

**CORRELATION BETWEEN FUNCTIONS AND WETLAND TYPES
(March 20, 2012)**

<u>Function (code)</u>	<u>Level of Function</u>	<u>Wetland Types</u>
Surface Water Detention (SWD)	High	LEBA (excluding LE5 and LE6 wetlands and wetlands with "K" water regime unless in a reservoir or dammed lake), LEFR (excluding LE5 and LE6 wetlands and wetlands with "K" water regime unless in a reservoir or dammed lake), LEFL (only in reservoir or dammed lake: LE2FL and LE3FL; not in impoundments), LEIL (not "A" or "K" water regime), LSBA, LRFpba, LSFR (not "A" water regime), LRFR (not "A" water regime), LRIL (not "A" water regime), PDTH, TEFRpDTH, TEBApDTH, TEBATH, TEBATI, TEIFba, PD2c1, PD2d1, PD2e1, PD3c1, PD3d1, PD3e1
		(Note: The high level should not include any wetlands with "A" or "B" water regimes with one exception for LEFL in reservoirs or dammed lakes. Retained floating mat bogs such as LEFR because their area will store surface water when lake levels rise. Does not include areas now classified as LK that were mapped as PUB_ by NWI following NWI mapping conventions. Also should not include any LE wetland associated with an artificial freshwater impoundment completely surrounded by estuarine wetland or water, or any isolated impounded ponds and associated wetlands.)
	Moderate	LRFpfl, LRFR (other than above), LSFL, LE1FL, LEIL (other than above, excluding LE5 and LE6 wetlands), LSFR (other than above), TEIFfl, TEBA (other than above; excluding isolated impounded), PD (other except PD2f, PD3f, and isolated impounded ponds), TE__pd (other, excluding slope wetlands TESLpd__), TEFp__, TEFL__

(Note: This function should not include any tidal wetlands – E2___, R1US, R1EM, and P___N, R, S, and T - as they are covered under the Coastal Storm Surge function.)

Coastal Storm Surge
Detention (CSS)

- High ESBA, ESFR, ESIL, LR5FR, LR5FP, LR5IL, LS5BA, LS5FL, LS5FR, MAFR, MAIL
(should exclude diked wetlands and tidal ponds that are impounded and associated tidal wetlands in these categories since the dike prevents storm flowage except during extremes such as hurricanes)
- Moderate Other tidal wetlands not include above (which includes diked tidal wetlands) and any TE wetland (except SL - slope) contiguous with an estuarine wetland (usually marked by “ed” – these are bordering nontidal wetlands subject to infrequent or occasional tidal flooding during storms), TE wetland (except SL – slope) contiguous with marine waters or wetlands (should be marked with “md” or “ow”)

(Note: Taking a conservative approach by focusing on lowland wetlands along the estuary and not including similar wetlands in the tidal freshwater reach.)

Streamflow Maintenance
(SM)

- High "hw" wetlands (unaltered - excluding "d", "h", and "x" types)
- Moderate altered "hw" wetlands (excluding "h" types), LR1FPba (excluding “h” or “d” types), LS__BA (excluding "h" or "d" and not LS5), TEBAOUds (excluding “h” or “d” types)

(Note: While acreage of headwater wetlands may increase due to building ponds in headwater seeps (point features not polygons) and blocking drainageways, these wetlands do not increase streamflow and are not included in this function. However, when

headwater vegetated wetlands are excavated to create ponds, the streamflow maintenance function is lowered from high (natural headwater wetland) to moderate as the wetland still provides for some flow at high water periods.)

Nutrient Transformation
(NT)

High

P__(AB, EM, SS, FO and mixes)C, P__(AB, EM, SS, FO and mixes)E, P__(AB, EM, SS, FO and mixes including __/UB and UB/__, etc.)F, P__(AB, EM, SS, FO and mixes)R, P__(AB, EM, SS, FO and mixes)T, P__(AB, EM, SS, FO and mixes)N, P__(AB, EM, SS, FO and mixes)H, P__(AB, EM, SS, FO and mixes)L, E2AB3, E2EM (and mixes), E2SS (and mixes), E2FO (and mixes), E2RF, M2AB3, P__(AB, EM, SS, FO and mixes)Bt (fen) , L2_(AB, EM and mixes)C, L2_(AB, EM, and mixes)E, L2_(AB, EM, and mixes)F, L2_(AB, EM, and mixes)H, L2_(AB,EM, and mixes)N, L2_(AB,EM, and mixes)R, L2_(AB,EM, and mixes)T

GA coast – Include PFO3B, PSS3B and mixes of the two since they are permanently saturated; but not mixes with other types (FO1, FO4, EM, etc.).

