Appendix K. Crosswalk between ecological zones and BpS ecological systems and FS Veg forest type

Ecological Zone	BpS /NatureServe Ecological System	Code#	U.S. Forest Type # and Rules
Grassy Balds	Southern Appalachian Shrub and Grass Bald (in part)	27	No crosswalk
Spruce	Central and Southern Appalachian Spruce-Fir Forest	1	7, 17
Northern Hardwood Slope	– Southern Appalachian Northern Hardwood	2	81, (42, 10 when intersects with BpS 2),
Northern Hardwood Cove			(48 when intersects with BpS 2 = 12 ac)
Acidic Cove		4	56, 41, 50, 8, 9, 83, 4, 5, (42, 10, 48 when intersects with BpS 4)
Mixed Oak / Rhododendron	Southern and Central Appalachian Cove Forest		
Rich Cove			
Riparian Alluvial Forest		6	72, 76, 58,
Riparian Streamside	Central Interior and Appalachian Riparian Systems		(42, 10 when intersects with BpS 6) (48 when intersects w/ BpS 6,23 = 4 ac)
Large Floodplain	Central Interior and Appalachian Floodplain Systems	23	Not on USFS
High Elevation Red Oak	Central and Southern Appalachian Montane Oak	8	
Montane Oak-Hickory (Rich)			53, 55, (42, 10 when intersects with BpS 8, 9), (48 when intersects with BpS 8, 9 = 370 ac)
Montane Oak-Hickory (Cove)	Southern and Central Appalachian Northern Red Oak-	9	
Montane Oak-Hickory (Slope)	Chestnut Oak (provisional type)		
Dry Mesic Oak	Southern Appalachian Oak Forest	13	52, 47, 54, 46, 13, (42, 10 when intersects with BpS 13), (48 when intersects with BpS 13 = 193 ac)
Dry Oak Evergreen Heath		10	45, 60, 59, 88,
Dry Oak Deciduous Heath	Allegheny-Cumberland Dry Oak Forest & Woodland		(42, 10, when intersects with BpS 10), (48 when intersects with Bps 10 = 519 ac)
Low Elevation Pine	Southern Appalachian Low-Elevation Pine	16	33, 16, 32, 44, 12, 31, (42, 10 when intersects with BpS 16), (48 when intersects with BpS 16 = 156 ac)
Pine-Oak Heath	Southern Appalachian Montane Pine Forest and Woodland	18	15, 20, 39, 38, (48, 42, 10 when intersects with BpS 18)

Table 1. Summary of Crosswalk between Ecological Zones, BpS, and U.S. Forest Service Forest Types.

Table 2. Details of Crosswalk between Ecological Zones, BpS, and U.S. Forest Service Forest Types, sorted by Forest Type acreage (January 7, 2011 collaboration meeting between USFS and TNC)

