SAMPLE_TYPE	METRIC	LABEL
PHab boatable: residual pools	AREASUM	Resid. Pool Vert Profile Area (m2/reach)
PHab wadeable: residual pools	AREASUM	Resid. Pool Vert Profile Area (m2/reach)
PHab boatable: bank morphology	BANGMODE	Mode of bank slope category (Zar 1984)
PHab boatable: bank morphology	BAP_LOW	Bank slopes 0-5 degrees (% reach)
PHab boatable: bank morphology	BAP_MED	Bank slopes 5-30 degrees (% reach)
PHab boatable: bank morphology	BAP_STP	Bank slopes 30-75 degrees (% reach)
PHab boatable: bank morphology	BAP_VST	Bank slopes >75 degrees (% reach)
PHAB	BEDSED_COND_MOD	Model used for Expected LRBS
PHab boatable: channel morphology	BFWD_RAT	Bankfull Width/Depth Ratio
PHab wadeable: channel morphology	BFWD_RAT	Bankfull Width/Depth Ratio
PHab wadeable: bank morphology	BKA_Q1	Bank Angle-Lower Quartile (degrees)
PHab wadeable: bank morphology	BKA_Q3	Bank Angle-Upper Quartile (degrees)
PHab wadeable: bank morphology	BKUN_Q1	Undercut Distance-Lower Quartile (m)
PHab wadeable: bank morphology	BKUN_Q3	Undercut Distance-Upper Quartile (m)
PHab boatable: large woody debris	C1D	LWD in Bkf channel&dry (#/rch-all sizes)
PHab wadeable: large woody debris	C1D	LWD above Bkf channel (#/rch-all sizes)
PHab boatable: large woody debris	C1DM100	LWD in Bkf chnl & dry (#/100m-all sizes)
PHab wadeable: large woody debris	C1DM100	LWD above Bkf chnl (#/100m-all sizes)
PHab boatable: large woody debris	C1T	LWD in/over wetted chnl(#/rch-all sizes)
PHab wadeable: large woody debris	C1T	LWD in/over Bkf channel(#/rch-all sizes)
PHab boatable: large woody debris	C1TM100	LWD in/above wet chan(#/100m-all sizes)
PHab wadeable: large woody debris	C1TM100	LWD in/above Bkfl chan(#/100m-all sizes)
PHab boatable: large woody debris	C1W	LWD in wetted channel(#/rch-all sizes)
PHab wadeable: large woody debris	C1W	LWD in Bankfull channel(#/rch-all sizes)
PHab boatable: large woody debris	C1W_MSQ	LWD in wetted chnl (#/m2-all sizes)
PHab wadeable: large woody debris	C1W_MSQ	LWD in Bkf chnl (#/m2-all sizes)
PHab boatable: large woody debris	C1WM100	Woody Debris pieces/100m
PHab wadeable: large woody debris	C1WM100	Woody Debris pieces/100m
PHab boatable: large woody debris	C2D	LWD in Bkf channel & dry (#/rch-SMLX)
PHab wadeable: large woody debris	C2D	LWD above Bkf channel (#/rch-SMLX)
PHab boatable: large woody debris	C2DM100	LWD in Bkf chnl & dry (#/100m-SMLX)
PHab wadeable: large woody debris	C2DM100	LWD above Bkf chnl (#/100m-SMLX)
PHab boatable: large woody debris	C2T	LWD in/over wetted chnl (#/rch-SMLX)
PHab wadeable: large woody debris	C2T	LWD in/over Bkf channel (#/rch-SMLX)
PHab boatable: large woody debris	C2TM100	LWD in/above wetted chan(#/100m-SMLX)
PHab wadeable: large woody debris	C2TM100	LWD in/above Bkfl chan (#/100m-SMLX)
PHab boatable: large woody debris	C2W	LWD in wetted channel (#/rch-SMLX)
PHab wadeable: large woody debris	C2W	LWD in Bankfull channel (#/rch-SMLX)
PHab boatable: large woody debris	C2W_MSQ	LWD in wetted chnl (#/m2-SMLX)
PHab wadeable: large woody debris	C2W_MSQ	LWD in Bkf chnl (#/m2-SMLX)
PHab boatable: large woody debris	C2WM100	LWD in wetted chnl (#/100m-SMLX)
PHab wadeable: large woody debris	C2WM100	LWD in Bkf chnl (#/100m-SMLX)
PHab boatable: large woody debris	C3D	LWD in Bkf channel & dry (#/rch-MLX)
PHab wadeable: large woody debris	C3D	LWD above Bkf channel (#/rch-MLX)
PHab boatable: large woody debris	C3DM100	LWD in Bkf chnl & dry (#/100m-MLX)
PHab wadeable: large woody debris	C3DM100	LWD above Bkf chnl (#/100m-MLX)
PHab boatable: large woody debris	C3T	LWD in/over wetted channel (#/rch-MLX)
PHab wadeable: large woody debris	C3T	LWD in/over Bkf channel (#/rch-MLX)
PHab boatable: large woody debris	C3TM100	LWD in/above wetted chan (#/100m-MLX)
PHab wadeable: large woody debris	C3TM100	LWD in/above Bkfl chan (#/100m-MLX)
PHab boatable: large woody debris	C3W	LWD in wetted channel (#/rch-MLX)
PHab wadeable: large woody debris	C3W	LWD in Bankfull channel (#/rch-MLX)
PHab boatable: large woody debris	C3W_MSQ	LWD in wetted chnl (#/m2-MLX)
PHab wadeable: large woody debris	C3W_MSQ	LWD in Bkf chnl (#/m2-MLX)
PHab boatable: large woody debris	C3WM100	LWD in wetted chnl (#/100m-MLX)

PHab wadeable: large woody debris	C3WM100	LWD in Bkf chnl (#/100m-MLX)
PHab boatable: large woody debris	C4D	LWD in Bkf channel & dry (#/rch-LX)
PHab wadeable: large woody debris	C4D	LWD above Bkf channel (#/rch-LX)
PHab boatable: large woody debris	C4DM100	LWD in Bkf chnl & dry (#/100m-LX)
PHab wadeable: large woody debris	C4DM100	LWD above Bkf chnl (#/100m-LX)
PHab boatable: large woody debris	C4T	LWD in/over wetted channel (#/rch-LX)
PHab wadeable: large woody debris	C4T	LWD in/over Bkf channel (#/rch-LX)
PHab boatable: large woody debris	C4TM100	LWD in/above wetted chan (#/100m-LX)
PHab wadeable: large woody debris	C4TM100	LWD in/above Bkfl chan (#/100m-LX)
PHab boatable: large woody debris	C4W	LWD in wetted channel (#/rch-LX)
PHab wadeable: large woody debris	C4W	LWD in Bankfull channel (#/rch-LX)
PHab boatable: large woody debris	C4W_MSQ	LWD in wetted chnl (#/m2-LX)
PHab wadeable: large woody debris	C4W_MSQ	LWD in Bkf chnl (#/m2-LX)
PHab boatable: large woody debris	C4WM100	LWD in wetted chnl (#/100m-LX)
PHab wadeable: large woody debris	C4WM100	LWD in Bkf chnl (#/100m-LX)
PHab boatable: large woody debris	C5D	LWD in Bkf channel & dry (#/rch-X)
PHab wadeable: large woody debris	C5D	LWD above Bkf channel (#/rch-X)
PHab boatable: large woody debris	C5DM100	LWD in Bkf chnl & dry (#/100m-X)
PHab wadeable: large woody debris	C5DM100	LWD above Bkf chnl (#/100m-X)
PHab boatable: large woody debris	C5T	LWD in/over wetted channel (#/rch-X)
PHab wadeable: large woody debris	C5T	LWD in/over Bkf channel (#/rch-X)
PHab boatable: large woody debris	C5TM100	LWD in/above wetted chan (#/100m-X)
PHab wadeable: large woody debris	C5TM100	LWD in/above Bkfl chan (#/100m-X)
PHab boatable: large woody debris	C5W	LWD in wetted channel (#/rch-X)
PHab wadeable: large woody debris	C5W	LWD in Bankfull channel (#/rch-X)
PHab boatable: large woody debris	C5W_MSQ	LWD in wetted chnl (#/m2-X)
PHab wadeable: large woody debris	C5W_MSQ	LWD in Bkf chnl (#/m2-X)
PHab boatable: large woody debris	C5WM100	LWD in wetted chnl (#/100m-X)
PHab wadeable: large woody debris	C5WM100	LWD in Bkf chnl (#/100m-X)
PHab boatable: channel characteristics	CONBANKFULL	Site bankfull width
PHab wadeable: channel characteristics	CONBANKFULL	Site bankfull width
PHab boatable: channel characteristics	CONFEATURES	Constraining features
PHab wadeable: channel characteristics	CONFEATURES	Constraining features
PHab boatable: channel characteristics	CONPATTERN	Channel pattern
PHab wadeable: channel characteristics	CONPATTERN	Channel pattern
PHab boatable: channel characteristics	CONPERCENT	Percent of channel length in contact with constraining features
PHab wadeable: channel characteristics	CONPERCENT	Percent of channel length in contact with constraining features
PHab boatable: channel characteristics	CONSTRAINT	Channel constraint type
PHab wadeable: channel characteristics	CONSTRAINT	Channel constraint type
PHab boatable: channel characteristics	CONVALLEY	Valley width, estimated
PHab wadeable: channel characteristics	CONVALLEY	Valley width, estimated
PHab boatable: channel characteristics	CONVALLEYBOX	Valley boarders not seen
PHab wadeable: channel characteristics	CONVALLEYBOX	Valley boarders not seen
PHab boatable: bed stability	CP3_MILL	Hydraulic resistance due to bed particles at bank full
PHab wadeable: bed stability	CP3_MILL	Hydraulic resistance due to bed particles at bank full
PHab boatable: bed stability	CP3CTRPWD_RAT	Ratio of particle to total hydraulic resistances at bank full, not allowed to exceed 1
PHab wadeable: bed stability	CP3CTRPWD_RAT	Ratio of particle to total hydraulic resistances at bank full, not allowed to exceed 1
PHab boatable: bed stability	CT_RPWD	Hydraulic resistance, total at bank full
PHab wadeable: bed stability	CT_RPWD	Hydraulic resistance, total at bank full
PHab boatable: substrate characterization	D16	16th pctl. mobile substrate diam (interpmm)
PHab wadeable: substrate characterization	D16	16th pctl. mobile substrate diam (interpmm)
PHab boatable: substrate characterization	D50	Median mobile substrate diam (interpmm)