(Note: In relevant regions, try to separate fens from bogs as the former are nutrient-rich sites while the latter are nutrient-poor sites: use circumneutral modifier “t” to identify fens EM1_t, SS__t, FO__t from bogs PSS__Ba, PFO__Ba, for example.)

Moderate

P__(AB, EM, SS, FO and mixes)B (not “t” fen), P__(AB, EM, SS, FO)A, P__(AB, EM, SS, FO and mixes)S, L2EM_A, PUS/__(mixed with vegetation classes excluding FO5 and SS5), PUB/__(mixed with vegetation classes)H, L2EM_S

(Note: Commercial cranberry bogs – PSSf – are not rated as significant for this function, nor are other farmed wetlands - Pf.)

Carbon Sequestration
(CAR)

High

P__ (AB,EM, SS, FO, and mixes)E, P__ (AB,EM, SS, FO, and mixes)F, P__ (AB,EM, SS, FO, and mixes)C, P__ (AB,EM, SS, FO, and mixes)T, P__ (AB,EM, SS, FO, and mixes)R, P__Ba (and mixes), P__g (=wetlands on organic soils), E2EM (and mixes), E2SS (and mixes), E2FO (and mixes), R1EM, R_EM C, R_ EME, R_ EMF, L2EM_ F, L2EM_ E, L2EM_ C, L2AB_ F, L2AB_ H, P__B (permanently saturated types; bogs noted with “a”), L2AB_ G, L2AB_ V, R_ AB_ F, R_ AB_ G, R_ AB_ V, R_ AB_ H, PAB_ V, PAB_ G

GA coast – Include PFO3B, PSS3B and mixes of the two since they are permanently saturated; but not mixes with other types (FO1, FO4, EM, etc.).

(Note: Bogs and other permanently saturated wetlands and wetlands with organic soils should be rated as high for this function.)

Moderate

P__ (AB,EM, SS, FO, and mixes)A, P__ (AB,EM, SS, FO, and mixes)B (seasonally saturated types; permanently saturated types should be rated as High), P__ (AB,EM, SS, FO, and mixes)S, E2AB, R_ EMA, L2EM_ A, E2US (including mixes dominated by nonvegetated class; focus on mudflats and organic flats for purely nonvegetated types and exclude sand flats/beaches and other substrates), R1US (and mixes dominated by nonvegetated class; focus on mudflats and organic flats for purely nonvegetated types and exclude sand flats/beaches and other substrates), PUB (and mixes; and not PD2 b,c,d,e1, and f or PD3 b,c,d,e1, and f; also exclude isolated impounded ponds), PUS/vegetated, and L2US/vegetated

(Note: Mixes for vegetated wetlands are those where vegetation is the dominant class, while mixes for nonvegetated wetlands are those where the substrate is the dominant class. Commercial cranberry bogs – PSSf – and other farmed wetlands P__f are not included; also “mixes” should include nonvegetated wetlands where vegetated types predominate and vegetated wetlands where nonvegetated types

predominate. If mapping includes any G or V wetlands that are vegetated by vascular plants other than aquatic bed species – not dead trees, they too should be rated as high for this function.)

Sediment and Other
Particulate Retention (SR)

High

ES__(vegetated and mixes), LEBA, LEFR (vegetated and mixes, not “fm”-floating mat), LEIL(veg and mixes, not “fm”), M2AB3__, LSBA, LRBA, LSFP, LRFP, LRFR (veg, not “fm”), LSFR(veg, not “fm”), LRIL (veg, not “fm”), PDTH, TE__pdTH (including __pq), PDBT, TE__pdBT, TEBATH, TEBATI, TEIFbaTH, TEIFbaTI, TEFRpdTH, PD2c1, PD2d1, PD2e1, PD3c1, PD3e1

Moderate

E2__(US, SB, RF, excluding RS), LEFR (nonveg), LEFL (veg), LSFL (not P__B_), LRIL (nonveg), LRFR (nonveg), LSFR (nonveg), M2US, M2RF, Other TEBA (not P__B_), PD1, PD2 and PD3 (not c, d, e, f, g, j types), PD4, TEFLpd (not P__B_), TEFP__(not P__B_), TEFL__(P__A, not P__B_), TE__pdOU, TE__pdIN

(Note: No “B” wetlands should be identified as significant for this function; only flooded types: A, C, E, F, H, R, S, T, R, N, M, and L should be rated. This will exclude bogs.)

