METRIC	LABEL
AMFCALL	fractional cover of all macrophytes using am_totalcover (mean(wtA, wtB, ... wtJ))
AMFCEMERGENT	fractional cover of emergent macrophytes using am_emergent (mean(wtA, wtB, ... wtJ))
AMFCFLOATING	fractional cover of floating macrophytes using am_floating (mean(wtA, wtB, ... wtJ))
AMFCSUBMERGENT	fractional cover of submergent macrophytes using am_submergent (mean(wtA, wtB, ... wtJ))
AMFPALL	fractional presence of all macrophytes using am_totalcover (mean(atA, atB, ... atJ))
AMFPEMERGENT	fractional presence of emergent macrophytes using am_emergent (mean(atA, atB, ... atJ))
AMFPFLOATING	fractional presence of floating macrophytes using am_floating (mean(atA, atB, ... atJ))
AMFPSUBMERGENT	fractional presence of submergent macrophytes using am_submergent (mean(atA, atB, ... atJ))
AMIDALL	interdecimile cover of all macrophytes using am_totalcover (percentile(90, wtA, wtB, ... wtJ) - percentile(10, wtA, wtB, ... wtJ))
AMIQALL	interquartile cover of all macrophytes using am_totalcover (percentile(75 wtA, wtB, ... wtJ) - percentile(25, wtA, wtB, ... wtJ))
AMITOTAL	index of total cover of aquatic macrophytes using am_emergent, am_floating, am_submergent (mean(Aemergent+Afloating+Asubmergent, Bemergent+Bfloating+Bsubmergent, ...Jemergent+Jfloating+Jsubmergent))
AMNALL	number of stations with Total cover data using am_totalcover (count(atA, atB... atJ))
AMNEMERGENT	number of stations with Emergent data using am_emergent (count(atA, atB... atJ))
AMNFLOATING	number of stations with Floating data using am_floating (count(atA, atB... atJ))
AMNSUBMERGENT	number of stations with Submergent data using am_submergent (count(atA, atB... atJ))
AMVALL	std dev. Cover of all macrophytes using am_totalcover (stdev(wtA, wtB, wtC... wtJ))
AMVEMERGENT	std dev. Cover of Emergent macrophytes using am_emergent (stdev(wtA, wtB, wtC... wtJ))
AMVFLOATING	std dev. Cover of Floating macrophytes using am_floating (stdev(wtA, wtB, wtC... wtJ))
AMVSUBMERGENT	std dev. Cover of Submergent macrophytes using am_submergent (stdev(wtA, wtB, wtC... wtJ))
BFFFLAT	fraction with flat banks using angle (mean(flatA, flatB... flatJ))
BFFGRADUAL	fraction with gradual banks using angle (mean(gradualA, gradualB... gradualJ))
BFFSTEEP	fraction with steep banks using angle (mean(steepA, steepB... steepJ))
BFFVERTICAL	fraction with vertical banks using angle (mean(verticalA, verticalB...verticalJ))
BFNANGLE	number of stations with bank angle data using angle (count(atA, atB... atJ))
BFNHORIZDIST	count of horizontal distance to highwater mark using horiz_dist (count(horiz_dist))
BFNHORIZDIST_DD	count of horizontal distance to drawdown zone using horiz_dist_dd (count(horiz_dist_dd))
BFNHORIZDIST_DD_CHANGES	Count of HORIZ_DIST_DD changes that were made at this site (ranges 0-12)
BFNHORIZDIST_DD_NOMOD	Count of HORIZ_DIST_DD values prior to modification
BFNVERTHEIGHT	count of vertical height to highwater mark using vert_height (count(vert_height))
BFNVERTHEIGHT_DD	count of vertical height to drawdown zone using vert_height_dd (count(vert_height_dd))
BFOANGLE	bank angle mode using angle (mode(classA, classB... classJ))
BFXHORIZDIST	horizontal distance to highwater mark using horiz_dist (mean(horiz_dist))
BFXHORIZDIST_DD	horizontal distance to drawdown zone using horiz_dist_dd (mean(horiz_dist_dd))
BFXVERTHEIGHT	vertical height to highwater mark using vert_height (mean(vert_height))
BFXVERTHEIGHT_DD	vertical height to drawdown zone using vert_height_dd (mean(vert_height_dd))
BS16LDIA	16th percentile of bottom substrate diameter using bs_bedrock, bs_boulders, bs_cobble, bs_gravel, bs_sand, bs_silt (percentile(16, wtA, wtB, ... wtJ))

BS25LDIA	25th percentile of bottom substrate diameter using bs_bedrock, bs_boulders, bs_cobble, bs_gravel, bs_sand, bs_silt (percentile(25, wtA, wtB, ... wtJ))
BS50LDIA	50th percentile of bottom substrate diameter using bs_bedrock, bs_boulders, bs_cobble, bs_gravel, bs_sand, bs_silt (percentile(50, wtA, wtB, ... wtJ))
BS75LDIA	75th percentile of bottom substrate diameter using bs_bedrock, bs_boulders, bs_cobble, bs_gravel, bs_sand, bs_silt (percentile(75, wtA, wtB, ... wtJ))
BS84LDIA	84th percentile of bottom substrate diameter using bs_bedrock, bs_boulders, bs_cobble, bs_gravel, bs_sand, bs_silt (percentile(84 wtA, wtB, ... wtJ))
BSFANOXIC	fraction with anoxic odor using odor (mean(A=odor, B=odor, ... J=odor))
BSFBLACK	fraction of Black substrate using color (count(atA, atB... atJ) / bsnColor)
BSFBROWN	fraction of Brown substrate using color (count(atA, atB... atJ) / bsnColor)
BSFCBEDROCK	fractional cover of bedrock using bs_bedrock (mean(wtA, wtB, ... wtJ))
BSFCBOULDERS	fractional cover of Boulder using bs_boulders (mean(wtA, wtB, ... wtJ))
BSFCCOBBLE	fractional cover of Cobble using bs_cobble (mean(wtA, wtB, ... wtJ))
BSFCGRAVEL	fractional cover of gravel using bs_gravel (mean(wtA, wtB, ... wtJ))
BSFCHEMICAL	fraction with chemical odor using odor (mean(A=odor, B=odor, ... J=odor))
BSFCORGANIC	fractional cover of organic using bs_organic (mean(wtA, wtB, ... wtJ))
BSFCSAND	fractional cover of sand using bs_sand (mean(wtA, wtB, ... wtJ))
BSFCSILT	fractional cover of silt using bs_silt (mean(wtA, wtB, ... wtJ))
BSFCWOOD	fractional cover of wood using bs_wood (mean(wtA, wtB, ... wtJ))
BSFGRAY	fraction of Gray substrate using color (count(atA, atB... atJ) / bsnColor)
BSFH2S	fraction with H2S odor using odor (mean(A=odor, B=odor, ... J=odor))
BSFNONEODOR	fraction with no odor using odor (mean(A=odor, B=odor, ... J=odor))
BSFOIL	fraction with oil odor using odor (mean(A=odor, B=odor, ... J=odor))
BSFOTHERCOLOR	fraction of other color substrate using color (count(atA, atB... atJ) / bsnColor)
BSFOTHERODOR	fraction with other odor using odor (mean(A=odor, B=odor, ... J=odor))
BSFPBEDROCK	fractional presence of bedrock using bs_bedrock (mean(atA, atB, ... atJ))
BSFPBOULDERS	fractional presence of Boulder using bs_boulders (mean(atA, atB, ... atJ))
BSFPCOBBLE	fractional presence of Cobble using bs_cobble (mean(atA, atB, ... atJ))
BSFPGRAVEL	fractional presence of gravel using bs_gravel (mean(atA, atB, ... atJ))
BSFPORGANIC	fractional presence of organic using bs_organic (mean(atA, atB, ... atJ))
BSFPSAND	fractional presence of sand using bs_sand (mean(atA, atB, ... atJ))
BSFPSILT	fractional presence of silt using bs_silt (mean(atA, atB, ... atJ))
BSFPWOOD	fractional presence of wood using bs_wood (mean(atA, atB, ... atJ))
BSFRED	fraction of Red substrate using color (count(atA, atB... atJ) / bsnColor)
BSISITEVARIETY	Number of substrate classes present at a site using bs_bedrock, bs_boulders, bs_cobble, bs_gravel, bs_sand, bs_silt, bs_organic, bs_wood ()
BSISTAVARIETY	Mean number of substrate classes present in each station using bs_bedrock, bs_boulders, bs_cobble, bs_gravel, bs_sand, bs_silt, bs_organic, bs_wood ()
BSNBEDROCK	number of stations with bedrock data using bs_bedrock (count(atA, atB... atJ))
BSNBOULDERS	number of stations with boulder data using bs_boulders (count(atA, atB... atJ))
BSNCOBBLE	number of stations with cobble data using bs_cobble (count(atA, atB... atJ))
BSNCOLOR	number of bottom substrate color data using color (count(atA, atB... atJ))
BSNGRAVEL	number of stations with gravel data using bs_gravel (count(atA, atB... atJ))
BSNODOR	number of stations with odor data using odor (count(atA, atB... atJ))
BSNORGANIC	number of stations with organic data using bs_organic (count(atA, atB... atJ))
BSNSAND	number of stations with sand data using bs_sand (count(atA, atB... atJ))
BSNSILT	number of stations with silt data using bs_silt (count(atA, atB... atJ))
BSNWOOD	number of stations with wood data using bs_wood (count(atA, atB... atJ))
BSOCOLOR	mode of color using color (mode(colorA, colorB... colorJ))
BSOFCLASS	Mode of bottom substrate by cover using bs_bedrock, bs_boulders, bs_cobble, bs_gravel, bs_sand, bs_silt, bs_organic, bs_wood (space-delimited list of 1+ classes with sum(bsfcClass) = max(sum(bsfcClass)))
BSOODOR	Mode of bottom substrate odor class using odor (mode(ODOR))
BSOPCLASS	Mode of bottom substrate by presence using bs_bedrock, bs_boulders, bs_cobble, bs_gravel, bs_sand, bs_silt, bs_organic, bs_wood (space-delimited list of 1+ classes with presence = max(bsfp*))

Variable	Description
BSVBEDROCK	std dev. Cover of bedrock using bs_bedrock (stdev(wtA, wtB, wtC... wtJ))
BSVBOULDERS	std dev. Cover of boulder using bs_boulders (stdev(wtA, wtB, wtC... wtJ))
BSVCOBBLE	std dev. Cover of cobble using bs_cobble (stdev(wtA, wtB, wtC... wtJ))
BSVGRAVEL	std dev. Cover of gravel using bs_gravel (stdev(wtA, wtB, wtC... wtJ))
BSVLDIA	std dev. logged bottom substrate diameter (mineral) using bs_bedrock, bs_boulders, bs_cobble, bs_gravel, bs_sand, bs_silt (stdev(Dm*Csm), where Dm=log10(characteristic diam), Csm=fractional cover of class at a station)
BSVORGANIC	std dev. Cover of organic using bs_organic (stdev(wtA, wtB, wtC... wtJ))
BSVSAND	std dev. Cover of sand using bs_sand (stdev(wtA, wtB, wtC... wtJ))
BSVSILT	std dev. Cover of silt using bs_silt (stdev(wtA, wtB, wtC... wtJ))
BSVWOOD	std dev. Cover of wood using bs_wood (stdev(wtA, wtB, wtC... wtJ))
BSXLDIA	mean logged bottom substrate diameter (mineral) using bs_bedrock, bs_boulders, bs_cobble, bs_gravel, bs_sand, bs_silt (mean(Dm*Csm), where Dm=log10(characteristic diam), Csm=fractional cover of class at a station)
FCFCAQUATIC	fractional cover of aquatic vegetation using FC_AQUATIC (mean(wtA, wtB... wtJ))
FCFCAQUATIC_DD	fractional cover of aquatic vegetation in the drawdown zone using FC_AQUATIC_DD (mean(wtA_dd, wtB_dd... wtJ_dd))
FCFCAQUATIC_LIT	fractional cover of aquatic vegetation in the littoral zone using FC_AQUATIC (mean(wtA_lit, wtB_lit, ... wtJ_lit))
FCFCAQUATIC_SIM	fractional cover of aquatic vegetation simulating what would be present within 10m of full-pool shoreline if there was zero drawdown using FC_AQUATIC, HORIZ_DIST_DD (mean(wtA_sim, wtB_sim, ... wtJ_sim))
FCFCBOULDERS	fractional cover of boulders using FC_BOULDERS (mean(wtA, wtB... wtJ))
FCFCBOULDERS_DD	fractional cover of boulders in the drawdown zone using FC_BOULDERS_DD (mean(wtA_dd, wtB_dd... wtJ_dd))
FCFCBOULDERS_LIT	fractional cover of boulders in the littoral zone using FC_BOULDERS (mean(wtA_lit, wtB_lit, ... wtJ_lit))
FCFCBOULDERS_SIM	fractional cover of boulders simulating what would be present within 10m of full-pool shoreline if there was zero drawdown using FC_BOULDERS, FC_BOULDERS_DD, HORIZ_DIST_DD (mean(wtA_sim, wtB_sim, ... wtJ_sim))
FCFCBRUSH	fractional cover of brush using FC_BRUSH (mean(wtA, wtB... wtJ))
FCFCBRUSH_DD	fractional cover of brush in the drawdown zone using FC_BRUSH_DD (mean(wtA_dd, wtB_dd... wtJ_dd))
FCFCBRUSH_LIT	fractional cover of brush in the littoral zone using FC_BRUSH (mean(wtA_lit, wtB_lit, ... wtJ_lit))
FCFCBRUSH_SIM	fractional cover of brush simulating what would be present within 10m of full-pool shoreline if there was zero drawdown using FC_BRUSH, FC_BRUSH_DD, HORIZ_DIST_DD (mean(wtA_sim, wtB_sim, ... wtJ_sim))
FCFCLEDGES	fractional cover of ledges using FC_LEDGES (mean(wtA, wtB... wtJ))
FCFCLEDGES_DD	fractional cover of ledges in the drawdown zone using FC_LEDGES_DD (mean(wtA_dd, wtB_dd... wtJ_dd))
FCFCLEDGES_LIT	fractional cover of ledges in the littoral zone using FC_LEDGES (mean(wtA_lit, wtB_lit, ... wtJ_lit))
FCFCLEDGES_SIM	fractional cover of ledges simulating what would be present within 10m of full-pool shoreline if there was zero drawdown using FC_LEDGES, FC_LEDGES_DD, HORIZ_DIST_DD (mean(wtA_sim, wtB_sim, ... wtJ_sim))
FCFCLIVETREES	fractional cover of live trees using FC_LIVETREES (mean(wtA, wtB... wtJ))
FCFCLIVETREES_DD	fractional cover of live trees in the drawdown zone using FC_LIVETREES_DD (mean(wtA_dd, wtB_dd... wtJ_dd))
FCFCLIVETREES_LIT	fractional cover of live trees in the littoral zone using FC_LIVETREES (mean(wtA_lit, wtB_lit, ... wtJ_lit))
FCFCLIVETREES_SIM	fractional cover of live trees simulating what would be present within 10m of full-pool shoreline if there was zero drawdown using FC_LIVETREES, FC_LIVETREES_DD, HORIZ_DIST_DD (mean(wtA_sim, wtB_sim, ... wtJ_sim))
FCFCOVERHANG	fractional cover of overhangs using FC_OVERHANG (mean(wtA, wtB... wtJ))
FCFCOVERHANG_DD	fractional cover of overhangs in the drawdown zone using FC_OVERHANG_DD (mean(wtA_dd, wtB_dd... wtJ_dd))

