Fuelbed Handbook

Army Installations of the Southeastern United States

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FERA
Fire and Environmental
Research Applications

FOREST SERVICE
US
DEPARTMENT OF AGRICULTURE

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Introduction

The United States Department of Defense's Army Corps of Engineers (USACE) has undertaken an assessment of potential emissions from prescribed burning on installations in the southeastern United States. The Fire and Environmental Research Applications Team (FERA) of the Pacific Northwest Research Station was asked to conduct the assessment using the Fuel and Fire Tools (FFT) application. FFT includes the Fuel Characteristics Classification System (FCCS) and Consume modeling programs. FCCS is used to define fuelbeds and calculate fuel loadings and predict potential fire behavior at different environmental conditions (fuel moistures, windspeeds and percents of slope). Consume predicts fuel consumption and particulate emissions resulting from fires at different environmental conditions. The FERA team compiled information from the literature and consulted with experts to create FCCS fuelbeds (Ottmar et al. 2007; Riccardi et al. 2007) representing potential vegetation types on southeastern Army bases (Figures 1, 2, and 3). Information about the fuelbeds is summarized in tables including a description, the age class, and any management actions or natural change agents associated with each fuelbed (Tables 2, 3, 4 and 5).

Table 1. Descriptions of harvest types, fuel treatments and natural change agents.

Harvest / Fuel Treatment	Description
Clearcut harvest	Harvest of all or nearly all trees in a forest stand
Thin	Thinning harvest in which trees are removed throughout a forest stand to increase growth and decrease ladder fuels.
Fire exclusion	Exclusion of fire from a landscape through active suppression, land use changes, and/or cessation of aboriginal burning.
Prescribed fire (Rx burn, burn)	Application of controlled fire to obtain planned objectives for silviculture, wildlife habitat, grazing, and fire hazard reduction.
Grazing	Allowing cattle and other herbivores to feed on grass and herbaceous plants.
Mowing	Reducing standing biomass, by cutting grass in pastures, fallow fields or agricultural fields.
None	No recent harvest or fuel treatment
Natural Change Agent	**Description**
Southern pine beetle (SPB)	Mortality of trees from southern pine beetle infestation, leading to accumulation of dead fuels.
Wildfire	An unplanned, stand-replacing wildland fire including unauthorized human-caused fires, escaped wildland fire use events, escaped prescribed fire projects, and all other wildland fires where the objective is to put the fire out
None	No recent natural change agent for a specific pathway interval

Managed loblolly pine fuelbeds

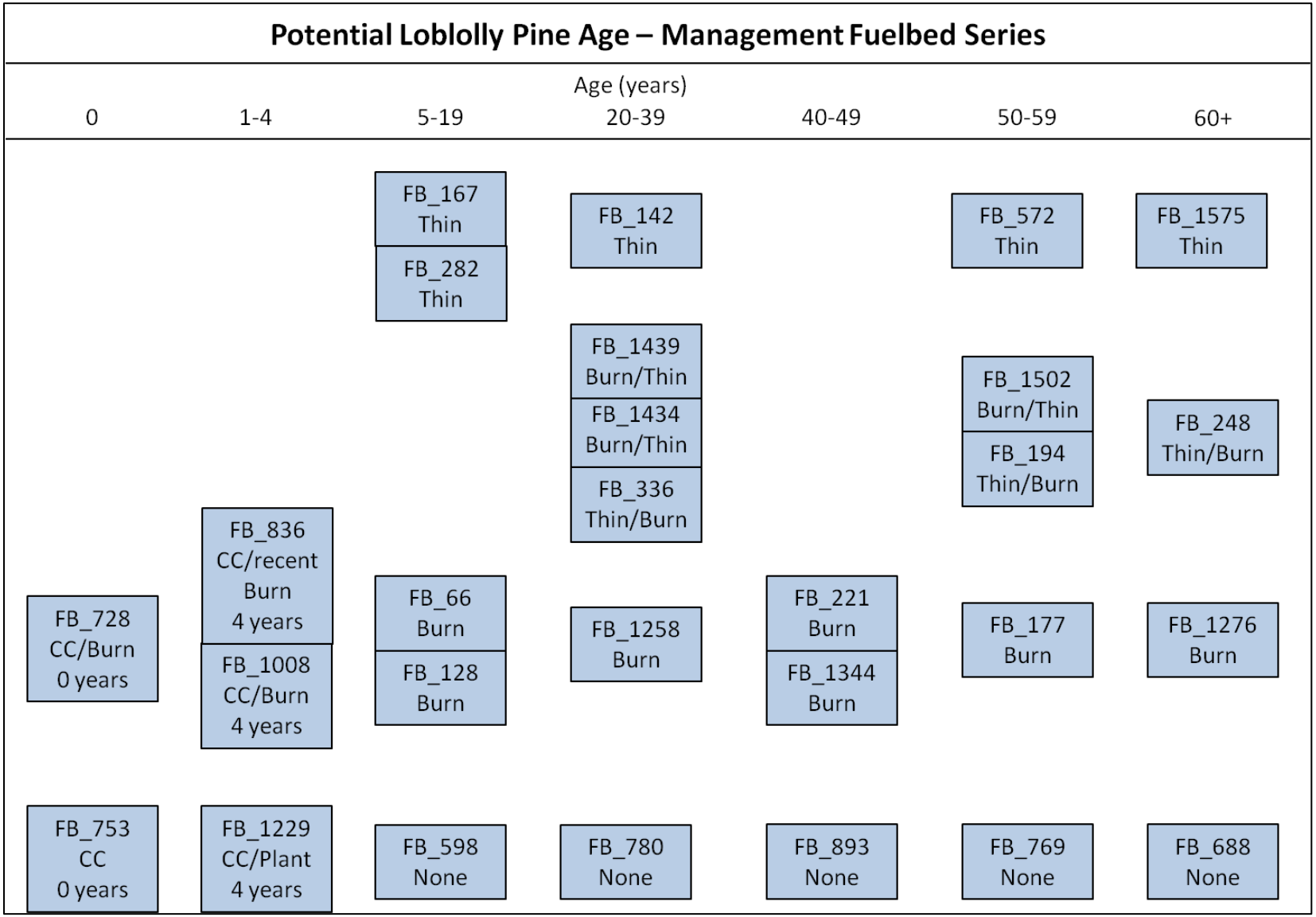

Figure 1. Managed loblolly pine age and management series fuelbeds.

Table 2. Managed loblolly pine fuelbed descriptions.

FuelbedID	Age class	Harvest / fuel treatment	Change agent	Fuelbed description
728	0	Clearcut	None	Loblolly pine forests of the southern Atlantic coastal plain that were clearcut less than 5 years ago.
753	0	Clearcut	None	Loblolly pine forests of the southern Atlantic coastal plain that were clearcut less than 5 years ago.
836	1-4	Rx burn	None	Loblolly pine forests of the southern Atlantic coastal plain that were clearcut less than 5 years ago and recently prescribed burned.
1008	1-4	Rx burn	None	Loblolly pine forests of the southern Atlantic coastal plain that were clearcut less than 5 years ago and recently prescribed burned.
1229	1-4	Planted	None	Loblolly pine forests of the southern Atlantic coastal plain that were clearcut and planted less than 5 years ago.
167	5-19	Thin	None	5-20 year old loblolly pine forests of the southern Atlantic coastal plain that were recently thinned.
282	5-19	Thin	None	5-20 year old loblolly pine forests of the southern Atlantic coastal plain that were recently thinned.
66	5-19	Rx burn	None	5-20 year old loblolly pine forests of the southern Atlantic coastal plain that were recently prescribed burned.
128	5-19	Rx burn	None	5-20 year old loblolly pine forests of the southern Atlantic coastal plain that were recently prescribed burned.
598	5-19	None	None	5-20 year old loblolly pine forests of the southern Atlantic coastal plain that have had no recent management.
142	20-39	Thin	None	21 - 40 year old loblolly pine forests of the southern Atlantic coastal plain that were recently thinned.
1439	20-39	Rx burn/Thin	None	21 - 40 year old loblolly pine forests of the southern Atlantic coastal plain that were prescribed burned in the past and more recently thinned.
1434	20-39	Rx burn/Thin	None	21 - 40 year old loblolly pine forests of the southern Atlantic coastal plain that were prescribed burned in the past and more recently thinned.
336	20-39	Thin/Rx burn	None	21 - 40 year old loblolly pine forests of the southern Atlantic coastal plain that were thinned in the past and more recently prescribed burned.
1258	20-39	Rx burn	None	21 - 40 year old loblolly pine forests of the southern Atlantic coastal plain that were recently prescribed burned.
780	20-39	None	None	21 - 40 year old loblolly pine forests of the southern Atlantic coastal plain that