FT#	FT NAME	acres	(Bps Code), Ecological System name	Reasoning ("TYPES" = BpS types)
	White Oak-Red Oak-	40.05		logical, local knowledge, agrees with BpS but 1/4 is within Cove
53	Hickory	71,415	(9) Southern and Central Appalachian Red Oak-Chestnut Oak	"TYPES"
	Yellow Poplar-White Oak-			logical, local knowledge, agrees with BpS but > 1/3 in Oak
56	Red Oak	60,369	(4) Southern and Central Appalachian Cove Forest	"TYPES"
45	Chestnut Oak-Scarlet Oak-	25.570	(40) Alleshenry Combanies d Dry Oak Espectand M(andless	Instead to an I be available an anthum and a with DeC
45 60	Yellow Pine Chestnut Oak-Scarlet Oak	25,579 23,467	(10) Allegheny-Cumberland Dry Oak Forest and Woodland	logical, local knowledge, mostly agrees with BpS logical, local knowledge, mostly agrees with BpS
60	unknown	23,467	(10) Allegheny-Cumberland Dry Oak Forest and Woodland DOES NOT CROSSWALK, INSUFFICIENT DATA, DROP FROM ANALYSIS	newer acquisitions that have not had field evaluation
52	Chestnut Oak	20,689	(13) Southern Appalachian Oak Forest	local knowledge USFS, but 30% in Cove "TYPES"
52	Sugar Maple-Beech-Yellow	20,085	(15) Southern Appalachian Oak Forest	local knowledge 03F3, but 30% in cover TTPE3
81	Birch	12,665	(2) Northern Appalachian Northern Hardwood	logical, local knowledge
	Cove Hardwoods-White			
41	Pine-Hemlock	11,789	(4) Southern and Central Appalachian Cove Forest	logical, local knowledge, but 20% in Oak "TYPES"
				stand replacement from crown fire only in pine types would
3	White Pine	10,032	UNCHARACTERISTIC except in BpS (16) and BpS (18)	allow WP dominance (> 70% cover)
	Upland Hardwoods-White		(4) Southern and Central Appalachian Cove Forest, and (13) Southern	variable sites represented by FT, use BpS to separate this FT in
42	Pine	9,227	Appalachian Oak Forest mostly	TNC Ecological Systems, i.e., BpS
			UNCHARACTERISTIC except in BpS (4) = Southern and Central	Tulip Poplar dominance probably not in historic landscape
50	Yellow Poplar	8,944	Appalachian Cove Forest	except for Coves
15	Pitch Pine-Oak	7,765	(18) Southern Appalachian Montane Pine Forest and Woodlands	logical, local knowledge, mostly agrees with BpS
39	Table Mountain Pine	6,284	(18) Southern Appalachian Montane Pine Forest and Woodlands	logical, but most in Oak "TYPES"
59	Scarlet Oak	6,036	(10) Allegheny-Cumberland Dry Oak Forest and Woodland	logical, local knowledge, but 25% in Cove "TYPES"
38	Pitch Pine	5,463	(18) Southern Appalachian Montane Pine Forest and Woodlands	logical, but most in Oak "TYPES"
55	Northern Red Oak	4,274	(9) Southern and Central Appalachian Red Oak-Chestnut Oak & (8) Central and Southern App. Montane Oak	This FT should be "lumped" into one Bps = (9) for Bps successional model purposes
33	Virginia Pine	3,989	(16) Southern Appalachian Low-Elevation Pine	logical, but most in Oak "TYPES" due to past disturbance
33	Vilgillia Fille	3,989	(10) Southern Appalachian Low-Elevation Fille	local knowledge, logical, but much overlap with Oak "TYPES", as
16	Virginia Pine-Oak	3,921	(16) Southern Appalachian Low-Elevation Pine	a result of past disturbance influence
10	White Pine-Upland	3,521	(4) Southern and Central Appalachian Cove Forest, and (13) Southern	variable sites represented by FT, use BpS to separate this FT in
10	Hardwood	3,830	Appalachian Oak Forest mostly	TNC Ecological Systems, i.e., BpS
	Table Mountain Pine-	· · ·		logical, but much in Cove and Oak "TYPES" due to past
20	Hardwoods	3,243	(18) Southern Appalachian Montane Pine Forest and Woodlands	disturbance, and map resolution differences
	Northern Red Oak-Hickory-			stands occur in variable landscape positions, i.e. coves and
48	Yellow Pine	2,040	use BpS to separate this type into TNC Ecological Systems	exposed slopes
8	Hemlock-Hardwood	2,021	(4) Southern and Central Appalachian Cove Forest	logical, local knowledge
	White Pine-Cove			logical, local knowledge, most agree with BpS, but 1/3 with Oak
9	Hardwood	1,864	(4) Southern and Central Appalachian Cove Forest	"TYPES"
				logical, local knowledge, but 1/2 in Oak "TYPES", likely as a
32	Shortleaf Pine	1,705	(16) Southern Appalachian Low-Elevation Pine	result of past disturbance
99	Druch kallat shada	1.656	UNCHARACTERISTIC except in BpS (27) = Southern Appalachian Grass and Shrub Balds	likely the result of stand replacement fire due to 80+ years of
99	Brush, kallat, rhodo	1,656		fire suppression, except on true balds 60% in Cove "TYPES", which could include Oak / Rhododendron
83	Black Birch	1,565	(4) Southern and Central Appalachian Cove Forest	Ecological Zones
85	Southern Red Oak-Yellow	1,505	(4) Southern and Central Appalacinan cover orest	logical, local knowledge, Southern Red Oak is the major
44	Pine	1,018	(16) Southern Appalachian Low-Elevation Pine	indicator of this BpS in adjacent NC areas
7	Red Spruce-Fraser Fir	641	(1) Central and Southern Appalachian Spruce-Fir Forest	logical
12	Shortleaf Pine-Oak	529	(16) Southern Appalachian Low-Elevation Pine	logical, local knowledge, mostly agrees with BpS
4	White Pine-Hemlock	454	(4) Southern and Central Appalachian Cove Forest	logical, and match to BpS mostly
	White Oak-Black Oak-	l		
47	Yellow Pine	376	(13) Southern Appalachian Oak Forest	logical, most in Oak "TYPES"
5	Hemlock	301	(4) Southern and Central Appalachian Cove Forest	logical, small acreage
54	White Oak	207	(13) Southern Appalachian Oak Forest	logical, local knowledge, small acreage
				logical, local knowledge, SUGGEST "LUMPING" Floodplain and
58	Sweetgum-Yellow Poplar	153	(23)&(6) = Floodplain and Riparian	Riparian.
90	no matching FT	89	DROP FROM ANALYSIS	small acreage, unclear designation
72	River Birch-Sycamore	73	(6) Central Interior and Appalachian Riparian Systems	logical, majority in Riparian "TYPES"
31	Loblolly Pine	62	(16) Southern Appalachian Low-Elevation Pine	logical, small acreage, likely error in pine spp recognition
70	Cilver Menle American El	- CA	(C) Central Interior and Annalashian Directory Contarts	logical, majority of "TYPE" in Cove that would include these
76	Silver Maple-American Elm	61	(6) Central Interior and Appalachian Riparian Systems	smaller Riparian inclusions
13	Loblolly Pine-Hardwood	28	(13) Southern Appalachian Oak Forest	based upon Bps intersection, small acreage
00	Undrained Flatwoods-	27	DROP FROM ANALYSIS	small acroage unclear designation
98	Savannas Rod Spruce Northern	27		small acreage, unclear designation
	Red Spruce-Northern Hardwood	23	(1) Central and Southern Appalachian Spruce-Fir Forest	logical, match to BbS Spruce and Nhwood
17	Bottomland Hwoods-	25	(x) central and obtainern Apparaentali opracer in Forest	is been materille boo oprace and Milwood
17		1		
		13	(13) Southern Appalachian Oak Forest	based on intersection with BpS = 70% Southern Appalachian Oak
17 46	Yellow Pine	13	(13) Southern Appalachian Oak Forest	based on intersection with BpS = 70% Southern Appalachian Oak based mainly on the intersection with BpS, i.e., 70% in Dry Oak
		13	(13) Southern Appalachian Oak Forest (10) Allegheny-Cumberland Dry Oak Forest and Woodland	based on intersection with BpS = 70% Southern Appalachian Oak based mainly on the intersection with BpS, i.e., 70% in Dry Oak "TYPE"