PHab wadeable: substrate characterization	D50	Median mobile substrate diam (interpmm)
PHab boatable: substrate characterization	D84	84th pctl. mobile substrate diam (interpmm)
PHab wadeable: substrate characterization	D84	84th pctl. mobile substrate diam (interpmm)
PHab boatable: substrate characterization	DCBF_G08	Erod. sub. dia. Geom (2008)
PHab wadeable: substrate characterization	DCBF_G08	Erod. sub. dia. Geom (2008)
PHab boatable: substrate characterization	DGM	Mean mobile substrate diameter (mm)
PHab wadeable: substrate characterization	DGM	Mean mobile substrate diameter (mm)
PHab boatable: fish cover	IDROHV	interdecadal range overhanging veg len.
PHab wadeable: fish cover	IDROHV	interdecadal range overhanging veg len.
PHab boatable: fish cover	IDRUCB	interdecadal range undercut bank length
PHab wadeable: fish cover	IDRUCB	interdecadal range undercut bank length
PHAB	INSTRMCVR_COND_MOD	Model used for Expected Instream habitat cover and complexity
PHab wadeable: bank morphology	INTQBKA	Bank Angle-interquartile range (degrees)
PHab wadeable: bank morphology	INTQBKUN	Undercut Distance- interquart range (m)
PHab boatable: fish cover	IQROHV	interquartile range overhanging veg len.
PHab wadeable: fish cover	IQROHV	interquartile range overhanging veg len.
PHab boatable: fish cover	IQRUCB	interquartile range undercut bank length
PHab wadeable: fish cover	IQRUCB	interquartile range undercut bank length
PHAB	L_XCMGW	Log10(XCMGW + 0.01
PHAB	L_XFC_NAT	Log10(XFC_NAT + 0.01)
PHab boatable: substrate characterization	LDCBF_G08	Log10(Streambed Critical Diameter-at Bankfull -- mm)(PRK 2008)
PHab wadeable: substrate characterization	LDCBF_G08	Log10(Streambed Critical Diameter-at Bankfull -- mm)(PRK 2008)
PHab boatable: bed stability	LDMB_BW4	Log10[Erodible Substr Dia.(mm)]-old #2
PHab wadeable: bed stability	LDMB_BW4	Log10[Erod. Substr Dia.(mm)]-old #2
PHab boatable: bed stability	LDMB_BW5	Log10(Streambed Critical Diameter-at Bankfull - mm) (PRK 1999)
PHab wadeable: bed stability	LDMB_BW5	Log10(Streambed Critical Diameter-at Bankfull - mm) (PRK 1999)
PHab boatable: large woody debris	LGDIATOT	Count/reach all small dia lwd
PHab wadeable: large woody debris	LGDIATOT	Count/reach all small dia lwd
PHab boatable: large woody debris	LGDRYDIA	Count/reach all dry large dia lwd
PHab wadeable: large woody debris	LGDRYDIA	Count/reach all dry large dia lwd
PHab boatable: large woody debris	LGDRYLEN	Count/reach all dry long len lwd
PHab wadeable: large woody debris	LGDRYLEN	Count/reach all dry long len lwd
PHab boatable: large woody debris	LGLENTOT	Count/reach all long len lwd
PHab wadeable: large woody debris	LGLENTOT	Count/reach all long len lwd
PHab boatable: large woody debris	LGWETDIA	Count/reach all wet large dia lwd
PHab wadeable: large woody debris	LGWETDIA	Count/reach all wet large dia lwd
PHab boatable: large woody debris	LGWETLEN	Count/reach all wet long len lwd
PHab wadeable: large woody debris	LGWETLEN	Count/reach all wet long len lwd
PHab boatable: bed stability	LRBS_BW4	Log10[Relative Bed Stability] - old #2
PHab wadeable: bed stability	LRBS_BW4	Log10[Relative Bed Stability] - old #2
PHab boatable: bed stability	LRBS_BW5	Log10(Relative Bed Stability (Dgm/Dcb) (PRK 1999)
PHab wadeable: bed stability	LRBS_BW5	Log10(Relative Bed Stability (Dgm/Dcb) (PRK 1999)
PHab boatable: bed stability	LRBS_BW6	Log10[Erod. sub. dia.]- Est. 2 split BL
PHab wadeable: bed stability	LRBS_BW6	Log10[Erod. sub. dia.]- Est. 2 split BL
PHab boatable: bed stability	LRBS_G08	Log10(Relative Bed Stability (Dgm/Dcb) (PRK 2008)
PHab wadeable: bed stability	LRBS_G08	Log10(Relative Bed Stability (Dgm/Dcb) (PRK 2008)
PHAB	LRBS_G08_SUBST	Substitute LRBS variable if LRBS_g08 missing
PHab boatable: bed stability	LRBS_TST	Log10[Relative Bed Stability] - Fast est
PHab wadeable: bed stability	LRBS_TST	Log10[Relative Bed Stability] - Fast est
PHAB	LRBS_USE	Log relative bed stability to use in assessing BEDSED_COND, filled in from other variables as needed

PHab boatable: substrate characterization	LSUB_D16	Thalweg sub.-D16 LOG10(Diam Class mm)
PHab wadeable: substrate characterization	LSUB_D16	Substrate-D16 LOG10(Diam Class mm)
PHab boatable: substrate characterization	LSUB_D25	Thalweg sub.-D25 LOG10(Diam Class mm)
PHab wadeable: substrate characterization	LSUB_D25	Substrate-D25 LOG10(Diam Class mm)
PHab boatable: substrate characterization	LSUB_D50	Thalweg sub.-Median LOG10(Diam Class mm)
PHab wadeable: substrate characterization	LSUB_D50	Substrate-Median LOG10(Diam Class mm)
PHab boatable: substrate characterization	LSUB_D75	Thalweg sub.-D75 LOG10(Diam Class mm)
PHab wadeable: substrate characterization	LSUB_D75	Substrate-D75 LOG10(Diam Class mm)
PHab boatable: substrate characterization	LSUB_D84	Thalweg sub.-D84 LOG10(Diam Class mm)
PHab wadeable: substrate characterization	LSUB_D84	Substrate-D84 LOG10(Diam Class mm)
PHab boatable: substrate characterization	LSUB_DMM	Log10(Dgm--Geometric Mean Bed Surface Particle Diameter--mm))
PHab wadeable: substrate characterization	LSUB_DMM	Log10(Dgm--Geometric Mean Bed Surface Particle Diameter--mm))
PHab boatable: substrate characterization	LSUB_DMM_NOR	Log10(Dgm--Geom.Mean Bed Surf.Part Diam,exclud Bdrk+hardpan--mm)
PHab wadeable: substrate characterization	LSUB_DMM_NOR	Log10(Dgm--Geom.Mean Bed Surf.Part Diam,exclud Bdrk+hardpan--mm)
PHab boatable: substrate characterization	LSUB_IQR	Thal sub.-IntQt Rng LOG10(Diam class mm)
PHab wadeable: substrate characterization	LSUB_IQR	Substrate-IntQt Rng LOG10(Diam class mm)
PHab boatable: substrate characterization	LSUB2D16	the 16.0000 percentile log2dmm
PHab wadeable: substrate characterization	LSUB2D16	the 16.0000 percentile log2dmm
PHab boatable: substrate characterization	LSUB2D16INOR	Mobile logd D16 interpolated 2 BL classes
PHab wadeable: substrate characterization	LSUB2D16INOR	Mobile logd D16 interpolated 2 BL classes
PHab boatable: substrate characterization	LSUB2D25	the lower quartile log2dmm
PHab wadeable: substrate characterization	LSUB2D25	the lower quartile log2dmm
PHab boatable: substrate characterization	LSUB2D50	the median log2dmm
PHab wadeable: substrate characterization	LSUB2D50	the median log2dmm
PHab boatable: substrate characterization	LSUB2D50INOR	Mobile logd D50 interpolated 2 BL classes
PHab wadeable: substrate characterization	LSUB2D50INOR	Mobile logd D50 interpolated 2 BL classes
PHab boatable: substrate characterization	LSUB2D75	the upper quartile log2dmm
PHab wadeable: substrate characterization	LSUB2D75	the upper quartile log2dmm
PHab boatable: substrate characterization	LSUB2D84	the 84.0000 percentile log2dmm
PHab wadeable: substrate characterization	LSUB2D84	the 84.0000 percentile log2dmm
PHab boatable: substrate characterization	LSUB2D84INOR	Mobile logd D84 interpolated 2 BL classes
PHab wadeable: substrate characterization	LSUB2D84INOR	Mobile logd D84 interpolated 2 BL classes
PHab boatable: substrate characterization	LSUB2DMM	the mean log2dmm
PHab wadeable: substrate characterization	LSUB2DMM	the mean log2dmm
PHab boatable: substrate characterization	LSUB2DMM_NOR	Mobile mean logged diam 2 BL classes
PHab wadeable: substrate characterization	LSUB2DMM_NOR	Mobile mean logged diam 2 BL classes
PHab boatable: substrate characterization	LSUB2IQR	the interquartile range log2dmm
PHab wadeable: substrate characterization	LSUB2IQR	the interquartile range log2dmm
PHab boatable: substrate characterization	LSUBD_SD	Thalweg sub.-StDev LOG10(Diam Class mm)
PHab wadeable: substrate characterization	LSUBD_SD	Substrate-StDev LOG10(Diam Class mm)
PHab boatable: substrate characterization	LSUBD_SD_NOR	Mobile stdev logged diam
PHab wadeable: substrate characterization	LSUBD_SD_NOR	Mobile stdev logged diam
PHab boatable: substrate characterization	LSUBD2SD	the standard deviation log2dmm
PHab wadeable: substrate characterization	LSUBD2SD	the standard deviation log2dmm
PHab boatable: substrate characterization	LSUBD2SD_NOR	Mobile stdev logged diam 2 BL classes
PHab wadeable: substrate characterization	LSUBD2SD_NOR	Mobile stdev logged diam 2 BL classes
PHab boatable: bed stability	LTEST	Log10[Erodible Substr Dia.(mm)]-Fast est
PHab wadeable: bed stability	LTEST	Log10[Erod. Substr Dia.(mm)]-Fast est
PHab boatable: large woody debris	LWDDV33	Volume/reach (Robison 1998) of dry lwd
PHab wadeable: large woody debris	LWDDV33	Volume/reach (Robison 1998) of dry lwd
PHab boatable: large woody debris	LWDDVCAL	Volume/reach (other) of dry lwd
PHab wadeable: large woody debris	LWDDVCAL	Volume/reach (other) of dry lwd

