Appendix \_\_. Metric Discrimination Efficiency (DE)

Trends are positive (+), very positive (++, DE > 45) for metrics that increase with increasing stress or negative (-) or very negative (--, DE > 45) for metrics that decrease with increasing stress are marked. The metric is not responsive (Trend = 0) if DE < 30%.

Selection are for preliminary and final use of the metric for index analyses.

Metric codes are described in Appendix \_\_.

|  |  | High-Elevation  Mountains | | | Mid-Elevation  Mtns & Basin | | | Plains | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Metric | Selection | DE | Zscore | Trend | DE | Zscore | Trend | DE | Zscore | Trend |
| Acidity |  |  |  |  |  |  |  |  |  |  |
| wa\_pH\_WDEQ |  | 75 | 0.86 | - - |  | -0.11 | 0.00 | 75 | -1.23 | + + |
| wa\_OptCat\_pH |  | 50 | 0.90 | - - |  | 0.01 | 0.00 |  | 0.16 | 0.00 |
| pi\_pH\_WDEQ\_1 |  |  | 0.22 | 0 |  | 0.10 | 0 |  |  | 0 |
| pi\_pH\_WDEQ\_2 |  |  | 0.66 | 0 |  | 0.11 | 0 |  | 0.38 | 0 |
| pi\_pH\_WDEQ\_3 |  | 75 | -1.66 | + + | 32 | 0.28 | - | 75 | 0.97 | - - |
| pi\_pH\_WDEQ\_4 |  | 75 | 0.97 | - - | 32 | -0.19 | + | 83 | -1.93 | + + |
| pi\_pH\_WDEQ\_5 |  | 50 | -0.28 | + + |  | 0.13 | 0 | 50 | -0.20 | - - |
| pi\_pH\_WDEQ\_6 |  |  | 0.21 | 0 |  |  | 0 |  | 0.27 | 0 |
| nt\_pH\_WDEQ\_1 |  |  | 0.23 | 0 |  | 0.10 | 0 |  |  | 0 |
| nt\_pH\_WDEQ\_2 |  |  | 0.95 | 0 |  | 0.21 | 0 |  | 0.50 | 0 |
| nt\_pH\_WDEQ\_3 |  | 75 | 1.61 | - - |  | 0.27 | 0.00 | 42 | 0.84 | - |
| nt\_pH\_WDEQ\_4 |  | 75 | 0.95 | - - |  | -0.48 | 0.00 | 33 | 0.47 | - |
| nt\_pH\_WDEQ\_5 |  | 50 | -0.64 | + + |  | -0.03 | 0 |  | 0.76 | 0 |
| nt\_pH\_WDEQ\_6 |  |  | 0.23 | 0 |  |  | 0 |  | 0.27 | 0 |
| pt\_pH\_WDEQ\_1 |  |  | 0.23 | 0 |  | 0.10 | 0 |  |  | 0 |
| pt\_pH\_WDEQ\_2 |  |  | 0.88 | 0 |  | 0.23 | 0 |  | 0.49 | 0 |
| pt\_pH\_WDEQ\_3 |  |  | 0.22 | 0 | 56 | 0.74 | - - |  | 0.19 | 0 |
| pt\_pH\_WDEQ\_4 |  | 75 | -1.23 | + + | 44 | -0.50 | + | 100 | -2.31 | + + |
| pt\_pH\_WDEQ\_5 |  | 75 | -1.91 | + + |  | 0.08 | 0 | 42 | 0.61 | - |
| pt\_pH\_WDEQ\_6 |  |  | 0.22 | 0 |  |  | 0 |  | 0.27 | 0 |
| Condition |  |  |  |  |  |  |  |  |  |  |
| WA\_BC\_USGS | PrelimPick | 75 | -0.96 | + + | 68 | -1.08 | + + | 83 | -1.34 | + + |
| BC\_1.r |  | 100 | 1.60 | - - |  | 0.09 | 0.00 | 100 | 1.51 | - - |
| BC\_2.r |  | 75 | 1.28 | - - | 38 | 0.53 | - | 92 | 1.28 | - - |
| BC\_3.r |  | 100 | 2.14 | - - |  | 0.11 | 0.00 | 58 | 0.84 | - - |
| BC\_12.r | PrelimPick | 75 | 1.74 | - - | 53 | 0.39 | - - | 100 | 1.68 | - - |
| BC\_123.r |  | 100 | 2.24 | - - | 38 | 0.30 | - | 100 | 1.36 | - - |
| BC\_4.r |  | 50 | 1.03 | - - | 59 | -0.66 | + + | 42 | 0.34 | - |
| BC\_5.r |  |  | -0.27 | 0 | 47 | -0.88 | + + |  | -0.23 | 0 |
| BC\_45.r |  | 50 | 0.57 | - - | 56 | -0.82 | + + |  | 0.11 | 0.00 |
| BC\_1.pt |  | 50 | 0.81 | - - | 35 | 0.29 | - | 92 | 1.75 | - - |
| BC\_2.pt |  | 75 | -1.14 | + + | 53 | 0.77 | - - | 92 | 1.10 | - - |
| BC\_3.pt |  |  | 0.50 | 0 | 56 | 0.68 | - - |  | 0.13 | 0 |
| BC\_4.pt |  |  | 0.41 | 0 | 56 | -0.65 | + + | 67 | -1.47 | + + |
| BC\_5.pt | PrelimPick | 100 | -2.00 | + + | 71 | -0.94 | + + | 75 | -1.51 | + + |
| BC\_45.pt | FinalSelect | 50 | -0.67 | + + | 76 | -0.96 | + + | 100 | -2.00 | + + |
| BC\_1.pa |  | 75 | 0.49 | - - | 44 | 0.25 | - | 92 | 0.84 | - - |
| BC\_2.pa |  | 75 | 1.15 | - - | 62 | 0.59 | - - | 92 | 1.25 | - - |
| BC\_12.pa | FinalSelect | 100 | 1.35 | - - | 56 | 0.64 | - - | 100 | 1.32 | - - |
| BC\_3.pa |  | 75 | -1.38 | + + | 53 | 0.54 | - - | 33 | 0.21 | - |
| BC\_4.pa |  | 50 | 0.76 | - - | 53 | -0.96 | + + | 58 | -0.60 | + + |
| BC\_5.pa | PrelimPick | 50 | -0.36 | + + | 59 | -0.99 | + + | 50 | -1.18 | + + |
| General |  |  |  |  |  |  |  |  |  |  |
| nt\_total |  | 75 | 1.74 | - - | 32 | -0.34 | + | 67 | 1.00 | - - |