FCFCOVERHANG_LIT	fractional cover of overhangs in the littoral zone using FC_OVERHANG (mean(wtA_lit, wtB_lit, ... wtJ_lit))
FCFCOVERHANG_SIM	fractional cover of overhangs simulating what would be present within 10m of full-pool shoreline if there was zero drawdown using FC_OVERHANG, FC_OVERHANG_DD, HORIZ_DIST_DD (mean(wtA_sim, wtB_sim, ... wtJ_sim))
FCFCSNAG	fractional cover of snags using FC_SNAG (mean(wtA, wtB... wtJ))
FCFCSNAGS_DD	fractional cover of snags in the drawdown zone using FC_SNAG_DD (mean(wtA_dd, wtB_dd... wtJ_dd))
FCFCSNAGS_LIT	fractional cover of snags in the littoral zone using FC_SNAG (mean(wtA_lit, wtB_lit, ... wtJ_lit))
FCFCSNAGS_SIM	fractional cover of snags simulating what would be present within 10m of full-pool shoreline if there was zero drawdown using FC_SNAG, FC_SNAG_DD, HORIZ_DIST_DD (mean(wtA_sim, wtB_sim, ... wtJ_sim))
FCFCSTRUCTURES	fractional cover of artificial structures using FC_STRUCTURES (mean(wtA, wtB... wtJ))
FCFCSTRUCTURES_DD	fractional cover of artificial structures in the drawdown zone using FC_STRUCTURES_DD (mean(wtA_dd, wtB_dd... wtJ_dd))
FCFCSTRUCTURES_LIT	fractional cover of artificial structures in the littoral zone using FC_STRUCTURES (mean(wtA_lit, wtB_lit, ... wtJ_lit))
FCFCSTRUCTURES_SIM	fractional cover of artificial structures simulating what would be present within 10m of full-pool shoreline if there was zero drawdown using FC_STRUCTURES, FC_STRUCTURES_DD, HORIZ_DIST_DD (mean(wtA_sim, wtB_sim, ... wtJ_sim))
FCFPALL	fractional presence of any fish cover using FC_AQUATIC, FC_BOULDERS, FC_BRUSH, FC_LEDGES, FC_TREES, FC_OVERHANG, FC_SNAG, FC_STRUCTURES (mean(atA, atB... atJ))
FCFPALL_DD	fractional cover of any fish cover in the drawdown zone using FC_AQUATIC_DD, FC_BOULDERS_DD, FC_BRUSH_DD, FC_LEDGES_DD, FC_TREES_DD, FC_OVERHANG_DD, FC_SNAG_DD, FC_STRUCTURES_DD (mean(wtA_dd, wtB_dd... wtJ_dd))
FCFPALL_LIT	fractional cover of any fish cover in the littoral zone using FC_AQUATIC, FC_BOULDERS, FC_BRUSH, FC_LEDGES, FC_TREES, FC_OVERHANG, FC_SNAG, FC_STRUCTURES (mean(wtA_lit, wtB_lit, ... wtJ_lit))
FCFPALL_SIM	fractional cover of any fish cover simulating what would be present within 10m of full-pool shoreline if there was zero drawdown using FC_AQUATIC, FC_BOULDERS, FC_BRUSH, FC_LEDGES, FC_TREES, FC_OVERHANG, FC_SNAG, FC_STRUCTURES, FC_AQUATIC_DD, FC_BOULDERS_DD, FC_BRUSH_DD, FC_LEDGES_DD, FC_TREES_DD, FC_OVERHANG_DD, FC_SNAG_DD, FC_STRUCTURES_DD, HORIZ_DIST_DD (mean(wtA_sim, wtB_sim, ... wtJ_sim))
FCFPAQUATIC	fractional presence of aquatic vegetation using FC_AQUATIC (mean(atA, atB... atJ))
FCFPAQUATIC_DD	fractional presence of aquatic vegetation in the drawdown zone using FC_AQUATIC_DD (mean(atA, atB... atJ))
FCFPAQUATIC_LIT	fractional presence of aquatic vegetation in the littoral zone using FC_AQUATIC (mean(atA, atB... atJ))
FCFPAQUATIC_SIM	fractional presence of aquatic vegetation simulating what would be present within 10m of full-pool shoreline if there was zero drawdown using FC_AQUATIC, FC_AQUATIC_DD, HORIZ_DIST_DD (mean(atA_sim, atB_sim, ... atJ_sim))
FCFPBOULDERS	fractional presence of boulders using FC_BOULDERS (mean(atA, atB... atJ))
FCFPBOULDERS_DD	fractional presence of boulders in the drawdown zone using FC_BOULDERS_DD (mean(atA, atB... atJ))
FCFPBOULDERS_LIT	fractional presence of boulders in the littoral zone using FC_BOULDERS (mean(atA, atB... atJ))
FCFPBOULDERS_SIM	fractional presence of boulders simulating what would be present within 10m of full-pool shoreline if there was zero drawdown using FC_BOULDERS, FC_BOULDERS_DD, HORIZ_DIST_DD (mean(atA_sim, atB_sim, ... atJ_sim))
FCFPBRUSH	fractional presence of brush using FC_BRUSH (mean(atA, atB... atJ))
FCFPBRUSH_DD	fractional presence of brush in the drawdown zone using FC_BRUSH_DD (mean(atA, atB... atJ))

FCFPBRUSH_LIT	fractional presence of brush in the littoral zone using FC_BRUSH (mean(atA, atB... atJ))
FCFPBRUSH_SIM	fractional presence of brush simulating what would be present within 10m of full-pool shoreline if there was zero drawdown using FC_BRUSH, FC_BRUSH_DD, HORIZ_DIST_DD (mean(atA_sim, atB_sim, ... atJ_sim))
FCFPLEDGES	fractional presence of ledges using FC_LEDGES (mean(atA, atB... atJ))
FCFPLEDGES_DD	fractional presence of ledges in the drawdown zone using FC_LEDGES_DD (mean(atA, atB... atJ))
FCFPLEDGES_LIT	fractional presence of ledges in the littoral zone using FC_LEDGES (mean(atA, atB... atJ))
FCFPLEDGES_SIM	fractional presence of ledges simulating what would be present within 10m of full-pool shoreline if there was zero drawdown using FC_LEDGES, FC_LEDGES_DD, HORIZ_DIST_DD (mean(atA_sim, atB_sim, ... atJ_sim))
FCFPLIVETREES	fractional presence of live trees using FC_LIVETREES (mean(atA, atB... atJ))
FCFPLIVETREES_DD	fractional presence of live trees in the drawdown zone using FC_LIVETREES_DD (mean(atA, atB... atJ))
FCFPLIVETREES_LIT	fractional presence of live trees in the littoral zone using FC_LIVETREES (mean(atA, atB... atJ))
FCFPLIVETREES_SIM	fractional presence of live trees simulating what would be present within 10m of full-pool shoreline if there was zero drawdown using FC_LIVETREES, FC_LIVETREES_DD, HORIZ_DIST_DD (mean(atA_sim, atB_sim, ... atJ_sim))
FCFPOVERHANG	fractional presence of overhangs using FC_OVERHANG (mean(atA, atB... atJ))
FCFPOVERHANG_DD	fractional presence of overhangs in the drawdown zone using FC_OVERHANG_DD (mean(atA, atB... atJ))
FCFPOVERHANG_LIT	fractional presence of overhangs in the littoral zone using FC_OVERHANG (mean(atA, atB... atJ))
FCFPOVERHANG_SIM	fractional presence of overhangs simulating what would be present within 10m of full-pool shoreline if there was zero drawdown using FC_OVERHANG, FC_OVERHANG_DD, HORIZ_DIST_DD (mean(atA_sim, atB_sim, ... atJ_sim))
FCFPSNAG	fractional presence of snags using FC_SNAG (mean(atA, atB... atJ))
FCFPSNAGS_DD	fractional presence of snags in the drawdown zone using FC_SNAG_DD (mean(atA, atB... atJ))
FCFPSNAGS_LIT	fractional presence of snags in the littoral zone using FC_SNAG (mean(atA, atB... atJ))
FCFPSNAGS_SIM	fractional presence of snags simulating what would be present within 10m of full-pool shoreline if there was zero drawdown using FC_SNAG, FC_SNAG_DD, HORIZ_DIST_DD (mean(atA_sim, atB_sim, ... atJ_sim))
FCFPSTRUCTURES	fractional presence of artificial structures using FC_STRUCTURES (mean(atA, atB... atJ))
FCFPSTRUCTURES_DD	fractional presence of artificial structures in the drawdown zone using FC_STRUCTURES_DD (mean(atA, atB... atJ))
FCFPSTRUCTURES_LIT	fractional presence of artificial structures in the littoral zone using FC_STRUCTURES (mean(atA, atB... atJ))
FCFPSTRUCTURES_SIM	fractional presence of artificial structures simulating what would be present within 10m of full-pool shoreline if there was zero drawdown using FC_STRUCTURES, FC_STRUCTURES_DD, HORIZ_DIST_DD (mean(atA_sim, atB_sim, ... atJ_sim))
FCIALL	index of total fish cover using fcfcAquatic, fcfcBoulders, fcfcBrush, fcfcLedges, fcfcLivetrees, fcfcOverhang, fcfcSnag, fcfcStructures (sum(fc_Aquatic, fc_Boulders, fc_Brush, fc_Ledges, fc_Livetrees, fc_Overhang, fc_Snag, fc_Structures))
FCIALL_DD	index of total fish cover in the drawdown zone using FC_AQUATIC_DD, FC_BOULDERS_DD, FC_BRUSH_DD, FC_LEDGES_DD, FC_TREES_DD, FC_OVERHANG_DD, FC_SNAG_DD, FC_STRUCTURES_DD (sum(fc_Aquatic_DD, fc_Boulders_DD, fc_Brush_DD, fc_Ledges_DD, fc_Livetrees_DD, fc_Overhang_DD, fc_Snag_DD, fc_Structures_DD))

FCIALL_LIT	index of total fish cover in the littoral zone using FC_AQUATIC, FC_BOULDERS, FC_BRUSH, FC_LEDGES, FC_TREES, FC_OVERHANG, FC_SNAG, FC_STRUCTURES (sum(fc_Aquatic, fc_Boulders, fc_Brush, fc_Ledges, fc_Livetrees, fc_Overhang, fc_Snag, fc_Structures))
FCIALL_SIM	index of total fish cover simulating what would be present within 10m of full-pool shoreline if there was zero drawdown using FC_AQUATIC, FC_BOULDERS, FC_BRUSH, FC_LEDGES, FC_TREES, FC_OVERHANG, FC_SNAG, FC_STRUCTURES, FC_AQUATIC_DD, FC_BOULDERS_DD, FC_BRUSH_DD, FC_LEDGES_DD, FC_TREES_DD, FC_OVERHANG_DD, FC_SNAG_DD, FC_STRUCTURES_DD, HORIZ_DIST_DD (sum(fc_Aquatic_SIM, fc_Boulders_SIM, fc_Brush_SIM, fc_Ledges_SIM, fc_Livetrees_SIM, fc_Overhang_SIM, fc_Snag_SIM, fc_Structures_SIM))
FCIBIG	index of fish cover due to large structures using fc_Boulders, fc_Ledges, fc_Overhang, fc_Structures (sum(fc_Boulders, fc_Ledges, fc_Overhang, fc_Structures))
FCIBIG_DD	index of fish cover due to large structures in the drawdown zone using fc_Boulders_DD, fc_Ledges_DD, fc_Overhang_DD, fc_Structures_DD (sum(fc_Boulders_DD, fc_Ledges_DD, fc_Overhang_DD, fc_Structures_DD))
FCIBIG_LIT	index of fish cover due to large structures in the littoral zone using fc_Boulders, fc_Ledges, fc_Overhang, fc_Structures (sum(fc_Boulders, fc_Ledges, fc_Overhang, fc_Structures))
FCIBIG_SIM	index of fish cover due to large structures simulating what would be present within 10m of full-pool shoreline if there was zero drawdown using fc_Boulders, fc_Ledges, fc_Overhang, fc_Structures, fc_Boulders_DD, fc_Ledges_DD, fc_Overhang_DD, fc_Structures_DD, HORIZ_DIST_DD (sum(fc_Boulders, fc_Ledges, fc_Overhang, fc_Structures))
FCINATURAL	index of fish cover due to natural structures using fc_Aquatic, fc_Boulders, fc_Brush, fc_Ledges, fc_Livetrees fc_Overhang, fc_Snag (sum(fc_Aquatic, fc_Boulders, fc_Brush, fc_Ledges, fc_Livetrees fc_Overhang, fc_Snag))
FCINATURAL_DD	index of fish cover due to natural structures in the drawdown zone using fc_Aquatic_DD, fc_Boulders_DD, fc_Brush_DD, fc_Ledges_DD, fc_Livetrees_DD, fc_Overhang_DD, fc_Snag_DD (sum(fc_Aquatic_DD, fc_Boulders_DD, fc_Brush_DD, fc_Ledges_DD, fc_Livetrees_DD, fc_Overhang_DD, fc_Snag_DD))
FCINATURAL_LIT	index of fish cover due to natural structures in the littoral zone using fc_Aquatic, fc_Boulders, fc_Brush, fc_Ledges, fc_Livetrees fc_Overhang, fc_Snag (sum(fc_Aquatic, fc_Boulders, fc_Brush, fc_Ledges, fc_Livetrees fc_Overhang, fc_Snag))
FCINATURAL_SIM	index of fish cover due to natural structures simulating what would be present within 10m of full-pool shoreline if there was zero drawdown using fc_Aquatic, fc_Boulders, fc_Brush, fc_Ledges, fc_Livetrees fc_Overhang, fc_Snag, fc_Aquatic_DD, fc_Boulders_DD, fc_Brush_DD, fc_Ledges_DD, fc_Livetrees_DD, fc_Overhang_DD, fc_Snag_DD, HORIZ_DIST_DD (sum(fc_Aquatic_SIM, fc_Boulders_SIM, fc_Brush_SIM, fc_Ledges_SIM, fc_Livetrees_SIM, fc_Overhang_SIM, fc_Snag_SIM))
FCIRIPVEG	index of fish cover due to riparian vegetation using fc_Brush, fc_Livetrees, fc_Snag (sum(fc_Brush, fc_Livetrees, fc_Snag))
FCIRIPVEG_DD	index of fish cover due to riparian vegetation in the drawdown zone using fc_Brush_DD, fc_Livetrees_DD, fc_Snag_DD (sum(fc_Brush_DD, fc_Livetrees_DD, fc_Snag_DD))
FCIRIPVEG_LIT	index of fish cover due to riparian vegetation in the littoral zone using fc_Brush, fc_Livetrees, fc_Snag, (sum(fc_Brush, fc_Livetrees, fc_Snag,))
FCIRIPVEG_SIM	index of fish cover due to riparian vegetation simulating what would be present within 10m of full-pool shoreline if there was zero drawdown using fc_Brush_SIM, fc_Livetrees_SIM, fc_Snag_SIM (sum(fc_Brush_SIM, fc_Livetrees_SIM, fc_Snag_SIM))
FCNALL	number of fish cover data using FC_AQUATIC, FC_BOULDERS, FC_BRUSH, FC_LEDGES, FC_TREES, FC_OVERHANG, FC_SNAG, FC_STRUCTURES (sum(fcn*))

FCNALL_DD	number of fish cover values in the drawdown using FC_AQUATIC_DD, FC_BOULDERS_DD, FC_BRUSH_DD, FC_LEDGES_DD, FC_TREES_DD, FC_OVERHANG_DD, FC_SNAG_DD, FC_STRUCTURES_DD (sum(fcn*_DD))
FCNALL_LIT	number of fish cover values in the littoral zone using FC_AQUATIC, FC_BOULDERS, FC_BRUSH, FC_LEDGES, FC_TREES, FC_OVERHANG, FC_SNAG, FC_STRUCTURES (sum(fcn*))
FCNALL_SIM	number of fish cover data simulating what would be present within 10m of full-pool shoreline if there was zero drawdown using FC_AQUATIC, FC_BOULDERS, FC_BRUSH, FC_LEDGES, FC_TREES, FC_OVERHANG, FC_SNAG, FC_STRUCTURES, FC_AQUATIC_DD, FC_BOULDERS_DD, FC_BRUSH_DD, FC_LEDGES_DD, FC_TREES_DD, FC_OVERHANG_DD, FC_SNAG_DD, FC_STRUCTURES_DD, HORIZ_DIST_DD (sum(fcn*_SIM))
FCNAQUATIC	number of aquatic vegetation using FC_AQUATIC (count(atA, atB... atJ))
FCNAQUATIC_DD	number of aquatic vegetation values in the drawdown using FC_AQUATIC_DD (count(atA_DD, atB_DD, ... atJ_DD))
FCNAQUATIC_LIT	number of aquatic vegetation values in the littoral zone using FC_AQUATIC (count(atA, atB... atJ))
FCNAQUATIC_SIM	number of aquatic vegetation data simulating what would be present within 10m of full-pool shoreline if there was zero drawdown using FC_AQUATIC, FC_AQUATIC_DD, HORIZ_DIST_DD (count(atA_SIM, atB_SIM, ... atJ_SIM))
FCNBOULDERS	number of boulders using FC_BOULDERS (count(atA, atB... atJ))
FCNBOULDERS_DD	number of boulders values in the drawdown using FC_BOULDERS_DD (count(atA_DD, atB_DD, ... atJ_DD))
FCNBOULDERS_LIT	number of boulders values in the littoral zone using FC_BOULDERS (count(atA, atB... atJ))
FCNBOULDERS_SIM	number of boulders data simulating what would be present within 10m of full-pool shoreline if there was zero drawdown using FC_BOULDERS, FC_BOULDERS_DD, HORIZ_DIST_DD (count(atA_SIM, atB_SIM, ... atJ_SIM))
FCNBRUSH	number of brush using FC_BRUSH (count(atA, atB... atJ))
FCNBRUSH_DD	number of brush values in the drawdown using FC_BRUSH_DD (count(atA_DD, atB_DD, ... atJ_DD))
FCNBRUSH_LIT	number of brush values in the littoral zone using FC_BRUSH (count(atA, atB... atJ))
FCNBRUSH_SIM	number of brush data simulating what would be present within 10m of full-pool shoreline if there was zero drawdown using FC_BRUSH, FC_BRUSH_DD, HORIZ_DIST_DD (count(atA_SIM, atB_SIM, ... atJ_SIM))
FCNLEDGES	number of ledges using FC_LEDGES (count(atA, atB... atJ))
FCNLEDGES_DD	number of ledges values in the drawdown using FC_LEDGES_DD (count(atA_DD, atB_DD, ... atJ_DD))
FCNLEDGES_LIT	number of ledges values in the littoral zone using FC_LEDGES (count(atA, atB... atJ))
FCNLEDGES_SIM	number of ledges data simulating what would be present within 10m of full-pool shoreline if there was zero drawdown using FC_LEDGES, FC_LEDGES_DD, HORIZ_DIST_DD (count(atA_SIM, atB_SIM, ... atJ_SIM))
FCNLIVETREES	number of live trees using FC_LIVETREES (count(atA, atB... atJ))
FCNLIVETREES_DD	number of live trees values in the drawdown using FC_LIVETREES_DD (count(atA_DD, atB_DD, ... atJ_DD))
FCNLIVETREES_LIT	number of live trees values in the littoral zone using FC_LIVETREES (count(atA, atB... atJ))
FCNLIVETREES_SIM	number of live trees data simulating what would be present within 10m of full-pool shoreline if there was zero drawdown using FC_LIVETREES, FC_LIVETREES_DD, HORIZ_DIST_DD (count(atA_SIM, atB_SIM, ... atJ_SIM))
FCNOVERHANG	number of overhangs using FC_OVERHANG (count(atA, atB... atJ))
FCNOVERHANG_DD	number of overhangs values in the drawdown using FC_OVERHANG_DD (count(atA_DD, atB_DD, ... atJ_DD))
FCNOVERHANG_LIT	number of overhangs values in the littoral zone using FC_OVERHANG (count(atA, atB... atJ))