PHab boatable: large woody debris	LWDTV33	Volume/reach (Robison 1998) of all lwd
PHab wadeable: large woody debris	LWDTV33	Volume/reach (Robison 1998) of all lwd
PHab boatable: large woody debris	LWDTVCAL	Volume/reach (other) of all lwd
PHab wadeable: large woody debris	LWDTVCAL	Volume/reach (other) of all lwd
PHab boatable: large woody debris	LWDWV33	Volume/reach (Robison 1998) of wet lwd
PHab wadeable: large woody debris	LWDWV33	Volume/reach (Robison 1998) of wet lwd
PHab boatable: large woody debris	LWDWVCAL	Volume/reach (other) of wet lwd
PHab wadeable: large woody debris	LWDWVCAL	Volume/reach (other) of wet lwd
PHab boatable: large woody debris	MDDIATOT	Count/reach all small dia lwd
PHab wadeable: large woody debris	MDDIATOT	Count/reach all small dia lwd
PHab boatable: large woody debris	MDDRYDIA	Count/reach all dry medium dia lwd
PHab wadeable: large woody debris	MDDRYDIA	Count/reach all dry medium dia lwd
PHab boatable: large woody debris	MDDRYLEN	Count/reach all dry medium len lwd
PHab wadeable: large woody debris	MDDRYLEN	Count/reach all dry medium len lwd
PHab boatable: large woody debris	MDLENTOT	Count/reach all medium len lwd
PHab wadeable: large woody debris	MDLENTOT	Count/reach all medium len lwd
PHab boatable: large woody debris	MDWETDIA	Count/reach all wet medium dia lwd
PHab wadeable: large woody debris	MDWETDIA	Count/reach all wet medium dia lwd
PHab boatable: large woody debris	MDWETLEN	Count/reach all wet medium len lwd
PHab wadeable: large woody debris	MDWETLEN	Count/reach all wet medium len lwd
PHab wadeable: bank morphology	MEDBK_A	Bank Angle--Median (degrees)
PHab wadeable: bank morphology	MEDBKUN	Undercut Distance--Median (m)
PHab boatable: littoral depth	MNLIT	Minimum littoral depth (m)
PHab boatable: channel characteristics	MNSHOR	Minimum distance shore to vegetation (m)
PHab boatable: littoral depth	MXLIT	Maximum littoral depth (m)
PHab boatable: channel characteristics	MXSHOR	Maximum distance shore to vegetation (m)
PHab boatable: substrate characterization	N	Number of obs. of substrate SIZE_CLS
PHab wadeable: substrate characterization	N	Number of obs. of substrate SIZE_CLS
PHab boatable: bank morphology	N_BA	Number of observations--Bank Angle
PHab wadeable: bank morphology	N_BA	Number of observations--Bank Angle
PHab boatable: channel morphology	N_BFRAT	number of nonmissing values bf_rat
PHab wadeable: channel morphology	N_BFRAT	number of nonmissing values bfwd_rat
PHab boatable: channel morphology	N_BH	no observations-Bankfull Height
PHab wadeable: channel morphology	N_BH	no observations-Bankfull Height
PHab boatable: channel morphology	N_BW	no observations--Bankfull Width
PHab wadeable: channel morphology	N_BW	no observations--Bankfull Width
PHab boatable: channel morphology	N_D	Number of obs -- Thalweg Depth
PHab wadeable: channel morphology	N_D	Number of obs -- Thalweg Depth
PHab boatable: channel morphology	N_INCIS	no of observations-Chan Incision Ht.(m)
PHab wadeable: channel morphology	N_INCIS	no of observations-Chan Incision Ht.(m)
PHab boatable: substrate characterization	N_NOR	Number of mobile substrate
PHab wadeable: substrate characterization	N_NOR	Number of mobile substrate
PHab wadeable: bank morphology	N_UN	Number of observations--Undercut dist.
PHab boatable: channel morphology	N_W	Number of obs -- Wetted Width
PHab wadeable: bank morphology	N_W	Number of obs -- Wetted Width
PHab boatable: channel morphology	N_WD	Number of obs -- W*D Product
PHab wadeable: channel morphology	N_WD	Number of obs -- W*D Product
PHab boatable: channel morphology	N_WDR	Number of obs -- W/D Ratio
PHab wadeable: channel morphology	N_WDR	Number of obs -- W/D Ratio
PHab boatable: substrate embeddedness	N33	number of observations in XEMBED
PHab wadeable: substrate embeddedness	N33	number of observations in XEMBED
PHab boatable: substrate embeddedness	N55	number of observations in XCEMBED
PHab wadeable: substrate embeddedness	N55	number of observations in XCEMBED
PHab boatable: canopy densiometer	NBNK	Number of Bank Obs-Densiometer
PHab wadeable: canopy densiometer	NBNK	Number of Bank Obs-Densiometer
PHab boatable: large woody debris	NC	number of nonmissing wet obs

PHab wadeable: large woody debris	NC	number of nonmissing wet obs
PHab boatable: canopy densiometer	NMID	Number of Mid-channel Obs-Densiometer
PHab wadeable: canopy densiometer	NMID	Number of Mid-channel Obs-Densiometer
PHab boatable: large woody debris	NS	number of nonmissing dry obs
PHab wadeable: large woody debris	NS	number of nonmissing dry obs
PHab boatable: slope & bearing	NSLP	# of values used to calc mean slope
PHab wadeable: slope & bearing	NSLP	# of values used to calc mean slope
PHab boatable: riparian vegetation	PCAN_C	Riparian Canopy Coniferous (Fract reach)
PHab wadeable: riparian vegetation	PCAN_C	Riparian Canopy Coniferous (Fract reach)
PHab boatable: riparian vegetation	PCAN_D	Riparian Canopy Deciduous (Fract. reach)
PHab wadeable: riparian vegetation	PCAN_D	Riparian Canopy Deciduous (Fract. reach)
PHab boatable: riparian vegetation	PCAN_E	Rip Canopy Broadlf evrgrn (Fract of rch)
PHab wadeable: riparian vegetation	PCAN_E	Rip Canopy Broadlf evrgrn (Fract of rch)
PHab boatable: riparian vegetation	PCAN_M	Rip Canopy Mix Conif-Decid (Fract reach)
PHab wadeable: riparian vegetation	PCAN_M	Rip Canopy Mix Conif-Decid (Fract reach)
PHab boatable: riparian vegetation	PCAN_N	Rip Canopy Absent (Fraction of reach)
PHab wadeable: riparian vegetation	PCAN_N	Rip Canopy Absent (Fraction of reach)
PHab boatable: substrate characterization	PCT_BDRK	Bed Surface % Bedrock
PHab wadeable: substrate characterization	PCT_BDRK	Bed Surface % Bedrock
PHab boatable: substrate characterization	PCT_BH	Bed Surface % Bedrock + Hardpan
PHab boatable: substrate characterization	PCT_BIGR	Bed Surface % Larger than Gravel (64mm)
PHab wadeable: substrate characterization	PCT_BIGR	Bed Surface % Larger than Gravel (64mm)
PHab boatable: substrate characterization	PCT_BL	Thalweg sub. Boulders -- 250-4000 mm (%)
PHab wadeable: substrate characterization	PCT_BL	Substrate Boulders -- 250-4000 mm (%)
PHab boatable: channel habitat	PCT_CA	Cascade (% of reach)
PHab wadeable: channel habitat	PCT_CA	Cascade (% of reach)
PHab boatable: substrate characterization	PCT_CB	Thalweg sub. Cobbles -- 64-250 mm (%)
PHab wadeable: substrate characterization	PCT_CB	Substrate Cobbles -- 64-250 mm (%)
PHab boatable: substrate characterization	PCT_DBBL	Pct. littoral substrate with BL dominant
PHab boatable: substrate characterization	PCT_DBCB	Pct. littoral substrate with CB dominant
PHab boatable: substrate characterization	PCT_DBFN	Pct. littoral substrate with FN dominant
PHab boatable: substrate characterization	PCT_DBGC	Pct. littoral substrate with GC dominant
PHab boatable: substrate characterization	PCT_DBGF	Pct. littoral substrate with GF dominant
PHab boatable: substrate characterization	PCT_DBHP	Pct. littoral substrate with HP dominant
PHab boatable: substrate characterization	PCT_DBOM	Pct. littoral substrate with OM dominant
PHab boatable: substrate characterization	PCT_DBOT	Pct. littoral substrate with OT dominant
PHab boatable: substrate characterization	PCT_DBRC	Pct. littoral substrate with RC dominant
PHab boatable: substrate characterization	PCT_DBRR	Pct. littoral substrate with RR dominant
PHab boatable: substrate characterization	PCT_DBRS	Pct. littoral substrate with RS dominant
PHab boatable: substrate characterization	PCT_DBSA	Pct. littoral substrate with SA dominant
PHab boatable: substrate characterization	PCT_DBSB	Pct. littoral substrate with SB dominant
PHab boatable: substrate characterization	PCT_DBWD	Pct. littoral substrate with WD dominant
PHab boatable: substrate characterization	PCT_DBXB	Pct. littoral substrate with XB dominant
PHab boatable: channel habitat	PCT_DR	Percent of Reach that is Dry
PHab wadeable: channel habitat	PCT_DR	Percent of Reach that is Dry
PHab boatable: substrate characterization	PCT_DSBL	Pct. shore substrate with BL dominant
PHab boatable: substrate characterization	PCT_DSCB	Pct. shore substrate with CB dominant
PHab boatable: substrate characterization	PCT_DSFN	Pct. shore substrate with FN dominant
PHab boatable: substrate characterization	PCT_DSGC	Pct. shore substrate with GC dominant
PHab boatable: substrate characterization	PCT_DSGF	Pct. shore substrate with GF dominant
PHab boatable: substrate characterization	PCT_DSHP	Pct. shore substrate with HP dominant
PHab boatable: substrate characterization	PCT_DSOM	Pct. shore substrate with OM dominant
PHab boatable: substrate characterization	PCT_DSOT	Pct. shore substrate with OT dominant
PHab boatable: substrate characterization	PCT_DSRC	Pct. shore substrate with RC dominant
PHab boatable: substrate characterization	PCT_DSRR	Pct. shore substrate with RR dominant
PHab boatable: substrate characterization	PCT_DSRS	Pct. shore substrate with RS dominant

