checkbox"/>
Dissolved Oxygen (mg/L)				
Equipment used?	Vernier <input type="checkbox"/> Manual <input type="checkbox"/>	Vernier <input type="checkbox"/> Manual <input type="checkbox"/>	Vernier <input type="checkbox"/> Manual <input type="checkbox"/>	Vernier <input type="checkbox"/> Manual <input type="checkbox"/>
pH	7.5, 7	7.5	7.0	
Equipment used?	Vernier <input type="checkbox"/> Manual <input type="checkbox"/>	Vernier <input type="checkbox"/> Manual <input type="checkbox"/>	Vernier <input type="checkbox"/> Manual <input type="checkbox"/>	Vernier <input type="checkbox"/> Manual <input type="checkbox"/>
Turbidity (NTU)	58.45 ± 1.5	60	53	
Equipment used?	Vernier <input type="checkbox"/> Manual <input type="checkbox"/>	Vernier <input type="checkbox"/> Manual <input type="checkbox"/>	Vernier <input type="checkbox"/> Manual <input type="checkbox"/>	Vernier <input type="checkbox"/> Manual <input type="checkbox"/>

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
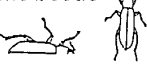


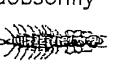
Name: Group 1
School: Nash Grove Elementary Teacher: Riley
Date: 9/17/13 Time: 10:50 Weather: Very Rainy
Stream/Site Name: W. Jay Creek Time spent sorting/identifying: 9:15
of people sorting/identifying: 9 ☒ Riffle ☒ Pool

Directions:





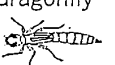


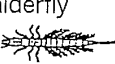

1. Record the number of each type of organism found in the # found column of each section.
2. Then circle the number in the score column (3, 2, or 1) if any of that organism was found.
3. Complete the equation at the bottom by adding up the circled numbers from each score column.

SENSITIVITY TO POLLUTION

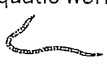
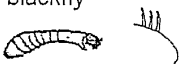

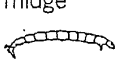


Sensitive / Intolerant

	# found	score
caddisfly 	<u>1</u>	3
mayfly 	<u>1</u>	3
riffle beetle 		3
stonefly 	<u>4</u>	3
water penny 		3
dobsonfly 		3
Sensitive TOTAL =		<u>18</u>

Somewhat Sensitive

	# found	score
clam/mussel 		2
crane fly 		2
crayfish 		2
damselfly 		2
dragonfly 		2
scud 		2
fishfly 		2
alderfly 		2
mite 		2
Somewhat Sensitive TOTAL =		

Tolerant

	# found	score
aquatic worm 		1
blackfly 		1
leech 		1
midge 	<u>8</u>	1
snail 		1
mosquito larva 		1
Tolerant TOTAL =		<u>8</u>

Adapted from: Environmental Services
City of Portland

<u>18</u>	Sensitive total
	Somewhat sensitive total
<u>8</u>	Tolerant total
<u>26</u>	Water Quality Rating
<input checked="" type="checkbox"/> Excellent (>22)	<input type="checkbox"/> Good (17-22)
<input type="checkbox"/> Fair (11-16)	<input type="checkbox"/> Poor (<11)



Share your field data quickly and easily using StreamWebs. Find out what the macroinvertebrates you found say about your stream, keep track of your photopoints, graph water quality data, upload a video, and much more.

www.streamwebs.org



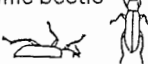



Name: Anika
School: NAES Teacher: Mrs. Blair
Date: 9-21-15 Time: 12:30 Weather: Sunny
Stream/Site Name: Wiley Creek Time spent sorting/identifying: 11 people
of people sorting/identifying: _____ ☒ Riffle ☒ Pool

Directions:





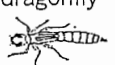




1. Record the number of each type of organism found in the # found column of each section.
2. Then circle the number in the score column (3, 2, or 1) if any of that organism was found.
3. Complete the equation at the bottom by adding up the circled numbers from each score column.

SENSITIVITY TO POLLUTION


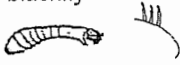

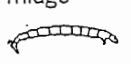


Sensitive / Intolerant

	# found	score
caddisfly 		3
mayfly 		3
riffle beetle 		3
stonefly 		3
water penny 		3
dobsonfly 		3
Sensitive TOTAL =		

Somewhat Sensitive

	# found	score
clam/mussel 		2
crane fly 		2
crayfish 		2
damselfly 		2
dragonfly 		2
scud 		2
fishfly 		2
alderfly 		2
mite 		2
Somewhat Sensitive TOTAL =		

Tolerant

	# found	score
aquatic worm 		1
blackfly 		1
leech 		1
midge 		1
snail 		1
mosquito larva 		1
Tolerant TOTAL =		

Adapted from: Environmental Services
City of Portland

<input type="text"/>	Sensitive total
<input type="text"/>	Somewhat sensitive total
<input type="text"/>	Tolerant total
<input type="text"/>	Water Quality Rating
<input type="checkbox"/>	Excellent (>22)
<input type="checkbox"/>	Good (17-22)
<input type="checkbox"/>	Fair (11-16)
<input type="checkbox"/>	Poor (<11)



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www.streamwebs.org

Name: Trout Creek Campground ^{Group}
 School: Foster Elementary Teacher: Mrs. Hawkin
 Date: 9-21-15 Time: _____ Weather: slightly cloudy w/ chance of rain
 Stream/Site Name: Trout Creek Time spent sorting/identifying: 30 minutes
 # of people sorting/identifying: 9 ☐ Riffle ☒ Pool

Directions:

1. Record the number of each type of organism found in the # found column of each section.
2. Then circle the number in the score column (3, 2, or 1) if any of that organism was found.
3. Complete the equation at the bottom by adding up the circled numbers from each score column.

SENSITIVITY TO POLLUTION

Sensitive / Intolerant

	# found	score
caddisfly 	2	3
mayfly 	22	3
riffle beetle 		3
stonefly 	21	3
water penny 		3
dobsonfly 		3
Sensitive TOTAL=		9

Somewhat Sensitive

	# found	score
clam/mussel 		2
crane fly 	2	2
crayfish 		2
damselfly 		2
dragonfly 		2
scud 		2
fishfly 		2
alderfly 		2
mite 	2	2
Somewhat Sensitive TOTAL=		4

Tolerant

	# found	score
aquatic worm 	6	1
blackfly 		1
leech 		1
midge 	1	1
snail 		1
mosquito larva 		1
Tolerant TOTAL=		2

Adapted from: Environmental Services
City of Portland

9	Sensitive total
4	Somewhat sensitive total
2	Tolerant total
15	Water Quality Rating
Excellent (>22)	Good (17-22)
Fair (11-16)	Poor (<11)

Authors: Amy Hoffman and Renee O'Neill; editing by Rick Cooper.

Published by Oregon Sea Grant, 1600 SW Western Blvd., Suite 350,
Corvallis, OR 97333. Phone: 541-737-2714. Web: seagrants.oregonstate.edu/

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This report was prepared by Oregon Sea Grant under award number NA16NOS4290143 (grant ID NA295A) from the National Oceanic and Atmospheric Administration (NOAA) StreamWebs Student Stewardship, U.S. Department of Commerce, and by appropriations made by the Oregon State Legislature. The statements, findings, conclusions, and recommendations are those of the authors and do not necessarily reflect the views of these funders.

ORESU-E-17-002