FCNOVERHANG_SIM	number of overhangs data simulating what would be present within 10m of full-pool shoreline if there was zero drawdown using FC_OVERHANG, FC_OVERHANG_DD, HORIZ_DIST_DD (count(atA_SIM, atB_SIM, ... atJ_SIM))
FCNSNAG	number of snags using FC_SNAG (count(atA, atB... atJ))
FCNSNAGS_DD	number of snags values in the drawdown using FC_SNAG_DD (count(atA_DD, atB_DD, ... atJ_DD))
FCNSNAGS_LIT	number of snags values in the littoral zone using FC_SNAG (count(atA, atB... atJ))
FCNSNAGS_SIM	number of snags data simulating what would be present within 10m of full-pool shoreline if there was zero drawdown using FC_SNAG, FC_SNAG_DD, HORIZ_DIST_DD (count(atA_SIM, atB_SIM, ... atJ_SIM))
FCNSTRUCTURES	number of artificial structures using FC_STRUCTURES (count(atA, atB... atJ))
FCNSTRUCTURES_DD	number of artificial structures values in the drawdown using FC_STRUCTURES_DD (count(atA_DD, atB_DD, ... atJ_DD))
FCNSTRUCTURES_LIT	number of artificial structures values in the littoral zone using FC_STRUCTURES (count(atA, atB... atJ))
FCNSTRUCTURES_SIM	number of artificial structures data simulating what would be present within 10m of full-pool shoreline if there was zero drawdown using FC_STRUCTURES, FC_STRUCTURES_DD, HORIZ_DIST_DD (count(atA_SIM, atB_SIM, ... atJ_SIM))
FCVAQUATIC	std dev. of aquatic vegetation using FC_AQUATIC (stdev(wtA, wtB... wtJ))
FCVAQUATIC_DD	std dev. of aquatic vegetation in the drawdown zone using FC_AQUATIC_DD (stdev(atA_DD, atB_DD, ... atJ_DD))
FCVAQUATIC_LIT	std dev. of aquatic vegetation in the littoral zone using FC_AQUATIC (stdev(atA, atB... atJ))
FCVAQUATIC_SIM	std dev. of aquatic vegetation simulating what would be present within 10m of full-pool shoreline if there was zero drawdown using FC_AQUATIC, FC_AQUATIC_DD, HORIZ_DIST_DD (stdev(atA_SIM, atB_SIM, ... atJ_SIM))
FCVBOULDERS	std dev. of boulders using FC_BOULDERS (stdev(wtA, wtB... wtJ))
FCVBOULDERS_DD	std dev. of boulders in the drawdown zone using FC_BOULDERS_DD (stdev(atA_DD, atB_DD, ... atJ_DD))
FCVBOULDERS_LIT	std dev. of boulders in the littoral zone using FC_BOULDERS (stdev(atA, atB... atJ))
FCVBOULDERS_SIM	std dev. of boulders simulating what would be present within 10m of full-pool shoreline if there was zero drawdown using FC_BOULDERS, FC_BOULDERS_DD, HORIZ_DIST_DD (stdev(atA_SIM, atB_SIM, ... atJ_SIM))
FCVBRUSH	std dev. of brush using FC_BRUSH (stdev(wtA, wtB... wtJ))
FCVBRUSH_DD	std dev. of brush in the drawdown zone using FC_BRUSH_DD (stdev(atA_DD, atB_DD, ... atJ_DD))
FCVBRUSH_LIT	std dev. of aquatic vegetation in the littoral zone using FC_BRUSH (stdev(atA, atB... atJ))
FCVBRUSH_SIM	std dev. of aquatic vegetation simulating what would be present within 10m of full-pool shoreline if there was zero drawdown using FC_BRUSH, FC_BRUSH_DD, HORIZ_DIST_DD (stdev(atA_SIM, atB_SIM, ... atJ_SIM))
FCVLEDGES	std dev. of ledges using FC_LEDGES (stdev(wtA, wtB... wtJ))
FCVLEDGES_DD	std dev. of ledges in the drawdown zone using FC_LEDGES_DD (stdev(atA_DD, atB_DD, ... atJ_DD))
FCVLEDGES_LIT	std dev. of ledges in the littoral zone using FC_LEDGES (stdev(atA, atB... atJ))
FCVLEDGES_SIM	std dev. of ledges simulating what would be present within 10m of full-pool shoreline if there was zero drawdown using FC_LEDGES, FC_LEDGES_DD, HORIZ_DIST_DD (stdev(atA_SIM, atB_SIM, ... atJ_SIM))
FCVLIVETREES	std dev. of live trees using FC_LIVETREES (stdev(wtA, wtB... wtJ))
FCVLIVETREES_DD	std dev. of live trees in the drawdown zone using FC_LIVETREES_DD (stdev(atA_DD, atB_DD, ... atJ_DD))
FCVLIVETREES_LIT	std dev. of live trees in the littoral zone using FC_LIVETREES (stdev(atA, atB... atJ))
FCVLIVETREES_SIM	std dev. of live trees simulating what would be present within 10m of full-pool shoreline if there was zero drawdown using FC_LIVETREES, FC_LIVETREES_DD, HORIZ_DIST_DD (stdev(atA_SIM, atB_SIM, ... atJ_SIM))
FCVOVERHANG	std dev. of overhangs using FC_OVERHANG (stdev(wtA, wtB... wtJ))

FCVOVERHANG_DD	std dev. of overhangs in the drawdown zone using FC_OVERHANG_DD (stdev(atA_DD, atB_DD, ... atJ_DD))
FCVOVERHANG_LIT	std dev. of overhangs in the littoral zone using FC_OVERHANG (stdev(atA, atB... atJ))
FCVOVERHANG_SIM	std dev. of overhangs simulating what would be present within 10m of full-pool shoreline if there was zero drawdown using FC_OVERHANG, FC_OVERHANG_DD, HORIZ_DIST_DD (stdev(atA_SIM, atB_SIM, ... atJ_SIM))
FCVSNAG	std dev. of snags using FC_SNAG (stdev(wtA, wtB... wtJ))
FCVSNAGS_DD	std dev. of snags in the drawdown zone using FC_SNAG_DD (stdev(atA_DD, atB_DD, ... atJ_DD))
FCVSNAGS_LIT	std dev. of snags in the littoral zone using FC_SNAG (stdev(atA, atB... atJ))
FCVSNAGS_SIM	std dev. of snags simulating what would be present within 10m of full-pool shoreline if there was zero drawdown using FC_SNAG, FC_SNAG_DD, HORIZ_DIST_DD (stdev(atA_SIM, atB_SIM, ... atJ_SIM))
FCVSTRUCTURES	std dev. of artificial structures using FC_STRUCTURES (stdev(wtA, wtB... wtJ))
FCVSTRUCTURES_DD	std dev. of artificial structures in the drawdown zone using FC_STRUCTURES_DD (stdev(atA_DD, atB_DD, ... atJ_DD))
FCVSTRUCTURES_LIT	std dev. of artificial structures in the littoral zone using FC_STRUCTURES (stdev(atA, atB... atJ))
FCVSTRUCTURES_SIM	std dev. of artificial structures simulating what would be present within 10m of full-pool shoreline if there was zero drawdown using FC_STRUCTURES, FC_STRUCTURES_DD, HORIZ_DIST_DD (stdev(atA_SIM, atB_SIM, ... atJ_SIM))
HIFPANY	fractional presence of any influence using HI_BUILDINGS, HI_COMMERCIAL, HI_CROPS, HI_DOCKS, HI_LANDFILL, HI_LAWN, HI_ORCHARD, HI_PARK, HI_PASTURE, HI_POWERLINES, HI_ROADS, HI_WALLS (mean(anyAtA, anyAtB, ... anyAtJ))
HIFPANY_DD	fractional presence of any influence in the drawdown zone using HI_BUILDINGS_DD, HI_COMMERCIAL_DD, HI_CROPS_DD, HI_DOCKS_DD, HI_LANDFILL_DD, HI_LAWN_DD, HI_ORCHARD_DD, HI_PARK_DD, HI_PASTURE_DD, HI_POWERLINES_DD, HI_ROADS_DD, HI_WALLS_DD (mean(anyDDAtA, anyDDAtB, ... anyDDAtJ))
HIFPANY_RIP	fractional presence of any influence in the riparian zone using HI_BUILDINGS, HI_COMMERCIAL, HI_CROPS, HI_DOCKS, HI_LANDFILL, HI_LAWN, HI_ORCHARD, HI_PARK, HI_PASTURE, HI_POWERLINES, HI_ROADS, HI_WALLS (mean(anyAtA, anyAtB, ... anyAtJ))
HIFPANY_SYN	fractional presence of any influence synthesizing the 2007 protocol using HI_BUILDINGS, HI_COMMERCIAL, HI_CROPS, HI_DOCKS, HI_LANDFILL, HI_LAWN, HI_ORCHARD, HI_PARK, HI_PASTURE, HI_POWERLINES, HI_ROADS, HI_WALLS, HI_BUILDINGS_DD, HI_COMMERCIAL_DD, HI_CROPS_DD, HI_DOCKS_DD, HI_LANDFILL_DD, HI_LAWN_DD, HI_ORCHARD_DD, HI_PARK_DD, HI_PASTURE_DD, HI_POWERLINES_DD, HORIZ_DIST_DD (mean(anySIMAtA, anySIMAtB, ... anySIMAtJ))
HIFPANYCIRCA	fractional presence of any influence occuring in station plots using HI_BUILDINGS, HI_COMMERCIAL, HI_CROPS, HI_DOCKS, HI_LANDFILL, HI_LAWN, HI_ORCHARD, HI_PARK, HI_PASTURE, HI_POWERLINES, HI_ROADS, HI_WALLS (mean(anyAtA=C, anyAtB=C, ... anyAtJ=C))
HIFPANYCIRCA_DD	fractional presence of any influence occuring in station plots in the drawdown zone using HI_BUILDINGS_DD, HI_COMMERCIAL_DD, HI_CROPS_DD, HI_DOCKS_DD, HI_LANDFILL_DD, HI_LAWN_DD, HI_ORCHARD_DD, HI_PARK_DD, HI_PASTURE_DD, HI_POWERLINES_DD, HI_ROADS_DD, HI_WALLS_DD (mean(anyDDAtA, anyDDAtB, ... anyDDAtJ))
HIFPANYCIRCA_RIP	fractional presence of any influence occuring in station plots in the riparian zone using HI_BUILDINGS, HI_COMMERCIAL, HI_CROPS, HI_DOCKS, HI_LANDFILL, HI_LAWN, HI_ORCHARD, HI_PARK, HI_PASTURE, HI_POWERLINES, HI_ROADS, HI_WALLS (mean(anyAtA, anyAtB, ... anyAtJ))

HIFPANYCIRCA_SYN	fractional presence of any influence occuring in station plots synthesizing the 2007 protocol using HI_BUILDINGS, HI_COMMERCIAL, HI_CROPS, HI_DOCKS, HI_LANDFILL, HI_LAWN, HI_ORCHARD, HI_PARK, HI_PASTURE, HI_POWERLINES, HI_ROADS, HI_WALLS, HI_BUILDINGS_DD, HI_COMMERCIAL_DD, HI_CROPS_DD, HI_DOCKS_DD, HI_LANDFILL_DD, HI_LAWN_DD, HI_ORCHARD_DD, HI_PARK_DD, HI_PASTURE_DD, HI_POWERLINES_DD, HORIZ_DIST_DD (mean(anySIMAtA, anySIMAtB, ... anySIMAtJ))
HIIAG	index of agricultural influences using hipwCrops, hipwOrchard, hipwPasture, (sum of individual weighted means of agricultural influences)
HIIAG_DD	index of agricultural influences in the drawdown zone using hi_Crops_DD, hi_Orchard_DD, hi_Pasture_DD (sum of individual weighted means of agricultural influences in the drawdown zone)
HIIAG_RIP	index of agricultural influences in the riparian zone using hi_Crops, hi_Orchard, hi_Pasture (sum of individual weighted means of agricultural influences in the riparian zone)
HIIAG_SYN	index of agricultural influences synthesizing the 2007 protocol using hi_Crops, hi_Orchard, hi_Pasture. hi_Crops_DD, hi_Orchard_DD, hi_Pasture_DD, HORIZ_DIST_DD (sum of individual weighted means of agricultural influences synthesizing the 2007 protocol)
HIIAGCIRCA	index of agricultural influences occuring close to shore using HI_BUILDINGS, HI_COMMERCIAL, HI_CROPS, HI_DOCKS, HI_LANDFILL, HI_LAWN, HI_ORCHARD, HI_PARK, HI_PASTURE, HI_POWERLINES, HI_ROADS, HI_WALLS (sum of all individual weighted means of agricultural influences (note nonstandard weights).)
HIIAGCIRCA_DD	index of agricultural influences occuring close to shore in the drawdown zone using HI_BUILDINGS_DD, HI_COMMERCIAL_DD, HI_CROPS_DD, HI_DOCKS_DD, HI_LANDFILL_DD, HI_LAWN_DD, HI_ORCHARD_DD, HI_PARK_DD, HI_PASTURE_DD, HI_POWERLINES_DD, HI_ROADS_DD, HI_WALLS_DD (sum of all individual weighted means of agricultural influences (note nonstandard weights). in the drawdown zone)
HIIAGCIRCA_RIP	index of agricultural influences occuring close to shore in the riparian zone using HI_BUILDINGS, HI_COMMERCIAL, HI_CROPS, HI_DOCKS, HI_LANDFILL, HI_LAWN, HI_ORCHARD, HI_PARK, HI_PASTURE, HI_POWERLINES, HI_ROADS, HI_WALLS (sum of all individual weighted means of agricultural influences (note nonstandard weights). in the riparian zone)
HIIAGCIRCA_SYN	index of agricultural influences occuring close to shore synthesizing the 2007 protocol using HI_BUILDINGS, HI_COMMERCIAL, HI_CROPS, HI_DOCKS, HI_LANDFILL, HI_LAWN, HI_ORCHARD, HI_PARK, HI_PASTURE, HI_POWERLINES, HI_ROADS, HI_WALLS, HI_BUILDINGS_DD, HI_COMMERCIAL_DD, HI_CROPS_DD, HI_DOCKS_DD, HI_LANDFILL_DD, HI_LAWN_DD, HI_ORCHARD_DD, HI_PARK_DD, HORIZ_DIST_DD (sum of all individual weighted means of agricultural influences (note nonstandard weights). synthesizing the 2007 protocol)
HIIALL	index of all human influences using hipwBuildings, hipwCommercial, hipwCrops, hipwDocks, hipwLandfill, hipwLawn, hipwOrchard, hipwPark, hipwPasture, hipwPowerlines, hipwRoads, hipwWalls (sum(hipw*))
HIIALL_DD	index of all human influences in the drawdown zone using hi_Buildings_DD, hi_Commercial_DD, hi_Crops_DD, hi_Docks_DD, hi_Landfill_DD, hi_Lawn_DD, hi_Orchard_DD, hi_Park_DD, hi_Pasture_DD, hi_Powerlines_DD, hi_Roads_DD, hi_Walls_DD (sum(hipw*) in the drawdown zone)
HIIALL_RIP	index of all human influences in the riparian zone using hi_Buildings, hi_Commercial, hi_Crops, hi_Docks, hi_Landfill, hi_Lawn, hi_Orchard, hi_Park, hi_Pasture, hi_Powerlines, hi_Roads, hi_Walls (sum(hipw*) in the riparian zone)
HIIALL_SYN	index of all human influences synthesizing the 2007 protocol using hi_Buildings, hi_Commercial, hi_Crops, hi_Docks, hi_Landfill, hi_Lawn, hi_Orchard, hi_Park, hi_Pasture, hi_Powerlines, hi_Roads, hi_Walls, hi_Buildings_DD, hi_Commercial_DD, hi_Crops_DD, hi_Docks_DD, hi_Landfill_DD, hi_Lawn_DD, hi_Orchard_DD, hi_Park_DD, hi_Pasture_DD, hi_Powerlines_DD, hi_Roads_DD, hi_Walls_DD, HORIZ_DIST_DD (sum(hipw*) synthesizing the 2007 protocol)