PHab boatable: substrate characterization	PCT_DSSA	Pct. shore substrate with SA dominant
PHab boatable: substrate characterization	PCT_DSSB	Pct. shore substrate with SB dominant
PHab boatable: substrate characterization	PCT_DSWD	Pct. shore substrate with WD dominant
PHab boatable: substrate characterization	PCT_DSXB	Pct. shore substrate with XB dominant
PHab boatable: channel habitat	PCT_FA	Falls (% of reach)
PHab wadeable: channel habitat	PCT_FA	Falls (% of reach)
PHab boatable: channel habitat	PCT_FAST	Percent Fast Water Habitat
PHab wadeable: channel habitat	PCT_FAST	Percent Fast Water Habitat
PHab boatable: substrate characterization	PCT_FN	Bed Surface % Fines <0.06mm
PHab wadeable: substrate characterization	PCT_FN	Bed Surface % Fines <0.06mm
PHab boatable: substrate characterization	PCT_GC	Substrate Coarse Gravel -- 16-64 mm (%)
PHab wadeable: substrate characterization	PCT_GC	Substrate Coarse Gravel -- 16-64 mm (%)
PHab boatable: substrate characterization	PCT_GF	Substrate Fine Gravel -- 2-16 mm (%)
PHab wadeable: substrate characterization	PCT_GF	Substrate Fine Gravel -- 2-16 mm (%)
PHab boatable: channel habitat	PCT_GL	Glide (% of reach)
PHab wadeable: channel habitat	PCT_GL	Glide (% of reach)
PHab boatable: substrate characterization	PCT_GR	Thalweg substrate Gravel -- 16-64 mm (%)
PHab boatable: substrate characterization	PCT_HP	Bed Surface % Hardpan
Phab wadeable: substrate characterization	PCT_HP	Bed Surface % Hardpan
PHab boatable: substrate characterization	PCT_OM	Substrate Organic detritus -- (%)
PHab wadeable: substrate characterization	PCT_OM	Substrate Organic detritus -- (%)
PHab boatable: substrate characterization	PCT_ORG	Substrate Wood or Detritus -- (%)
PHab wadeable: substrate characterization	PCT_ORG	Substrate Wood or Detritus -- (%)
PHab boatable: substrate characterization	PCT_OT	Thalweg substrate Miscellaneous -- (%)
PHab wadeable: substrate characterization	PCT_OT	Substrate Miscellaneous -- (%)
PHab boatable: channel characteristics	PCT_OVRB	Ability to see over bank (% reach)
PHab boatable: channel habitat	PCT_POOL	Pools -- All Types (% of reach)
PHab wadeable: channel habitat	PCT_POOL	Pools -- All Types (% of reach)
PHab boatable: channel habitat	PCT_RA	Rapids (% of reach)
PHab wadeable: channel habitat	PCT_RA	Rapids (% of reach)
PHab boatable: substrate characterization	PCT_RC	Substrate Concrete (%)
PHab wadeable: substrate characterization	PCT_RC	Substrate Concrete (%)
PHab boatable: channel habitat	PCT_RI	Riffle (% of reach)
PHab wadeable: channel habitat	PCT_RI	Riffle (% of reach)
PHab boatable: substrate characterization	PCT_RR	Substrate Rough Bedrock (%)
PHab wadeable: substrate characterization	PCT_RR	Substrate Rough Bedrock (%)
PHab boatable: substrate characterization	PCT_RS	Substrate Smooth Bedrock (%)
PHab wadeable: substrate characterization	PCT_RS	Substrate Smooth Bedrock (%)
PHab boatable: substrate characterization	PCT_SA	Thalweg substrate Sand -- .06-2 mm (%)
PHab wadeable: substrate characterization	PCT_SA	Substrate Sand -- .06-2 mm (%)
PHab boatable: substrate characterization	PCT_SAFN	Bed Surface Percent Sand or smaller (<2.0mm)
PHab wadeable: substrate characterization	PCT_SAFN	Bed Surface Percent Sand or smaller (<2.0mm)
PHab boatable: substrate characterization	PCT_SB	Substrate Boulders -- 250-1000 mm (%)
PHab wadeable: substrate characterization	PCT_SB	Substrate Boulders -- 250-1000 mm (%)
PHab boatable: substrate characterization	PCT_SBBL	Pct. littoral substrate with BL subdom.
PHab boatable: substrate characterization	PCT_SBCB	Pct. littoral substrate with CB subdom.
PHab boatable: substrate characterization	PCT_SBFN	Pct. littoral substrate with FN subdom.
PHab boatable: substrate characterization	PCT_SBGC	Pct. littoral substrate with GC subdom.
PHab boatable: substrate characterization	PCT_SBGF	Pct. littoral substrate with GF subdom.
PHab boatable: substrate characterization	PCT_SBHP	Pct. littoral substrate with HP subdom.
PHab boatable: substrate characterization	PCT_SBOM	Pct. littoral substrate with OM subdom.
PHab boatable: substrate characterization	PCT_SBOT	Pct. littoral substrate with OT subdom.
PHab boatable: substrate characterization	PCT_SBRC	Pct. littoral substrate with RC subdom.
PHab boatable: substrate characterization	PCT_SBRR	Pct. littoral substrate with RR subdom.
PHab boatable: substrate characterization	PCT_SBRS	Pct. littoral substrate with RS subdom.
PHab boatable: substrate characterization	PCT_SBSA	Pct. littoral substrate with SA subdom.

PHab boatable: substrate characterization	PCT_SBSB	Pct. littoral substrate with SB subdom.
PHab boatable: substrate characterization	PCT_SBWD	Pct. littoral substrate with WD subdom.
PHab boatable: substrate characterization	PCT_SBXB	Pct. littoral substrate with XB subdom.
PHab boatable: substrate characterization	PCT_SFGF	Bed Surface Fine Gravel or smaller (<16mm)
PHab wadeable: substrate characterization	PCT_SFGF	Bed Surface Fine Gravel or smaller (<16mm)
PHab boatable: general	PCT_SIDE	Percent of reach with side Channels/Bkwtrs
PHab wadeable: general	PCT_SIDE	Percent of reach with side Channels/Bkwtrs
PHab boatable: channel habitat	PCT_SLOW	Percent of reach with Pool or Glide Habitat.
PHab wadeable: channel habitat	PCT_SLOW	Percent of reach with Pool or Glide Habitat.
PHab boatable: substrate characterization	PCT_SSBL	Pct. shore substrate with BL subdominant
PHab boatable: substrate characterization	PCT_SSCB	Pct. shore substrate with CB subdominant
PHab boatable: substrate characterization	PCT_SSFN	Pct. shore substrate with FN subdominant
PHab boatable: substrate characterization	PCT_SSGC	Pct. shore substrate with GC subdominant
PHab boatable: substrate characterization	PCT_SSGF	Pct. shore substrate with GF subdominant
PHab boatable: substrate characterization	PCT_SSHP	Pct. shore substrate with HP subdominant
PHab boatable: substrate characterization	PCT_SSOM	Pct. shore substrate with OM subdominant
PHab boatable: substrate characterization	PCT_SSOT	Pct. shore substrate with OT subdominant
PHab boatable: substrate characterization	PCT_SSRC	Pct. shore substrate with RC subdominant
PHab boatable: substrate characterization	PCT_SSRR	Pct. shore substrate with RR subdominant
PHab boatable: substrate characterization	PCT_SSRS	Pct. shore substrate with RS subdominant
PHab boatable: substrate characterization	PCT_SSSA	Pct. shore substrate with SA subdominant
PHab boatable: substrate characterization	PCT_SSSB	Pct. shore substrate with SB subdominant
PHab boatable: substrate characterization	PCT_SSWD	Pct. shore substrate with WD subdominant
PHab boatable: substrate characterization	PCT_SSXB	Pct. shore substrate with XB subdominant
PHab boatable: substrate characterization	PCT_WD	Substrate Woody -- (%)
PHab wadeable: substrate characterization	PCT_WD	Substrate Woody -- (%)
PHab boatable: substrate characterization	PCT_XB	Substrate Boulders -- 1000-4000 mm (%)
PHab wadeable: substrate characterization	PCT_XB	Substrate Boulders -- 1000-4000 mm (%)
PHab boatable: channel characteristics	PCTCH_B	Broad valley unconst. channel (% rch)
PHab boatable: channel characteristics	PCTCH_C	Constrained channel (% reach)
PHab boatable: channel characteristics	PCTCH_N	Narrow valley unconst. channel (% rch)
PHab boatable: channel characteristics	PCTCH_U	Unconstrained channel (% reach)
PHab boatable: slope and bearing	PCTCLINOMETER	Percent of slope values based on hand held clinometer
PHab wadeable: slope and bearing	PCTCLINOMETER	Percent of slope values based on hand held clinometer
PHab boatable: fish cover	PFC_ALG	Littoral fil. algae presence (% Rch)
PHab wadeable: fish cover	PFC_ALG	Filamentous Algae Presence (% Rch)
PHab boatable: fish cover	PFC_ALL	Littoral sum(all type presence) (% Rch)
PHab wadeable: fish cover	PFC_ALL	Any Types Fsh Cvr Present (% Rch)
PHab boatable: fish cover	PFC_AQM	Littoral aq. Macrophyte Presence (% Rch)
PHab wadeable: fish cover	PFC_AQM	Aq. Macrophytes Presence (% Rch)
PHab boatable: fish cover	PFC_BIG	Lit. sum(LWDRCKOHBHUM pres.) (% Rch)
PHab wadeable: fish cover	PFC_BIG	LWDRCKOHB or HUM Fsh Cvr Pres (% Rch)
PHab boatable: fish cover	PFC_BRS	Lit. brush & Small Debris Prsnce (% Rch)
PHab wadeable: fish cover	PFC_BRS	Brush & Small Debris Prsnce (% Rch)
PHab boatable: fish cover	PFC_HUM	Littoral artif. struct. presence (% Rch)
PHab wadeable: fish cover	PFC_HUM	Artif. Structs. Presence (% Rch)
PHab boatable: fish cover	PFC_LVT	Littoral artif. struct. presence (% Rch)
PHab wadeable: fish cover	PFC_LVT	Living tree Presence (% Rch)
PHab boatable: fish cover	PFC_LWD	Littoral LWD Presence (% Rch)
PHab wadeable: fish cover	PFC_LWD	LWD Presence (% Rch)
PHab boatable: fish cover	PFC_NAT	Lit. sum(nat. type presence) (% Rch)
PHab wadeable: fish cover	PFC_NAT	Any Natural Fish Cover Present (% Rch)
PHab boatable: fish cover	PFC_OHV	Littoral overhang. Veg. presence (% Rch)
PHab wadeable: fish cover	PFC_OHV	Overhang. Veg. Presence (% Rch)
PHab boatable: fish cover	PFC_RCK	Littoral boulders presence (% Rch)
PHab wadeable: fish cover	PFC_RCK	Boulders Presence (% Rch)