Bank and Shoreline
Stabilization (BSS)

High

E2__(AB, EM, SS, FO and mixes; not IL), E2RS (not ESIL), E2US_P, M2RS(not MAIL), M2AB1N (not IL), LR__(AB, EM, SS, FO and mixes; not LRIL and not “fm”), LS__(AB, EM, SS, FO and mixes and not “fm”), LE__(AB, EM, SS, FO and mixes; not LEIL and not “fm”), R_RS, L2RS

Moderate

E2US_N or M (not IL), M2US (not IL), TE__pd (AB, EM, SS, FO and mixes), TE__OUhw (AB, EM, SS, FO and mixes), E2RF (when occur along a shoreline), M2RF (when occur along a shoreline)

Fish and Aquatic
Invertebrate Habitat (FAIH)

High

E2EM (including mixes with other types where EM1 or EM2 predominates; excluding E2EM5P__ and mixes where EM5 predominates and mixed communities dominated by E2FO or E2SS), E2US_M, E2US_N, E2RF, E2AB, E2RS/AB, L2_F, L2_H, L2AB, L2UB/__(AB, EM, SS, FO), LE__ (vegetated; AB, EM, SS, FO) and NWI water regime = H (permanently flooded), M2AB, M2RS/AB, M2US_M, M2US_N, M2RF, P__F and adjacent to PD (PD1, PD2 a3,b,and h, PD3b and h, and PD4 only), LK, RV (all except LR4), or ST (all except LS4) waters,, P__F and __FRsl or __BAsl (slough), PAB (not excavated or impounded), PUB/__(AB, EM, SS, FO), P__(EM, SS, FO)H, PEM__(N,R,T, or L, except EM5), PSS_T, PFO_T, PD (PD1, PD2 a3,b,and h, PD3b and h , and PD4 only) associated with P__(AB, EM, SS, FO)F, R1EM, R1AB, R1US(except S), R2AB, R2EM, PD (PD1, PD2a3, 2b, 2h, PD3b, and 3h, and PD4) associated with P__(AB, EM, SS, FO)H

(Note: M1AB3L = submerged eelgrass – important habitat but not wetland so is not included above; reports will note this.L2__K wetlands were not rated due to unknown management.)

Moderate

LE__ and PEM1E (and mixes and contiguous with waterbody), LR__ and PEM1E (and mixes and contiguous with waterbody), LS__ and PEM1E (and mixes and contiguous with waterbody), PEM5F and adjacent to LK, RV (except LR4), or ST(except LS4) waters, E2EM5N (and mixes), PEM5N (and mixes), E2EM5/1P, E2EM5P__ and adjacent to the estuary (and mixes, but not "interior" E2EM5P__), E2FO/EM__ (not EM5), E2SS/EM__ (not EM5), LR5__ and PFO/EM_R or T (not EM5), LS5__ and PFO/EM_R or T (not EM5), LS5__ and PSS/EM_R or T (not EM5), PD (\geq 1 acre in size

and PD1, PD2 a, b, h, PD3 a3, b, h, or PD4), TEFRpD (along these ponds), PAB (impounded or excavated and >1 acre and not associated with PD2 c,d,e,f, and g or PD3 c,d,e,f, and g), LR_FPba

(Note: Ponds one acre or greater and certain types were selected as moderate.)

Stream Shading
(Shade)

LS (not LS4 or not LS__pd) and PFO, LS (not LS4 or not LS_pd) and PSS (not PSS_Ba or not PSSf)

Locally Significant

Example: Lake Champlain - seasonally flooded LE__ wetlands (important for spring spawning); possibly add LR__ and LS__ wetlands with an E or C (water regime for spawning)

(Note: Shrub bogs should be excluded from all the above, e.g., PSS3Ba and commercial bogs = PSSf.)

Waterfowl and Waterbird
Habitat (WBIRD)

High

E2EM1 or E2EM2 (includes mixes where they predominate), E2EM5N, E2US__ M, N, P, and T water regimes (not S water regime), E2RF, E2AB, E2RS, L2_F (vegetated, AB, EM, SS, FO and mixes with nonvegetated), L2AB (and mixes with nonvegetated), L2US_(F,E, or C), L2UB_F, L2_H (vegetated, AB, EM, SS, FO and mixes with nonvegetated), M2AB, M2RS (excluding jetties and groins – M2RSPR), M2US, M2RF, P__F and adjacent to PD (PD1, PD2h, PD3h, and PD4 only), LK, RV(not LR4) or ST(not LS4) waters or along a slough (“sl” modifier); PAB (not excavated or impounded, except those associated with wildlife impoundment – “wi”), P__T, P__H (vegetated, EM, SS, FO including mixes with UB), PEM1Eh, PEM1Eb; PUS_F, PUS_E, LS__ and PEM1E (including mixes; not LS4), LR__ and PEM1E

(including mixes; not LR4), TE__ hw and PEM1E (including mixes); LE__ and PEM1E (including mixes); PEM_N (and mixes), PEM__R, (includes mixes, but excludes Phragmites-dominated EM5), P_/EM_N, and P_/EM_R (not EM5), PD2h, PD3h, PD4, PD1 associated with P__(AB, EM, SS, FO)F, PD associated with P__T, PD1 associated with P__(AB, EM, SS, FO)H, PUB__b, R1EM, R_EMF, R1US (except S water regime)