HIIALLCIRCA	index of all influences occuring close to shore using HI_BUILDINGS, HI_COMMERCIAL, HI_CROPS, HI_DOCKS, HI_LANDFILL, HI_LAWN, HI_ORCHARD, HI_PARK, HI_PASTURE, HI_POWERLINES, HI_ROADS, HI_WALLS (sum of all individual weighted means (note nonstandard weights).)
HIIALLCIRCA_DD	index of all influences occuring close to shore in the drawdown zone using HI_BUILDINGS_DD, HI_COMMERCIAL_DD, HI_CROPS_DD, HI_DOCKS_DD, HI_LANDFILL_DD, HI_LAWN_DD, HI_ORCHARD_DD, HI_PARK_DD, HI_PASTURE_DD, HI_POWERLINES_DD, HI_ROADS_DD, HI_WALLS_DD (sum of all individual weighted means (note nonstandard weights). in the drawdown zone)
HIIALLCIRCA_RIP	index of all influences occuring close to shore in the riparian zone using HI_BUILDINGS, HI_COMMERCIAL, HI_CROPS, HI_DOCKS, HI_LANDFILL, HI_LAWN, HI_ORCHARD, HI_PARK, HI_PASTURE, HI_POWERLINES, HI_ROADS, HI_WALLS (sum of all individual weighted means (note nonstandard weights). in the riparian zone)
HIIALLCIRCA_SYN	index of all influences occuring close to shore synthesizing the 2007 protocol using HI_BUILDINGS, HI_COMMERCIAL, HI_CROPS, HI_DOCKS, HI_LANDFILL, HI_LAWN, HI_ORCHARD, HI_PARK, HI_PASTURE, HI_POWERLINES, HI_ROADS, HI_WALLS, HI_BUILDINGS_DD, HI_COMMERCIAL_DD, HI_CROPS_DD, HI_DOCKS_DD, HI_LANDFILL_DD, HI_LAWN_DD, HI_ORCHARD_DD, HI_PARK_DD, HORIZ_DIST_DD (sum of all individual weighted means (note nonstandard weights). synthesizing the 2007 protocol)
HIINONAG	index of nonagricultural influences using hipwBuildings, hipwCommercial, hipwDocks, hipwLandfill, hipwLawn, hipwPark, hipwPowerlines, hipwRoads, hipwWalls (sum of individual weighted means of nonagricultural influences)
HIINONAG_DD	index of nonagricultural influences in the drawdown zone using hi_Buildings_DD, hi_Commercial_DD, hi_Docks_DD, hi_Landfill_DD, hi_Lawn_DD, hi_Park_DD, hi_Powerlines_DD, hi_Roads_DD, hi_Walls_DD (sum of individual weighted means of nonagricultural influences in the drawdown zone)
HIINONAG_RIP	index of nonagricultural influences in the riparian zone using hi_Buildings, hi_Commercial, hi_Docks, hi_Landfill, hi_Lawn, hi_Park, hi_Powerlines, hi_Roads, hi_Walls (sum of individual weighted means of nonagricultural influences in the riparian zone)
HIINONAG_SYN	index of nonagricultural influences synthesizing the 2007 protocol using hi_Buildings, hi_Commercial, hi_Docks, hi_Landfill, hi_Lawn, hi_Park, hi_Powerlines, hi_Roads, hi_Walls, hi_Buildings_DD, hi_Commercial_DD, hi_Docks_DD, hi_Landfill_DD, hi_Lawn_DD, hi_Park_DD, hi_Powerlines_DD, hi_Roads_DD, hi_Walls_DD, HORIZ_DIST_DD (sum of individual weighted means of nonagricultural influences synthesizing the 2007 protocol)
HIINONAGCIRCA	index of nonagricultural influences occuring close to shore using HI_BUILDINGS, HI_COMMERCIAL, HI_CROPS, HI_DOCKS, HI_LANDFILL, HI_LAWN, HI_ORCHARD, HI_PARK, HI_PASTURE, HI_POWERLINES, HI_ROADS, HI_WALLS (sum of all individual weighted means of nonagricultural influences (note nonstandard weights).)
HIINONAGCIRCA_DD	index of nonagricultural influences occuring close to shore in the drawdown zone using HI_BUILDINGS_DD, HI_COMMERCIAL_DD, HI_CROPS_DD, HI_DOCKS_DD, HI_LANDFILL_DD, HI_LAWN_DD, HI_ORCHARD_DD, HI_PARK_DD, HI_PASTURE_DD, HI_POWERLINES_DD, HI_ROADS_DD, HI_WALLS_DD (sum of all individual weighted means of nonagricultural influences (note nonstandard weights). in the drawdown zone)
HIINONAGCIRCA_RIP	index of nonagricultural influences occuring close to shore in the riparian zone using HI_BUILDINGS, HI_COMMERCIAL, HI_CROPS, HI_DOCKS, HI_LANDFILL, HI_LAWN, HI_ORCHARD, HI_PARK, HI_PASTURE, HI_POWERLINES, HI_ROADS, HI_WALLS (sum of all individual weighted means of nonagricultural influences (note nonstandard weights). in the riparian zone)

HIINONAGCIRCA_SYN	index of nonagricultural influences occuring close to shore synthesizing the 2007 protocol using HI_BUILDINGS, HI_COMMERCIAL, HI_CROPS, HI_DOCKS, HI_LANDFILL, HI_LAWN, HI_ORCHARD, HI_PARK, HI_PASTURE, HI_POWERLINES, HI_ROADS, HI_WALLS, HI_BUILDINGS_DD, HI_COMMERCIAL_DD, HI_CROPS_DD, HI_DOCKS_DD, HI_LANDFILL_DD, HI_LAWN_DD, HI_ORCHARD_DD, HI_PARK_DD, HI_PASTURE_DD, HI_POWERLINES_DD, HI_ROADS_DD, HI_WALLS_DD, HORIZ_DIST_DD (sum of all individual weighted means of nonagricultural influences (note nonstandard weights). synthesizing the 2007 protocol)
HINAG	count of all values used using HI_CROPS, HI_ORCHARD, HI_PASTURE (count(atA, atB... atJ))
HINAG_DD	count of all values used in the drawdown zone using HI_CROPS_DD, HI_ORCHARD_DD, HI_PASTURE_DD (count(atA, atB... atJ) in the drawdown zone)
HINAG_RIP	count of all values used in the riparian zone using HI_CROPS, HI_ORCHARD, HI_PASTURE (count(atA, atB... atJ) in the riparian zone)
HINAG_SYN	count of all values used synthesizing the 2007 protocol using HI_CROPS, HI_ORCHARD, HI_PASTURE, HI_CROPS_DD, HI_ORCHARD_DD, HI_PASTURE_DD, HORIZ_DIST_DD (count(atA, atB... atJ) synthesizing the 2007 protocol)
HINALL	count of all values used using HI_BUILDINGS, HI_COMMERCIAL, HI_CROPS, HI_DOCKS, HI_LANDFILL, HI_LAWN, HI_ORCHARD, HI_PARK, HI_PASTURE, HI_POWERLINES, HI_ROADS, HI_WALLS (count(atA, atB... atJ))
HINALL_DD	count of all values used in the drawdown zone using HI_BUILDINGS_DD, HI_COMMERCIAL_DD, HI_CROPS_DD, HI_DOCKS_DD, HI_LANDFILL_DD, HI_LAWN_DD, HI_ORCHARD_DD, HI_PARK_DD, HI_PASTURE_DD, HI_POWERLINES_DD, HI_ROADS_DD, HI_WALLS_DD (count(atA, atB... atJ) in the drawdown zone)
HINALL_RIP	count of all values used in the riparian zone using HI_BUILDINGS, HI_COMMERCIAL, HI_CROPS, HI_DOCKS, HI_LANDFILL, HI_LAWN, HI_ORCHARD, HI_PARK, HI_PASTURE, HI_POWERLINES, HI_ROADS, HI_WALLS (count(atA, atB... atJ) in the riparian zone)
HINALL_SYN	count of all values used synthesizing the 2007 protocol using HI_BUILDINGS, HI_COMMERCIAL, HI_CROPS, HI_DOCKS, HI_LANDFILL, HI_LAWN, HI_ORCHARD, HI_PARK, HI_PASTURE, HI_POWERLINES, HI_ROADS, HI_WALLS, HI_BUILDINGS_DD, HI_COMMERCIAL_DD, HI_CROPS_DD, HI_DOCKS_DD, HI_LANDFILL_DD, HI_LAWN_DD, HI_ORCHARD_DD, HI_PARK_DD, HORIZ_DIST_DD (count(atA, atB... atJ) synthesizing the 2007 protocol)
HINBUILDINGS	count of values using HI_BUILDINGS (count(atA, atB... atJ))
HINBUILDINGS_DD	count of values in the drawdown zone using HI_BUILDINGS_DD (count(atA, atB... atJ) in the drawdown zone)
HINBUILDINGS_RIP	count of values in the riparian zone using HI_BUILDINGS (count(atA, atB... atJ) in the riparian zone)
HINBUILDINGS_SYN	count of values synthesizing the 2007 protocol using HI_BUILDINGS, HI_BUILDINGS_DD, HORIZ_DIST_DD (count(atA, atB... atJ) synthesizing the 2007 protocol)
HINCOMMERCIAL	count of values using HI_COMMERCIAL (count(atA, atB... atJ))
HINCOMMERCIAL_DD	count of values in the drawdown zone using HI_COMMERCIAL_DD (count(atA, atB... atJ) in the drawdown zone)
HINCOMMERCIAL_RIP	count of values in the riparian zone using HI_COMMERCIAL (count(atA, atB... atJ) in the riparian zone)
HINCOMMERCIAL_SYN	count of values synthesizing the 2007 protocol using HI_COMMERCIAL, HI_COMMERCIAL_DD, HORIZ_DIST_DD (count(atA, atB... atJ) synthesizing the 2007 protocol)
HINCROPS	count of values using HI_CROPS (count(atA, atB... atJ))
HINCROPS_DD	count of values in the drawdown zone using HI_CROPS_DD (count(atA, atB... atJ) in the drawdown zone)
HINCROPS_RIP	count of values in the riparian zone using HI_CROPS (count(atA, atB... atJ) in the riparian zone)
HINCROPS_SYN	count of values synthesizing the 2007 protocol using HI_CROPS, HI_CROPS_DD, HORIZ_DIST_DD (count(atA, atB... atJ) synthesizing the 2007 protocol)
HINDOCKS	count of values using HI_DOCKS (count(atA, atB... atJ))

HINDOCKS_DD	count of values in the drawdown zone using HI_DOCKS_DD (count(atA, atB… atJ) in the drawdown zone)
HINDOCKS_RIP	count of values in the riparian zone using HI_DOCKS (count(atA, atB… atJ) in the riparian zone)
HINDOCKS_SYN	count of values synthesizing the 2007 protocol using HI_DOCKS, HI_DOCKS_DD, HORIZ_DIST_DD (count(atA, atB… atJ) synthesizing the 2007 protocol)
HINLANDFILL	count of values using HI_LANDFILL (count(atA, atB… atJ))
HINLANDFILL_DD	count of values in the drawdown zone using HI_LANDFILL_DD (count(atA, atB… atJ) in the drawdown zone)
HINLANDFILL_RIP	count of values in the riparian zone using HI_LANDFILL (count(atA, atB… atJ) in the riparian zone)
HINLANDFILL_SYN	count of values synthesizing the 2007 protocol using HI_LANDFILL, HI_LANDFILL_DD, HORIZ_DIST_DD (count(atA, atB… atJ) synthesizing the 2007 protocol)
HINLAWN	count of values using HI_LAWN (count(atA, atB… atJ))
HINLAWN_DD	count of values in the drawdown zone using HI_LAWN_DD (count(atA, atB… atJ) in the drawdown zone)
HINLAWN_RIP	count of values in the riparian zone using HI_LAWN (count(atA, atB… atJ) in the riparian zone)
HINLAWN_SYN	count of values synthesizing the 2007 protocol using HI_LAWN, HI_LAWN_DD, HORIZ_DIST_DD (count(atA, atB… atJ) synthesizing the 2007 protocol)
HINNONAG	count of all values used using HI_BUILDINGS, HI_COMMERCIAL, HI_DOCKS, HI_LANDFILL, HI_LAWN, HI_PARK, HI_POWERLINES, HI_ROADS, HI_WALLS (count(atA, atB… atJ))
HINNONAG_DD	count of all values used in the drawdown zone using HI_BUILDINGS_DD, HI_COMMERCIAL_DD, HI_DOCKS_DD, HI_LANDFILL_DD, HI_LAWN_DD, HI_PARK_DD, HI_POWERLINES_DD, HI_ROADS_DD, HI_WALLS_DD (count(atA, atB… atJ) in the drawdown zone)
HINNONAG_RIP	count of all values used in the riparian zone using HI_BUILDINGS, HI_COMMERCIAL, HI_DOCKS, HI_LANDFILL, HI_LAWN, HI_PARK, HI_POWERLINES, HI_ROADS, HI_WALLS (count(atA, atB… atJ) in the riparian zone)
HINNONAG_SYN	count of all values used synthesizing the 2007 protocol using HI_BUILDINGS, HI_COMMERCIAL, HI_DOCKS, HI_LANDFILL, HI_LAWN, HI_PARK, HI_POWERLINES, HI_ROADS, HI_WALLS, HI_BUILDINGS_DD, HI_COMMERCIAL_DD, HI_DOCKS_DD, HI_LANDFILL_DD, HI_LAWN_DD, HI_PARK_DD, HI_POWERLINES_DD, HI_ROADS_DD, HI_WALLS_DD, HORIZ_DIST_DD (count(atA, atB… atJ) synthesizing the 2007 protocol)
HINORCHARD	count of values using HI_ORCHARD (count(atA, atB… atJ))
HINORCHARD_DD	count of values in the drawdown zone using HI_ORCHARD_DD (count(atA, atB… atJ) in the drawdown zone)
HINORCHARD_RIP	count of values in the riparian zone using HI_ORCHARD (count(atA, atB… atJ) in the riparian zone)
HINORCHARD_SYN	count of values synthesizing the 2007 protocol using HI_ORCHARD, HI_ORCHARD_DD, HORIZ_DIST_DD (count(atA, atB… atJ) synthesizing the 2007 protocol)
HINOTHER_DD	count of values in the drawdown zone using HI_OTHER_DD (count(atA, atB… atJ) synthesizing the 2007 protocol in the drawdown zone)
HINOTHER_RIP	count of values in the riparian zone using HI_OTHER (count(atA, atB… atJ) synthesizing the 2007 protocol in the riparian zone)
HINOTHER_SYN	count of values synthesizing the 2007 protocol using HI_OTHER, HI_OTHER_DD, HORIZ_DIST_DD (count(atA, atB… atJ) synthesizing the 2007 protocol synthesizing the 2007 protocol)
HINPARK	count of values using HI_PARK (count(atA, atB… atJ))
HINPARK_DD	count of values in the drawdown zone using HI_PARK_DD (count(atA, atB… atJ) in the drawdown zone)
HINPARK_RIP	count of values in the riparian zone using HI_PARK (count(atA, atB… atJ) in the riparian zone)