PHab boatable: fish cover	PFC_UCB	Littoral undercut Bank presence (% Rch)
PHab wadeable: fish cover	PFC_UCB	Undercut Bank Presence (% Rch)
PHab boatable: riparian vegetation	PMID_C	Rip MidLayer Coniferous (Fraction reach)
PHab wadeable: riparian vegetation	PMID_C	Rip MidLayer Coniferous (Fraction reach)
PHab boatable: riparian vegetation	PMID_D	Rip MidLayer Deciduous (Fraction reach)
PHab wadeable: riparian vegetation	PMID_D	Rip MidLayer Deciduous (Fraction reach)
PHab boatable: riparian vegetation	PMID_E	Rip MidLayer broadlf evrgrn (Frac reach)
PHab wadeable: riparian vegetation	PMID_E	Rip MidLayer broadlf evrgrn (Frac reach)
PHab boatable: riparian vegetation	PMID_M	Rip MidLayer Mix Con-Decid (Fract reach)
PHab wadeable: riparian vegetation	PMID_M	Rip MidLayer Mix Con-Decid (Fract reach)
PHab boatable: riparian vegetation	PMID_N	Rip MidLayer Absent (Fraction of reach)
PHab wadeable: riparian vegetation	PMID_N	Rip MidLayer Absent (Fraction of reach)
PHab boatable: bed stability	RB3	Hydraulic radius of channel at bank full
PHab wadeable: bed stability	RB3	Hydraulic radius of channel at bank full
PHab boatable: large woody debris	RCHDLDLL	Count/reach dry large dia long len lwd
PHab wadeable: large woody debris	RCHDLDLL	Count/reach dry large dia long len lwd
PHab boatable: large woody debris	RCHDLDML	Count/reach dry large dia medium len lwd
PHab wadeable: large woody debris	RCHDLDML	Count/reach dry large dia medium len lwd
PHab boatable: large woody debris	RCHDLDSL	Count/reach dry large dia short len lwd
PHab wadeable: large woody debris	RCHDLDSL	Count/reach dry large dia short len lwd
PHab boatable: large woody debris	RCHDMDLL	Count/reach dry medium dia long len lwd
PHab wadeable: large woody debris	RCHDMDLL	Count/reach dry medium dia long len lwd
PHab boatable: large woody debris	RCHDMDML	Count/reach dry medium dia med. len lwd
PHab wadeable: large woody debris	RCHDMDML	Count/reach dry medium dia med. len lwd
PHab boatable: large woody debris	RCHDMDSL	Count/reach dry medium dia short len lwd
PHab wadeable: large woody debris	RCHDMDSL	Count/reach dry medium dia short len lwd
PHab boatable: large woody debris	RCHDRYT	Count/reach all dry size classes
PHab wadeable: large woody debris	RCHDRYT	Count/reach all dry size classes
PHab boatable: large woody debris	RCHDSDLL	Count/reach dry small dia long len lwd
PHab wadeable: large woody debris	RCHDSDLL	Count/reach dry small dia long len lwd
PHab boatable: large woody debris	RCHDSDML	Count/reach dry small dia medium len lwd
PHab wadeable: large woody debris	RCHDSDML	Count/reach dry small dia medium len lwd
PHab boatable: large woody debris	RCHDSDSL	Count/reach dry small dia short len lwd
PHab wadeable: large woody debris	RCHDSDSL	Count/reach dry small dia short len lwd
PHab boatable: large woody debris	RCHDXDLL	Count/reach dry xlarge dia long len lwd
PHab wadeable: large woody debris	RCHDXDLL	Count/reach dry xlarge dia long len lwd
PHab boatable: large woody debris	RCHDXDML	Count/reach dry xlarge dia med. len lwd
PHab wadeable: large woody debris	RCHDXDML	Count/reach dry xlarge dia med. len lwd
PHab boatable: large woody debris	RCHDXDSL	Count/reach dry xlarge dia short len lwd
PHab wadeable: large woody debris	RCHDXDSL	Count/reach dry xlarge dia short len lwd
PHab boatable: large woody debris	RCHTLDLL	Count/reach tot large dia long len lwd
PHab wadeable: large woody debris	RCHTLDLL	Count/reach tot large dia long len lwd
PHab boatable: large woody debris	RCHTLDML	Count/reach tot large dia medium len lwd
PHab wadeable: large woody debris	RCHTLDML	Count/reach tot large dia medium len lwd
PHab boatable: large woody debris	RCHTLDSL	Count/reach tot large dia short len lwd
PHab wadeable: large woody debris	RCHTLDSL	Count/reach tot large dia short len lwd
PHab boatable: large woody debris	RCHTMDLL	Count/reach tot medium dia long len lwd
PHab wadeable: large woody debris	RCHTMDLL	Count/reach tot medium dia long len lwd
PHab boatable: large woody debris	RCHTMDML	Count/reach tot medium dia med len lwd
PHab wadeable: large woody debris	RCHTMDML	Count/reach tot medium dia med len lwd
PHab boatable: large woody debris	RCHTMDSL	Count/reach tot medium dia short len lwd
PHab wadeable: large woody debris	RCHTMDSL	Count/reach tot medium dia short len lwd
PHab boatable: large woody debris	RCHTSDLL	Count/reach tot small dia long len lwd
PHab wadeable: large woody debris	RCHTSDLL	Count/reach tot small dia long len lwd
PHab boatable: large woody debris	RCHTSDML	Count/reach tot small dia medium len lwd
PHab wadeable: large woody debris	RCHTSDML	Count/reach tot small dia medium len lwd

PHab boatable: large woody debris	RCHTSDSL	Count/reach tot small dia short len lwd
PHab wadeable: large woody debris	RCHTSDSL	Count/reach tot small dia short len lwd
PHab boatable: large woody debris	RCHTXDLL	Count/reach tot xlarge dia long len lwd
PHab wadeable: large woody debris	RCHTXDLL	Count/reach tot xlarge dia long len lwd
PHab boatable: large woody debris	RCHTXDML	Count/reach tot xlarge dia med len lwd
PHab wadeable: large woody debris	RCHTXDML	Count/reach tot xlarge dia med len lwd
PHab boatable: large woody debris	RCHTXDSL	Count/reach tot xlarge dia short len lwd
PHab wadeable: large woody debris	RCHTXDSL	Count/reach tot xlarge dia short len lwd
PHab boatable: large woody debris	RCHWDT	Count/reach all wood
PHab wadeable: large woody debris	RCHWDT	Count/reach all wood
PHab boatable: large woody debris	RCHWETT	Count/reach all wet size classes
PHab wadeable: large woody debris	RCHWETT	Count/reach all wet size classes
PHab boatable: large woody debris	RCHWLDLL	Count/reach wet large dia long len lwd
PHab wadeable: large woody debris	RCHWLDLL	Count/reach wet large dia long len lwd
PHab boatable: large woody debris	RCHWLDML	Count/reach wet large dia medium len lwd
PHab wadeable: large woody debris	RCHWLDML	Count/reach wet large dia medium len lwd
PHab boatable: large woody debris	RCHWLDSL	Count/reach wet large dia short len lwd
PHab wadeable: large woody debris	RCHWLDSL	Count/reach wet large dia short len lwd
PHab boatable: large woody debris	RCHWMDLL	Count/reach wet medium dia long len lwd
PHab wadeable: large woody debris	RCHWMDLL	Count/reach wet medium dia long len lwd
PHab boatable: large woody debris	RCHWMDML	Count/reach wet medium dia med. len lwd
PHab wadeable: large woody debris	RCHWMDML	Count/reach wet medium dia med. len lwd
PHab boatable: large woody debris	RCHWMDSL	Count/reach wet medium dia short len lwd
PHab wadeable: large woody debris	RCHWMDSL	Count/reach wet medium dia short len lwd
PHab boatable: large woody debris	RCHWSDLL	Count/reach wet small dia long len lwd
PHab wadeable: large woody debris	RCHWSDLL	Count/reach wet small dia long len lwd
PHab boatable: large woody debris	RCHWSDML	Count/reach wet small dia medium len lwd
PHab wadeable: large woody debris	RCHWSDML	Count/reach wet small dia medium len lwd
PHab boatable: large woody debris	RCHWSDSL	Count/reach wet small dia short len lwd
PHab wadeable: large woody debris	RCHWSDSL	Count/reach wet small dia short len lwd
PHab boatable: large woody debris	RCHWXDLL	Count/reach wet xlarge dia long len lwd
PHab wadeable: large woody debris	RCHWXDLL	Count/reach wet xlarge dia long len lwd
PHab boatable: large woody debris	RCHWXDML	Count/reach wet xlarge dia med. len lwd
PHab wadeable: large woody debris	RCHWXDML	Count/reach wet xlarge dia med. len lwd
PHab boatable: large woody debris	RCHWXDSL	Count/reach wet xlarge dia short len lwd
PHab wadeable: large woody debris	RCHWXDSL	Count/reach wet xlarge dia short len lwd
PHab boatable: general	REACHLEN	Sample Reach Length (m)
PHab wadeable: general	REACHLEN	Sample Reach Length (m)
PHab boatable: bed stability	REYP3	Particle Reynolds number at bank full
PHab wadeable: bed stability	REYP3	Particle Reynolds number at bank full
PHAB	RIPDIST_COND_MOD	Model used for Disturbance Criteria
PHAB	RIPVEG_COND_MOD	Model used for Expected Riparian Veg Cover and Complexity
PHab boatable: residual pools	RP100	Mean Residual Depth at thalweg (cm)
PHab wadeable: residual pools	RP100	Mean Residual Depth at thalweg (cm)
PHab boatable: residual pools	RPGT05	Count resid Pools >5cm deep
PHab wadeable: residual pools	RPGT05	Count resid Pools >5cm deep
PHab boatable: residual pools	RPGT05X	Mean depth resid Pools >5cm deep
PHab wadeable: residual pools	RPGT05X	Mean depth resid Pools >5cm deep
PHab boatable: residual pools	RPGT10	Count resid Pools >10cm deep
PHab wadeable: residual pools	RPGT10	Count resid Pools >10cm deep
PHab boatable: residual pools	RPGT100	Resid Pools >100cm deep (number/reach)
PHab wadeable: residual pools	RPGT100	Resid Pools >100cm deep (number/reach)
PHab boatable: residual pools	RPGT10X	Mean depth resid Pools >10cm deep
PHab wadeable: residual pools	RPGT10X	Mean depth resid Pools >10cm deep
PHab boatable: residual pools	RPGT20	Count resid Pools >20cm deep

PHab wadeable: residual pools	RPGT20	Count resid Pools >20cm deep
PHab boatable: residual pools	RPGT20X	Mean depth resid Pools >20cm deep
PHab wadeable: residual pools	RPGT20X	Mean depth resid Pools >20cm deep
PHab boatable: residual pools	RPGT50	Resid Pools >50cm deep (number/reach)
PHab wadeable: residual pools	RPGT50	Resid Pools >50cm deep (number/reach)
PHab boatable: residual pools	RPGT75	Resid Pools >75cm deep (number/reach)
PHab wadeable: residual pools	RPGT75	Resid Pools >75cm deep (number/reach)
PHab boatable: residual pools	RPMXAR	Max. RP profile area in rch (m2/pool)
PHab wadeable: residual pools	RPMXAR	Max. RP profile area in rch (m2/pool)
PHab boatable: residual pools	RPMXDEP	Maximum residual depth in reach (m)
PHab wadeable: residual pools	RPMXDEP	Maximum residual depth in reach (cm)
PHab boatable: residual pools	RPMXLEN	Max. resid pool length in reach (m/pool)
PHab wadeable: residual pools	RPMXLEN	Max. resid pool length in reach (m/pool)
PHab boatable: residual pools	RPVAREA	StdDev profile area of RPs (m2/pool)
PHab wadeable: residual pools	RPVAREA	StdDev profile area of RPs (m2/pool)
PHab boatable: residual pools	RPVDEP	StdDev of residual pool depths (m)
PHab wadeable: residual pools	RPVDEP	StdDev of residual pool depths (cm)
PHab boatable: residual pools	RPVLEN	StdDev length of resid pools (m/pool)
PHab wadeable: residual pools	RPVLEN	StdDev length of resid pools (m/pool)
PHab boatable: residual pools	RPXAREA	Mean vert. profile area of RPs (m2/pool)
PHab wadeable: residual pools	RPXAREA	Mean vert. profile area of RPs (m2/pool)
PHab boatable: residual pools	RPXDEP	Mean RP depth in reach (m/pool)
PHab wadeable: residual pools	RPXDEP	Mean RP depth in reach (cm/pool)
PHab boatable: residual pools	RPXLEN	Mean length of resid pools (m/pool)
PHab wadeable: residual pools	RPXLEN	Mean length of resid pools (m/pool)
PHab boatable: bed stability	RRPW3	Effective Hydraulic Radius at Bankfull (Adjusted for wood and pool roughnesses)
PHab wadeable: bed stability	RRPW3	Effective Hydraulic Radius at Bankfull (Adjusted for wood and pool roughnesses)
PHab boatable: bed stability	S_DCBF_G08	Bed surface particle critical diameter (mm) from Geom (2008), estimated lacking station increment
PHab wadeable: bed stability	S_DCBF_G08	Bed surface particle critical diameter (mm) from Geom (2008), estimated lacking station increment
PHab boatable: bed stability	S_LDCBF_G08	Log10(bed surface particle critical diameter from Geom (2008), estimated lacking station increment)
PHab wadeable: bed stability	S_LDCBF_G08	Log10(bed surface particle critical diameter from Geom (2008), estimated lacking station increment)
PHab boatable: bed stability	S_LDMB_BW5	Est. ldmb_bw5 using s_rp100
PHab wadeable: bed stability	S_LDMB_BW5	Est. ldmb_bw5 using s_rp100
PHab boatable: bed stability	S_LRBS_BW5	Est. lrbs_bw5 using s_rp100
PHab wadeable: bed stability	S_LRBS_BW5	Est. lrbs_bw5 using s_rp100
PHab boatable: bed stability	S_LRBS_BW6	Est. lrbs_bw6 using s_rp100
PHab wadeable: bed stability	S_LRBS_BW6	Est. lrbs_bw6 using s_rp100
PHab boatable: bed stability	S_LRBS_G08	Log10(Relative bed stability from Geom (2008), estimated lacking station increment)
PHab wadeable: bed stability	S_LRBS_G08	Log10(Relative bed stability from Geom (2008), estimated lacking station increment)
PHab boatable: residual pools	S_RP100	Estimated RP100 in absence of station incremnt
PHab wadeable: residual pools	S_RP100	Estimated RP100 in absence of station incremnt
PHab boatable: human disturbance	SDB_HALL	Std dev human disturbance on bank
PHab wadeable: human disturbance	SDB_HALL	Std dev human disturbance on bank
PHab wadeable: bank morphology	SDBK_A	Bank Angle--Std. Dev. (degrees)
PHab boatable: channel morphology	SDBKF_H	Bankfull Height-Std. Dev. (m)
PHab wadeable: channel morphology	SDBKF_H	Std Dev bankfull height (m)
PHab boatable: channel morphology	SDBKF_W	Bankfull Width--Std. Dev. (m)
PHab wadeable: channel morphology	SDBKF_W	Std Dev bankfull width (m)