FuelbedID	Age class	Harvest / fuel treatment	Change agent	Fuelbed description
				have had no recent management.
221	40-49	Rx Burn	None	41 - 60 year old loblolly pine forests of the southern Atlantic coastal plain that were recently prescribed burned.
1344	40-49	Rx Burn	None	41 - 60 year old loblolly pine forests of the southern Atlantic coastal plain that were recently prescribed burned.
893	40-49	None	None	41 - 60 year old loblolly pine forests of the southern Atlantic coastal plain that have had no recent management.
572	50-59	Thin	None	41 - 60 year old loblolly pine forests of the southern Atlantic coastal plain that were recently thinned.
1502	50-59	Rx burn/Thin	None	41 - 60 year old loblolly pine forests of the southern Atlantic coastal plain that prescribed burned In the past and more recently thinned.
194	50-59	Thin/Rx burn	None	41 - 60 year old loblolly pine forests of the southern Atlantic coastal plain that were thinned in the past and more recently prescribed burned.
177	50-59	Rx burn	None	41 - 60 year old loblolly pine forests of the southern Atlantic coastal plain that were recently prescribed burned.
769	50-59	None	None	41 - 60 year old loblolly pine forests of the southern Atlantic coastal plain that have had no recent management.
1575	60+	Thin	None	Loblolly pine forests that are greater than 60 years old in the southern Atlantic coastal plain and were recently thinned.
248	60+	Thin/Rx burn	None	Loblolly pine forests that are greater than 60 years old in the southern Atlantic coastal plain and were thinned in the past and more recently prescribed burned.
1276	60+	Rx burn	None	Loblolly pine forests that are greater than 60 years old in the southern Atlantic coastal plain and were recently prescribed burned.
688	60+	None	None	Loblolly pine forests that are greater than 60 years old in the southern Atlantic coastal plain and have had no recent management.

Managed longleaf pine fuelbeds

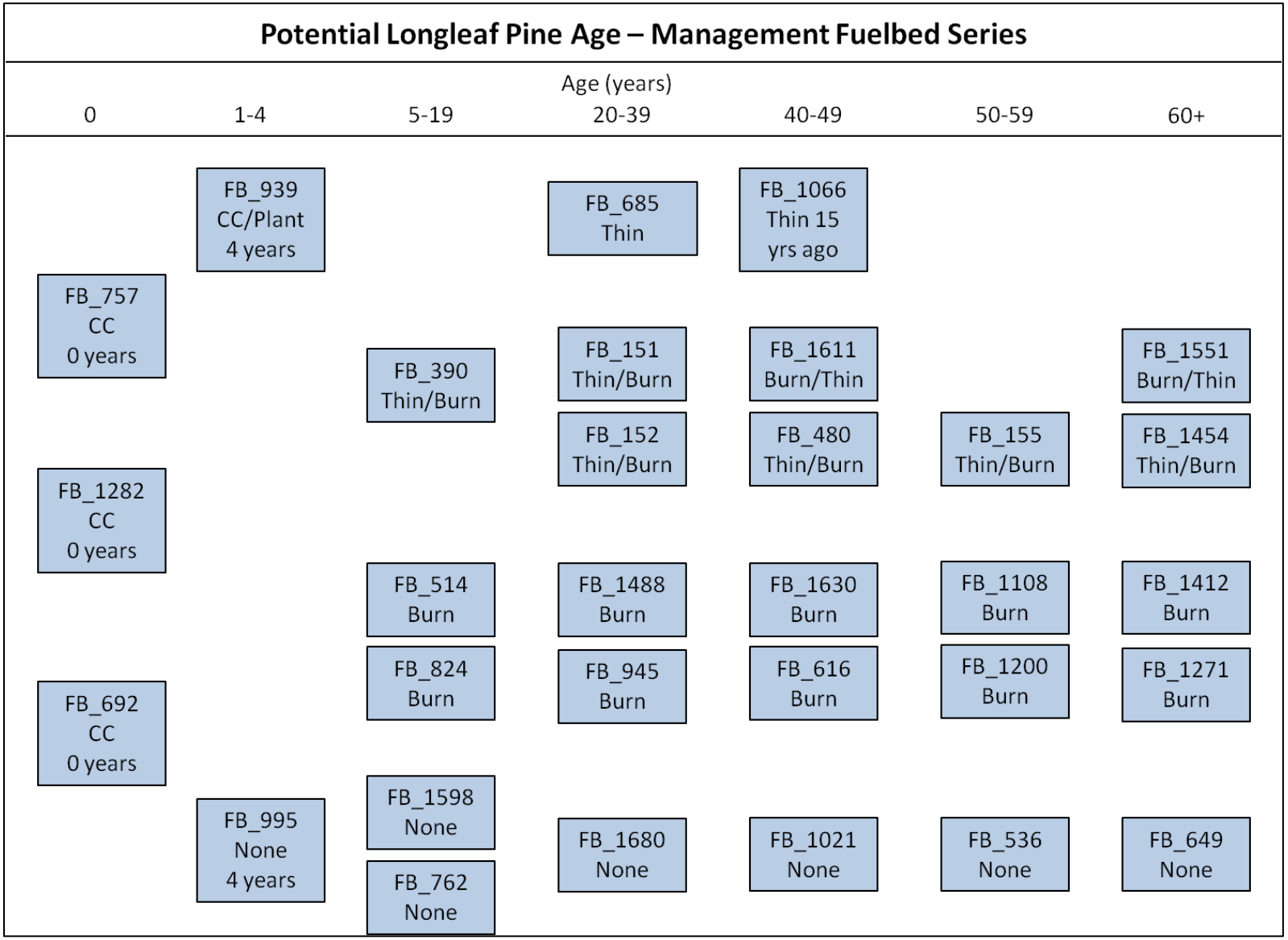

Figure 2. Longleaf pine fuelbeds.

Table 3. Managed longleaf pine fuelbed descriptions.

FuelbedID	Age class (yr)	Harvest / fuel treatment	Change agent	Fuelbed description
757	0	Clearcut	None	Longleaf pine forests of the southern Atlantic coastal plain that were clearcut less than 5 years ago.
1282	0	Clearcut	None	Longleaf pine forests of the southern Atlantic coastal plain that were clearcut less than 5 years ago.
692	0	Clearcut	None	Longleaf pine forests of the southern Atlantic coastal plain that were clearcut less than 5 years ago with no additional management.
939	1-4	Clearcut	Plant	Longleaf pine forests of the southern Atlantic coastal plain that were clearcut and planted less than 5 years ago with no additional management.
995	1-4	Clearcut	None	Longleaf pine forests of the southern Atlantic coastal plain that were clearcut less than 5 years ago with no additional management.
390	5-19	Thin/Rx burn	None	5-19 year old longleaf pine forests of the southern Atlantic coastal plain that were thinned in the past and more recently prescribed burned.
514	5-19	Rx burn	None	5-19 year old longleaf pine forests of the southern Atlantic coastal plain that were recently prescribed burned.
824	5-19	Rx burn	None	5-19 year old longleaf pine forests of the southern Atlantic coastal plain that were recently prescribed burned.
1598	5-19	None	None	5-19 year old longleaf pine forests of the southern Atlantic coastal plain that have had no recent management.
762	5-19	None	None	5-19 year old longleaf pine forests of the southern Atlantic coastal plain that have had no recent management.
685	20-39	Thin	None	20-39 year old longleaf pine forests of the southern Atlantic coastal plain that were recently thinned.
151	20-39	Thin/Rx burn	None	20-39 year old longleaf pine forests of the southern Atlantic coastal plain that were thinned in the past and more recently prescribed burned.
152	20-39	Thin/Rx burn	None	20-39 year old longleaf pine forests of the southern Atlantic coastal plain that were thinned in the past and more recently prescribed burned.
1488	20-39	Rx burn	None	20-39 year old longleaf pine forests of the southern Atlantic coastal plain that were recently prescribed burned.