HINPARK_SYN	count of values synthesizing the 2007 protocol using HI_PARK, HI_PARK_DD, HORIZ_DIST_DD (count(atA, atB... atJ) synthesizing the 2007 protocol)
HINPASTURE	count of values using HI_PASTURE (count(atA, atB... atJ))
HINPASTURE_DD	count of values in the drawdown zone using HI_PASTURE_DD (count(atA, atB... atJ) in the drawdown zone)
HINPASTURE_RIP	count of values in the riparian zone using HI_PASTURE (count(atA, atB... atJ) in the riparian zone)
HINPASTURE_SYN	count of values synthesizing the 2007 protocol using HI_PASTURE, HI_PASTURE_DD, HORIZ_DIST_DD (count(atA, atB... atJ) synthesizing the 2007 protocol)
HINPOWERLINES	count of values using HI_POWERLINES (count(atA, atB... atJ))
HINPOWERLINES_DD	count of values in the drawdown zone using HI_POWERLINES_DD (count(atA, atB... atJ) in the drawdown zone)
HINPOWERLINES_RIP	count of values in the riparian zone using HI_POWERLINES (count(atA, atB... atJ) in the riparian zone)
HINPOWERLINES_SYN	count of values synthesizing the 2007 protocol using HI_POWERLINES, HI_POWERLINES_DD, HORIZ_DIST_DD (count(atA, atB... atJ) synthesizing the 2007 protocol)
HINROADS	count of values using HI_ROADS (count(atA, atB... atJ))
HINROADS_DD	count of values in the drawdown zone using HI_ROADS_DD (count(atA, atB... atJ) in the drawdown zone)
HINROADS_RIP	count of values in the riparian zone using HI_ROADS (count(atA, atB... atJ) in the riparian zone)
HINROADS_SYN	count of values synthesizing the 2007 protocol using HI_ROADS, HI_ROADS_DD, HORIZ_DIST_DD (count(atA, atB... atJ) synthesizing the 2007 protocol)
HINWALLS	count of values using HI_WALLS (count(atA, atB... atJ))
HINWALLS_DD	count of values in the drawdown zone using HI_WALLS_DD (count(atA, atB... atJ) in the drawdown zone)
HINWALLS_RIP	count of values in the riparian zone using HI_WALLS (count(atA, atB... atJ) in the riparian zone)
HINWALLS_SYN	count of values synthesizing the 2007 protocol using HI_WALLS, HI_WALLS_DD, HORIZ_DIST_DD (count(atA, atB... atJ) synthesizing the 2007 protocol)
HIPWAG	weighted presence of agricultural influences using HI_CROPS, HI_ORCHARD, HI_PASTURE (mean(wtA, wtB, ... wtJ))
HIPWAG_DD	weighted presence of agricultural influences in the drawdown zone using HI_CROPS_DD, HI_ORCHARD_DD, HI_PASTURE_DD (mean(wtA, wtB, ... wtJ) in the drawdown zone)
HIPWAG_RIP	weighted presence of agricultural influences in the riparian zone using HI_CROPS, HI_ORCHARD, HI_PASTURE (mean(wtA, wtB, ... wtJ) in the riparian zone)
HIPWAG_SYN	weighted presence of agricultural influences synthesizing the 2007 protocol using HI_CROPS, HI_ORCHARD, HI_PASTURE, HI_CROPS_DD, HI_ORCHARD_DD, HI_PASTURE_DD, HORIZ_DIST_DD (mean(wtA, wtB, ... wtJ) synthesizing the 2007 protocol)
HIPWALL	w1_hall using HI_BUILDINGS, HI_COMMERCIAL, HI_CROPS, HI_DOCKS, HI_LANDFILL, HI_LAWN, HI_ORCHARD, HI_PARK, HI_PASTURE, HI_POWERLINES, HI_ROADS, HI_WALLS (mean(wtA, wtB... wtJ) including all types)
HIPWALL_DD	w1_hall in the drawdown zone using HI_BUILDINGS_DD, HI_COMMERCIAL_DD, HI_CROPS_DD, HI_DOCKS_DD, HI_LANDFILL_DD, HI_LAWN_DD, HI_ORCHARD_DD, HI_PARK_DD, HI_PASTURE_DD, HI_POWERLINES_DD, HI_ROADS_DD, HI_WALLS_DD (mean(wtA, wtB... wtJ) including all types in the drawdown zone)
HIPWALL_RIP	w1_hall in the riparian zone using HI_BUILDINGS, HI_COMMERCIAL, HI_CROPS, HI_DOCKS, HI_LANDFILL, HI_LAWN, HI_ORCHARD, HI_PARK, HI_PASTURE, HI_POWERLINES, HI_ROADS, HI_WALLS (mean(wtA, wtB... wtJ) including all types in the riparian zone)

	w1_hall synthesizing the 2007 protocol using HI_BUILDINGS, HI_COMMERCIAL, HI_CROPS, HI_DOCKS, HI_LANDFILL, HI_LAWN, HI_ORCHARD, HI_PARK, HI_PASTURE, HI_POWERLINES, HI_ROADS, HI_WALLS, HI_BUILDINGS_DD, HI_COMMERCIAL_DD, HI_CROPS_DD, HI_DOCKS_DD, HI_LANDFILL_DD, HI_LAWN_DD, HI_ORCHARD_DD, HI_PARK_DD, HI_PASTURE_DD, HI_POWERLINES_DD, HI_ROADS_DD, HI_WALLS_DD, HORIZ_DIST_DD (mean(wtA, wtB... wtJ)
HIPWALL_SYN	including all types synthesizing the 2007 protocol)
HIPWBUILDINGS	weighted presence of Buildings using HI_BUILDINGS (mean(wtA, wtB... wtJ))
HIPWBUILDINGS_DD	weighted presence of Buildings in the drawdown zone using HI_BUILDINGS_DD (mean(wtA, wtB... wtJ) in the drawdown zone)
HIPWBUILDINGS_RIP	weighted presence of Buildings in the riparian zone using HI_BUILDINGS (mean(wtA, wtB... wtJ) in the riparian zone)
HIPWBUILDINGS_SYN	weighted presence of Buildings synthesizing the 2007 protocol using HI_BUILDINGS, HI_BUILDINGS_DD, HORIZ_DIST_DD (mean(wtA, wtB... wtJ) synthesizing the 2007 protocol)
HIPWCOMMERCIAL	weighted presence of Commercial using HI_COMMERCIAL (mean(wtA, wtB... wtJ))
HIPWCOMMERCIAL_DD	weighted presence of Commercial in the drawdown zone using HI_COMMERCIAL_DD (mean(wtA, wtB... wtJ) in the drawdown zone)
HIPWCOMMERCIAL_RIP	weighted presence of Commercial in the riparian zone using HI_COMMERCIAL (mean(wtA, wtB... wtJ) in the riparian zone)
HIPWCOMMERCIAL_SYN	weighted presence of Commercial synthesizing the 2007 protocol using HI_COMMERCIAL, HI_COMMERCIAL_DD, HORIZ_DIST_DD (mean(wtA, wtB... wtJ) synthesizing the 2007 protocol)
HIPWCROPS	weighted presence of Crops using HI_CROPS (mean(wtA, wtB... wtJ))
HIPWCROPS_DD	weighted presence of Crops in the drawdown zone using HI_CROPS_DD (mean(wtA, wtB... wtJ) in the drawdown zone)
HIPWCROPS_RIP	weighted presence of Crops in the riparian zone using HI_CROPS (mean(wtA, wtB... wtJ) in the riparian zone)
HIPWCROPS_SYN	weighted presence of Crops synthesizing the 2007 protocol using HI_CROPS, HI_CROPS_DD, HORIZ_DIST_DD (mean(wtA, wtB... wtJ) synthesizing the 2007 protocol)
HIPWDOCKS	weighted presence of Docks using HI_DOCKS (mean(wtA, wtB... wtJ))
HIPWDOCKS_DD	weighted presence of Docks in the drawdown zone using HI_DOCKS_DD (mean(wtA, wtB... wtJ) in the drawdown zone)
HIPWDOCKS_RIP	weighted presence of Docks in the riparian zone using HI_DOCKS (mean(wtA, wtB... wtJ) in the riparian zone)
HIPWDOCKS_SYN	weighted presence of Docks synthesizing the 2007 protocol using HI_DOCKS, HI_DOCKS_DD, HORIZ_DIST_DD (mean(wtA, wtB... wtJ) synthesizing the 2007 protocol)
HIPWLANDFILL	weighted presence of Landfill using HI_LANDFILL (mean(wtA, wtB... wtJ))
HIPWLANDFILL_DD	weighted presence of Landfill in the drawdown zone using HI_LANDFILL_DD (mean(wtA, wtB... wtJ) in the drawdown zone)
HIPWLANDFILL_RIP	weighted presence of Landfill in the riparian zone using HI_LANDFILL (mean(wtA, wtB... wtJ) in the riparian zone)
HIPWLANDFILL_SYN	weighted presence of Landfill synthesizing the 2007 protocol using HI_LANDFILL, HI_LANDFILL_DD, HORIZ_DIST_DD (mean(wtA, wtB... wtJ) synthesizing the 2007 protocol)
HIPWLAWN	weighted presence of Lawn using HI_LAWN (mean(wtA, wtB... wtJ))
HIPWLAWN_DD	weighted presence of Lawn in the drawdown zone using HI_LAWN_DD (mean(wtA, wtB... wtJ) in the drawdown zone)
HIPWLAWN_RIP	weighted presence of Lawn in the riparian zone using HI_LAWN (mean(wtA, wtB... wtJ) in the riparian zone)
HIPWLAWN_SYN	weighted presence of Lawn synthesizing the 2007 protocol using HI_LAWN, HI_LAWN_DD, HORIZ_DIST_DD (mean(wtA, wtB... wtJ) synthesizing the 2007 protocol)

HIPWNONAG	weighted presence of non-agricultural influences using HI_BUILDINGS, HI_COMMERCIAL, HI_DOCKS, HI_LANDFILL, HI_LAWN, HI_PARK, HI_POWERLINES, HI_ROADS, HI_WALLS (mean(wtA, wtB... wtJ) including Buildings, Commercial, Docks, Landfill, Lawn, Park, Powerlines, Roads, Walls)
HIPWNONAG_DD	weighted presence of non-agricultural influences in the drawdown zone using HI_BUILDINGS, HI_COMMERCIAL, HI_DOCKS, HI_LANDFILL, HI_LAWN, HI_PARK, HI_POWERLINES, HI_ROADS, HI_WALLS (mean(wtA, wtB... wtJ) including Buildings, Commercial, Docks, Landfill, Lawn, Park, Powerlines, Roads, Walls in the drawdown zone)
HIPWNONAG_RIP	weighted presence of non-agricultural influences in the riparian zone using HI_BUILDINGS, HI_COMMERCIAL, HI_DOCKS, HI_LANDFILL, HI_LAWN, HI_PARK, HI_POWERLINES, HI_ROADS, HI_WALLS (mean(wtA, wtB... wtJ) including Buildings, Commercial, Docks, Landfill, Lawn, Park, Powerlines, Roads, Walls in the riparian zone)
HIPWNONAG_SYN	weighted presence of non-agricultural influences synthesizing the 2007 protocol using HI_BUILDINGS, HI_COMMERCIAL, HI_DOCKS, HI_LANDFILL, HI_LAWN, HI_PARK, HI_POWERLINES, HI_ROADS, HI_WALLS (mean(wtA, wtB... wtJ) including Buildings, Commercial, Docks, Landfill, Lawn, Park, Powerlines, Roads, Walls synthesizing the 2007 protocol)
HIPWORCHARD	weighted presence of Orchard using HI_ORCHARD (mean(wtA, wtB... wtJ))
HIPWORCHARD_DD	weighted presence of Orchard in the drawdown zone using HI_ORCHARD_DD (mean(wtA, wtB... wtJ) in the drawdown zone)
HIPWORCHARD_RIP	weighted presence of Orchard in the riparian zone using HI_ORCHARD (mean(wtA, wtB... wtJ) in the riparian zone)
HIPWORCHARD_SYN	weighted presence of Orchard synthesizing the 2007 protocol using HI_ORCHARD, HI_ORCHARD_DD, HORIZ_DIST_DD (mean(wtA, wtB... wtJ) synthesizing the 2007 protocol)
HIPWOTHER_DD	weighted presence of Other in the drawdown zone using HI_OTHER_DD (mean(wtA, wtB... wtJ) in the drawdown zone)
HIPWOTHER_RIP	weighted presence of Other in the riparian zone using HI_OTHER (mean(wtA, wtB... wtJ) in the riparian zone)
HIPWOTHER_SYN	weighted presence of Other synthesizing the 2007 protocol using HI_OTHER, HI_OTHER_DD, HORIZ_DIST_DD (mean(wtA, wtB... wtJ) synthesizing the 2007 protocol)
HIPWPARK	weighted presence of Park using HI_PARK (mean(wtA, wtB... wtJ))
HIPWPARK_DD	weighted presence of Park in the drawdown zone using HI_PARK_DD (mean(wtA, wtB... wtJ) in the drawdown zone)
HIPWPARK_RIP	weighted presence of Park in the riparian zone using HI_PARK (mean(wtA, wtB... wtJ) in the riparian zone)
HIPWPARK_SYN	weighted presence of Park synthesizing the 2007 protocol using HI_PARK, HI_PARK_DD, HORIZ_DIST_DD (mean(wtA, wtB... wtJ) synthesizing the 2007 protocol)
HIPWPASTURE	weighted presence of Pasture using HI_PASTURE (mean(wtA, wtB... wtJ))
HIPWPASTURE_DD	weighted presence of Pasture in the drawdown zone using HI_PASTURE_DD (mean(wtA, wtB... wtJ) in the drawdown zone)
HIPWPASTURE_RIP	weighted presence of Pasture in the riparian zone using HI_PASTURE (mean(wtA, wtB... wtJ) in the riparian zone)
HIPWPASTURE_SYN	weighted presence of Pasture synthesizing the 2007 protocol using HI_PASTURE, HI_PASTURE_DD, HORIZ_DIST_DD (mean(wtA, wtB... wtJ) synthesizing the 2007 protocol)
HIPWPOWERLINES	weighted presence of Powerlines using HI_POWERLINES (mean(wtA, wtB... wtJ))
HIPWPOWERLINES_DD	weighted presence of Powerlines in the drawdown zone using HI_POWERLINES_DD (mean(wtA, wtB... wtJ) in the drawdown zone)
HIPWPOWERLINES_RIP	weighted presence of Powerlines in the riparian zone using HI_POWERLINES (mean(wtA, wtB... wtJ) in the riparian zone)

HIPWPOWERLINES_SYN	weighted presence of Powerlines synthesizing the 2007 protocol using HI_POWERLINES, HI_POWERLINES_DD, HORIZ_DIST_DD (mean(wtA, wtB... wtJ) synthesizing the 2007 protocol)
HIPWROADS	weighted presence of Roads using HI_ROADS (mean(wtA, wtB... wtJ))
HIPWROADS_DD	weighted presence of Roads in the drawdown zone using HI_ROADS_DD (mean(wtA, wtB... wtJ) in the drawdown zone)
HIPWROADS_RIP	weighted presence of Roads in the riparian zone using HI_ROADS (mean(wtA, wtB... wtJ) in the riparian zone)
HIPWROADS_SYN	weighted presence of Roads synthesizing the 2007 protocol using HI_ROADS, HI_ROADS_DD, HORIZ_DIST_DD (mean(wtA, wtB... wtJ) synthesizing the 2007 protocol)
HIPWWALLS	weighted presence of Walls using HI_WALLS (mean(wtA, wtB... wtJ))
HIPWWALLS_DD	weighted presence of Walls in the drawdown zone using HI_WALLS_DD (mean(wtA, wtB... wtJ) in the drawdown zone)
HIPWWALLS_RIP	weighted presence of Walls in the riparian zone using HI_WALLS (mean(wtA, wtB... wtJ) in the riparian zone)
HIPWWALLS_SYN	weighted presence of Walls synthesizing the 2007 protocol using HI_WALLS, HI_WALLS_DD, HORIZ_DIST_DD (mean(wtA, wtB... wtJ) synthesizing the 2007 protocol)
HORIZDD	Horizontal drawdown distance
LitCvrQc3OE	NLA 2012 Shallow water habitat condition indicator
LitRipCvrQc3OE	NLA 2012 Lake habitat complexity condition indicator
LMFPARTIFICIAL	fractional presence of artificial fish cover using COVER_ARTIFICIAL (mean(atA, atB... atJ))
LMFPBEDROCK	fraction of dominant substrate that is Bedrock using DOM_SUBSTRATE (count(BedrockA, BedrockB, ... BedrockJ))
LMFPBOULDERS	fractional presence of boulder fish cover using COVER_BOULDERS (mean(atA, atB... atJ))
LMFPCOBBLE	fraction of dominant substrate that is Cobble using DOM_SUBSTRATE (count(CobbleA, CobbleB, ... CobbleJ))
LMFPCONTINUOUS	fractional presence of continuous littoral fish cover using COVER_CLASS (mean(ContinuousA, ContinuousB, ... ContinuousJ))
LMFPFILL	fractional presence of fill fish cover using COVER_FILL (mean(atA, atB... atJ))
LMFPLITTLE	fractional presence of little or no littoral fish cover using ,'COVER_VEG', 'COVER_WOODY' (mean(noCoverA, noCoverB... noCoverJ))
LMFPMUD	fraction of dominant substrate that is Mud using DOM_SUBSTRATE (count(MudA, MudB, ... MudJ))
LMFPNONE	fractional presence of no fish cover using COVER_NONE (mean(atA, atB... atJ))
LMFPPATCHY	fractional presence of patchy littoral fish cover using COVER_CLASS (mean(PatchyA, PatchyB, ... PatchyJ))
LMFPSAND	fraction of dominant substrate that is Sand using DOM_SUBSTRATE (count(SandA, SandB, ... SandJ))
LMFPVEG	fractional presence of vegetation fish cover using COVER_VEG (mean(atA, atB... atJ))
LMFPWOODY	fractional presence of woody fish cover using COVER_WOODY (mean(atA, atB... atJ))
LMNCOVER	number of macrohabitat data using COVER_CLASS (count(atA, atB... atJ))
LMNCOVERTYPES	Count of stations at which we have cover type data using COVER_ARTIFICIAL, COVER_BOULDERS, COVER_FILL, COVER_WOODY, COVER_VEG, COVER_NONE (count(atA, atB... atJ))
LMNHUMAN	count of human disturbance values using HUMAN_DISTURBANCE (count(atA,atB, ... atJ))
LMNSUBSTRATE	count of dominant substrate class data using DOM_SUBSTRATE (count(atA, atB... atJ))
LMOCOVER	Mode of littoral fish cover type using ,'COVER_FILL', 'COVER_NONE' (mode(COVER_CLASS))
LMOSUBSTRATE	mode of dominant substrate class using DOM_SUBSTRATE (mode(dom_substrate))