PHab boatable: human disturbance	SDC_HALL	Std dev human disturbance in channel
PHab wadeable: human disturbance	SDC_HALL	Std dev human disturbance in channel
PHab boatable: human disturbance	SDCB_HALL	Std dev human dist. on bank or channel
PHab wadeable: human disturbance	SDCB_HALL	Std dev human dist. on bank or channel
PHab boatable: channel morphology	SDDEPTH	Std Dev. of Thalweg Depth (cm)
PHab wadeable: channel morphology	SDDEPTH	Std Dev. of Thalweg Depth (cm)
PHab boatable: fish cover	SDFC_OHV	Std Dev Overhanging veg. cover
PHab wadeable: fish cover	SDFC_OHV	Std Dev Overhanging veg. cover
PHab boatable: fish cover	SDFC_UCB	Std Dev Undercut bank cover
PHab wadeable: fish cover	SDFC_UCB	Std Dev Undercut bank cover
PHab boatable: channel morphology	SDINC_H	Channel Incision Ht.-Std. Dev. (m)
PHab wadeable: channel morphology	SDINC_H	Channel Incision Ht.-Std. Dev. (m)
PHab wadeable: bank morphology	SDUN	Undercut Distance--Std. Dev. (m)
PHab boatable: human disturbance	SDWCB_HALL	Std dev wted human dist on bank or chan
PHab wadeable: human disturbance	SDWCB_HALL	Std dev wted human dist on bank or chan
PHab boatable: channel morphology	SDWD_RAT	Std Dev of Width/Depth Ratio (m/m)
PHab wadeable: channel morphology	SDWD_RAT	Std Dev of Width/Depth Ratio (m/m)
PHab boatable: channel morphology	SDWIDTH	Std Dev. of Wetted Width (m)
PHab wadeable: channel morphology	SDWIDTH	Std Dev. of Wetted Width (m)
PHab boatable: channel morphology	SDWXD	Std Dev. of Wetted Width x Thalweg Depth (m2)
PHab wadeable: channel morphology	SDWXD	Std Dev. of Wetted Width x Thalweg Depth (m2)
PHab boatable: large woody debris	SHDRYLEN	Count/reach all dry short len lwd
PHab wadeable: large woody debris	SHDRYLEN	Count/reach all dry short len lwd
PHab boatable: bed stability	SHLD_PX3	Shields parameter at bank full
PHab wadeable: bed stability	SHLD_PX3	Shields parameter at bank full
PHab boatable: large woody debris	SHLENTOT	Count/reach all short len lwd
PHab wadeable: large woody debris	SHLENTOT	Count/reach all short len lwd
PHab boatable: large woody debris	SHWETLEN	Count/reach all wet short len lwd
PHab wadeable: large woody debris	SHWETLEN	Count/reach all wet short len lwd
PHab boatable: general	SIDECNT	count of side channel transects sampled in reach
PHab wadeable: general	SIDECNT	count of side channel transects sampled in reach
PHab boatable: slope & bearing	SINU	Sinuosity of sample reach.
PHab wadeable: slope & bearing	SINU	Sinuosity of sample reach.
PHab boatable: large woody debris	SMDIATOT	Count/reach all small dia lwd
PHab wadeable: large woody debris	SMDIATOT	Count/reach all small dia lwd
PHab boatable: large woody debris	SMDRYDIA	Count/reach all dry small dia lwd
PHab wadeable: large woody debris	SMDRYDIA	Count/reach all dry small dia lwd
PHab boatable: large woody debris	SMWETDIA	Count/reach all wet small dia lwd
PHab wadeable: large woody debris	SMWETDIA	Count/reach all wet small dia lwd
PHab boatable: substrate characterization	SUB_DMM_NOR	Mobile mean diam (mm)
PHab wadeable: substrate characterization	SUB_DMM_NOR	Mobile mean diam (mm)
PHab boatable: substrate characterization	SUB2DMM_NOR	Mobile mean diam 2 BL classes (mm)
PHab wadeable: substrate characterization	SUB2DMM_NOR	Mobile mean diam 2 BL classes (mm)
PHab boatable: substrate characterization	SUBD_SD_NOR	Mobile stdev diam (mm)
PHab wadeable: substrate characterization	SUBD_SD_NOR	Mobile stdev diam (mm)
PHab boatable: substrate characterization	SUBD2SD_NOR	Mobile stdev diam 2 BL classes (mm)
PHab wadeable: substrate characterization	SUBD2SD_NOR	Mobile stdev diam 2 BL classes (mm)
PHab boatable: residual pools	TOTPLEN	Total resid pool length (m/reach)
PHab wadeable: residual pools	TOTPLEN	Total resid pool length (m/reach)
PHab boatable: slope & bearing	TRANSPC	Mean dist. betw. Transects (m)
PHab wadeable: slope & bearing	TRANSPC	Mean dist. betw. Transects (m)
PHab boatable: large woody debris	V1D	LWD vol in Bkf chnl&dry(m3/rch-all size)
PHab wadeable: large woody debris	V1D	LWD vol above Bkf chnl(m3/rch-all sizes)
PHab boatable: large woody debris	V1DM100	LWD vol in Bkf chnl&dry(m3/100m-all)
PHab wadeable: large woody debris	V1DM100	LWD Vol above Bkf chnl(m3/100m-all size)
PHab boatable: large woody debris	V1T	LWD vol in/over wet chnl(m3/rch-all)

PHab wadeable: large woody debris	V1T	LWD vol in/abv Bkf chnl(m3/rch-all size)
PHab boatable: large woody debris	V1TM100	LWD vol in/abv wt chan(#/100m-all sizes)
PHab wadeable: large woody debris	V1TM100	LWD Vol in/abv Bf chan(#/100m-all sizes)
PHab boatable: large woody debris	V1W	LWD vol in wetted chnl(m3/rch-all sizes)
PHab wadeable: large woody debris	V1W	LWD vol in Bkf chnl (m3/rch-all sizes)
PHab boatable: large woody debris	V1W_MSQ	Bankful Channel woody debris (m3/m2)
PHab wadeable: large woody debris	V1W_MSQ	Bankful Channel woody debris (m3/m2)
PHab boatable: large woody debris	V1WM100	Bankful channel woody debris (m3/100m)
PHab wadeable: large woody debris	V1WM100	Bankful channel woody debris (m3/100m)
PHab boatable: large woody debris	V2D	LWD vol in Bkf chnl&dry (m3/rch-SMLX)
PHab wadeable: large woody debris	V2D	LWD vol above Bkf chnl (m3/rch-SMLX)
PHab boatable: large woody debris	V2DM100	LWD vol in Bkf chnl&dry(m3/100m-SMLX)
PHab wadeable: large woody debris	V2DM100	LWD Vol above Bkf chnl (m3/100m-SMLX)
PHab boatable: large woody debris	V2T	LWD vol in/over wet chnl(m3/rch-SMLX)
PHab wadeable: large woody debris	V2T	LWD vol in/abv Bkf chnl (m3/rch-SMLX)
PHab boatable: large woody debris	V2TM100	LWD vol in/abv wet chan (#/100m-SMLX)
PHab wadeable: large woody debris	V2TM100	LWD Vol in/abv Bf chan (#/100m-SMLX)
PHab boatable: large woody debris	V2W	LWD vol in wetted chnl (m3/rch-SMLX)
PHab wadeable: large woody debris	V2W	LWD vol in Bkf chnl (m3/rch-SMLX)
PHab boatable: large woody debris	V2W_MSQ	LWD vol in Bkf chnl& dry (m3/m2-SMLX)
PHab wadeable: large woody debris	V2W_MSQ	LWD Vol in Bkf chnl (m3/m2-SMLX)
PHab boatable: large woody debris	V2WM100	LWD vol in Bkf chnl& dry (m3/100m-SMLX)
PHab wadeable: large woody debris	V2WM100	LWD Vol in Bkf chnl (m3/100m-SMLX)
PHab boatable: large woody debris	V3D	LWD vol in Bkf chnl & dry (m3/rch-MLX)
PHab wadeable: large woody debris	V3D	LWD vol above Bkf chnl (m3/rch-MLX)
PHab boatable: large woody debris	V3DM100	LWD vol in Bkf chnl& dry (m3/100m-MLX)
PHab wadeable: large woody debris	V3DM100	LWD Vol above Bkf chnl (m3/100m-MLX)
PHab boatable: large woody debris	V3T	LWD vol in/over wet chnl (m3/rch-MLX)
PHab wadeable: large woody debris	V3T	LWD vol in/abv Bkf chnl (m3/rch-MLX)
PHab boatable: large woody debris	V3TM100	LWD vol in/abv wetted chan(#/100m-MLX)
PHab wadeable: large woody debris	V3TM100	LWD Vol in/abv Bf chan (#/100m-MLX)
PHab boatable: large woody debris	V3W	LWD vol in wetted chnl (m3/rch-MLX)
PHab wadeable: large woody debris	V3W	LWD vol in Bkf chnl (m3/rch-MLX)
PHab boatable: large woody debris	V3W_MSQ	LWD vol in Bkf chnl & dry (m3/m2-MLX)
PHab wadeable: large woody debris	V3W_MSQ	LWD Vol in Bkf chnl (m3/m2-MLX)
PHab boatable: large woody debris	V3WM100	LWD vol in Bkf chnl & dry (m3/100m-MLX)
PHab wadeable: large woody debris	V3WM100	LWD Vol in Bkf chnl (m3/100m-MLX)
PHab boatable: large woody debris	V4D	LWD vol in Bkf chnl & dry (m3/rch-LX)
PHab wadeable: large woody debris	V4D	LWD vol above Bkf chnl (m3/rch-LX)
PHab boatable: large woody debris	V4DM100	LWD vol in Bkf chnl & dry (m3/100m-LX)
PHab wadeable: large woody debris	V4DM100	LWD Vol above Bkf chnl (m3/100m-LX)
PHab boatable: large woody debris	V4T	LWD vol in/over wetted chnl (m3/rch-LX)
PHab wadeable: large woody debris	V4T	LWD vol in/abv Bkf chnl (m3/rch-LX)
PHab boatable: large woody debris	V4TM100	LWD vol in/abv wetted chan (#/100m-LX)
PHab wadeable: large woody debris	V4TM100	LWD Vol in/abv Bf chan (#/100m-LX)
PHab boatable: large woody debris	V4W	LWD vol in wetted chnl (m3/rch-LX)
PHab wadeable: large woody debris	V4W	LWD vol in Bkf chnl (m3/rch-LX)
PHab boatable: large woody debris	V4W_MSQ	LWD vol in Bkf chnl & dry (m3/m2-LX)
PHab wadeable: large woody debris	V4W_MSQ	LWD Vol in Bkf chnl (m3/m2-LX)
PHab boatable: large woody debris	V4WM100	LWD vol in Bkf chnl & dry (m3/100m-LX)
PHab wadeable: large woody debris	V4WM100	LWD Vol in Bkf chnl (m3/100m-LX)
PHab boatable: large woody debris	V5D	LWD vol in Bkf chnl & dry (m3/rch-X)
PHab wadeable: large woody debris	V5D	LWD vol above Bkf chnl (m3/rch-X)
PHab boatable: large woody debris	V5DM100	LWD vol in Bkf chnl & dry (m3/100m-X)
PHab wadeable: large woody debris	V5DM100	LWD Vol above Bkf chnl (m3/100m-X)
PHab boatable: large woody debris	V5T	LWD vol in/over wetted chnl (m3/rch-X)