FuelbedID	Age class (yr)	Harvest / fuel treatment	Change agent	Fuelbed description
945	20-39	Rx burn	None	20-39 year old longleaf pine forests of the southern Atlantic coastal plain that were recently prescribed burned.
1680	20-39	None	None	20-39 year old longleaf pine and mixed scrub oak forests of the southern Atlantic coastal plain that have had no recent management. Typical oak species are turkey oak, dwarf post oak and blue jack oak.
1066	40-49	Thin (15 yrs ago)	None	40-49 year old longleaf pine forests of the southern Atlantic coastal plain that was thinned 15 years ago and has had no recent management.
1611	40-49	Rx burn/Thin	None	40-49 year old longleaf pine forests of the southern Atlantic coastal plain that was prescribed burned in the past and more recently thinned.
480	40-49	Thin/Rx burn	None	40-49 year old longleaf pine forests of the southern Atlantic coastal plain that were thinned in the past and more recently prescribed burned.
1630	40-49	Rx burn	None	40-49 year old longleaf pine forests of the southern Atlantic coastal plain that were recently prescribed burned.
616	40-49	Rx burn	None	40-49 year old longleaf pine forests of the southern Atlantic coastal plain that were recently prescribed burned.
1021	40-49	None	None	40-49 year old longleaf pine forests of the southern Atlantic coastal plain that have had no recent management.
155	50-59	Thin/Rx burn	None	50-59 year old longleaf pine forests of the southern Atlantic coastal plain that were thinned in the past and more recently prescribed burned.
1108	50-59	Rx burn	None	50-59 year old longleaf pine forests of the southern Atlantic coastal plain that were recently prescribed burned.
1200	50-59	Rx burn	None	50-59 year old longleaf pine forests of the southern Atlantic coastal plain that were recently prescribed burned.
536	50-59	None	None	50-59 year old longleaf pine forests of the southern Atlantic coastal plain that have had no recent management.
1551	60+	Rx burn/Thin	None	Longleaf pine forests greater than 60 years old in the southern Atlantic coastal plain that were prescribed burned in the past and more recently thinned.
1454	60+	Thin/Rx burn	None	Longleaf pine forests greater than 60 years old in the southern Atlantic

FuelbedID	Age class (yr)	Harvest / fuel treatment	Change agent	Fuelbed description
				coastal plain that were thinned in the past and more recently prescribed burned.
1412	60+	Rx burn	None	Longleaf pine forests greater than 60 years old in the southern Atlantic coastal plain that were recently prescribed burned.
1271	60+	Rx burn	None	Longleaf pine forests greater than 60 years old in the southern Atlantic coastal plain that were recently prescribed burned.
649	60+	None	None	Longleaf pine forests that are greater than 60 years old in the southern Atlantic coastal plain and have had no recent management.

Managed slash pine fuelbeds

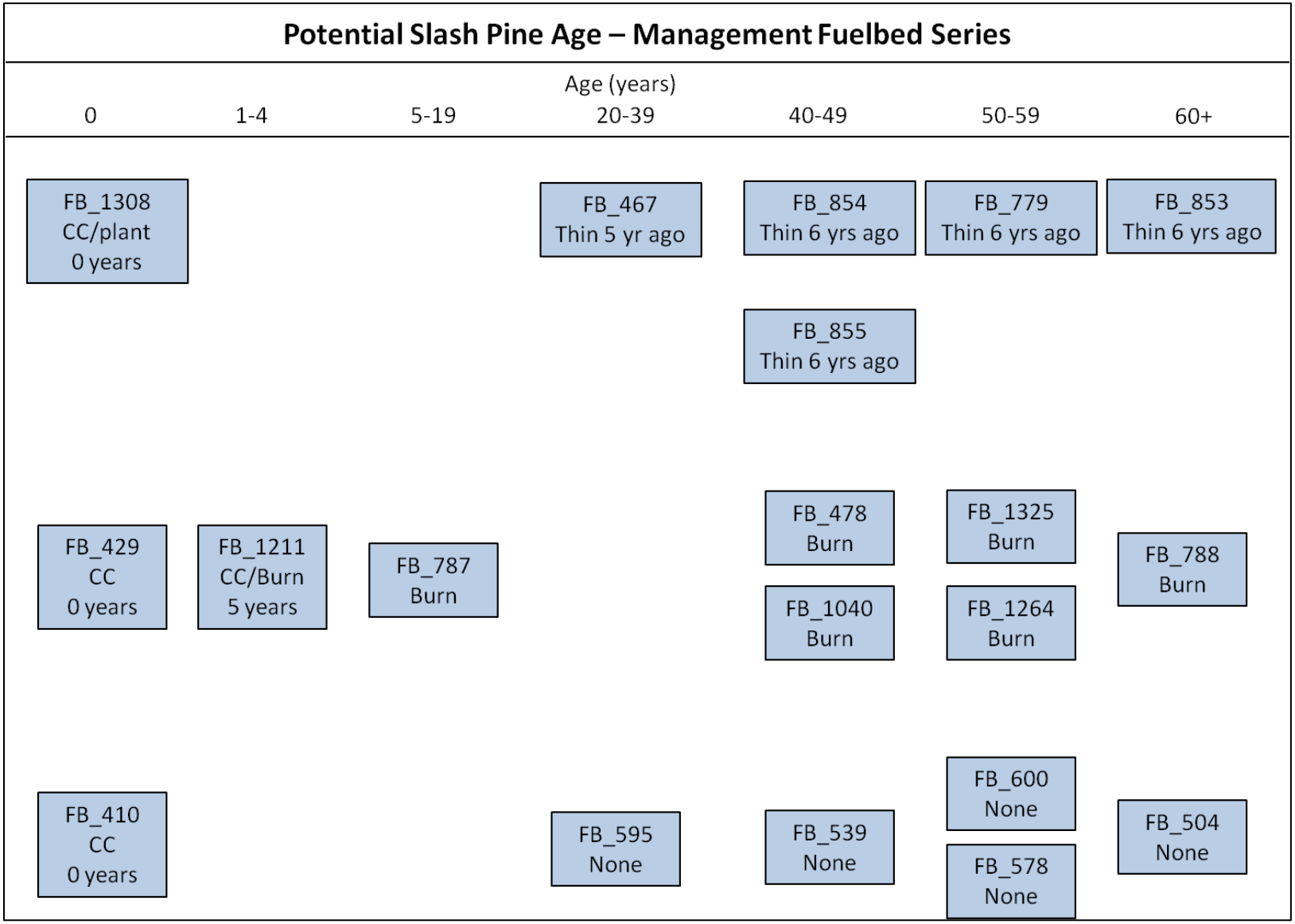

Figure 3. Slash pine fuelbeds.

Table 4. Managed slash pine fuelbed descriptions.

FuelbedID	Age class (yr)	Harvest / fuel treatment	Change agent	Fuelbed description
1308	0	Clearcut	Plant	Slash pine forests of the southern Atlantic coastal plain that were clearcut less than 5 years ago
429	0	Clearcut	None	Slash pine forests of the southern Atlantic coastal plain that were clearcut less than 5 years ago.
410	0	Clearcut	None	Slash pine forests of the southern Atlantic coastal plain that were clearcut less than 5 years ago.
1211	1-4	Clearcut/Rx burn	None	Slash pine forests of the southern Atlantic coastal plain that were clearcut less than 5 years ago and were recently prescribed burned.
787	5-19	Rx burn	None	5 - 19 year old slash pine forests of the southern Atlantic coastal plain that were recently prescribed burned.
467	20-39	Thin (5 yrs ago)	None	20 - 39 year old slash pine forests of the southern Atlantic coastal plain that were thinned 5 years ago with no additional management.
595	20-39	None	None	20 - 39 year old slash pine forests of the southern Atlantic coastal plain that have had no recent management.
854	40-49	Thin (6 yrs ago)	None	40 - 49 year old slash pine forests of the southern Atlantic coastal plain that were thinned 6 years ago with no additional management.
855	40-49	Thin (6 yrs ago)	None	40 - 49 year old slash pine forests of the southern Atlantic coastal plain that were thinned 6 years ago with no additional management.
478	40-49	Rx burn	None	40 - 49 year old slash pine forests of the southern Atlantic coastal plain that were recently prescribed burned.
1040	40-49	Rx burn	None	41 - 60 year old slash pine forests of the southern Atlantic coastal plain that were recently prescribed burned.
539	40-49	None	None	40 - 49 year old pine forests of the southern Atlantic coastal plain. Pines may be longleaf, slash or loblolly alone in or combination. Various oaks and other hardwoods may be present in the canopy.
779	50-59	Thin (6 yrs ago)	None	50-59 year old slash pine forests of the southern Atlantic coastal plain that were thinned 6 years ago with no additional management.
1325	50-59	Rx burn	None	50-59 year old slash pine forests of the southern Atlantic coastal plain that were recently prescribed burned.
1264	50-59	Rx burn	None	50-59 year old slash pine forests of the southern Atlantic coastal plain that were recently prescribed burned.