Moderate

E2EM5P (and mixes) and contiguous with open water (not "interior" marshes), E2SS1/EM1P6, E2EM5/1P, PEM5__E,F, R, or T and adjacent to PD, LK, RV(not LR4), or ST(not LS4), other L2UB (not listed as high), Other PD (\geq 1 acre in size and PD1, PD2 a, h, PD3 a, h, or PD4), Other P__F (vegetated wetlands), PAB (impounded or excavated and >1 acre)

Wood Duck

LS(1,2, or 5)BA and P__ (FO or SS and mixes; not PSS3Ba or PSSf – commercial cranberry bog), LS(1,2, or 5)FR and P__ (FO or SS and mixes; not PSS3Ba or PSSf), LR(1,2, or 5)FPba and P__(FO or SS and mixes; not PSS3Ba or PSSf), LRFPba and PUB/FO; PFO_R, T, or L (and mixes) and contiguous with open water, PSS_R, T, or L (and mixes) and contiguous with open water

(Note: All waterfowl impoundments and associated wetlands that should be marked with "wi" should be rated as high for this function. Ponds used for aquaculture are excluded since management will likely deter use of these ponds; associated wetlands should also be excluded from this function. Wastewater treatment, industrial, and commercial ponds and lakes and associated wetlands should also be excluded. Shrub bogs should be excluded from all the above, e.g., PSS3Ba and commercial bogs = PSSf. Also exclude farmed wetlands: P__f in Northeast, but check use of farmed wetlands in Prairie Pothole and elsewhere.)

Other Wildlife Habitat
(OWH)

High

Any vegetated wetland complex \geq 20 acres, wetlands 10-20 acres with 2 or more vegetated classes (excluding EM5), certain ponds (PD1b, c, d, e, f, h, i, j, k, l, m, n, o, p, q1, q2, q3, q4) , freshwater wetlands (P__ or L2____) on undeveloped portions of barrier islands or beaches, small permanently flooded or semipermanently flooded wetlands (including PUBH and PUBF) within a forested wetland or upland forest (can use specific PD types to identify these), other forested or scrub-shrub wetlands within 100m of these permanently flooded or semipermanently flooded wetlands

Unique, Uncommon, or
Highly Diverse Wetland
Plant Communities (UWPC)

Moderate

Other vegetated wetlands

Typically apply this function only where region has designated special types for this function or where this has been done locally.

Regional significant
(Northeast U.S.)

E2EM1N, E2EM1P6, R1EM, R1US, PEM1N, PEM1R, PEM2N, PEM2R, PSS_R, PSS_T, PFO4__g and PSS4__g (Atlantic white cedar; including mixtures), P__t (fens – EM, SS, FO), PFO2__ and PSS2__(bald cypress; DE and MD), E2AB__(eelgrass and SAV beds-not algae), LS__FR (excluding PFO5), LR__FR (excluding PFO5), *PD1m (woodland vernal pool), *forested wetlands within >7000-acre forest (limit to Mid-AtlanticRegion and Coastal Plain only), karst ponds and associated wetlands

(Note: Exclude any altered wetland – x, h, td, and tr – plus any “d” wetland that is channelized or extensively ditched.)

Locally significant

(case-by-case;

Northeast U.S.)

PFO2__ (larch), PSS2__(larch), PSS3Ba or PSS1Ba (and mixes; shrub bog), northern white cedar swamps, hemlock swamps, E2EM1N and P (some areas), LEFR with EM/AB and AB/EM vegetation, other uncommon types in an individual watershed

POSSIBILITIES FOR SOUTHEAST:

Regionally significant

(Southeast U.S.)

Mountain bogs (NWI code?), Rare plant habitats, freshwater tidal wetlands (R1EM, PEM_N, PEM_R, PSS_R; PEM_T, PSS_T, not Forested), oligohaline estuarine marshes (E2EM_N6 or E2EM_P6), E2FO2__6 (any mapped?), woodland ponds (only on Coastal Plain = Coastal Plain ponds), pocosins (relatively undisturbed), Carolina bays (relatively intact only), pitcher-plant bogs (NWI code?), karst ponds and associated wetlands

Locally significant

(case-by-case)

(Southeast U.S.)

Cypress swamps (PFO2_ and PSS2_ and mixes with FO2 and SS2), LE_FR with EM/AB or AB/EM?, other uncommon types in a specific watershed, Atlantic white cedar swamps (PFO4_g), P-vegetated_H

*Comment: Can't easily do, would need to hand pick or do additional GIS analysis.