LMPWHUMAN	weighted presence of human disturbance using HUMAN_DISTURBANCE (mean(wtA,wtB, ... wtJ))
LZFPALGAE	fractional presence of littoral algal film using SURFACE_FILM (mean(atA, atB... atJ))
LZFPFILM	fractional presence of any type of film other than 'None' using SURFACE_FILM (mean(atA, atB... atJ))
LZFPNONE	fractional presence of no littoral film using SURFACE_FILM (mean(atA, atB... atJ))
LZFPOILY	fractional presence of littoral oily film using SURFACE_FILM (mean(atA, atB... atJ))
LZFPOTHER	fractional presence of littoral other film using SURFACE_FILM (mean(atA, atB... atJ))
LZFPSCUM	fractional presence of littoral scum film using SURFACE_FILM (mean(atA, atB... atJ))
LZIFILMVARIETY	mean(count of film types other than 'None' at each station) using SURFACE_FILM (mean(countOfTypesAtA, countOfTypesAtB, ... countOfTypesAtJ))
LZOFILM	mode of surface film type using SURFACE_FILM (mode(surface_film))
RDis_IX	NLA 2012 Lakeshore disturbance condition indicator
RVegQc3OE	NLA 2012 Riparian vegetation condition indicator
RVFCCANBIG	fraction of canopy cover by trees >30 cm dbh using C_BIGTREES (mean(wtA, wtB... wtJ))
RVFCCANBIG_DD	fraction of canopy cover by trees >30 cm dbh in the drawdown zone using C_BIGTREES_DD (mean(wtA, wtB... wtJ) in the drawdown zone)
RVFCCANBIG_RIP	fraction of canopy cover by trees >30 cm dbh in the riparian zone using C_BIGTREES (mean(wtA, wtB... wtJ) in the riparian zone)
RVFCCANBIG_SYN	fraction of canopy cover by trees >30 cm dbh synthesizing the 2007 protocol using C_BIGTREES, C_BIGTREES_DD, HORIZ_DIST_DD (mean(wtA, wtB... wtJ) synthesizing the 2007 protocol)
RVFCCANSMALL	fraction of canopy cover by trees <30 cm dbh using C_SMALLTREES (mean(wtA, wtB... wtJ))
RVFCCANSMALL_DD	fraction of canopy cover by trees <30 cm dbh in the drawdown zone using C_SMALLTREES_DD (mean(wtA, wtB... wtJ) in the drawdown zone)
RVFCCANSMALL_RIP	fraction of canopy cover by trees <30 cm dbh in the riparian zone using C_SMALLTREES (mean(wtA, wtB... wtJ) in the riparian zone)
RVFCCANSMALL_SYN	fraction of canopy cover by trees <30 cm dbh synthesizing the 2007 protocol using C_SMALLTREES, C_SMALLTREES_DD, HORIZ_DIST_DD (mean(wtA, wtB... wtJ) synthesizing the 2007 protocol)
RVFCGNDBARE	fraction of ground lacking cover using GC_BARE (mean(wtA, wtB... wtJ))
RVFCGNDBARE_DD	fraction of ground lacking cover in the drawdown zone using GC_BARE_DD (mean(wtA, wtB... wtJ) in the drawdown zone)
RVFCGNDBARE_RIP	fraction of ground lacking cover in the riparian zone using GC_BARE (mean(wtA, wtB... wtJ) in the riparian zone)
RVFCGNDBARE_SYN	fraction of ground lacking cover synthesizing the 2007 protocol using GC_BARE, GC_BARE_DD, HORIZ_DIST_DD (mean(wtA, wtB... wtJ) synthesizing the 2007 protocol)
RVFCGNDINUNDATED	fraction of ground cover by inundation using GC_INUNDATED (mean(wtA, wtB... wtJ))
RVFCGNDINUNDATED_DD	fraction of ground cover by inundation in the drawdown zone using GC_INUNDATED_DD (mean(wtA, wtB... wtJ) in the drawdown zone)
RVFCGNDINUNDATED_RIP	fraction of ground cover by inundation in the riparian zone using GC_INUNDATED (mean(wtA, wtB... wtJ) in the riparian zone)
RVFCGNDINUNDATED_SYN	fraction of ground cover by inundation synthesizing the 2007 protocol using GC_INUNDATED, GC_INUNDATED_DD, HORIZ_DIST_DD (mean(wtA, wtB... wtJ) synthesizing the 2007 protocol)
RVFCGNDNONW	fraction of ground cover by herbaceous vegetation using GC_NONWOODY (mean(wtA, wtB... wtJ))
RVFCGNDNONW_DD	fraction of ground cover by herbaceous vegetation in the drawdown zone using GC_NONWOODY_DD (mean(wtA, wtB... wtJ) in the drawdown zone)
RVFCGNDNONW_RIP	fraction of ground cover by herbaceous vegetation in the riparian zone using GC_NONWOODY (mean(wtA, wtB... wtJ) in the riparian zone)

RVFCGNDNONW_SYN	fraction of ground cover by herbaceous vegetation synthesizing the 2007 protocol using GC_NONWOODY, GC_NONWOODY_DD, HORIZ_DIST_DD (mean(wtA, wtB... wtJ) synthesizing the 2007 protocol)
RVFCGNDWOODY	fraction of ground cover by woody vegetation using GC_WOODY (mean(wtA, wtB... wtJ))
RVFCGNDWOODY_DD	fraction of ground cover by woody vegetation in the drawdown zone using GC_WOODY_DD (mean(wtA, wtB... wtJ) in the drawdown zone)
RVFCGNDWOODY_RIP	fraction of ground cover by woody vegetation in the riparian zone using GC_WOODY (mean(wtA, wtB... wtJ) in the riparian zone)
RVFCGNDWOODY_SYN	fraction of ground cover by woody vegetation synthesizing the 2007 protocol using GC_WOODY, GC_WOODY_DD, HORIZ_DIST_DD (mean(wtA, wtB... wtJ) synthesizing the 2007 protocol)
RVFCUNDNONW	fraction of understory cover by nonwoody vegetation using U_NONWOODY (mean(wtA, wtB... wtJ))
RVFCUNDNONW_DD	fraction of understory cover by nonwoody vegetation in the drawdown zone using U_NONWOODY_DD (mean(wtA, wtB... wtJ) in the drawdown zone)
RVFCUNDNONW_RIP	fraction of understory cover by nonwoody vegetation in the riparian zone using U_NONWOODY (mean(wtA, wtB... wtJ) in the riparian zone)
RVFCUNDNONW_SYN	fraction of understory cover by nonwoody vegetation synthesizing the 2007 protocol using U_NONWOODY, U_NONWOODY_DD, HORIZ_DIST_DD (mean(wtA, wtB... wtJ) synthesizing the 2007 protocol)
RVFCUNDWOODY	fraction of understory cover by woody vegetation using U_WOODY (mean(wtA, wtB... wtJ))
RVFCUNDWOODY_DD	fraction of understory cover by woody vegetation in the drawdown zone using U_WOODY_DD (mean(wtA, wtB... wtJ) in the drawdown zone)
RVFCUNDWOODY_RIP	fraction of understory cover by woody vegetation in the riparian zone using U_WOODY (mean(wtA, wtB... wtJ) in the riparian zone)
RVFCUNDWOODY_SYN	fraction of understory cover by woody vegetation synthesizing the 2007 protocol using U_WOODY, U_WOODY_DD, HORIZ_DIST_DD (mean(wtA, wtB... wtJ) synthesizing the 2007 protocol)
RVFPCANBIG	Fraction of canopy with large trees present using C_BIGTREES (mean(atA, atB... atJ))
RVFPCANBIG_DD	Fraction of canopy with large trees present in the drawdown zone using C_BIGTREES_DD (mean(atA, atB... atJ) in the drawdown zone)
RVFPCANBIG_RIP	Fraction of canopy with large trees present in the riparian zone using C_BIGTREES (mean(atA, atB... atJ) in the riparian zone)
RVFPCANBIG_SYN	Fraction of canopy with large trees present synthesizing the 2007 protocol using C_BIGTREES, C_BIGTREES_DD, HORIZ_DIST_DD (mean(atA, atB... atJ) synthesizing the 2007 protocol)
RVFPCANBROADLEAF	fraction of broadleaf evergreen canopy presence using CANOPY (mean(atA, atB... atJ))
RVFPCANBROADLEAF_DD	fraction of broadleaf evergreen canopy presence in the drawdown zone using CANOPY_DD (mean(atA, atB... atJ) in the drawdown zone)
RVFPCANBROADLEAF_RIP	fraction of broadleaf evergreen canopy presence in the riparian zone using CANOPY (mean(atA, atB... atJ) in the riparian zone)
RVFPCANCONIFEROUS	fraction of coniferous canopy presence using CANOPY (mean(atA, atB... atJ))
RVFPCANCONIFEROUS_DD	fraction of coniferous canopy presence in the drawdown zone using CANOPY_DD (mean(atA, atB... atJ) in the drawdown zone)
RVFPCANCONIFEROUS_RIP	fraction of coniferous canopy presence in the riparian zone using CANOPY (mean(atA, atB... atJ) in the riparian zone)
RVFPCANDECIDUOUS	fraction of deciduous canopy presence using CANOPY (mean(atA, atB... atJ))
RVFPCANDECIDUOUS_DD	fraction of deciduous canopy presence in the drawdown zone using CANOPY_DD (mean(atA, atB... atJ) in the drawdown zone)
RVFPCANDECIDUOUS_RIP	fraction of deciduous canopy presence in the riparian zone using CANOPY (mean(atA, atB... atJ) in the riparian zone)
RVFPCANMIXED	fraction of mixed canopy presence using CANOPY (mean(atA, atB... atJ))

RVFPCANMIXED_DD	fraction of mixed canopy presence in the drawdown zone using CANOPY_DD (mean(atA, atB... atJ) in the drawdown zone)
RVFPCANMIXED_RIP	fraction of mixed canopy presence in the riparian zone using CANOPY (mean(atA, atB... atJ) in the riparian zone)
RVFPCANNONE	fraction of no canopy present using CANOPY (mean(atA, atB... atJ))
RVFPCANNONE_DD	fraction of no canopy present in the drawdown zone using CANOPY_DD (mean(atA, atB... atJ) in the drawdown zone)
RVFPCANNONE_RIP	fraction of no canopy present in the riparian zone using CANOPY (mean(atA, atB... atJ) in the riparian zone)
RVFPCANSMALL	fraction of canopy with small trees present using C_SMALLTREES (mean(atA, atB... atJ))
RVFPCANSMALL_DD	fraction of canopy with small trees present in the drawdown zone using C_SMALLTREES_DD (mean(atA, atB... atJ) in the drawdown zone)
RVFPCANSMALL_RIP	fraction of canopy with small trees present in the riparian zone using C_SMALLTREES (mean(atA, atB... atJ) in the riparian zone)
RVFPCANSMALL_SYN	fraction of canopy with small trees present synthesizing the 2007 protocol using C_SMALLTREES, C_SMALLTREES_DD, HORIZ_DIST_DD (mean(atA, atB... atJ) synthesizing the 2007 protocol)
RVFPGNDBARE	fraction of bare ground presence using GC_BARE (mean(atA, atB... atJ))
RVFPGNDBARE_DD	fraction of bare ground presence in the drawdown zone using GC_BARE_DD (mean(atA, atB... atJ) in the drawdown zone)
RVFPGNDBARE_RIP	fraction of bare ground presence in the riparian zone using GC_BARE (mean(atA, atB... atJ) in the riparian zone)
RVFPGNDBARE_SYN	fraction of bare ground presence synthesizing the 2007 protocol using GC_BARE, GC_BARE_DD, HORIZ_DIST_DD (mean(atA, atB... atJ) synthesizing the 2007 protocol)
RVFPGNDINUNDATED	fraction of inundated ground presence using GC_INUNDATED (mean(atA, atB... atJ))
RVFPGNDINUNDATED_DD	fraction of inundated ground presence in the drawdown zone using GC_INUNDATED_DD (mean(atA, atB... atJ) in the drawdown zone)
RVFPGNDINUNDATED_RIP	fraction of inundated ground presence in the riparian zone using GC_INUNDATED (mean(atA, atB... atJ) in the riparian zone)
RVFPGNDINUNDATED_SYN	fraction of inundated ground presence synthesizing the 2007 protocol using GC_INUNDATED, GC_INUNDATED_DD, HORIZ_DIST_DD (mean(atA, atB... atJ) synthesizing the 2007 protocol)
RVFPGNDNONW	fraction of nonwoody ground cover presence using GC_NONWOODY (mean(atA, atB... atJ))
RVFPGNDNONW_DD	fraction of nonwoody ground cover presence in the drawdown zone using GC_NONWOODY_DD (mean(atA, atB... atJ) in the drawdown zone)
RVFPGNDNONW_RIP	fraction of nonwoody ground cover presence in the riparian zone using GC_NONWOODY (mean(atA, atB... atJ) in the riparian zone)
RVFPGNDNONW_SYN	fraction of nonwoody ground cover presence synthesizing the 2007 protocol using GC_NONWOODY, GC_NONWOODY_DD, HORIZ_DIST_DD (mean(atA, atB... atJ) synthesizing the 2007 protocol)
RVFPGNDWOODY	fraction of woody ground cover presence using GC_WOODY (mean(atA, atB... atJ))
RVFPGNDWOODY_DD	fraction of woody ground cover presence in the drawdown zone using GC_WOODY_DD (mean(atA, atB... atJ) in the drawdown zone)
RVFPGNDWOODY_RIP	fraction of woody ground cover presence in the riparian zone using GC_WOODY (mean(atA, atB... atJ) in the riparian zone)
RVFPGNDWOODY_SYN	fraction of woody ground cover presence synthesizing the 2007 protocol using GC_WOODY, GC_WOODY_DD, HORIZ_DIST_DD (mean(atA, atB... atJ) synthesizing the 2007 protocol)
RVFPUNDBROADLEAF	fraction of broadleaf evergreen understory presence using UNDERSTORY (mean(atA, atB... atJ))
RVFPUNDBROADLEAF_DD	fraction of broadleaf evergreen understory presence in the drawdown zone using UNDERSTORY_DD (mean(atA, atB... atJ) in the drawdown zone)
RVFPUNDBROADLEAF_RIP	fraction of broadleaf evergreen understory presence in the riparian zone using UNDERSTORY (mean(atA, atB... atJ) in the riparian zone)