FuelbedID	Age class (yr)	Harvest / fuel treatment	Change agent	Fuelbed description
600	50-59	None	None	50-59 year old slash pine forests of the southern Atlantic coastal plain that have had no recent management.
578	50-59	None	None	50-59 year old slash pine forests of the southern Atlantic coastal plain that have had no recent management.
853	60+	Thin (6 yrs ago)	None	Slash pine forests of the southern Atlantic coastal plain that are greater than 60 years old and were thinned 6 years ago with no additional management.
788	60+	Rx burn	None	Slash pine forests of the southern Atlantic coastal plain that are greater than 60 years old and were recently prescribed burned.
504	60+	None	None	Slash pine forests of the southern Atlantic coastal plain that are greater than 60 years old and have had no recent management.

Other pine forests, mixed conifer-hardwood, hardwood, shrubland and grassland fuelbeds

Table 5. Pine, mixed conifer-hardwood, hardwood, shrubland and grassland fuelbed descriptions. Letters following fuelbed numbers indicate that they are from Savannah River Site (S) or are fuelbeds that were modified (M) for this project.

Fuelbed number	Age class (yr)	Harvest/Fuel treatment	Change agent	Fuelbed name Fuelbed filename	Fuelbed description
165	45+	Rx burn	None	Longleaf pine/three-awned grass-pitcher plant savanna FB_0165_FCCS.xml	Mesic to wet savannas with very open, scattered longleaf pine over a diverse herbaceous layer dominated by grasses and many forb species, 2-3 years after prescribed fire. History of periodic prescribed fire maintains herbaceous layer diversity by reducing cover native and nonnative understory shrubs and trees.
166	45+	Fire exclusion	None	Longleaf pine/three-awned grass-pitcher plant savanna FB_0166_FCCS.xml	Canopy of longleaf pine with a sparse to very dense shrub layer and a diverse herbaceous layer. The small tree-shrub layer increases in cover with fire exclusion, generally occurring in patches rather than continuous strata; species include wax myrtle (*Morella cerifera*), sweetbay magnolia (*Magnolia virginiana*), titi (*Cyrilla racemiflora*), and gallberry (*Ilex glabra*). This description is typical of a site with more than 25 years of fire exclusion.
152 S	25	Thin/Rx burn	None	Pine forest 21-40 years fuelbed_152.xml	20-39 year old pine forests of the southern Atlantic coastal plain that were thinned in the past and more recently prescribed burned.

Fuelbed number	Age class (yr)	Harvest/Fuel treatment	Change agent	Fuelbed name Fuelbed filename	Fuelbed description
191	40	Rx burn	None	Longleaf pine-slash pine/gallberry forest FB_0191_FCCS.xml	This forest is found throughout the Southeast coastal plain from Virginia south to Florida and west to into Texas, and is characterized by an open overstory of longleaf pine with occasional slash pine. The shrub layer is moderate to very dense with clumps of gallberry (*Ilex glabra*). The herbaceous layer is sparse and dominated by wiregrasses *(Aristida* spp.) or bluestem (*Andropogon* spp.). Prescribed fire is used every 2-3 years to maintain an open structure and reduce shrub density.
187	40	Thin	None	Longleaf pine/yaupon forest FB_0187_FCCS.xml	Xeric longleaf pine forests, occurring throughout the Southeast coastal plain from Virginia south to Florida and west into Texas on well-drained soils, with mechanical reduction of midstory oaks less than 1 year previously. Fire exclusion favors sand pine, turkey oaks and other scrubby oaks. Restoration efforts often include sand pine and oak reduction through thinning or herbicides and prescribed burning.
448 S	30	Thin/Rx burn	None	Pine forest 21-40 years forest fuelbed_448.xml	21 - 40 year old pine forests of the southern Atlantic coastal plain. Pines may be longleaf, slash or loblolly alone in or combination. Various oaks and other hardwoods may be present in the canopy.
282	30-80	None	None	Loblolly pine forest FB_0282_FCCS.xml	Loblolly pine-dominated forests occur throughout the Southeast coastal plain and Piedmont regions from Texas east and north to Virginia. Shortleaf pine, Virginia pine and longleaf pine may also be present in the canopy depending on geographic location within the region. Fuelbed represents stands from 30 to 80 years old.

Fuelbed number	Age class (yr)	Harvest/Fuel treatment	Change agent	Fuelbed name Fuelbed filename	Fuelbed description
178	10-15	None	None	Loblolly-shortleaf pine forest FB_0178_FCCS.xml	Dense, naturally regenerating, predominantly loblolly pine and shortleaf pine forest occurring throughout the interior of the southeastern coastal plain. Clearcut 10 to 15 years previously. Scattered slash pine and longleaf pine may be present, depending on geographic location. Various hardwood species may be co-dominant in the canopy.
FB_0157	45+	None	None	Loblolly pine -- shortleaf pine -- mixed hardwoods forest FB_0157_FCCS.xml	Maturing (45+ years old), second growth, predominantly loblolly and shortleaf pine forests occurring throughout the interior of the southeastern coastal plain. Scattered slash pine and longleaf pine possible, depending on geographic location. Various hardwood species are co-dominant in the canopy; with longer time since disturbance (fire, logging, etc.), hardwoods make up more of the canopy cover.
FB_0158	45+	None	Southern pine beetle	Loblolly pine -- shortleaf pine -- mixed hardwoods forest FB_0158_FCCS.xml	Maturing (45+ years old), second growth, predominantly loblolly and shortleaf pine forests occurring throughout the interior of the southeastern coastal plain. Scattered slash pine and longleaf pine possible, depending on geographic location. Various hardwood species are co-dominant in the canopy. Approximately 10-12 years after southern pine beetle infestation.

Fuelbed number	Age class (yr)	Harvest/Fuel treatment	Change agent	Fuelbed name Fuelbed filename	Fuelbed description
183	10-15	Thin	None	Loblolly-shortleaf pine forest FB_0183_FCCS.xml	10- to 15-year-old second growth forest, predominantly composed of loblolly and shortleaf pine, and occurring throughout the interior of the southeastern coastal plain. Scattered slash pine and longleaf pine may also be included, depending on geographic location. Various hardwood species may be co-dominant in the canopy. The dense, naturally-regenerating forest was precommercially thinned less than 1 year previously to reduce stocking. Thinning slash and shrubs are the primary fuels.
FB_0402	1-10	Clearcut	None	Pine / holly -- privet forest FB_0402_LF.xml	Recently logged timberland. Can occur throughout the eastern United States on sites managed for wood products. Established following clearcut harvest less than 10 years ago. Stand composed of open overstory with moderate shrub and herb cover.
114	40-80	Fire exclusion	None	Virginia pine-pitch pine-shortleaf pine forest FB_0114_FCCS.xml	Dry pine forest, typically dominated by a mixture of Virginia pine, pitch pine, and shortleaf pine. The deciduous tree component increases with fire exclusion. This forest type is found primarily on upper slopes and ridgetops of the southern Appalachian Mountains up to 2,500 feet in elevation. This forest type can occur on xeric soils in Alabama, Georgia, Indiana, Kentucky, North Carolina, Ohio, Pennsylvania, South Carolina, Tennessee, Virginia, and West Virginia. This fuelbed represents stands from 40 to 80 years old.
164	20-60	None	None	Sand pine forest FB_0164_FCCS.xml	Xeric sand pine scrub forests, 20 to 60 years old, occurring along the central ridge of Florida and coastal Alabama and Florida, with a relatively closed canopy dominated by sand pine with scrub oaks in the understory.