| ni\_total |  |  | -0.35 | 0 |  | -0.16 | 0 | 83 | -0.17 | + + |
| pi\_Pioneer |  | 75 | -1.71 | + + |  | 0.25 | 0 | 50 | 0.46 | - - |
| pi\_Cyclotella |  |  | 0.20 | 0 |  | 0.17 | 0 |  | 0.27 | 0 |
| pt\_Cymbella |  |  | 0.62 | 0 |  | 0.17 | 0 |  | 0.50 | 0 |
| ACHNANTHIDIUM.r |  |  | 0.10 | 0 |  | -0.26 | 0 | 92 | 0.96 | - - |
| ACHNANTHIDIAE.r |  | 75 | 0.90 | - - |  | -0.23 | 0.00 |  | 0.28 | 0.00 |
| BACILLARIACEAE.r |  | 50 | 0.57 | - - | 44 | -0.65 | + | 33 | 0.59 | - |
| NAVICULA.r |  | 75 | 0.93 | - - | 44 | -0.59 | + |  | 0.30 | 0.00 |
| ARAPHID.r |  | 100 | 1.44 | - - | 32 | 0.25 | - | 33 | 0.44 | - |
| CENTRIC.r |  | 100 | 1.25 | - - |  | -0.33 | 0.00 | 50 | -0.50 | + + |
| taxacount |  | 75 | 1.75 | - - | 32 | -0.33 | + | 67 | 1.00 | - - |
| ACHNANTHIDIUM.pt |  | 75 | -1.59 | + + | 32 | 0.11 | + |  | 0.46 | 0 |
| ACHNANTHIDIAE.pt |  | 50 | -0.54 | + + | 32 | 0.11 | - | 50 | -0.62 | + + |
| BACILLARIACEAE.pt |  | 50 | -0.63 | + + | 44 | -0.55 | + |  | -0.03 | 0 |
| NAVICULA.pt |  |  | 0.52 | 0 | 41 | -0.44 | + | 67 | -0.55 | + + |
| ARAPHID.pt |  | 50 | -0.83 | + + | 32 | 0.48 | - |  | -0.17 | 0 |
| CENTRIC.pt |  | 100 | 1.53 | - - | 35 | -0.39 | + | 83 | -1.17 | + + |
| ACHNANTHIDIUM.pa |  | 75 | -1.71 | + + |  | 0.25 | 0 | 50 | 0.46 | - - |
| ACHNANTHIDIAE.pa |  | 75 | -1.62 | + + |  | 0.23 | 0 | 42 | -0.43 | + |
| BACILLARIACEAE.pa |  | 50 | 0.16 | - - | 59 | -1.41 | + + | 42 | -0.29 | + |
| NAVICULA.pa |  | 75 | 0.72 | - - | 41 | -0.58 | + | 42 | -0.49 | + |
| ARAPHID.pa |  | 50 | 0.63 | - - | 35 | 0.49 | - | 50 | 0.55 | - - |
| CENTRIC.pa |  | 100 | 0.65 | - - | 47 | -0.05602 | + + | 50 | -1.34 | + + |
| Habit |  |  |  |  |  |  |  |  |  |  |
| nt\_Ben\_Ses\_1 |  | 75 | 1.63 | - - | 32 | -0.30 | + | 67 | 1.04 | - - |
| nt\_Ben\_Ses\_2 |  | 50 | 0.78 | - - |  | 0.14 | 0.00 |  | 0.76 | 0.00 |
| pi\_Ben\_Ses\_1 |  | 50 | -0.45 | + + | 35 | -0.01 | - | 42 | 0.48 | - |
| pi\_Ben\_Ses\_2 |  | 50 | 0.55 | - - |  | 0.08 | 0.00 |  | 0.41 | 0.00 |
| pt\_Ben\_Ses\_1 |  | 75 | -0.84 | + + |  | 0.22 | 0 | 42 | 0.32 | - |
| pt\_Ben\_Ses\_2 |  | 50 | 0.37 | - - |  | 0.13 | 0.00 |  | 0.72 | 0.00 |
| pi\_TubeDwellers | FinalSelect | 100 | 1.16 | - - | 59 | 0.41 | - - | 58 | 0.84 | - - |
| wa\_OptCat\_PctFN |  | 75 | 0.95 | - - | 65 | -1.11 | + + |  | -0.38 | 0.00 |
| wa\_OptCat\_XEMBED |  | 75 | 0.93 | - - | 62 | -1.24 | + + |  | -0.20 | 0.00 |
| BENTHIC\_HABIT.r |  | 75 | 1.61 | - - | 32 | -0.33 | + | 75 | 1.12 | - - |
| SESTONIC\_HABIT.r |  | 100 | 1.55 | - - |  | -0.07 | 0.00 | 33 | -0.66 | + |
| STALKED.r |  | 50 | 1.03 | - - |  | 0.32 | 0.00 | 42 | 0.75 | - |
| ADNATE.r |  | 75 | 1.09 | - - |  | -0.13 | 0.00 |  | 0.25 | 0.00 |
| BENTHIC\_HABIT.pt |  | 75 | -1.47 | + + |  | 0.05 | 0 | 75 | 1.39 | - - |
| SESTONIC\_HABIT.pt |  | 75 | 1.26 | - - |  | -0.05 | 0.00 | 83 | -1.49 | + + |
| STALKED.pt |  |  | 0.47 | 0 | 53 | 0.47 | - - | 58 | 0.28 | - - |
| ADNATE.pt |  | 50 | -0.78 | + + |  | 0.27 | 0 | 50 | -0.48 | + + |
| BENTHIC\_HABIT.pa |  | 100 | -0.70 | + + |  | -0.22 | 0 | 58 | 1.02 | - - |
| SESTONIC\_HABIT.pa |  | 100 | 0.67 | - - |  | 0.23 | 0.00 | 58 | -1.02 | + + |
| STALKED.pa |  | 75 | 0.70 | - - | 38 | 0.18 | - | 33 | -0.11 | + |
| ADNATE.pa |  | 75 | -1.43 | + + | 50 | 0.51 | - - | 33 | -0.35 | + |
| Ions |  |  |  |  |  |  |  |  |  |  |
| nt\_Diat\_Ca\_1 |  |  | 1.09 | 0 | 47 | -0.82 | + + | 58 | 0.75 | - - |
| nt\_Diat\_Ca\_2 |  | 50 | 1.05 | - - |  | 0.43 | 0.00 |  | 0.13 | 0.00 |
| nt\_Diat\_Cond\_1 |  |  | 0.10 | 0 | 56 | -1.31 | + + | 42 | 0.58 | - |
| nt\_Diat\_Cond\_2 |  | 100 | 2.03 | - - |  | 0.50 | 0.00 | 33 | 0.57 | - |
| nt\_Diat\_Cl\_1 |  |  | 0.49 | 0 | 38 | -0.84 | + |  | 0.05 | 0 |
| nt\_Diat\_Cl\_2 | FinalSelect | 75 | 1.77 | - - | 38 | 0.37 | - | 67 | 1.04 | - - |
| pi\_Diat\_CA\_1 |  | 75 | 0.74 | - - |  | -0.17 | 0.00 | 67 | 1.06 | - - |