RVFPUNDCONIFEROUS	fraction of coniferous understory presence using UNDERSTORY (mean(atA, atB... atJ))
RVFPUNDCONIFEROUS_DD	fraction of coniferous understory presence in the drawdown zone using UNDERSTORY_DD (mean(atA, atB... atJ) in the drawdown zone)
RVFPUNDCONIFEROUS_RIP	fraction of coniferous understory presence in the riparian zone using UNDERSTORY (mean(atA, atB... atJ) in the riparian zone)
RVFPUNDDECIDUOUS	fraction of deciduous understory presence using UNDERSTORY (mean(atA, atB... atJ))
RVFPUNDDECIDUOUS_DD	fraction of deciduous understory presence in the drawdown zone using UNDERSTORY_DD (mean(atA, atB... atJ) in the drawdown zone)
RVFPUNDDECIDUOUS_RIP	fraction of deciduous understory presence in the riparian zone using UNDERSTORY (mean(atA, atB... atJ) in the riparian zone)
RVFPUNDMIXED	fraction of mixed understory presence using UNDERSTORY (mean(atA, atB... atJ))
RVFPUNDMIXED_DD	fraction of mixed understory presence in the drawdown zone using UNDERSTORY_DD (mean(atA, atB... atJ) in the drawdown zone)
RVFPUNDMIXED_RIP	fraction of mixed understory presence in the riparian zone using UNDERSTORY (mean(atA, atB... atJ) in the riparian zone)
RVFPUNDNONE	fraction of no understory present using UNDERSTORY (mean(atA, atB... atJ))
RVFPUNDNONE_DD	fraction of no understory present in the drawdown zone using UNDERSTORY_DD (mean(atA, atB... atJ) in the drawdown zone)
RVFPUNDNONE_RIP	fraction of no understory present in the riparian zone using UNDERSTORY (mean(atA, atB... atJ) in the riparian zone)
RVFPUNDNONW	fraction of understory with nonwoody cover present using U_NONWOODY (mean(atA, atB... atJ))
RVFPUNDNONW_DD	fraction of understory with nonwoody cover present in the drawdown zone using U_NONWOODY_DD (mean(atA, atB... atJ) in the drawdown zone)
RVFPUNDNONW_RIP	fraction of understory with nonwoody cover present in the riparian zone using U_NONWOODY (mean(atA, atB... atJ) in the riparian zone)
RVFPUNDNONW_SYN	fraction of understory with nonwoody cover present synthesizing the 2007 protocol using U_NONWOODY, U_NONWOODY_DD, HORIZ_DIST_DD (mean(atA, atB... atJ) synthesizing the 2007 protocol)
RVFPUNDWOODY	fraction of understory with nonwoody cover present using U_WOODY (mean(atA, atB... atJ))
RVFPUNDWOODY_DD	fraction of understory with nonwoody cover present in the drawdown zone using U_WOODY_DD (mean(atA, atB... atJ) in the drawdown zone)
RVFPUNDWOODY_RIP	fraction of understory with nonwoody cover present in the riparian zone using U_WOODY (mean(atA, atB... atJ) in the riparian zone)
RVFPUNDWOODY_SYN	fraction of understory with nonwoody cover present synthesizing the 2007 protocol using U_WOODY, U_WOODY_DD, HORIZ_DIST_DD (mean(atA, atB... atJ) synthesizing the 2007 protocol)
RVICANOPY	index of total canopy cover using C_BIGTREES, C_SMALLTREES (mean(bigA+smallA, bigB+smallB... bigJ+smalU))
RVICANOPY_DD	index of total canopy cover in the drawdown zone using C_BIGTREES_DD, C_SMALLTREES_DD (mean(bigA+smallA, bigB+smallB... bigJ+smalU) in the drawdown zone)
RVICANOPY_RIP	index of total canopy cover in the riparian zone using C_BIGTREES, C_SMALLTREES (mean(bigA+smallA, bigB+smallB... bigJ+smalU) in the riparian zone)
RVICANOPY_SYN	index of total canopy cover synthesizing the 2007 protocol using C_BIGTREES, C_SMALLTREES, C_BIGTREES_DD, C_SMALLTREES_DD, HORIZ_DIST_DD (mean(bigA+smallA, bigB+smallB... bigJ+smalU) synthesizing the 2007 protocol)
RVICANUND	index of total canopy and understory cover using C_BIGTREES, C_SMALLTREES, U_NONWOODY, U_WOODY (mean(canBigA+canSmallA+UndWoodyA+undHerbsA, canBigB+canSmallB+UndWoodyB+undHerbsB...canBigJ+canSmaUA+UndWoodyJ+undHerbsJ))

RVICANUND_DD	index of total canopy and understory cover in the drawdown zone using C_BIGTREES_DD, C_SMALLTREES_DD, U_NONWOODY_DD, U_WOODY_DD (mean(canBigA+canSmallA+UndWoodyA+undHerbsA, canBigB+canSmallB+UndWoodyB+undHerbsB...canBigJ+canSmaJJA+UndWoodyJ+undHerbsJ) in the drawdown zone)
RVICANUND_RIP	index of total canopy and understory cover in the riparian zone using C_BIGTREES, C_SMALLTREES, U_NONWOODY, U_WOODY (mean(canBigA+canSmallA+UndWoodyA+undHerbsA, canBigB+canSmallB+UndWoodyB+undHerbsB...canBigJ+canSmaJJA+UndWoodyJ+undHerbsJ) in the riparian zone)
RVICANUND_SYN	index of total canopy and understory cover synthesizing the 2007 protocol using C_BIGTREES, C_SMALLTREES, U_NONWOODY, U_WOODY, C_BIGTREES_DD, C_SMALLTREES_DD, U_NONWOODY_DD, U_WOODY_DD, HORIZ_DIST_DD (mean(canBigA+canSmallA+UndWoodyA+undHerbsA, canBigB+canSmallB+UndWoodyB+undHerbsB...canBigJ+canSmaJJA+UndWoodyJ+undHerbsJ) synthesizing the 2007 protocol)
RVIGROUND	index of total ground cover using GC_INUNDATED, GC_NONWOODY, GC_WOODY (mean(woodyA+herbA+inundatedA, woodyB+herbB+inundatedB... woodyJ+herbJ+inundatedJ))
RVIGROUND_DD	index of total ground cover in the drawdown zone using GC_INUNDATED_DD, GC_NONWOODY_DD, GC_WOODY_DD (mean(woodyA+herbA+inundatedA, woodyB+herbB+inundatedB... woodyJ+herbJ+inundatedJ) in the drawdown zone)
RVIGROUND_RIP	index of total ground cover in the riparian zone using GC_INUNDATED, GC_NONWOODY, GC_WOODY (mean(woodyA+herbA+inundatedA, woodyB+herbB+inundatedB... woodyJ+herbJ+inundatedJ) in the riparian zone)
RVIGROUND_SYN	index of total ground cover synthesizing the 2007 protocol using GC_INUNDATED, GC_NONWOODY, GC_WOODY, GC_INUNDATED_DD, GC_NONWOODY_DD, GC_WOODY_DD, HORIZ_DIST_DD (mean(woodyA+herbA+inundatedA, woodyB+herbB+inundatedB... woodyJ+herbJ+inundatedJ) synthesizing the 2007 protocol)
RVIHERBS	index of total herbaceous vegatation cover using U_NONWOODY, GC_NONWOODY (mean(undHerbsA+GndHerbsA, undHerbsB+GndHerbsB... undHerbsJ+GndHerbsJ))
RVIHERBS_DD	index of total herbaceous vegatation cover in the drawdown zone using U_NONWOODY_DD, GC_NONWOODY_DD (mean(undHerbsA+GndHerbsA, undHerbsB+GndHerbsB... undHerbsJ+GndHerbsJ) in the drawdown zone)
RVIHERBS_RIP	index of total herbaceous vegatation cover in the riparian zone using U_NONWOODY, GC_NONWOODY (mean(undHerbsA+GndHerbsA, undHerbsB+GndHerbsB... undHerbsJ+GndHerbsJ) in the riparian zone)
RVIHERBS_SYN	index of total herbaceous vegatation cover synthesizing the 2007 protocol using U_NONWOODY, GC_NONWOODY, U_NONWOODY_DD, GC_NONWOODY_DD, HORIZ_DIST_DD (mean(undHerbsA+GndHerbsA, undHerbsB+GndHerbsB... undHerbsJ+GndHerbsJ) synthesizing the 2007 protocol)
RVITALLWOOD	index of canopy and understory woody vegetation cover using C_BIGTREES, C_SMALLTREES, U_WOODY (mean(bigA+smallA+UndWoodA, bigB+smallB+UndWoodB... bigJ+smallU+UndWoodJ))
RVITALLWOOD_DD	index of canopy and understory woody vegetation cover in the drawdown zone using C_BIGTREES_DD, C_SMALLTREES_DD, U_WOODY_DD (mean(bigA+smallA+UndWoodA, bigB+smallB+UndWoodB... bigJ+smallU+UndWoodJ) in the drawdown zone)
RVITALLWOOD_RIP	index of canopy and understory woody vegetation cover in the riparian zone using C_BIGTREES, C_SMALLTREES, U_WOODY (mean(bigA+smallA+UndWoodA, bigB+smallB+UndWoodB... bigJ+smallU+UndWoodJ) in the riparian zone)
RVITALLWOOD_SYN	index of canopy and understory woody vegetation cover synthesizing the 2007 protocol using C_BIGTREES, C_SMALLTREES, U_WOODY, C_BIGTREES_DD, C_SMALLTREES_DD, U_WOODY_DD, HORIZ_DIST_DD (mean(bigA+smallA+UndWoodA, bigB+smallB+UndWoodB... bigJ+smallU+UndWoodJ) synthesizing the 2007 protocol)

RVITOTALVEG	index of total vegetation cover using C_BIGTREES, C_SMALLTREES, U_NONWOODY, U_WOODY, GC_NONWOODY, GC_WOODY (mean(sum(all veg)A, sum(all veg)B... sum(all veg)J) (does not include bare or inundated ground))
RVITOTALVEG_DD	index of total vegetation cover in the drawdown zone using C_BIGTREES_DD, C_SMALLTREES_DD, U_NONWOODY_DD, U_WOODY_DD, GC_NONWOODY_DD, GC_WOODY_DD (mean(sum(all veg)A, sum(all veg)B... sum(all veg)J) (does not include bare or inundated ground) in the drawdown zone)
RVITOTALVEG_RIP	index of total vegetation cover in the riparian zone using C_BIGTREES, C_SMALLTREES, U_NONWOODY, U_WOODY, GC_NONWOODY, GC_WOODY (mean(sum(all veg)A, sum(all veg)B... sum(all veg)J) (does not include bare or inundated ground) in the riparian zone)
RVITOTALVEG_SYN	index of total vegetation cover synthesizing the 2007 protocol using C_BIGTREES, C_SMALLTREES, U_NONWOODY, U_WOODY, GC_NONWOODY, GC_WOODY, C_BIGTREES_DD, C_SMALLTREES_DD, U_NONWOODY_DD, U_WOODY_DD, GC_NONWOODY_DD, GC_WOODY_DD, HORIZ_DIST_DD (mean(sum(all veg)A, sum(all veg)B... sum(all veg)J) (does not include bare or inundated ground) synthesizing the 2007 protocol)
RVIUNDERSTORY	index of total understory cover using U_WOODY, U_NONWOODY (mean(woodyA+herbA, woodyB+herbB... woodyJ+herbJ))
RVIUNDERSTORY_DD	index of total understory cover in the drawdown zone using U_WOODY_DD, U_NONWOODY_DD (mean(woodyA+herbA, woodyB+herbB... woodyJ+herbJ) in the drawdown zone)
RVIUNDERSTORY_RIP	index of total understory cover in the riparian zone using U_WOODY, U_NONWOODY (mean(woodyA+herbA, woodyB+herbB... woodyJ+herbJ) in the riparian zone)
RVIUNDERSTORY_SYN	index of total understory cover synthesizing the 2007 protocol using U_WOODY, U_NONWOODY, U_WOODY_DD, U_NONWOODY_DD, HORIZ_DIST_DD (mean(woodyA+herbA, woodyB+herbB... woodyJ+herbJ) synthesizing the 2007 protocol)
RVIWOODY	index of total woody vegatation cover using C_BIGTREES, C_SMALLTREES, U_WOODY, GC_WOODY (mean(bigA+smallA+UndWoodA+GndWoodyA, bigB+smallB+UndWoodB+GndWoodyB... bigJ+smalU+UndWoodJ+GndWoodyJ))
RVIWOODY_DD	index of total woody vegatation cover in the drawdown zone using C_BIGTREES_DD, C_SMALLTREES_DD, U_WOODY_DD, GC_WOODY_DD (mean(bigA+smallA+UndWoodA+GndWoodyA, bigB+smallB+UndWoodB+GndWoodyB... bigJ+smalU+UndWoodJ+GndWoodyJ) in the drawdown zone)
RVIWOODY_RIP	index of total woody vegatation cover in the riparian zone using C_BIGTREES, C_SMALLTREES, U_WOODY, GC_WOODY (mean(bigA+smallA+UndWoodA+GndWoodyA, bigB+smallB+UndWoodB+GndWoodyB... bigJ+smalU+UndWoodJ+GndWoodyJ) in the riparian zone)
RVIWOODY_SYN	index of total woody vegatation cover synthesizing the 2007 protocol using C_BIGTREES, C_SMALLTREES, U_WOODY, GC_WOODY, C_BIGTREES_DD, C_SMALLTREES_DD, U_WOODY_DD, GC_WOODY_DD, HORIZ_DIST_DD (mean(bigA+smallA+UndWoodA+GndWoodyA, bigB+smallB+UndWoodB+GndWoodyB... bigJ+smalU+UndWoodJ+GndWoodyJ) synthesizing the 2007 protocol)
RVNCANBIG	Count of values of canopy cover by trees > 30cm using C_BIGTREES (count(atA, atB... atJ))
RVNCANBIG_DD	Count of values of canopy cover by trees > 30cm in the drawdown zone using C_BIGTREES_DD (count(atA, atB... atJ) in the drawdown zone)
RVNCANBIG_RIP	Count of values of canopy cover by trees > 30cm in the riparian zone using C_BIGTREES (count(atA, atB... atJ) in the riparian zone)
RVNCANBIG_SYN	Count of values of canopy cover by trees > 30cm synthesizing the 2007 protocol using C_BIGTREES, C_BIGTREES_DD, HORIZ_DIST_DD (count(atA, atB... atJ) synthesizing the 2007 protocol)

RVNCANOPY	number of canopy type data using CANOPY (count(atA, atB... atJ))
RVNCANOPY_DD	number of canopy type data in the drawdown zone using CANOPY_DD (count(atA, atB... atJ) in the drawdown zone)
RVNCANOPY_RIP	number of canopy type data in the riparian zone using CANOPY (count(atA, atB... atJ) in the riparian zone)
RVNCANSMALL	Count of values of canopy cover by trees < 30 cm using C_SMALLTREES (count(atA, atB... atJ))
RVNCANSMALL_DD	Count of values of canopy cover by trees < 30 cm in the drawdown zone using C_SMALLTREES_DD (count(atA, atB... atJ) in the drawdown zone)
RVNCANSMALL_RIP	Count of values of canopy cover by trees < 30 cm in the riparian zone using C_SMALLTREES (count(atA, atB... atJ) in the riparian zone)
RVNCANSMALL_SYN	Count of values of canopy cover by trees < 30 cm synthesizing the 2007 protocol using C_SMALLTREES, C_SMALLTREES_DD, HORIZ_DIST_DD (count(atA, atB... atJ) synthesizing the 2007 protocol)
RVNGNDBARE	count of bare ground values using GC_BARE (count(atA, atB... atJ))
RVNGNDBARE_DD	count of bare ground values in the drawdown zone using GC_BARE_DD (count(atA, atB... atJ) in the drawdown zone)
RVNGNDBARE_RIP	count of bare ground values in the riparian zone using GC_BARE (count(atA, atB... atJ) in the riparian zone)
RVNGNDBARE_SYN	count of bare ground values synthesizing the 2007 protocol using GC_BARE, GC_BARE_DD, HORIZ_DIST_DD (count(atA, atB... atJ) synthesizing the 2007 protocol)
RVNGNDINUNDATED	count of ground inundation values using GC_INUNDATED (count(atA, atB... atJ))
RVNGNDINUNDATED_DD	count of ground inundation values in the drawdown zone using GC_INUNDATED_DD (count(atA, atB... atJ) in the drawdown zone)
RVNGNDINUNDATED_RIP	count of ground inundation values in the riparian zone using GC_INUNDATED (count(atA, atB... atJ) in the riparian zone)
RVNGNDINUNDATED_SYN	count of ground inundation values synthesizing the 2007 protocol using GC_INUNDATED, GC_INUNDATED_DD, HORIZ_DIST_DD (count(atA, atB... atJ) synthesizing the 2007 protocol)
RVNGNDNONW	count of nonwoody ground cover values using GC_NONWOODY (count(atA, atB... atJ))
RVNGNDNONW_DD	count of nonwoody ground cover values in the drawdown zone using GC_NONWOODY_DD (count(atA, atB... atJ) in the drawdown zone)
RVNGNDNONW_RIP	count of nonwoody ground cover values in the riparian zone using GC_NONWOODY (count(atA, atB... atJ) in the riparian zone)
RVNGNDNONW_SYN	count of nonwoody ground cover values synthesizing the 2007 protocol using GC_NONWOODY, GC_NONWOODY_DD, HORIZ_DIST_DD (count(atA, atB... atJ) synthesizing the 2007 protocol)
RVNGNDWOODY	count of woody ground cover values using GC_WOODY (count(atA, atB... atJ))
RVNGNDWOODY_DD	count of woody ground cover values in the drawdown zone using GC_WOODY_DD (count(atA, atB... atJ) in the drawdown zone)
RVNGNDWOODY_RIP	count of woody ground cover values in the riparian zone using GC_WOODY (count(atA, atB... atJ) in the riparian zone)
RVNGNDWOODY_SYN	count of woody ground cover values synthesizing the 2007 protocol using GC_WOODY, GC_WOODY_DD, HORIZ_DIST_DD (count(atA, atB... atJ) synthesizing the 2007 protocol)
RVNUNDERSTORY	number of understory type data using UNDERSTORY (count(atA, atB... atJ))
RVNUNDERSTORY_DD	number of understory type data in the drawdown zone using UNDERSTORY_DD (count(atA, atB... atJ) in the drawdown zone)
RVNUNDERSTORY_RIP	number of understory type data in the riparian zone using UNDERSTORY (count(atA, atB... atJ) in the riparian zone)
RVNUNDNONW	count of values of understory nonwoody cover using U_NONWOODY (count(atA, atB... atJ))
RVNUNDNONW_DD	count of values of understory nonwoody cover in the drawdown zone using U_NONWOODY_DD (count(atA, atB... atJ) in the drawdown zone)
RVNUNDNONW_RIP	count of values of understory nonwoody cover in the riparian zone using U_NONWOODY (count(atA, atB... atJ) in the riparian zone)