Fuelbed number	Age class (yr)	Harvest/Fuel treatment	Change agent	Fuelbed name Fuelbed filename	Fuelbed description
97 S	30	None	None	Hardwood forest 21-40 years fuelbed_97.xml	Mixed hardwood forests of the southern Atlantic coastal plain that are 21 to 40 years old.
180 S	35	Rx burn	None	Hardwood forest 21-40 years fuelbed_180.xml	Mixed hardwood forests of the southern Atlantic coastal plain that are 21 to 40 years old.
269	50	None	None	Sugar maple-yellow poplar-American beech-oak forest FB_0269_FCCS.xml	This fuelbed represents mixed mesophytic forests. Western variant is usually found at elevations from 1,000 to 3,000 feet in Tennessee, Kentucky, Ohio, Pennsylvania, West Virginia, Illinois, Indiana and Missouri. Eastern variant is usually found at elevations from 2,000 to 4,500 feet in protected sites of the southern Blue Ridge (North Carolina, South Carolina, Georgia, Tennessee, and Virginia), the Cumberland Mountains of Kentucky, and the Allegheny Plateau of West Virginia and Ohio. These forests have highly variable canopy composition; characteristic canopy dominants can include American beech, sugar maple, yellow poplar, oaks, basswood and buckeye.
FB_0406	50	None	None	American beech -- southern magnolia -- oak forest FB_0406_LF.xml	West Gulf Coastal Plain mesic hardwood forest. Mesic forests occurring in Louisiana, Texas and Arkansas. Stands are dominated by a mixture of American beech, southern magnolia, and oaks. Scattered pines may be present in the canopy. These forests generally occur in small stands on sites that are topographically protected from fire.
1190 S	60+	None	None	Hardwood forest 60+ years fuelbed_1190.xml	Mixed hardwood forests of the southern Atlantic coastal plain that are more than 60 years old.

Fuelbed number	Age class (yr)	Harvest/Fuel treatment	Change agent	Fuelbed name Fuelbed filename	Fuelbed description
90	50+	None	None	White oak-northern red oak forest FB_0090_FCCS.xml	White oak and northern red oak dominated forest in the Midwest. Occurs on dry-mesic sites with flat to rolling topography throughout the central and north-central eastern U.S. (generally at elevations below 1,100 feet). Other canopy components can include black hickory, shagbark hickory, maples, and other Midwest oaks such as bur oak and pin oak depending on geographic location. This fuelbed represents stands greater than 50 years old.
123	70+	Fire exclusion	None	White oak-northern red oak-black oak-hickory forest FB_0123_FCCS.xml	Found on dissected hills and valleys from about 300 to 600 feet in elevation. This fuelbed includes oak -- hickory forests in the central U.S. (Illinois, Missouri, Arkansas and surrounding areas) and in the east from Georgia into New Hampshire. These forests are second growth and fire has been excluded for at least 40 to 50 years. Fire exclusion favors establishment of red maple and reduces oak regeneration.
264	50+	Fire exclusion	None	Post-blackjack oak forest FB_0264_FCCS.xml	This fuelbed, commonly referred to as 'crosstimbers', is composed of post oak and blackjack oak in a broadleaf forest or woodland on rolling hills in central Texas through central Oklahoma and extending into southeastern Kansas. It varies from closed forest to open woodland with open prairie inclusions depending on soils and rainfall. Under fire exclusion, oak root sprouts, understory growth and vines can create ladder fuels. Long-term grazing causes annual grasses to increase. This fuelbed represents forests more than 50 years old.

Fuelbed number	Age class (yr)	Harvest/Fuel treatment	Change agent	Fuelbed name Fuelbed filename	Fuelbed description
275	50+	Fire exclusion	None	Chestnut-white-northern red oak forest FB_0275_FCCS.xml	Dry to dry-mesic oak-dominated forests occurring in the Appalachian Mountains on ridgetops and upper slopes, generally at elevations from 700 to 3,000 feet. This fuelbed type is most commonly found in North Carolina, South Carolina, Tennessee, Kentucky, Virginia, West Virginia, and New England and extends into Ohio, Pennsylvania, Alabama and Georgia. Similar forests can occur on dry soils throughout the range of chestnut oak. This fuelbed represents stands from 50 to 100 years old.
FB_0407	40+	Fire exclusion	None	Darlington oak forest FB_0407_LF.xml	Southern Coastal Plain dry upland hardwood forest. Occurs in the East Gulf Coastal Plain in Alabama, Florida, Georgia and Mississippi. Stands are typically dominated by Darlington oak, but may be dominated by white oak, post oak, or southern red oak. Scattered pines may be present in the canopy.
431	50+	None	None	Chinkapin oak-Shumard oak forest FB_0431_LF.xml	Oak dominated forest occurring on calcareous soils in the eastern Gulf Coastal Plain region. Chinkapin oak and Shumard's oak, often with other oak species, white ash, southern shagbark hickory, and maples dominate the canopy. The shrub and herbaceous layers are typically well-developed and diverse.
1154 S	30	None	None	Hardwood forest 21-40 years fuelbed_1154.xml	Mixed hardwood forests of the southern Atlantic coastal plain that are 21 to 40 years old and have had no recent management.
1395 S	40	None	None	Hardwood forest 41-60 years fuelbed_1395.xml	Mixed hardwood forests of the southern Atlantic coastal plain that are 41 to 60 years old and have had no recent management.

Fuelbed number	Age class (yr)	Harvest/Fuel treatment	Change agent	Fuelbed name Fuelbed filename	Fuelbed description
1660 S	100+	None	None	Hardwood forest 60+ years fuelbed_1660.xml	Mixed hardwood forests of the southern Atlantic coastal plain that are more than 60 years old and have had no recent management.
FB_0283	50+	None	None	Willow oak -- laurel oak -- water oak forest FB_0283_FCCS.xml	Oak dominated bottomland forests are common alluvial forest types throughout the southeastern and central United States. The canopy species composition varies with length of inundation and geographic region. This fuelbed represents stands between 25-70 years old.
425	75	None	None	Swamp tupelo-sweetbay magnolia forest FB_0425_LF.xml	Gulf Coastal Plain seepage swamp and baygall vegetation occurs throughout the Gulf Coastal Plain on acidic, seepage-influenced soils. Stands are dominated by a mixture of swamp tupelo and sweetbay magnolia. Other canopy and subcanopy trees include tulip poplar, sweetgum, oaks, hollies and maples. Scattered pines may be present in the canopy.
949 S	80+	None	None	Hardwood forest 60+ years fuelbed_949.xml	Mixed hardwood forests of the southern Atlantic coastal plain that are more than 60 years old and have had no recent management.
1494 S	72	Rx burn	None	Hardwood forest 60+ years fuelbed_1494.xml	Mixed hardwood forests of the southern Atlantic coastal plain that are more than 60 years old and have been prescribed burned recently.
1495 S	72	Rx burn	None	Hardwood forest 60+ years fuelbed_1495.xml	Mixed hardwood forests of the southern Atlantic coastal plain that are more than 60 years old and have been prescribed burned recently.

Fuelbed number	Age class (yr)	Harvest/Fuel treatment	Change agent	Fuelbed name Fuelbed filename	Fuelbed description
184	45	Fire exclusion	None	Longleaf pine/turkey oak forest FB_0184_FCCS.xml	Xeric longleaf pine -- turkey oak forests occurring throughout the Southeast coastal plain from Virginia south to Florida and west into Texas on well-drained soils, about 20 years after fire. Fire exclusion increases oak component and sand pine, slash pine, and loblolly pine. The typical lower canopy layer is dominated by turkey oak with other mixed oaks often including blue jack oak and sand live oak. Depending on geographic location, other oaks may occur as canopy associates.
185	45	Rx burn	None	Longleaf pine/turkey oak forest FB_0185_FCCS.xml	Xeric longleaf pine -- turkey oak forests occurring throughout the Southeast coastal plain from Virginia south to Florida and west into Texas on well-drained soils with a history of regular prescribed fire. This fuelbed represents a stand 1 to 2 years after prescribed fire.
FB_0186	50+	Fire exclusion	None	Turkey oak -- blue jack oak forest FB_0186_FCCS.xml	Oak scrub community developing in dry pine - oak forest regions throughout southeast coastal plain (similarly structured types occur in the midwest with different species assemblages) after long-term fire suppression or removal of overstory pine species or as an edaphic climax on xeric sites. Depending on the geographic location of the type, many oak species may occur, including blackjack (Q. marilandica), sand live oak, sand post oak, myrtle oak, Arkansas oak, post oak and live oak.
1623 S	9	None	None	Longleaf pine - scrub oak forest 5-20 years fuelbed_1623.xml	5 to 20 year old longleaf pine and mixed scrub oak forests of the southern Atlantic coastal plain. Typical oak species are turkey oak, dwarf post oak and blue jack oak.