| pi\_Diat\_CA\_2 |  |  | -0.07 | 0 |  | 0.36 | 0 | 42 | -0.81 | + |
| pi\_Diat\_CL\_1 |  |  | 0.37 | 0 | 38 | 0.01 | + | 42 | -0.97 | + |
| pi\_Diat\_CL\_2 |  | 75 | -1.30 | + + | 68 | 1.38 | - - | 42 | 0.90 | - |
| pi\_Diat\_Cond\_1 |  |  | 0.01 | 0 | 62 | -2.78 | + + |  | 0.44 | 0 |
| pi\_Diat\_Cond\_2 |  | 75 | 0.67 | - - | 35 | 0.48 | - | 67 | 0.72 | - - |
| pt\_Diat\_CA\_1 |  | 50 | 0.21 | - - | 56 | -0.71 | + + | 33 | -0.12 | + |
| pt\_Diat\_CA\_2 |  |  | -0.32 | 0 |  | 0.48 | 0 | 50 | -0.09 | + + |
| pt\_Diat\_CL\_1 |  | 75 | -0.88 | + + | 62 | -1.38 | + + |  | 0.21 | 0 |
| pt\_Diat\_CL\_2 | PrelimPick | 50 | 0.51 | - - | 44 | 0.61 | - | 50 | 0.58 | - - |
| pt\_Diat\_Cond\_1 |  |  | 0.49 | 0 | 38 | -0.82 | + | 33 | -0.20 | + |
| pt\_Diat\_Cond\_2 | FinalSelect | 50 | -0.70 | + + | 65 | 1.14 | - - | 58 | 0.76 | - - |
| wa\_OptCat\_LCond |  | 50 | 0.97 | - - | 59 | -0.97 | + + | 33 | -0.41 | + |
| WA\_Salinity\_USGS | FinalSelect | 100 | -1.02 | + + | 47 | -0.49 | + + | 100 | -1.59 | + + |
| SALINITY\_1.r | PrelimPick | 75 | 1.16 | - - | 47 | 0.40 | - - | 42 | 1.08 | - |
| SALINITY\_2.r |  | 75 | 1.32 | - - | 35 | -0.09 | + | 75 | 0.80 | - - |
| SALINITY\_3.r |  |  | 0.42 | 0 | 56 | -1.16 | + + | 33 | -0.28 | + |
| SALINITY\_4.r |  | 50 | -2.04 | + + |  | -0.65 | 0 |  | 0.12 | 0 |
| SALINITY\_1.pt |  |  | 0.65 | 0 | 47 | 0.64 | - - | 50 | 0.82 | - - |
| SALINITY\_2.pt |  | 75 | -0.91 | + + | 44 | 0.44 | - | 42 | -0.47 | + |
| SALINITY\_3.pt |  |  | -0.22 | 0 | 65 | -1.30 | + + | 92 | -1.51 | + + |
| SALINITY\_4.pt |  | 50 | -2.09 | + + | 50 | -0.64 | + + |  | -0.18 | 0 |
| SALINITY\_1.pa |  |  | -0.11 | 0 | 38 | 0.21 | - | 67 | 0.62 | - - |
| SALINITY\_2.pa |  | 100 | -1.21 | + + | 32 | 0.16 | - | 50 | -0.15 | + + |
| SALINITY\_3.pa |  |  | 0.25 | 0 | 53 | -0.87 | + + | 58 | -1.23 | + + |
| SALINITY\_4.pa |  | 50 | -3.19 | + + | 50 | -0.49 | + + | 33 | 0.15 | - |
| wa\_H\_WDEQ |  |  | 0.23 | 0 | 56 | -0.66 | + + |  | -0.17 | 0 |
| pi\_H\_WDEQ\_1 |  |  | -0.14 | 0 | 41 | 0.18 | - | 75 | 0.55 | - - |
| pi\_H\_WDEQ\_2 |  | 75 | -1.07 | + + | 47 | 0.65 | - - | 33 | -0.20 | + |
| pi\_H\_WDEQ\_3 |  |  | 0.33 | 0 | 50 | -0.49 | + + |  | -0.42 | 0 |
| pi\_H\_WDEQ\_4 |  | 50 | -0.26 | + + | 68 | -1.35 | + + |  | 0.36 | 0 |
| pi\_H\_WDEQ\_12 |  | 100 | -1.18 | + + | 56 | 0.73 | - - | 33 | -0.07 | + |
| pi\_H\_WDEQ\_34 |  |  | 0.31 | 0 | 50 | -0.56 | + + |  | -0.29 | 0 |
| nt\_H\_WDEQ\_1 |  | 75 | 1.08 | - - | 35 | 0.41 | - | 67 | 0.81 | - - |
| nt\_H\_WDEQ\_2 |  | 75 | 1.36 | - - |  | -0.02 | 0.00 | 42 | 0.63 | - |
| nt\_H\_WDEQ\_3 |  |  | 0.27 | 0 | 62 | -1.08 | + + |  | 0.13 | 0 |
| nt\_H\_WDEQ\_4 |  | 50 | -0.44 | + + | 56 | -1.50 | + + |  | 0.26 | 0 |
| nt\_H\_WDEQ\_34 |  |  | 0.16 | 0 | 71 | -1.32 | + + |  | 0.19 | 0 |
| pt\_H\_WDEQ\_1 |  |  | 0.40 | 0 | 44 | 0.57 | - | 58 | 0.79 | - - |
| pt\_H\_WDEQ\_2 |  | 100 | -1.84 | + + | 56 | 0.68 | - - | 42 | -0.34 | + |
| pt\_H\_WDEQ\_3 |  | 50 | -0.89 | + + | 68 | -1.00 | + + | 42 | -0.98 | + |
| pt\_H\_WDEQ\_4 |  | 50 | -1.01 | + + | 68 | -1.55 | + + |  | 0.05 | 0 |
| pt\_H\_WDEQ\_34 | FinalSelect | 75 | -1.03 | + + | 76 | -1.34 | + + |  | -0.50 | 0 |
| Moisture |  |  |  |  |  |  |  |  |  |  |
| wa\_M\_WDEQ |  | 100 | -1.55 | + + | 35 | -0.43 | + | 42 | -0.67 | + |
| pi\_M\_WDEQ\_1 |  | 100 | 1.31 | - - |  | 0.23 | 0.00 | 67 | 0.82 | - - |
| pi\_M\_WDEQ\_2 |  | 50 | 0.67 | - - |  | 0.34 | 0.00 | 42 | 0.35 | - |
| pi\_M\_WDEQ\_12 |  | 100 | 1.40 | - - |  | 0.44 | 0.00 | 58 | 0.78 | - - |
| pi\_M\_WDEQ\_3 |  | 100 | -1.97 | + + | 38 | -0.37 | + | 92 | -0.97 | + + |
| pi\_M\_WDEQ\_4 |  | 50 | 0.30 | - - |  | -0.81 | 0.00 | 67 | 0.65 | - - |
| pi\_M\_WDEQ\_5 |  |  | 0.22 | 0 |  | 0.17 | 0 |  | 0.27 | 0 |
| nt\_M\_WDEQ\_1 |  | 100 | 1.95 | - - |  | -0.40 | 0.00 | 33 | 0.48 | - |