RVNUNDNONW_SYN	count of values of understory nonwoody cover synthesizing the 2007 protocol using U_NONWOODY, U_NONWOODY_DD, HORIZ_DIST_DD (count(atA, atB... atJ) synthesizing the 2007 protocol)
RVNUNDWOODY	count of values of understory nonwoody cover using U_WOODY (count(atA, atB... atJ))
RVNUNDWOODY_DD	count of values of understory nonwoody cover in the drawdown zone using U_WOODY_DD (count(atA, atB... atJ) in the drawdown zone)
RVNUNDWOODY_RIP	count of values of understory nonwoody cover in the riparian zone using U_WOODY (count(atA, atB... atJ) in the riparian zone)
RVNUNDWOODY_SYN	count of values of understory nonwoody cover synthesizing the 2007 protocol using U_WOODY, U_WOODY_DD, HORIZ_DIST_DD (count(atA, atB... atJ) synthesizing the 2007 protocol)
RVVCANBIG	stdev of canopy cover by trees > 30 cm dbh using C_BIGTREES (stdev(wtA, wtB... wtJ))
RVVCANBIG_DD	stdev of canopy cover by trees > 30 cm dbh in the drawdown zone using C_BIGTREES_DD (stdev(wtA, wtB... wtJ) in the drawdown zone)
RVVCANBIG_RIP	stdev of canopy cover by trees > 30 cm dbh in the riparian zone using C_BIGTREES (stdev(wtA, wtB... wtJ) in the riparian zone)
RVVCANBIG_SYN	stdev of canopy cover by trees > 30 cm dbh synthesizing the 2007 protocol using C_BIGTREES, C_BIGTREES_DD, HORIZ_DIST_DD (stdev(wtA, wtB... wtJ) synthesizing the 2007 protocol)
RVVCANSMALL	stdev of canopy cover by trees < 30 cm dbh using C_SMALLTREES (stdev(wtA, wtB... wtJ))
RVVCANSMALL_DD	stdev of canopy cover by trees < 30 cm dbh in the drawdown zone using C_SMALLTREES_DD (stdev(wtA, wtB... wtJ) in the drawdown zone)
RVVCANSMALL_RIP	stdev of canopy cover by trees < 30 cm dbh in the riparian zone using C_SMALLTREES (stdev(wtA, wtB... wtJ) in the riparian zone)
RVVCANSMALL_SYN	stdev of canopy cover by trees < 30 cm dbh synthesizing the 2007 protocol using C_SMALLTREES, C_SMALLTREES_DD, HORIZ_DIST_DD (stdev(wtA, wtB... wtJ) synthesizing the 2007 protocol)
RVVGNDBARE	stdev of ground lacking cover using GC_BARE (stdev(wtA, wtB... wtJ))
RVVGNDBARE_DD	stdev of ground lacking cover in the drawdown zone using GC_BARE_DD (stdev(wtA, wtB... wtJ) in the drawdown zone)
RVVGNDBARE_RIP	stdev of ground lacking cover in the riparian zone using GC_BARE (stdev(wtA, wtB... wtJ) in the riparian zone)
RVVGNDBARE_SYN	stdev of ground lacking cover synthesizing the 2007 protocol using GC_BARE, GC_BARE_DD, HORIZ_DIST_DD (stdev(wtA, wtB... wtJ) synthesizing the 2007 protocol)
RVVGNDINUNDATED	stdev of inundated ground cover using GC_INUNDATED (stdev(wtA, wtB... wtJ))
RVVGNDINUNDATED_DD	stdev of inundated ground cover in the drawdown zone using GC_INUNDATED_DD (stdev(wtA, wtB... wtJ) in the drawdown zone)
RVVGNDINUNDATED_RIP	stdev of inundated ground cover in the riparian zone using GC_INUNDATED (stdev(wtA, wtB... wtJ) in the riparian zone)
RVVGNDINUNDATED_SYN	stdev of inundated ground cover synthesizing the 2007 protocol using GC_INUNDATED, GC_INUNDATED_DD, HORIZ_DIST_DD (stdev(wtA, wtB... wtJ) synthesizing the 2007 protocol)
RVVGNDNONW	stdev of nonwoody ground cover using GC_NONWOODY (stdev(wtA, wtB... wtJ))
RVVGNDNONW_DD	stdev of nonwoody ground cover in the drawdown zone using GC_NONWOODY_DD (stdev(wtA, wtB... wtJ) in the drawdown zone)
RVVGNDNONW_RIP	stdev of nonwoody ground cover in the riparian zone using GC_NONWOODY (stdev(wtA, wtB... wtJ) in the riparian zone)
RVVGNDNONW_SYN	stdev of nonwoody ground cover synthesizing the 2007 protocol using GC_NONWOODY, GC_NONWOODY_DD, HORIZ_DIST_DD (stdev(wtA, wtB... wtJ) synthesizing the 2007 protocol)
RVVGNDWOODY	stdev of woody ground cover using GC_WOODY (stdev(wtA, wtB... wtJ))
RVVGNDWOODY_DD	stdev of woody ground cover in the drawdown zone using GC_WOODY_DD (stdev(wtA, wtB... wtJ) in the drawdown zone)

RVVGNDWOODY_RIP	stdev of woody ground cover in the riparian zone using GC_WOODY (stdev(wtA, wtB... wtJ) in the riparian zone)
RVVGNDWOODY_SYN	stdev of woody ground cover synthesizing the 2007 protocol using GC_WOODY, GC_WOODY_DD, HORIZ_DIST_DD (stdev(wtA, wtB... wtJ) synthesizing the 2007 protocol)
RVVUNDNONW	stdev of understory cover by nonwoody vegetation using U_NONWOODY (stdev(wtA, wtB... wtJ))
RVVUNDNONW_DD	stdev of understory cover by nonwoody vegetation in the drawdown zone using U_NONWOODY_DD (stdev(wtA, wtB... wtJ) in the drawdown zone)
RVVUNDNONW_RIP	stdev of understory cover by nonwoody vegetation in the riparian zone using U_NONWOODY (stdev(wtA, wtB... wtJ) in the riparian zone)
RVVUNDNONW_SYN	stdev of understory cover by nonwoody vegetation synthesizing the 2007 protocol using U_NONWOODY, U_NONWOODY_DD, HORIZ_DIST_DD (stdev(wtA, wtB... wtJ) synthesizing the 2007 protocol)
RVVUNDWOODY	stdev of understory cover by nonwoody vegetation using U_WOODY (stdev(wtA, wtB... wtJ))
RVVUNDWOODY_DD	stdev of understory cover by nonwoody vegetation in the drawdown zone using U_WOODY_DD (stdev(wtA, wtB... wtJ) in the drawdown zone)
RVVUNDWOODY_RIP	stdev of understory cover by nonwoody vegetation in the riparian zone using U_WOODY (stdev(wtA, wtB... wtJ) in the riparian zone)
RVVUNDWOODY_SYN	stdev of understory cover by nonwoody vegetation synthesizing the 2007 protocol using U_WOODY, U_WOODY_DD, HORIZ_DIST_DD (stdev(wtA, wtB... wtJ) synthesizing the 2007 protocol)
SIFPISLAND	fractional presence of stations at an island using ISLAND (mean(islandAtA, islandAtB, ... islandAtJ))
SINDEPTH	count of station depth using DEPTH_AT_STATION (count(depthA, depthB, ... depthJ))
SIVDEPTH	std dev station depth using DEPTH_AT_STATION (stdev(depthA, depthB, ... depthJ))
SIXDEPTH	mean station depth using DEPTH_AT_STATION (mean(depthA, depthB, ... depthJ))
SS16LDIA	16th percentile of bottom substrate diameter using SS_BEDROCK, SS_BOULDER, SS_COBBLE, SS_GRAVEL, SS_SAND, SS_SILT, SS_ORGANIC, SS_OTHER, SS_WOOD (percentile(16, wtA, wtB, ... wtJ))
SS25LDIA	25th percentile of bottom substrate diameter using SS_BEDROCK, SS_BOULDER, SS_COBBLE, SS_GRAVEL, SS_SAND, SS_SILT, SS_ORGANIC, SS_OTHER, SS_WOOD (percentile(25, wtA, wtB, ... wtJ))
SS50LDIA	50th percentile of bottom substrate diameter using SS_BEDROCK, SS_BOULDER, SS_COBBLE, SS_GRAVEL, SS_SAND, SS_SILT, SS_ORGANIC, SS_OTHER, SS_WOOD (percentile(50, wtA, wtB, ... wtJ))
SS75LDIA	75th percentile of bottom substrate diameter using SS_BEDROCK, SS_BOULDER, SS_COBBLE, SS_GRAVEL, SS_SAND, SS_SILT, SS_ORGANIC, SS_OTHER, SS_WOOD (percentile(75, wtA, wtB, ... wtJ))
SS84LDIA	84th percentile of bottom substrate diameter using SS_BEDROCK, SS_BOULDER, SS_COBBLE, SS_GRAVEL, SS_SAND, SS_SILT, SS_ORGANIC, SS_OTHER, SS_WOOD (percentile(84 wtA, wtB, ... wtJ))
SSFCBEDROCK	fractional cover of bedrock using SS_BEDROCK (mean(wtA, wtB, ... wtJ))
SSFCBOULDERS	fractional cover of Boulder using SS_BOULDER (mean(wtA, wtB, ... wtJ))
SSFCCOBBLE	fractional cover of Cobble using SS_COBBLE (mean(wtA, wtB, ... wtJ))
SSFCGRAVEL	fractional cover of gravel using SS_GRAVEL (mean(wtA, wtB, ... wtJ))
SSFCORGANIC	fractional cover of organic using SS_ORGANIC (mean(wtA, wtB, ... wtJ))
SSFCOTHER	fractional cover of other substrate using SS_OTHER (mean(wtA, wtB, ... wtJ))
SSFCSAND	fractional cover of sand using SS_SAND (mean(wtA, wtB, ... wtJ))
SSFCSILT	fractional cover of silt using SS_SILT (mean(wtA, wtB, ... wtJ))
SSFCWOOD	fractional cover of wood using SS_WOOD (mean(wtA, wtB, ... wtJ))
SSFPBEDROCK	fractional presence of bedrock using SS_BEDROCK (mean(atA, atB, ... atJ))
SSFPBOULDERS	fractional presence of Boulder using SS_BOULDER (mean(atA, atB, ... atJ))
SSFPCOBBLE	fractional presence of Cobble using SS_COBBLE (mean(atA, atB, ... atJ))
SSFPGRAVEL	fractional presence of gravel using SS_GRAVEL (mean(atA, atB, ... atJ))

SSFPORGANIC	fractional presence of organic using SS_ORGANIC (mean(atA, atB, ... atJ))
SSFPOTHER	fractional presence of other substrate using SS_OTHER (mean(atA, atB, ... atJ))
SSFPSAND	fractional presence of sand using SS_SAND (mean(atA, atB, ... atJ))
SSFPSILT	fractional presence of silt using SS_SILT (mean(atA, atB, ... atJ))
SSFPWOOD	fractional presence of wood using SS_WOOD (mean(atA, atB, ... atJ))
SSISITEVARIETY	Number of substrate classes present at a site using SS_BEDROCK, SS_BOULDER, SS_COBBLE, SS_GRAVEL, SS_SAND, SS_SILT, SS_ORGANIC, SS_OTHER, SS_WOOD (count of substrate classes noted anywhere in site.)
SSISTAVARIETY	Mean number of substrate classes present in each station using SS_BEDROCK, SS_BOULDER, SS_COBBLE, SS_GRAVEL, SS_SAND, SS_SILT, SS_ORGANIC, SS_OTHER, SS_WOOD (mean(count of substrate classes at each station))
SSNBEDROCK	number of stations with bedrock data using SS_BEDROCK (count(atA, atB... atJ))
SSNBOULDERS	number of stations with boulder data using SS_BOULDERS (count(atA, atB... atJ))
SSNCOBBLE	number of stations with cobble data using SS_COBBLE (count(atA, atB... atJ))
SSNGRAVEL	number of stations with gravel data using SS_GRAVEL (count(atA, atB... atJ))
SSNORGANIC	number of stations with organic data using SS_ORGANIC (count(atA, atB... atJ))
SSNOTHER	number of stations with other substrate data using SS_OTHER (count(atA, atB... atJ))
SSNSAND	number of stations with sand data using SS_SAND (count(atA, atB... atJ))
SSNSILT	number of stations with silt data using SS_SILT (count(atA, atB... atJ))
SSNWOOD	number of stations with wood data using SS_WOOD (count(atA, atB... atJ))
SSOFCLASS	Mode of bottom substrate by cover using ssfcBedrock, ssfcBoulders, ssfcCobble, ssfcGravel, ssfcSand, ssfcSilt (space-delimited list of 1+ classes with sum(bsfcClass) = max(sum(bsfcClass)))
SSOPCLASS	Mode of bottom substrate by presence using ssfpBedrock, ssfpBoulders, ssfpCobble, ssfpGravel, ssfpSand, ssfpSilt (space-delimited list of 1+ classes with presence = max(bsfp*))
SSVBEDROCK	std dev. Cover of bedrock using SS_BEDROCK (stdev(wtA, wtB, wtC... wtJ))
SSVBOULDERS	std dev. Cover of boulder using SS_BOULDERS (stdev(wtA, wtB, wtC... wtJ))
SSVCOBBLE	std dev. Cover of cobble using SS_COBBLE (stdev(wtA, wtB, wtC... wtJ))
SSVGRAVEL	std dev. Cover of gravel using SS_GRAVEL (stdev(wtA, wtB, wtC... wtJ))
SSVLDIA	std dev. logged bottom substrate diameter (mineral) using SS_BEDROCK, SS_BOULDER, SS_COBBLE, SS_GRAVEL, SS_SAND, SS_SILT, SS_ORGANIC, SS_OTHER, SS_WOOD (stdev(Dm*Csm), where Dm=log10(characteristic diam), Csm=fractional cover of class at a station)
SSVORGANIC	std dev. Cover of organic using SS_ORGANIC (stdev(wtA, wtB, wtC... wtJ))
SSVOTHER	std dev. Cover of Other substrate using SS_OTHER (stdev(wtA, wtB, wtC... wtJ))
SSVSAND	std dev. Cover of sand using SS_SAND (stdev(wtA, wtB, wtC... wtJ))
SSVSILT	std dev. Cover of silt using SS_SILT (stdev(wtA, wtB, wtC... wtJ))
SSVWOOD	std dev. Cover of wood using SS_WOOD (stdev(wtA, wtB, wtC... wtJ))
SSXLDIA	mean logged bottom substrate diameter (mineral) using SS_BEDROCK, SS_BOULDER, SS_COBBLE, SS_GRAVEL, SS_SAND, SS_SILT, SS_ORGANIC, SS_OTHER, SS_WOOD (mean(Dm*Csm), where Dm=log10(characteristic diam), Csm=fractional cover of class at a station)
VERTDD	Vertical drawdown distance