Fuelbed number	Age class (yr)	Harvest/Fuel treatment	Change agent	Fuelbed name Fuelbed filename	Fuelbed description
120	70+	Fire exclusion	None	Oak-pine/mountain laurel forest FB_0120_FCCS.xml	Predominantly old-growth oak -- pine / mountain laurel forest throughout the Appalachian Mountains on ridges and slopes from 1,000 to 3,500 feet in elevation and characterized by a mixed oak and pine overstory with a very dense mountain laurel (*Kalmia latifolia*) shrub layer. This forest type, with a shortleaf pine component, also occurs in the Ouachita and Ozark mountains of the Midwest. Fire exclusion (50+ years) promotes dominance of oaks and other hardwoods.
121	70+	None	Southern pine beetle	Oak-pine/mountain laurel forest FB_0121_FCCS.xml	Predominantly old-growth oak -- pine / mountain laurel forest throughout the Appalachian Mountains on ridges and slopes from 1,000 to 3,500 feet in elevation and characterized by a mixed oak and pine overstory with a very dense mountain laurel shrub layer. The canopy pine component of this fuelbed has been reduced by southern pine beetle damage that occurred about 10 years previously.
283 M	50	None	None	Loblolly pine-willow-laurel-water oak forest FB_0283_FCCSu.xml	Oak-dominated bottomland forests are common alluvial forest types throughout the southeastern and central U.S. The canopy species composition varies with length of inundation and geographic region. This fuelbed represents stands from 25 to 70 years old.
6 S	75	None	None	Bald-cypress - Water tupelo forest fuelbed_6.xml	Cypress-tupelo swamp forest which occurs in very poorly drained areas of floodplains of the southern Atlantic coastal plain. This fuelbed represents stands that are fifty or more years old. This fuelbed type will only burn in very dry years.

Fuelbed number	Age class (yr)	Harvest/Fuel treatment	Change agent	Fuelbed name Fuelbed filename	Fuelbed description
288	100	None	None	Bald cypress-water tupelo forest FB_0288_FCCS.xml	Swamp forest dominated by bald cypress and water tupelo occurs in very poorly drained areas of floodplains throughout the Southeast coastal plain and throughout the Southeast U.S. This fuelbed represents stands from 70 to 150 years old. This fuelbed will burn only in very dry years because it is normally flooded for much of the year.
439	35	Rx burn	None	Pond cypress/swamp titi/maidencane savanna FB_0439_LF.xml	Carolina bay savannas are wetlands occurring primarily in the Atlantic Coastal Plain of North and South Carolina and Georgia. The bays have highly variable species composition and structure. This fuelbed represents grassland with an open canopy of pond cypress and scattered shrubs (the shrubs may also occur in an ecotonal zone around the grassland).
448	75	None	None	Bald cypress-tupelo/swamp titi forest FB_0448_LF.xml	Swamp forest dominated by bald cypress and water tupelo that occurs in very poorly drained areas of the mid-Atlantic Coastal Plain. The shrub layer in these swamps tends to be denser than in riverine swamps.
181	50-90	None	None	Pond pine forest FB_0181_FCCS.xml	Pond pine dominated woodland occurs in coastal areas of North Carolina and less frequently in Florida and South Carolina. This fuelbed represents 50- to 90-year old stands with somewhat open canopies.

Fuelbed number	Age class (yr)	Harvest/Fuel treatment	Change agent	Fuelbed name Fuelbed filename	Fuelbed description
170	20-60	None	None	Pond pine/gallberry-fetterbush shrubland FB_0170_FCCS.xml	High pocosin shrublands range from Virginia south to Florida on the coastal plain. High pocosin is an evergreen and deciduous shrub bog with emergent trees over a dense shrub understory on organic soils (peat) less than 5 feet deep. The canopy stratum is dominated by pond pine and loblolly bay. Age ranges from 20 to 60 years since fire.
168	20-60	None	None	Gallberry-fetterbush shrubland FB_0168_FCCS.xml	Low pocosins are an evergreen and deciduous shrub bog with a dense shrub stratum and a few emergent pond pines. Low pocosin is distinguished by organic soil (peat) depth of greater than 5 feet. The shrubs are from 5 to 10 feet tall. Low pocosin occurs on the coastal plain from Virginia to Florida but is mostly restricted to the outer coastal plain of North Carolina. Age ranges from 10 to 50 years since fire.
95 M	10	None	None	Willow shrubland FB_0095_FCCSu.xml	Willow shrubland. Found on floodplains and along streams, riverbanks, sand bars and other wet sites. Occurs throughout the Atlantic Coastal Plain from Virginia to Florida; the Interior Plateau region of Tennessee, Kentucky and Alabama; also occurs in Missouri and Arkansas.
276 S	25	None	None	Hardwood forest 21-40 years fuelbed_276.xml	Mixed hardwood forests of the southern Atlantic coastal plain that are 21 to 40 years old.
448 M	10+	None	None	Swamp titi shrubland FB_0448_LFu.xml	Shrubland dominated by evergreen species such as *Cyrilla racemiflora, Ilex coriacea, Ilex glabra, Persea borbonia* and *Morella* species. Occurs in poorly drained or seepage fed areas of the southeastern Atlantic and Gulf Coastal Plains.

Fuelbed number	Age class (yr)	Harvest/Fuel treatment	Change agent	Fuelbed name Fuelbed filename	Fuelbed description
410				Table Mountain pine-chestnut oak forest FB_0410_LF.xml	Southern Appalachian montane pine forest and woodland. Occurs in the southern Appalachian Mountains between 2,000 and 5,000 feet. Typically woodlands dominated by table mountain pine with or without pitch pine and Virginia pine. A dense ericaceous shrub stratum is usually present. The herb stratum is generally sparse.
1127 S	18	None	None	Pine forest 5-20 years fuelbed_1127.xml	5-20 year old pine forests of the southern Atlantic coastal plain. Pines may be longleaf, slash, or loblolly alone or in combination. Various oaks and hardwood species may occur in the canopy.
1386 S	2	Clearcut	None	Clearcut <5 fuelbed_1386.xml	Pine or pine-hardwood forests of the southern Atlantic coastal plain that were clearcut less than 5 years ago. Pine species are longleaf, slash or loblolly, alone or combination. Various oak species or other hardwoods may co-dominate the canopy.
1262	1	Graze	None	Pasture or grass field FB_1262_AG.xml	Pasture or grass crop field. Fuelbed represents grazed pasture or mown grass field.
203 M	10+	None	None	Beaksedge-panicgrass grassland FB_0203_FCCSu.xml	Herbaceous wetlands that occur in isolated depressions throughout much of the Atlantic and Gulf Coastal Plain. Species composition varies throughout the area; the species included in this fuelbed are typical of depressions in southern Georgia.
1280		Mow	None	Bluegrass or grass seed field FB_1280_AG.xml	Sod or lawn grass seed crop field. Fuelbed represents mown sod or post-harvest grass seed field with crop residue.

Fire Behavior Outputs

Fuelbeds were calculated in FCCS version 3.0 using 27 combinations of moisture scenarios, midflame wind speeds and slope gradients (Table 6) to provide results at a wide range of potential wildfire conditions. Outputs from the calculations (Sandberg et al. 2007a; Sandberg et al. 2007b) were summarized in a data table for each pathway and include (1) the surface fire behavior outputs rate of spread (ft/min), flame length (ft) and reaction intensity (BTU/ft^2/min); (2) FCCS crown fire, surface fire and available fuel potentials (each is an index from 0-9) and (3) suggested crosswalks to the original Fire Behavior Prediction System (Rothermel 1972; Albini 1976) and standard fuel models (Scott and Burgan 2005).

Table 6: Environmental scenarios and descriptions. Moisture scenarios include very dry (1hr = 3%, 10hr = 4%, 100hr = 5%, Herb = 30%, Shrub = 60%), dry (1hr = 6%, 10hr = 7%, 100hr = 8%, Herb = 60%, Shrub = 90%), and moist (1hr = 12%, 10hr = 13%, 100hr = 14%, Herb = 60%, Shrub = 90%).

Scenario #	**Fuel moisture scenario**	**Midflame wind speed** (mph)	**Slope gradient** (%)
1	Very dry	0	0
2	Dry	0	0
3	Moist	0	0
4	Very dry	3	0
5	Dry	3	0
6	Moist	3	0
7	Very dry	7	0
8	Dry	7	0
9	Moist	7	0
10	Very dry	0	15
11	Dry	0	15
12	Moist	0	15
13	Very dry	3	15
14	Dry	3	15
15	Moist	3	15
16	Very dry	7	15
17	Dry	7	15
18	Moist	7	15
19	Very dry	0	30
20	Dry	0	30
21	Moist	0	30
22	Very dry	3	30
23	Dry	3	30
24	Moist	3	30
25	Very dry	7	30
26	Dry	7	30
27	Moist	7	30

The FCCS surface fire behavior predictions are based on a modified version of the Rothermel fire spread model that uses FCCS surface fuel characteristics (Sandberg et al. 2007a). They include:

1) Rate of spread (ft min^{-1}), defined as the predicted rate of spread of the flaming front of a surface fire under an input environmental scenario,
2) Flame length (ft), generally defined as the distance from the ground to flame tip,
3) Reaction intensity (BTU ft^{-2} min^{-1}), defined as the rate of heat release per area of the flaming front of a surface fire, expressed as heat energy per area per time.