| nt\_M\_WDEQ\_2 |  | 50 | 1.14 | - - |  | -0.01 | 0.00 | 92 | 1.42 | - - |
| nt\_M\_WDEQ\_12 | FinalSelect | 75 | 1.83 | - - |  | -0.20 | 0.00 | 92 | 1.09 | - - |
| nt\_M\_WDEQ\_3 |  | 75 | 1.22 | - - |  | -0.28 | 0.00 |  | 0.07 | 0.00 |
| nt\_M\_WDEQ\_4 |  |  | 0.31 | 0 |  | -0.28 | 0 | 58 | 1.00 | - - |
| nt\_M\_WDEQ\_5 |  |  | 0.33 | 0 |  | 0.21 | 0 |  | 0.27 | 0 |
| pt\_M\_WDEQ\_1 |  | 75 | 0.68 | - - |  | -0.06 | 0.00 | 33 | -0.27 | + |
| pt\_M\_WDEQ\_2 |  |  | -0.68 | 0 | 35 | 0.26 | - | 50 | 0.87 | - - |
| pt\_M\_WDEQ\_3 |  | 50 | -0.62 | + + | 32 | -0.09 | + | 83 | -1.81 | + + |
| pt\_M\_WDEQ\_4 |  | 50 | -0.77 | + + |  | -0.30 | 0 | 67 | 0.79 | - - |
| pt\_M\_WDEQ\_5 |  |  | 0.32 | 0 |  | 0.20 | 0 |  | 0.27 | 0 |
| Motility |  |  |  |  |  |  |  |  |  |  |
| WA\_Motility\_USGS |  | 50 | -0.13 | + + | 74 | -1.24 | + + |  | -0.33 | 0 |
| NON\_MOTILE.r |  | 100 | 1.64 | - - |  | 0.12 | 0.00 |  | 0.28 | 0.00 |
| WEAKLY\_MOTILE.r |  | 100 | 2.08 | - - |  | 0.52 | 0.00 |  | -0.28 | 0.00 |
| SLIGHTLY\_MOTILE.r |  | 75 | 1.03 | - - | 38 | -0.31 | + | 50 | 0.54 | - - |
| MODERATELY\_MOTILE.r |  | 75 | 1.44 | - - |  | -0.20 | 0.00 | 92 | 1.54 | - - |
| HIGHLY\_MOTILE.r |  | 50 | 0.57 | - - | 41 | -0.62 | + |  | 0.16 | 0.00 |
| HIGHLY\_MOTILE.1.r |  | 50 | 0.94 | - - | 47 | -0.65 | + + | 58 | 0.92 | - - |
| NON\_MOTILE.pt |  |  | -0.20 | 0 | 32 | 0.34 | - | 33 | -0.64 | + |
| WEAKLY\_MOTILE.pt |  | 75 | 1.16 | - - | 59 | 0.62 | - - | 50 | -0.62 | + + |
| SLIGHTLY\_MOTILE.pt |  |  | -0.75 | 0 | 32 | -0.01 | + |  | -0.01 | 0 |
| MODERATELY\_MOTILE.pt |  | 50 | 0.70 | - - |  | 0.13 | 0.00 | 75 | 1.37 | - - |
| HIGHLY\_MOTILE.pt |  | 50 | -0.54 | + + | 50 | -0.56 | + + | 42 | -0.58 | + |
| HIGHLY\_MOTILE.1.pt |  | 50 | -0.04 | - - | 56 | -0.80 | + + | 42 | 0.21 | - |
| NON\_MOTILE.pa |  | 50 | 0.67 | - - |  | 0.48 | 0.00 | 42 | 0.24 | - |
| WEAKLY\_MOTILE.pa |  | 100 | 0.85 | - - | 68 | 0.51 | - - |  | 0.44 | 0.00 |
| SLIGHTLY\_MOTILE.pa |  | 75 | -1.76 | + + | 41 | 0.28 | - |  | -0.28 | 0 |
| MODERATELY\_MOTILE.pa |  | 75 | 1.29 | - - | 35 | 0.05 | - | 83 | 1.09 | - - |
| HIGHLY\_MOTILE.pa |  | 50 | 0.17 | - - | 59 | -1.46 | + + | 42 | -0.63 | + |
| HIGHLY\_MOTILE.1.pa |  | 50 | 0.49 | - - | 68 | -1.15 | + + | 33 | -0.08 | + |
| Nutrients |  |  |  |  |  |  |  |  |  |  |
| nt\_Diatas\_TN\_1 |  |  | 0.49 | 0 | 35 | -0.80 | + | 58 | -0.60 | + + |
| nt\_Diatas\_TN\_2 | FinalSelect | 75 | 1.55 | - - | 65 | 0.75 | - - | 100 | 1.58 | - - |
| nt\_Diatas\_TP\_1 |  |  | 0.01 | 0 | 62 | -1.25 | + + |  | 0.04 | 0 |
| nt\_Diatas\_TP\_2 |  | 100 | 2.12 | - - |  | 0.79 | 0.00 | 100 | 1.27 | - - |
| pi\_Diatas\_TP\_1 |  |  | 0.11 | 0 | 65 | -1.26 | + + | 58 | -1.01 | + + |
| pi\_Diatas\_TP\_2 |  | 75 | -1.89 | + + | 53 | 0.36 | - - | 83 | 0.83 | - - |
| pi\_Diatas\_TN\_1 |  | 50 | 0.51 | - - | 38 | -0.67 | + | 83 | -2.54 | + + |
| pi\_Diatas\_TN\_2 |  | 75 | -1.81 | + + | 53 | 0.50 | - - | 83 | 1.12 | - - |
| pt\_Diatas\_TP\_1 | PrelimPick | 75 | -1.24 | + + | 50 | -0.71 | + + | 100 | -2.86 | + + |
| pt\_Diatas\_TP\_2 |  | 75 | -0.90 | + + | 71 | 0.83 | - - | 92 | 1.52 | - - |
| pt\_Diatas\_TN\_1 | FinalSelect | 50 | -1.24 | + + | 68 | -1.28 | + + | 83 | -1.21 | + + |
| pt\_Diatas\_TN\_2 |  |  | 0.05 | 0 | 74 | 0.91 | - - | 67 | 1.08 | - - |
| pi\_NFixers |  | 50 | -0.12 | + + |  | 0.11 | 0 |  | 0.74 | 0 |
| wa\_OptCat\_L1Ptl |  | 75 | 1.12 | - - | 71 | -1.05 | + + |  | -0.81 | 0.00 |
| wa\_OptCat\_LNtl |  | 75 | 0.94 | - - | 68 | -1.52 | + + |  | -0.62 | 0.00 |
| wa\_OptCat\_NutMMI |  | 75 | 1.09 | - - | 68 | -1.26 | + + |  | -0.73 | 0.00 |
| LOW\_P.r | FinalSelect | 100 | 2.45 | - - | 47 | 0.84 | - - | 75 | 1.12 | - - |
| HIGH\_P.r |  |  | -0.02 | 0 | 62 | -1.17 | + + |  | -0.19 | 0 |
| LOW\_N.r | PrelimPick | 75 | 1.83 | - - | 50 | 0.60 | - - | 92 | 1.45 | - - |