PHab wadeable: large woody debris	V5T	LWD vol in/abv Bkf chnl (m3/rch-X)
PHab boatable: large woody debris	V5TM100	LWD vol in/abv wetted chan (#/100m-X)
PHab wadeable: large woody debris	V5TM100	LWD Vol in/abv Bf chan (#/100m-X)
PHab boatable: large woody debris	V5W	LWD vol in wetted chnl (m3/rch-X)
PHab wadeable: large woody debris	V5W	LWD vol in Bkf chnl (m3/rch-X)
PHab boatable: large woody debris	V5W_MSQ	LWD vol in Bkf chnl & dry (m3/m2-X)
PHab wadeable: large woody debris	V5W_MSQ	LWD Vol in Bkf chnl (m3/m2-X)
PHab boatable: large woody debris	V5WM100	LWD vol in Bkf chnl & dry (m3/100m-X)
PHab wadeable: large woody debris	V5WM100	LWD Vol in Bkf chnl (m3/100m-X)
PHab boatable: canopy densiometer	VCDENBK	Std. Dev. Bank Canopy Density (%)
PHab wadeable: canopy densiometer	VCDENBK	Std. Dev. Bank Canopy Density (%)
PHab boatable: canopy densiometer	VCDENMID	Std. Dev. Mid-channel Canopy Density (%)
PHab wadeable: canopy densiometer	VCDENMID	Std. Dev. Mid-channel Canopy Density (%)
PHab boatable: substrate embeddedness	VCEMBED	SD Embeddedness--Channel only (%)
PHab wadeable: substrate embeddedness	VCEMBED	SD Embeddedness--Channel only (%)
PHab boatable: substrate embeddedness	VEMBED	SD Embeddedness--Channel+Margin (%)
PHab wadeable: substrate embeddedness	VEMBED	SD Embeddedness--Channel+Margin (%)
PHab boatable: littoral depth	VLIT	Stdev. littoral depth (m)
PHab boatable: slope & bearing	VSLOPE	Std Dev of Channel % Slope
PHab wadeable: slope & bearing	VSLOPE	Std Dev of Channel % Slope
PHab boatable: human disturbance	W1_HAG	Human Agricultural Influence Index(distance-wtd tally of types and presence
PHab wadeable: human disturbance	W1_HAG	Human Agricultural Influence Index(distance-wtd tally of types and presence
PHAB	W1_HALL	Human Disturbance Index(distance-wtd tally of types and presence used for condition
PHab boatable: human disturbance	W1_HALL	Human Disturbance Index(distance-wtd tally of types and presence
PHab wadeable: human disturbance	W1_HALL	Human Disturbance Index(distance-wtd tally of types and presence
PHab boatable: human disturbance	W1_HNOAG	Human Non-Agricultural Disturbance Index (distance weighted tally of types and presence)
PHab wadeable: human disturbance	W1_HNOAG	Human Non-Agricultural Disturbance Index (distance weighted tally of types and presence)
PHab boatable: human disturbance	W1H_BLDG	Rip Dist--Buildings (ProxWt Pres)
PHab wadeable: human disturbance	W1H_BLDG	Rip Dist--Buildings (ProxWt Pres)
PHab boatable: human disturbance	W1H_CROP	Near Channel Human Dist : Row Crops (distance-wtd tally of presence
PHab wadeable: human disturbance	W1H_CROP	Near Channel Human Dist : Row Crops (distance-wtd tally of presence
PHab boatable: human disturbance	W1H_LDFL	Rip Dist--Trash/Landfill (ProxWt Pres)
PHab wadeable: human disturbance	W1H_LDFL	Rip Dist--Trash/Landfill (ProxWt Pres)
PHab boatable: human disturbance	W1H_LOG	Rip Dist--Logging Activity (ProxWt Pres)
PHab wadeable: human disturbance	W1H_LOG	Rip Dist--Logging Activity (ProxWt Pres)
PHab boatable: human disturbance	W1H_MINE	Rip Dist--Mining Activity (ProxWt Pres)
PHab wadeable: human disturbance	W1H_MINE	Rip Dist--Mining Activity (ProxWt Pres)
PHab boatable: human disturbance	W1H_PARK	Rip Dist--Lawn/Park (ProxWt Pres)
PHab wadeable: human disturbance	W1H_PARK	Rip Dist--Lawn/Park (ProxWt Pres)
PHab boatable: human disturbance	W1H_PIPE	Rip Dist--Pipes infl/effl (ProxWt Pres)
PHab wadeable: human disturbance	W1H_PIPE	Rip Dist--Pipes infl/effl (ProxWt Pres)
PHab boatable: human disturbance	W1H_PSTR	Rip Dist--Pasture/Hayfield (ProxWt Pres)
PHab wadeable: human disturbance	W1H_PSTR	Rip Dist--Pasture/Hayfield (ProxWt Pres)
PHab boatable: human disturbance	W1H_PVMT	Rip Dist--Pavement (ProxWt Pres)
PHab wadeable: human disturbance	W1H_PVMT	Rip Dist--Pavement (ProxWt Pres)
PHab boatable: human disturbance	W1H_ROAD	Rip Dist--Road/Railroad (ProxWt Pres)
PHab wadeable: human disturbance	W1H_ROAD	Rip Dist--Road/Railroad (ProxWt Pres)

PHab boatable: human disturbance	W1H_WALL	Near Channel Human Dist : Walls/dikes/revetments(distance-wtd tally of presence
PHab wadeable: human disturbance	W1H_WALL	Near Channel Human Dist : Walls/dikes/revetments(distance-wtd tally of presence
PHab boatable: human disturbance	X_HAG	Rip Dist Sum-Ag Types rip Plt & Beyond
PHab wadeable: human disturbance	X_HAG	Rip Dist Sum-Ag Types rip Plt & Beyond
PHab boatable: human disturbance	X_HALL	Rip Dist--Sum All Types str plt & beyond
PHab wadeable: human disturbance	X_HALL	Rip Dist--Sum All Types str plt & beyond
PHab boatable: human disturbance	X_HNOAG	Rip Dist Sum-Non Ag rip Plt & Beyond
PHab wadeable: human disturbance	X_HNOAG	Rip Dist Sum-Non Ag rip Plt & Beyond
PHab boatable: human disturbance	XB_HAG	Rip Dist-Sum Ag Types instrm & in plot
PHab wadeable: human disturbance	XB_HAG	Rip Dist-Sum Ag Types instrm & in plot
PHab boatable: human disturbance	XB_HALL	Rip Dist--Sum All Types instrm & on bank
PHab wadeable: human disturbance	XB_HALL	Rip Dist--Sum All Types instrm & on bank
PHab boatable: human disturbance	XB_HNOAG	Rip Dist Sum-Non ag Types instrm & Plot
PHab wadeable: human disturbance	XB_HNOAG	Rip Dist Sum-Non ag Types instrm & Plot
PHab boatable: slope & bearing	XBEARING	Mean Flow Direction of reach (degrees)
PHab wadeable: slope & bearing	XBEARING	Mean Flow Direction of reach (degrees)
PHab wadeable: bank morphology	XBKA	Bank Angle--mean (degrees)
PHab boatable: channel morphology	XBKF_H	Mean Bankfull Height above wetted channel (m)
PHab wadeable: channel morphology	XBKF_H	Mean Bankfull Height above wetted channel (m)
PHab boatable: channel morphology	XBKF_W	Mean Bankfull Width (m)
PHab wadeable: channel morphology	XBKF_W	Mean Bankfull Width (m)
PHab boatable: riparian vegetation	XC	Canopy Mean Areal Cover proportion
PHab wadeable: riparian vegetation	XC	Canopy Mean Areal Cover proportion
PHab boatable: human disturbance	XC_HAG	Rip Dist-Sum of Ag Types in Ripar Plot
PHab wadeable: human disturbance	XC_HAG	Rip Dist-Sum of Ag Types in Ripar Plot
PHab boatable: human disturbance	XC_HALL	Rip Dist--Sum All Types in Ripar Plots
PHab wadeable: human disturbance	XC_HALL	Rip Dist--Sum All Types in Ripar Plots
PHab boatable: human disturbance	XC_HNOAG	Rip Dist Sum-Non Ag Types in Ripar Plot
PHab wadeable: human disturbance	XC_HNOAG	Rip Dist Sum-Non Ag Types in Ripar Plot
PHab boatable: human disturbance	XCB_HAG	Rip Dist Sum-Ag Types instrm & on Bank
PHab wadeable: human disturbance	XCB_HAG	Rip Dist Sum-Ag Types instrm & on Bank
PHab boatable: human disturbance	XCB_HALL	Rip Dist--Sum All Types instrm & in plot
PHab wadeable: human disturbance	XCB_HALL	Rip Dist--Sum All Types instrm & in plot
PHab boatable: human disturbance	XCB_HNAG	Rip Dist Sum-Non Ag Types instrm & Bank
PHab wadeable: human disturbance	XCB_HNAG	Rip Dist Sum-Non Ag Types instrm & Bank
PHab boatable: canopy densiometer	XCDENBK	Canopy Density at bank (mean percent)
PHab wadeable: canopy densiometer	XCDENBK	Canopy Density at bank (mean percent)
PHab boatable: canopy densiometer	XCDENMID	Canopy Density at mid-channel (mean percent)
PHab wadeable: canopy densiometer	XCDENMID	Canopy Density at mid-channel (mean percent)
PHab boatable: substrate embeddedness	XCEMBED	Mean Embeddedness--Channel only (%)
PHab wadeable: substrate embeddedness	XCEMBED	Mean Embeddedness--Channel only (%)
PHab boatable: riparian vegetation	XCL	Large diameter (Dbh>0.3m) Tree Canopy Areal Cover proportion
PHab wadeable: riparian vegetation	XCL	Large diameter (Dbh>0.3m) Tree Canopy Areal Cover proportion
PHab boatable: riparian vegetation	XCM	Rip Veg Canopy+Mid Layer Cover
PHab wadeable: riparian vegetation	XCM	Rip Veg Canopy+Mid Layer Cover
PHab boatable: riparian vegetation	XCMG	Sum of Canopy+Mid+Ground layer areal cover proportion
PHab wadeable: riparian vegetation	XCMG	Sum of Canopy+Mid+Ground layer areal cover proportion
PHab boatable: riparian vegetation	XCMGW	Sum of Woody Canopy+Mid+Ground layer areal cover proportion
PHab wadeable: riparian vegetation	XCMGW	Sum of Woody Canopy+Mid+Ground layer areal cover proportion
PHab boatable: riparian vegetation	XCMW	Rip Veg Canopy+Mid Layer Woody Cover