The FCCS fire potentials are defined as indexed values (0-9) that rate the intrinsic physical capacity of a wildland fuelbed to release energy, spread, crown, consume, and smolder under benchmark dry fuel conditions, 4 mph wind speeds, and flat ground (Prichard et al. 2013). The three fire potentials can be used to compare the potential fire behavior among fuelbeds. For example, an FCCS fire potential of 469 represents a fuelbed with a modest surface fire potential, above-average crown fire potential, and extreme potential for biomass consumption (Sandberg et al. 2007a). Comparing a FCCS potential of 469 to a FCCS potential of 222 would indicate that the second fuelbed is predicted to have lower surface fire potential, much lower potential for crown fire and also much lower potential for biomass consumption than the first fuelbed.

- **Surface fire behavior potential** is a relative index (0-9) based on the potential maximum flame length or rate of spread. Predicted surface fire behavior is influenced by the loading, flammability, fuel moisture, and arrangement of surface fuels, including shrubs, herbaceous vegetation, fine woody fuels (< 3 inches in diameter) and litter.

- **Crown fire potential** is a relative index based on a weighted average of three crown fire subpotentials, including:
  - Crown fire initiation potential – an index (0-9) of the likelihood a surface fire will reach individual tree crowns,
  - Crown-to-crown transmissivity potential – an index (0-9) of the likelihood that a crown fire will spread through forest canopies, and
  - Crown fire spreading potential - an index (0-9) of the rate of crown fire spread.

- **Available fuel potential** represents the relative amount of combustible biomass available during the flaming, smoldering, and residual combustion stages. The available fuel potential tends to be highest in fuelbeds with high total biomass. However, a fuelbed with higher loading of finer fuels might have a higher available fuel potential than a fuelbed with higher loading of

coarse fuels, because the fine fuels are more likely to be consumed. The three subpotentials (flaming, smoldering and residual smoldering) are scaled to 10 tons/acre (tpa).

The fuelbeds described in this document are included as project deliverables and can be input into the FCCS, allowing additional outputs not included in the results tables presented here to be calculated. Additional outputs include fuel loading, total carbon, and summaries of fuel characteristics by stratum.

Table 7. FCCS fire behavior predictions for managed loblolly pine fuelbeds. Windspeed = input midflame wind speed (mph), Slope = input slope gradient. Surface fire behavior outputs include reaction intensity (BTU $ft^{-2}min^{-1}$), flame length (ft), and rate of spread (ft min^{-1}). The 3-digit FCCS fire potential code is a combined index (0-9) of surface fire behavior, crown fire behavior, and available fuel potentials. Suggested crosswalks to the original 13 fire behavior fuel models (Rothermel 1972, Albini 1976) and standard 40 fire behavior fuel models (Scott and Burgan 2005) are also included. To convert rate of spread to ch/hr multiply ft/min by 0.9091.

		FCCS Fire Behavior Predictions Managed Loblolly Pine Forests of the Southern United States																										
		D4L4C1 Moisture Scenario									**D2L2C3 Moisture Scenario**									**D1L1C4 Moisture Scenario**								
	Windspeed mph	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7
	Slope %	00	00	00	15	15	15	30	30	30	00	00	00	15	15	15	30	30	30	00	00	00	15	15	15	30	30	30
FB_0066	Rate of Spread (ft/min)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	6.2	15.8	3.7	7.0	16.1	6.3	9.7	18.1	3.9	8.3	20.1	5.0	9.5	21.0	8.6	13.0	24.5
	Flame Length (ft)	2.9	4.2	6.2	3.3	4.4	6.4	4.2	5.1	6.8	3.7	5.2	8.0	4.1	5.5	8.1	5.3	6.4	8.6	4.5	6.4	9.6	5.1	6.8	9.8	6.5	7.9	10.5
	Reaction Intensity (1,000 BTU/ft^2/min)	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5
	FCCS Fire Potentials	653	653	653	653	653	653	653	653	653	653	653	653	653	653	653	653	653	653	653	653	653	653	653	653	653	653	653
	Crosswalk – FBPS FMs	9	10	12	9	10	12	10	10	12	9	10	13	10	10	13	10	12	13	10	12	13	10	12	13	12	12	13
	Crosswalk – Standard FMs	189	162	202	189	162	202	162	165	203	189	165	202	162	165	202	165	203	203	162	203	203	165	203	203	203	203	203
FB_0128	Rate of Spread (ft/min)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	5.9	13.8	3.7	6.8	14.7	6.3	9.4	17.3	3.9	8.0	18.6	5.0	9.2	19.8	8.6	12.7	23.3
	Flame Length (ft)	2.9	4.1	6.0	3.3	4.3	6.2	4.2	5.0	6.6	3.6	5.1	7.5	4.1	5.4	7.7	5.2	6.3	8.3	4.5	6.2	9.2	5.0	6.6	9.5	6.4	7.7	10.2
	Reaction Intensity (1,000 BTU/ft^2/min)	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4
	FCCS Fire Potentials	653	653	653	653	653	653	653	653	653	653	653	653	653	653	653	653	653	653	653	653	653	653	653	653	653	653	653
	Crosswalk – FBPS FMs	9	10	10	9	10	12	10	10	12	9	10	12	10	10	12	10	12	13	10	12	13	10	12	13	12	12	13
	Crosswalk – Standard FMs	189	161	163	189	162	202	162	165	203	189	165	203	161	165	203	165	202	202	162	202	203	165	203	203	203	203	203

		FCCS Fire Behavior Predictions Managed Loblolly Pine Forests of the Southern United States																											
		D4L4C1 Moisture Scenario									D2L2C3 Moisture Scenario									D1L1C4 Moisture Scenario									
	Windspeed mph	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7
	Slope %	00	00	00	15	15	15	30	30	30	00	00	00	15	15	15	30	30	30	00	00	00	15	15	15	30	30	30
FB_0142	Rate of Spread (ft/min)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	7.2	16.6	4.6	8.3	17.7	7.8	11.5	20.9	4.8	9.7	22.4	6.2	11.2	23.9	10.5	15.5	28.2
	Flame Length (ft)	3.3	4.6	6.8	3.8	4.9	7.0	4.8	5.7	7.6	4.1	5.8	8.5	4.7	6.1	8.7	6.0	7.1	9.4	5.1	7.1	10.4	5.8	7.6	10.7	7.4	8.8	11.6
	Reaction Intensity (1,000 BTU/ft²/min)	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5
	FCCS Fire Potentials	643	643	643	643	643	643	643	643	643	643	643	643	643	643	643	643	643	643	643	643	643	643	643	643	643	643	643
	Crosswalk – FBPS FMs	9	10	12	9	10	12	10	10	12	10	10	13	10	12	13	10	12	13	10	12	13	10	12	13	12	13	13
	Crosswalk – Standard FMs	189	162	203	189	165	203	165	165	203	162	165	203	162	202	203	165	203	203	165	203	203	165	203	203	203	203	203
FB_0167	Rate of Spread (ft/min)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	5.8	13.6	3.6	6.6	14.5	6.1	9.2	17.0	3.7	7.8	18.4	4.8	9.0	19.5	8.2	12.4	22.9
	Flame Length (ft)	2.8	4.0	5.9	3.2	4.3	6.1	4.1	4.9	6.6	3.6	5.0	7.4	4.0	5.3	7.6	5.1	6.2	8.2	4.4	6.1	9.1	4.9	6.5	9.4	6.3	7.6	10.1
	Reaction Intensity (1,000 BTU/ft²/min)	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4
	FCCS Fire Potentials	553	553	553	553	553	553	553	553	553	553	553	553	553	553	553	553	553	553	553	553	553	553	553	553	553	553	553
	Crosswalk – FBPS FMs	9	10	10	9	10	12	10	10	12	9	10	12	10	10	12	10	12	13	10	12	13	10	12	13	12	12	13
	Crosswalk – Standard FMs	189	161	163	189	162	202	161	165	203	189	165	203	161	165	203	165	202	202	162	202	203	165	203	203	202	203	203