| HIGH\_N.r |  | 50 | 0.44 | - - | 38 | -0.72 | + | 42 | -0.63 | + |
| N\_FIXER.r |  | 50 | -0.80 | + + |  | -0.09 | 0 |  | 0.91 | 0 |
| NON\_N\_FIXER.r |  | 75 | 1.82 | - - | 32 | -0.33 | + | 50 | 0.94 | - - |
| LOW\_P.pt | PrelimPick | 50 | 0.76 | - - | 56 | 0.90 | - - | 50 | 0.84 | - - |
| HIGH\_P.pt | PrelimPick | 75 | -2.06 | + + | 59 | -1.26 | + + | 100 | -1.74 | + + |
| LOW\_N.pt |  | 50 | -0.54 | + + | 59 | 0.84 | - - | 83 | 1.50 | - - |
| HIGH\_N.pt | PrelimPick | 75 | -1.49 | + + | 59 | -0.72 | + + | 100 | -3.83 | + + |
| N\_FIXER.pt |  | 75 | -2.18 | + + |  | -0.02 | 0 |  | 0.92 | 0 |
| NON\_N\_FIXER.pt |  | 75 | 1.32 | - - |  | 0.04 | 0.00 |  | -1.02 | 0.00 |
| LOW\_P.pa |  | 75 | -1.58 | + + | 56 | 0.46 | - - | 75 | 0.84 | - - |
| HIGH\_P.pa |  | 50 | 0.66 | - - | 50 | -0.68 | + + | 67 | -1.05 | + + |
| LOW\_N.pa |  | 75 | -1.55 | + + | 56 | 0.57 | - - | 92 | 1.14 | - - |
| HIGH\_N.pa |  | 75 | 0.81 | - - | 50 | -0.57 | + + | 92 | -2.07 | + + |
| N\_FIXER.pa |  | 50 | -0.12 | + + |  | 0.11 | 0 |  | 0.74 | 0 |
| NON\_N\_FIXER.pa |  | 50 | 0.06 | - - |  | -0.10 | 0.00 |  | -0.79 | 0.00 |
| wa\_N\_WDEQ | PrelimPick | 50 | -0.42 | + + | 65 | -1.28 | + + | 42 | -0.88 | + |
| pi\_N\_WDEQ\_1 |  |  | 0.38 | 0 | 50 | 0.25 | - | 92 | 1.16 | - - |
| pi\_N\_WDEQ\_2 |  | 75 | -1.30 | + + | 62 | 0.80 | - - | 50 | -0.33 | + + |
| pi\_N\_WDEQ\_3 |  | 50 | -0.26 | + + | 59 | -0.83 | + + | 92 | -3.95 | + + |
| pi\_N\_WDEQ\_4 |  | 50 | 0.29 | - - | 56 | -1.64 | + + |  | 0.23 | 0.00 |
| pi\_N\_WDEQ\_12 |  | 75 | -1.21 | + + | 68 | 1.10 | - - | 33 | 0.64 | - - |
| pi\_N\_WDEQ\_34 |  | 50 | -0.15 | + + | 65 | -1.43 | + + | 75 | -1.60 | + + |
| nt\_N\_WDEQ\_1 | PrelimPick | 100 | 1.62 | - - |  | 0.15 | 0.00 | 100 | 1.39 | - - |
| nt\_N\_WDEQ\_2 |  | 75 | 1.21 | - - |  | -0.11 | 0.00 | 42 | 0.11 | - |
| nt\_N\_WDEQ\_3 |  |  | 0.60 | 0 | 47 | -0.70 | + + | 42 | -0.94 | + |
| nt\_N\_WDEQ\_4 |  |  | -0.04 | 0 | 32 | -0.69 | + |  | 0.19 | 0 |
| nt\_N\_WDEQ\_34 |  |  | 0.36 | 0 | 47 | -0.82 | + + |  | -0.51 | 0 |
| pt\_N\_WDEQ\_1 |  |  | 0.60 | 0 | 32 | 0.39 | - | 100 | 1.54 | - - |
| pt\_N\_WDEQ\_2 |  | 75 | -1.44 | + + | 38 | 0.36 | - | 83 | -2.41 | + + |
| pt\_N\_WDEQ\_3 |  |  | 0.09 | 0 | 59 | -0.68 | + + | 100 | -2.50 | + + |
| pt\_N\_WDEQ\_4 |  | 75 | -1.38 | + + | 38 | -0.62 | + + |  | -0.64 | 0 |
| pt\_N\_WDEQ\_12 |  | 50 | -0.63 | + + | 47 | 0.66 | - - | 42 | 0.15 | - |
| pt\_N\_WDEQ\_34 |  | 50 | -0.75 | + + | 56 | -0.80 | + + | 83 | -1.97 | + + |
| Oxygen |  |  |  |  |  |  |  |  |  |  |
| wa\_O\_WDEQ |  | 75 | 1.04 | - - | 44 | -0.50 | + | 92 | -1.34 | + + |
| pi\_O\_WDEQ\_1 |  | 75 | -1.65 | + + | 32 | 0.37 | - | 83 | 1.17 | - - |
| pi\_O\_WDEQ\_2 |  | 50 | 0.05 | - - |  | -0.05 | 0.00 | 42 | -0.02 | - |
| pi\_O\_WDEQ\_12 |  | 75 | -1.83 | + + | 41 | 0.37 | - | 58 | 1.22 | - - |
| pi\_O\_WDEQ\_3 |  | 75 | 1.22 | - - |  | 0.02 | 0.00 | 58 | -2.41 | + + |
| pi\_O\_WDEQ\_4 |  | 50 | -1.45 | + + | 53 | -0.79 | + + | 67 | -1.45 | + + |
| pi\_O\_WDEQ\_34 |  | 50 | 1.02 | - - | 38 | -0.25 | + | 83 | -2.18 | + + |
| nt\_O\_WDEQ\_1 | PrelimPick | 100 | 2.17 | - - |  | 0.17 | 0.00 | 92 | 1.20 | - - |
| nt\_O\_WDEQ\_2 |  |  | 0.30 | 0 |  | -0.10 | 0 | 33 | 0.63 | - - |
| nt\_O\_WDEQ\_3 |  | 75 | 1.29 | - - |  | -0.25 | 0.00 |  | 0.02 | 0.00 |
| nt\_O\_WDEQ\_4 |  |  | -0.12 | 0 | 56 | -1.13 | + + | 92 | -1.11 | + + |
| nt\_O\_WDEQ\_34 |  | 75 | 0.94 | - - | 41 | -0.63 | + | 50 | -0.55 | + + |
| pt\_O\_WDEQ\_1 |  | 50 | 0.88 | - - | 44 | 0.56 | - | 83 | 1.27 | - - |
| pt\_O\_WDEQ\_2 |  | 75 | -1.20 | + + |  | 0.11 | 0 |  | -0.08 | 0 |
| pt\_O\_WDEQ\_12 |  | 50 | 0.10 | - - | 50 | 0.71 | - | 58 | 1.24 | - - |
| pt\_O\_WDEQ\_3 |  | 50 | -0.69 | + + |  | 0.09 | 0 | 75 | -1.38 | + + |
| pt\_O\_WDEQ\_4 |  | 100 | -1.45 | + + | 71 | -1.14 | + + | 92 | -2.71 | + + |