PHab wadeable: riparian vegetation	XCMW	Rip Veg Canopy+Mid Layer Woody Cover
PHab boatable: riparian vegetation	XCS	Riparian Canopy <= 0.3m DBH (Cover)
PHab wadeable: riparian vegetation	XCS	Riparian Canopy <= 0.3m DBH (Cover)
PHab boatable: channel morphology	XDEPTH	Mean thalweg depth (cm)
PHab wadeable: channel morphology	XDEPTH	Mean thalweg depth (cm)
PHab boatable: substrate embeddedness	XEMBED	Mean streambed embeddedness (%)
PHab wadeable: substrate embeddedness	XEMBED	Mean streambed embeddedness (%)
PHab boatable: human disturbance	XF_HAG	Rip Dist Sum-Ag Types Beyond Ripar Plot
PHab wadeable: human disturbance	XF_HAG	Rip Dist Sum-Ag Types Beyond Ripar Plot
PHab boatable: human disturbance	XF_HALL	Rip Dist--Sum All Types beyond Rip Plots
PHab wadeable: human disturbance	XF_HALL	Rip Dist--Sum All Types beyond Rip Plots
PHab boatable: human disturbance	XF_HNOAG	Rip Dist Sum-Non Ag Types Beyond Rip Plt
PHab wadeable: human disturbance	XF_HNOAG	Rip Dist Sum-Non Ag Types Beyond Rip Plt
PHab boatable: fish cover	XFC_ALG	Filamentous algae Mean areal cover
PHab wadeable: fish cover	XFC_ALG	Filamentous algae Mean areal cover
PHab boatable: fish cover	XFC_ALL	Lit. cover-sum(all) (Areal Prop)
PHab wadeable: fish cover	XFC_ALL	Fish Cvr-All Types (Sum Areal Prop)
PHab boatable: fish cover	XFC_AQM	Aquatic macrophyte mean areal cover
PHab wadeable: fish cover	XFC_AQM	Aquatic macrophyte mean areal cover
PHab boatable: fish cover	XFC_BIG	Lit. cvr-sum(LWDRCKUCBHUM Area Prop)
PHab wadeable: fish cover	XFC_BIG	Fish Cvr-LWDRCKUCBorHUM(Sum Area Prop)
PHab boatable: fish cover	XFC_BRS	Lit. cvr-brush&small debris (Areal Prop)
PHab wadeable: fish cover	XFC_BRS	Fish Cvr-Brush&Small Debris (Areal Prop)
PHab boatable: fish cover	XFC_HUM	Lit. cover-artif. structs. (Areal Prop)
PHab wadeable: fish cover	XFC_HUM	Fish Cvr-Artif. Structs. (Areal Prop)
PHab boatable: fish cover	XFC_LVT	Fish Cvr-Artif. Structs. (Areal Prop)
PHab wadeable: fish cover	XFC_LVT	Fish Cvr-Artif. Structs. (Areal Prop)
PHab boatable: fish cover	XFC_LWD	Large woody debris areal cover
PHab wadeable: fish cover	XFC_LWD	Large woody debris areal cover
PHab boatable: fish cover	XFC_NAT	Sum of non-anthropogenic fish areal cover types
PHab wadeable: fish cover	XFC_NAT	Sum of non-anthropogenic fish areal cover types
PHab boatable: fish cover	XFC_OHV	Lit. cover-overhang veg (Areal Prop)
PHab wadeable: fish cover	XFC_OHV	Fish Cvr-Overhang Veg (Areal Prop)
PHab boatable: fish cover	XFC_RCK	Littoral fish cvr-boulders (Areal Prop)
PHab wadeable: fish cover	XFC_RCK	Fish Cvr-Boulders (Areal Prop)
PHab boatable: fish cover	XFC_UCB	Lit. cover-undercut banks (Areal Prop)
PHab wadeable: fish cover	XFC_UCB	Fish Cvr-Undercut Banks (Areal Prop)
PHab boatable: riparian vegetation	XG	Riparian Veg Ground Layer Cover
PHab wadeable: riparian vegetation	XG	Riparian Veg Ground Layer Cover
PHab boatable: riparian vegetation	XGB	Barren ground layer areal cover
PHab wadeable: riparian vegetation	XGB	Barren ground layer areal cover
PHab boatable: riparian vegetation	XGH	Non-woody ground layer areal cover
PHab wadeable: riparian vegetation	XGH	Non-woody ground layer areal cover
PHab boatable: riparian vegetation	XGW	Woody ground layer areal cover
PHab wadeable: riparian vegetation	XGW	Woody ground layer areal cover
PHab boatable: channel morphology	XINC_H	Terrace Height above water level (m)
PHab wadeable: channel morphology	XINC_H	Terrace Height above water level (m)
PHab boatable: large woody debris	XLDIATOT	Count/reach all small dia lwd
PHab wadeable: large woody debris	XLDIATOT	Count/reach all small dia lwd
PHab boatable: large woody debris	XLDRYDIA	Count/reach all dry xlarge dia lwd
PHab wadeable: large woody debris	XLDRYDIA	Count/reach all dry xlarge dia lwd
PHab boatable: littoral depth	XLIT	Mean littoral depth (m)
PHab boatable: large woody debris	XLWETDIA	Count/reach all wet xlarge dia lwd
PHab wadeable: large woody debris	XLWETDIA	Count/reach all wet xlarge dia lwd
PHab boatable: riparian vegetation	XM	Riparian Veg Mid Layer Cover
PHab wadeable: riparian vegetation	XM	Riparian Veg Mid Layer Cover

PHab boatable: riparian vegetation	XMH	Rip Mid Layer Herbaceous (Cover)
PHab wadeable: riparian vegetation	XMH	Rip Mid Layer Herbaceous (Cover)
PHab boatable: riparian vegetation	XMW	Rip Mid Layer Woody (Cover)
PHab wadeable: riparian vegetation	XMW	Rip Mid Layer Woody (Cover)
PHab boatable: riparian vegetation	XPCAN	Rip Canopy Present (Fraction of reach)
PHab wadeable: riparian vegetation	XPCAN	Rip Canopy Present (Fraction of reach)
PHab boatable: riparian vegetation	XPCM	Rip Can & MidLayer Present (Frac. reach)
PHab wadeable: riparian vegetation	XPCM	Rip Can & MidLayer Present (Frac. reach)
PHab boatable: riparian vegetation	XPCMG	Riparian 3-Layers Present (Fract. reach)
PHab wadeable: riparian vegetation	XPCMG	Riparian 3-Layers Present (Fract. reach)
PHab boatable: riparian vegetation	XPGVEG	Rip Ground Layer Present (Fract. reach)
PHab wadeable: riparian vegetation	XPGVEG	Rip Ground Layer Present (Fract. reach)
PHab boatable: riparian vegetation	XPMG	Riparian mid & gnd Present (Frac. reach)
PHab wadeable: riparian vegetation	XPMG	Riparian mid & gnd Present (Frac. reach)
PHab boatable: riparian vegetation	XPMGW	Rip. mid & gnd wood Present (Frac. reach)
PHab wadeable: riparian vegetation	XPMGW	Rip. mid & gnd wood Present (Frac. reach)
PHab boatable: riparian vegetation	XPMID	Rip MidLayer Present (Fraction of reach)
PHab wadeable: riparian vegetation	XPMID	Rip MidLayer Present (Fraction of reach)
PHab boatable: channel characteristics	XSHOR2VG	Distance (m) from shoreline to vegetation Boatable only
PHab boatable: slope & bearing	XSLOPE	Mean Slope of water surface (%)
PHab wadeable: slope & bearing	XSLOPE	Mean Slope of water surface (%)
PHab boatable: slope and bearing	XSLOPE_FIELD	Reach mean channel slope according to field-based measurements
PHab wadeable: slope and bearing	XSLOPE_FIELD	Reach mean channel slope according to field-based measurements
PHab boatable: slope and bearing	XSLOPE_MAP	Reach mean channel slope according to map-based calculations
PHab wadeable: slope and bearing	XSLOPE_MAP	Reach mean channel slope according to map-based calculations
slope & bearing	XSLOPE_MAP	Reach mean channel slope according to map-based calculations
PHab wadeable: bank morphology	XUN	Undercut Distance--Mean (m)
PHab boatable: channel morphology	XWD_RAT	Mean Wetted Width/Thalweg Depth ratio
PHab wadeable: channel morphology	XWD_RAT	Mean Wetted Width/Thalweg Depth ratio
PHab boatable: channel morphology	XWIDTH	Mean Wetted Width (m)
PHab wadeable: channel morphology	XWIDTH	Mean Wetted Width (m)
PHab boatable: channel morphology	XWXD	Mean Wetted Width x Thalweg depth (m2)
PHab wadeable: channel morphology	XWXD	Mean Wetted Width x Thalweg depth (m2)