| pt\_O\_WDEQ\_34 | FinalSelect | 75 | -1.30 | + + | 47 | -0.58 | + + | 100 | -2.82 | + + |
| O\_1.r | PrelimPick | 100 | 2.13 | - - | 32 | 0.29 | - | 100 | 1.24 | - - |
| O\_2.r |  |  | 0.32 | 0 |  | -0.08 | 0 | 33 | 0.54 | - |
| O\_3.r |  | 50 | 0.59 | - - |  | -0.34 | 0.00 |  | -0.05 | 0.00 |
| O\_4.r |  |  | 0.19 | 0 | 41 | -1.17 | + | 92 | -1.37 | + + |
| O\_5.r |  |  | 0.41 | 0 |  | -0.41 | 0 | 75 | -0.99 | + + |
| O\_1.pt | PrelimPick | 75 | 1.11 | - - | 50 | 0.73 | - - | 92 | 1.21 | - - |
| O\_2.pt |  | 75 | -1.26 | + + | 35 | 0.08 | - | 33 | -0.26 | + |
| O\_3.pt |  | 50 | -1.59 | + + |  | -0.20 | 0 | 58 | -1.18 | + + |
| O\_4.pt |  | 50 | -0.59 | + + | 74 | -1.21 | + + | 92 | -2.84 | + + |
| O\_5.pt |  |  | 0.41 | 0 | 44 | -0.47 | + | 75 | -1.89 | + + |
| O\_45.pt | FinalSelect | 50 | -0.40 | + + | 68 | -1.25 | + + | 92 | -2.92 | + + |
| O\_1.pa |  | 75 | -1.59 | + + | 47 | 0.43 | - - | 92 | 1.21 | - - |
| O\_2.pa |  | 50 | 0.08 | - - |  | -0.10 | 0.00 | 50 | -0.10 | - - |
| O\_3.pa |  | 50 | 0.78 | - - |  | -0.24 | 0.00 | 58 | -2.71 | + + |
| O\_4.pa | PrelimPick | 50 | -1.81 | + + | 50 | -0.28 | + + | 92 | -3.05 | + + |
| O\_5.pa |  |  | 0.27 | 0 | 44 | -0.59 | + | 50 | -0.51 | + + |
| Saprobity |  |  |  |  |  |  |  |  |  |  |
| pi\_S\_WDEQ\_1 |  | 50 | 0.30 | - - | 44 | 0.12 | - | 100 | 1.16 | - - |
| pi\_S\_WDEQ\_2 |  | 100 | -1.54 | + + | 41 | 0.53 | - | 58 | 0.74 | - - |
| pi\_S\_WDEQ\_12 |  | 75 | -1.45 | + + | 44 | 0.62 | - | 58 | 1.14 | - - |
| pi\_S\_WDEQ\_3 |  | 75 | 0.84 | - - | 50 | -0.42 | + + | 67 | -1.35 | + + |
| pi\_S\_WDEQ\_4 |  |  | -0.41 | 0 |  | -0.07 | 0 | 75 | -3.23 | + + |
| pi\_S\_WDEQ\_5 |  |  | 0.53 | 0 | 47 | -0.72 | + + |  | 0.13 | 0 |
| pi\_S\_WDEQ\_345 |  | 50 | 0.65 | - - | 44 | -0.53 | + | 75 | -2.11 | + + |
| nt\_S\_WDEQ\_1 | PrelimPick | 100 | 1.43 | - - | 50 | 0.36 | - - | 92 | 1.57 | - - |
| nt\_S\_WDEQ\_2 |  | 50 | 1.21 | - - |  | 0.06 | 0.00 | 67 | 0.61 | - - |
| nt\_S\_WDEQ\_3 |  | 75 | 0.97 | - - | 44 | -0.83 | + |  | -0.07 | 0.00 |
| nt\_S\_WDEQ\_4 |  |  | 0.42 | 0 | 32 | -0.50 | + | 67 | -0.93 | + + |
| nt\_S\_WDEQ\_5 |  |  | 0.00 | 0 |  | -0.18 | 0 |  | -0.16 | 0 |
| pt\_S\_WDEQ\_1 |  | 50 | 0.66 | - - | 50 | 0.55 | - - | 83 | 1.76 | - - |
| pt\_S\_WDEQ\_2 |  | 50 | -0.60 | + + | 59 | 0.60 | - - | 33 | -0.50 | + |
| pt\_S\_WDEQ\_3 |  | 75 | -0.96 | + + | 50 | -0.70 | + + | 83 | -0.91 | + + |
| pt\_S\_WDEQ\_4 |  | 50 | -1.61 | + + | 41 | -0.56 | + | 92 | -2.76 | + + |
| pt\_S\_WDEQ\_5 |  | 50 | -0.37 | + + |  | -0.08 | 0 | 92 | -0.87 | + + |
| pt\_S\_WDEQ\_345 | PrelimPick | 75 | -1.56 | + + | 56 | -0.92 | + + | 100 | -2.56 | + + |
| WA\_SAP\_USGS | FinalSelect | 100 | -1.21 | + + | 59 | -0.70 | + + | 92 | -2.43 | + + |
| SAP\_1.r |  | 100 | 1.45 | - - | 38 | 0.28 | - | 100 | 1.56 | - - |
| SAP\_2.r |  | 50 | 1.06 | - - |  | 0.13 | 0.00 | 67 | 0.65 | - - |
| SAP\_3.r |  | 75 | 0.95 | - - | 41 | -0.86 | + | 33 | -0.20 | + |
| SAP\_4.r |  |  | -0.14 | 0 | 44 | -0.48 | + | 83 | -1.06 | + + |
| SAP\_5.r |  |  | -0.05 | 0 |  | -0.23 | 0 |  | 0.12 | 0 |
| SAP\_1.pt |  | 100 | 1.18 | - - | 44 | 0.46 | - | 83 | 1.55 | - - |
| SAP\_2.pt |  | 50 | -0.85 | + + | 59 | 0.70 | - - |  | -0.32 | 0 |
| SAP\_3.pt |  |  | -0.65 | 0 | 53 | -0.82 | + + | 75 | -0.94 | + + |
| SAP\_4.pt |  | 100 | -2.52 | + + | 53 | -0.55 | + + | 92 | -2.78 | + + |
| SAP\_5.pt |  | 50 | -0.41 | + + |  | -0.15 | 0 | 33 | -0.46 | + |
| SAP\_45.pt | PrelimPick | 75 | -2.18 | + + | 44 | -0.54 | + | 92 | -3.32 | + + |
| SAP\_1.pa |  | 50 | 0.24 | - - | 38 | 0.06 | - | 83 | 1.02 | - - |
| SAP\_2.pa |  | 100 | -1.62 | + + | 41 | 0.44 | - | 58 | 0.74 | - - |
| SAP\_3.pa |  | 50 | 0.66 | - - | 59 | -1.26 | + + | 67 | -1.40 | + + |
| SAP\_4.pa |  | 50 | -0.96 | + + |  | -0.14 | 0 | 75 | -3.14 | + + |
| SAP\_5.pa |  |  | 0.52 | 0 | 47 | -0.72 | + + |  | 0.14 | 0 |
| SAP\_45.pa |  | 50 | -0.83 | + + | 32 | -0.38 | + | 67 | -2.60 | + + |
| wa\_S\_WDEQ |  | 50 | 0.42 | - - | 47 | -0.66 | + + | 67 | -1.53 | + + |
| Tolerance |  |  |  |  |  |  |  |  |  |  |
| wa\_OptCat\_DisTotMMI |  | 75 | 1.12 | - - | 68 | -1.27 | + + |  | -0.70 | 0.00 |
| wa\_OptCat\_L1DisTot |  | 75 | 1.17 | - - | 62 | -1.21 | + + | 33 | -0.60 | + |
| WA\_Bahls\_USGS |  | 100 | -1.59 | + + |  | 0.21 | 0 | 58 | 0.48 | - - |
| WA\_PT\_USGS |  | 75 | -1.47 | + + |  | 0.19 | 0 | 33 | -0.23 | + |
| wa\_PTI\_WDEQ |  | 75 | 1.03 | - - | 53 | -0.61 | + + | 42 | -0.73 | + |
| PT\_1.r |  |  | -0.27 | 0 | 44 | -0.52 | + |  | -0.47 | 0 |
| PT\_2.r |  |  | 0.56 | 0 | 50 | -0.70 | + + | 67 | -0.77 | + + |
| PT\_3.r |  |  | -0.29 | 0 | 38 | -0.44 | + |  | 0.34 | 0 |
| PT\_4.r |  | 50 | 1.08 | - - |  | -0.25 | 0.00 | 42 | -0.53 | + |
| PT\_5.r |  | 100 | 1.65 | - - |  | 0.55 | 0.00 | 42 | 0.66 | - |
| Bahls\_1.r |  |  | -0.54 | 0 | 32 | -0.59 | + |  | -0.22 | 0 |
| Bahls\_2.r |  | 50 | 0.44 | - - | 44 | -0.58 | + |  | 0.21 | 0.00 |
| Bahls\_3.r | PrelimPick | 100 | 2.09 | - - | 50 | 0.55 | - - | 58 | 0.75 | - - |
| PT\_1.pt |  | 75 | -1.49 | + + | 44 | -0.51 | + | 75 | -2.04 | + + |
| PT\_2.pt |  | 50 | -0.54 | + + | 44 | -0.57 | + | 75 | -1.48 | + + |
| PT\_12.pt | PrelimPick | 75 | -1.45 | + + | 50 | -0.71 | + + | 92 | -2.28 | + + |
| PT\_3.pt |  | 75 | -1.91 | + + | 38 | -0.46 | + |  | 0.18 | 0 |
| PT\_4.pt |  | 75 | -0.91 | + + |  | 0.11 | 0 | 100 | -1.45 | + + |
| PT\_5.pt |  | 100 | 1.94 | - - | 68 | 0.78 | - - | 42 | 0.32 | - |
| Bahls\_1.pt |  | 75 | -2.15 | + + | 59 | -0.63 | + + | 75 | -1.19 | + + |
| Bahls\_2.pt |  | 75 | -1.72 | + + | 44 | -0.50 | + | 67 | -0.81 | + + |
| Bahls\_12.pt | FinalSelect | 100 | -2.39 | + + | 65 | -0.67 | + + | 83 | -1.34 | + + |
| Bahls\_3.pt |  | 75 | 1.25 | - - | 76 | 1.14 | - - |  | 0.10 | 0.00 |
| PT\_1.pa |  | 50 | -1.39 | + + | 32 | -0.30 | + | 58 | -0.95 | + + |
| PT\_2.pa |  | 50 | 0.24 | - - | 44 | -0.98 | + | 75 | -2.82 | + + |
| PT\_3.pa |  |  | 0.03 | 0 | 47 | -2.44 | + + |  | 0.28 | 0 |
| PT\_4.pa |  | 75 | -1.69 | + + | 32 | 0.26 | - | 50 | -0.03 | - - |
| PT\_5.pa |  | 100 | 0.83 | - - | 35 | 0.35 | - | 67 | 0.59 | - - |
| Bahls\_1.pa |  | 50 | -1.24 | + + | 41 | -0.52 | + | 42 | -0.85 | + |
| Bahls\_2.pa |  | 50 | 0.27 | - - | 56 | -0.73 | + + | 33 | -0.56 | + |
| Bahls\_3.pa |  | 75 | -1.65 | + + | 44 | 0.48 | - | 58 | 0.66 | - - |
| Trophic |  |  |  |  |  |  |  |  |  |  |
| wa\_T\_WDEQ |  | 75 | -1.26 | + + |  | -0.09 | 0 | 50 | -0.64 | + + |
| pi\_T\_WDEQ\_1 |  | 100 | 0.62 | - - |  | 0.07 | 0.00 | 92 | 0.64 | - - |
| pi\_T\_WDEQ\_2 |  | 100 | 0.82 | - - | 56 | 0.46 | - - | 100 | 1.04 | - - |
| pi\_T\_WDEQ\_3 |  | 50 | 0.00 | - - | 44 | 0.31 | - | 100 | 0.97 | - - |
| pi\_T\_WDEQ\_123 | PrelimPick | 75 | 0.84 | - - | 53 | 0.45 | - - | 100 | 1.36 | - - |
| pi\_T\_WDEQ\_4 |  | 50 | 0.62 | - - | 41 | -0.27 | + | 50 | 0.41 | - - |
| pi\_T\_WDEQ\_5 |  | 50 | 0.34 | - - | 38 | -0.25 | + | 92 | -2.28 | + + |
| pi\_T\_WDEQ\_6 |  |  | 0.19 | 0 | 44 | -0.60 | + |  | 0.43 | 0 |
| pi\_T\_WDEQ\_7 |  | 75 | -1.65 | + + | 56 | 0.37 | - - | 42 | 0.12 | - |
| nt\_T\_WDEQ\_1 |  | 100 | 1.09 | - - |  | 0.22 | 0.00 | 67 | 1.18 | - - |
| nt\_T\_WDEQ\_2 |  | 100 | 2.69 | - - | 50 | 0.77 | - - | 75 | 1.25 | - - |
| nt\_T\_WDEQ\_12 | PrelimPick | 100 | 1.90 | - - | 62 | 0.58 | - - | 92 | 1.47 | - - |
| nt\_T\_WDEQ\_3 |  |  | 0.80 | 0 |  | 0.27 | 0 | 83 | 1.05 | - - |
| nt\_T\_WDEQ\_123 |  | 100 | 1.80 | - - | 59 | 0.59 | - - | 100 | 1.43 | - - |
| nt\_T\_WDEQ\_4 |  | 50 | 1.29 | - - |  | -0.04 | 0.00 | 33 | 0.35 | - |
| nt\_T\_WDEQ\_5 |  | 50 | 0.21 | - - | 56 | -0.77 | + + |  | -0.03 | 0.00 |
| nt\_T\_WDEQ\_6 |  |  | -0.28 | 0 |  | -0.28 | 0 |  | 0.55 | 0 |
| nt\_T\_WDEQ\_7 |  | 75 | 1.29 | - - |  | 0.14 | 0.00 | 58 | 0.74 | - - |
| pt\_T\_WDEQ\_1 |  | 50 | 0.54 | - - |  | 0.36 | 0.00 | 67 | 1.13 | - - |
| pt\_T\_WDEQ\_2 |  | 75 | 1.82 | - - | 65 | 0.85 | - - | 92 | 1.45 | - - |
| pt\_T\_WDEQ\_12 | FinalSelect | 75 | 1.28 | - - | 76 | 0.82 | - - | 92 | 1.77 | - - |
| pt\_T\_WDEQ\_3 |  | 75 | -0.84 | + + | 47 | 0.50 | - - | 75 | 0.87 | - - |
| pt\_T\_WDEQ\_123 |  | 50 | 0.82 | - - | 65 | 0.98 | - - | 100 | 1.66 | - - |
| pt\_T\_WDEQ\_4 |  | 50 | 0.77 | - - |  | 0.10 | 0.00 | 33 | -0.41 | + |
| pt\_T\_WDEQ\_5 |  | 75 | -1.96 | + + | 74 | -0.82 | + + | 100 | -2.23 | + + |
| pt\_T\_WDEQ\_6 |  | 75 | -1.29 | + + |  | -0.22 | 0 | 33 | 0.13 | - |
| pt\_T\_WDEQ\_56 | FinalSelect | 100 | -2.08 | + + | 68 | -0.84 | + + | 92 | -2.00 | + + |
| pt\_T\_WDEQ\_7 |  | 75 | -1.55 | + + | 47 | 0.60 | - - | 33 | 0.03 | - |
| WA\_Trophic\_USGS |  | 75 | -1.67 | + + |  | -0.19 | 0 | 75 | -1.02 | + + |
| TROPHIC\_1.r |  | 50 | 1.07 | - - |  | 0.10 | 0.00 | 42 | 1.08 | - |
| TROPHIC\_2.r |  | 100 | 1.79 | - - |  | 0.46 | 0.00 | 67 | 1.01 | - - |
| TROPHIC\_3.r |  | 75 | 1.44 | - - |  | 0.61 | 0.00 | 83 | 1.27 | - - |
| TROPHIC\_4.r |  | 100 | 1.35 | - - |  | -0.01 | 0.00 | 42 | 0.43 | - |
| TROPHIC\_5.r |  |  | 0.35 | 0 | 56 | -0.71 | + + |  | -0.07 | 0 |
| TROPHIC\_6.r |  |  | -0.32 | 0 |  | -0.30 | 0 |  | 0.55 | 0 |
| TROPHIC\_7.r |  | 75 | 0.98 | - - |  | 0.01 | 0.00 | 42 | 0.74 | - |
| TROPHIC\_1.pt |  | 50 | 1.10 | - - |  | 0.24 | 0.00 | 50 | 0.83 | - - |
| TROPHIC\_2.pt |  | 100 | 1.85 | - - |  | 0.52 | 0.00 | 67 | 0.92 | - - |
| TROPHIC\_3.pt |  |  | 0.35 | 0 | 65 | 0.74 | - - | 83 | 1.06 | - - |
| TROPHIC\_4.pt |  | 50 | 0.84 | - - |  | 0.15 | 0.00 | 33 | -0.21 | + |
| TROPHIC\_5.pt |  | 75 | -1.42 | + + | 53 | -0.68 | + + | 100 | -2.12 | + + |
| TROPHIC\_6.pt |  | 75 | -1.35 | + + |  | -0.24 | 0 | 33 | 0.13 | - |
| TROPHIC\_56.pt | PrelimPick | 75 | -1.59 | + + | 56 | -0.72 | + + | 100 | -1.83 | + + |
| TROPHIC\_7.pt |  | 75 | -2.04 | + + | 41 | 0.41 | - |  | 0.14 | 0 |
| TROPHIC\_1.pa |  | 75 | 0.49 | - - |  | 0.06 | 0.00 | 83 | 0.55 | - - |
| TROPHIC\_2.pa |  | 100 | 0.83 | - - |  | 0.35 | 0.00 | 75 | 0.87 | - - |
| TROPHIC\_3.pa |  | 50 | 0.14 | - - | 59 | 0.34 | - - | 92 | 0.76 | - - |
| TROPHIC\_123.pa | PrelimPick | 75 | 0.79 | - - | 53 | 0.38 | - - | 100 | 0.97 | - - |
| TROPHIC\_4.pa |  | 50 | 0.63 | - - | 41 | -0.28 | + | 50 | 0.42 | - - |
| TROPHIC\_5.pa |  | 50 | 0.72 | - - | 56 | -0.58 | + + | 83 | -1.72 | + + |
| TROPHIC\_6.pa |  |  | 0.16 | 0 | 44 | -0.60 | + |  | 0.43 | 0 |
| TROPHIC\_7.pa |  | 75 | -1.84 | + + | 56 | 0.33 | - - | 50 | 0.09 | - - |
| Size |  |  |  |  |  |  |  |  |  |  |
| WA\_Size\_USGS |  | 100 | 1.53 | - - | 50 | 0.55 | - - | 58 | -0.67 | + + |
| VERY\_SMALL.r |  | 75 | 1.42 | - - |  | -0.15 | 0.00 | 58 | 0.88 | - - |
| SMALL.r |  | 75 | 1.40 | - - | 41 | -0.39 | + | 33 | 0.54 | - |
| MEDIUM.r |  | 75 | 1.12 | - - | 35 | -0.38 | + | 75 | 0.83 | - - |
| BIG.r |  | 100 | 1.50 | - - |  | 0.42 | 0.00 | 33 | 0.01 | - |
| VERY\_BIG.r |  |  | 0.85 | 0 |  | 0.15 | 0 | 33 | -0.52 | + |
| VERY\_SMALL.pt |  | 50 | 0.42 | - - |  | 0.17 | 0.00 | 33 | 0.11 | - |
| SMALL.pt |  | 50 | -0.74 | + + | 32 | -0.08 | + | 58 | -0.85 | + + |
| MEDIUM.pt |  | 50 | -0.70 | + + | 35 | -0.19 | + | 67 | -0.04 | + + |
| BIG.pt |  | 100 | 1.61 | - - | 41 | 0.48 | - | 50 | -0.59 | + + |
| VERY\_BIG.pt |  |  | 0.75 | 0 |  | 0.14 | 0 | 33 | -0.79 | + |
| VERY\_SMALL.pa |  | 75 | -1.60 | + + |  | -0.03 | 0 |  | 0.30 | 0 |
| SMALL.pa |  | 75 | 1.08 | - - |  | 0.28 | 0.00 | 67 | -1.22 | + + |
| MEDIUM.pa |  | 75 | 0.88 | - - |  | -0.02 | 0.00 | 58 | 0.40 | - - |
| BIG.pa |  | 100 | 0.62 | - - | 53 | 0.53 | - - | 42 | -0.84 | + |
| VERY\_BIG.pa |  |  | 0.59 | 0 |  | 0.18 | 0 | 33 | 0.00 | + |