		FCCS Fire Behavior Predictions Managed Loblolly Pine Forests of the Southern United States																										
		D4L4C1 Moisture Scenario									D2L2C3 Moisture Scenario									D1L1C4 Moisture Scenario								
	Windspeed mph	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7
	Slope %	00	00	00	15	15	15	30	30	30	00	00	00	15	15	15	30	30	30	00	00	00	15	15	15	30	30	30
FB_0177	Rate of Spread (ft/min)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	6.4	20.5	2.4	6.7	20.8	4.1	7.6	21.7	2.5	8.1	26.0	3.2	8.5	26.3	5.5	9.7	27.5
	Flame Length (ft)	2.2	3.8	6.5	2.5	3.9	6.5	3.2	4.1	6.7	2.8	5.0	8.6	3.2	5.1	8.6	4.1	5.4	8.8	3.4	5.9	10.1	3.9	6.1	10.2	5.0	6.4	10.4
	Reaction Intensity (1,000 BTU/ft²/min)	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8
	FCCS Fire Potentials	653	653	653	653	653	653	653	653	653	653	653	653	653	653	653	653	653	653	653	653	653	653	653	653	653	653	653
	Crosswalk – FBPS FMs	9	9	12	9	9	12	9	10	12	9	10	13	9	10	13	10	10	13	9	10	13	9	12	13	10	12	13
	Crosswalk – Standard FMs	185	189	203	188	189	203	189	162	203	189	165	203	189	165	203	161	165	203	189	165	203	189	202	203	165	203	203
FB_0194	Rate of Spread (ft/min)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	4.9	13.9	3.0	5.6	14.2	5.1	7.7	14.8	3.1	6.6	17.6	4.0	7.5	17.9	6.9	10.4	19.3
	Flame Length (ft)	2.5	3.5	5.6	2.8	3.8	5.6	3.6	4.4	5.8	3.1	4.4	7.2	3.5	4.7	7.2	4.5	5.4	7.4	3.8	5.4	8.5	4.3	5.8	8.6	5.5	6.7	8.9
	Reaction Intensity (1,000 BTU/ft²/min)	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4
	FCCS Fire Potentials	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543
	Crosswalk – FBPS FMs	9	9	10	9	9	10	9	10	10	9	10	12	9	10	12	10	10	12	9	10	13	10	10	13	10	12	13
	Crosswalk – Standard FMs	188	189	163	189	189	163	189	162	163	189	162	203	189	165	203	162	165	203	189	165	203	162	165	203	165	203	203

		FCCS Fire Behavior Predictions Managed Loblolly Pine Forests of the Southern United States																										
		D4L4C1 Moisture Scenario									D2L2C3 Moisture Scenario									D1L1C4 Moisture Scenario								
	Windspeed mph	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7
	Slope %	00	00	00	15	15	15	30	30	30	00	00	00	15	15	15	30	30	30	00	00	00	15	15	15	30	30	30
FB_0221	Rate of Spread (ft/min)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	3.7	11.5	1.5	3.9	11.7	2.5	4.4	12.2	1.6	4.6	14.5	2.0	4.9	14.7	3.4	5.6	15.4
	Flame Length (ft)	1.6	2.7	4.6	1.9	2.8	4.6	2.4	3.0	4.7	2.1	3.5	6.0	2.3	3.6	6.0	3.0	3.8	6.1	2.5	4.2	7.0	2.8	4.3	7.1	3.6	4.5	7.2
	Reaction Intensity (1,000 BTU/ft²/min)	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
	FCCS Fire Potentials	542	542	542	542	542	542	542	542	542	542	542	542	542	542	542	542	542	542	542	542	542	542	542	542	542	542	542
	Crosswalk – FBPS FMs	8	9	10	8	9	10	9	9	10	9	9	10	9	9	12	9	9	12	9	10	12	9	10	12	9	10	12
	Crosswalk – Standard FMs	188	188	164	188	188	164	185	189	165	183	189	163	185	189	202	189	189	202	188	162	203	189	162	203	189	162	203
FB_0248	Rate of Spread (ft/min)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	4.0	12.7	1.5	4.1	12.9	2.5	4.5	13.3	1.6	5.0	16.0	2.0	5.2	16.2	3.4	5.7	16.7
	Flame Length (ft)	1.6	2.7	4.5	1.8	2.7	4.6	2.3	2.8	4.6	2.0	3.5	5.9	2.2	3.5	6.0	2.8	3.7	6.1	2.4	4.1	7.0	2.7	4.2	7.0	3.5	4.4	7.2
	Reaction Intensity (1,000 BTU/ft²/min)	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
	FCCS Fire Potentials	544	544	544	544	544	544	544	544	544	544	544	544	544	544	544	544	544	544	544	544	544	544	544	544	544	544	544
	Crosswalk – FBPS FMs	8	9	10	8	9	10	9	9	10	8	9	10	9	9	10	9	9	12	9	10	12	9	10	12	9	10	12
	Crosswalk – Standard FMs	188	188	164	188	188	164	185	189	164	188	189	163	185	189	163	189	189	202	185	161	203	188	162	203	189	162	203

		FCCS Fire Behavior Predictions Managed Loblolly Pine Forests of the Southern United States																										
		D4L4C1 Moisture Scenario									D2L2C3 Moisture Scenario									D1L1C4 Moisture Scenario								
	Windspeed mph	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7
	Slope %	00	00	00	15	15	15	30	30	30	00	00	00	15	15	15	30	30	30	00	00	00	15	15	15	30	30	30
FB_0282	Rate of Spread (ft/min)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	6.2	16.3	3.7	7.0	16.7	6.3	9.6	18.1	3.9	8.3	20.6	5.0	9.5	21.1	8.6	13.0	24.4
	Flame Length (ft)	2.8	4.0	6.1	3.2	4.3	6.1	4.1	4.9	6.6	3.5	5.0	7.8	4.0	5.3	7.9	5.1	6.1	8.2	4.3	6.1	9.3	4.9	6.5	9.4	6.2	7.5	10.1
	Reaction Intensity (1,000 BTU/ft²/min)	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
	FCCS Fire Potentials	642	642	642	642	642	642	642	642	642	642	642	642	642	642	642	642	642	642	642	642	642	642	642	642	642	642	642
	Crosswalk – FBPS FMs	9	10	12	9	10	12	10	10	12	9	10	12	9	10	12	10	12	13	10	12	13	10	12	13	12	12	13
	Crosswalk – Standard FMs	189	161	202	189	162	202	161	165	203	189	165	203	189	165	203	165	202	202	162	202	203	165	203	203	202	203	203
FB_0336	Rate of Spread (ft/min)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	3.0	7.5	1.8	3.4	7.6	3.0	4.6	8.7	1.9	4.0	9.5	2.4	4.6	10.0	4.1	6.3	11.7
	Flame Length (ft)	2.0	2.8	4.2	2.2	3.0	4.3	2.9	3.5	4.6	2.5	3.6	5.5	2.8	3.8	5.5	3.6	4.4	5.8	3.1	4.4	6.5	3.5	4.6	6.7	4.4	5.4	7.2
	Reaction Intensity (1,000 BTU/ft²/min)	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
	FCCS Fire Potentials	422	422	422	422	422	422	422	422	422	422	422	422	422	422	422	422	422	422	422	422	422	422	422	422	422	422	422
	Crosswalk – FBPS FMs	8	9	10	9	9	10	9	9	10	9	9	10	9	9	10	9	10	10	9	10	12	9	10	12	10	10	12
	Crosswalk – Standard FMs	188	189	162	185	189	162	189	189	162	188	189	165	189	189	165	189	162	163	189	162	203	189	162	203	162	165	203

		FCCS Fire Behavior Predictions Managed Loblolly Pine Forests of the Southern United States																										
		D4L4C1 Moisture Scenario									D2L2C3 Moisture Scenario									D1L1C4 Moisture Scenario								
	Windspeed mph	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7
	Slope %	00	00	00	15	15	15	30	30	30	00	00	00	15	15	15	30	30	30	00	00	00	15	15	15	30	30	30
FB_0572	Rate of Spread (ft/min)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	6.1	15.8	3.8	7.0	16.1	6.5	9.7	17.8	4.0	8.3	20.3	5.2	9.5	20.6	8.8	13.1	24.1
	Flame Length (ft)	3.1	4.3	6.4	3.5	4.6	6.5	4.4	5.3	7.0	3.8	5.4	8.3	4.3	5.7	8.4	5.5	6.6	8.8	4.7	6.6	10.0	5.3	7.0	10.1	6.8	8.2	10.8
	Reaction Intensity (1,000 BTU/ft²/min)	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8
	FCCS Fire Potentials	657	657	657	657	657	657	657	657	657	657	657	657	657	657	657	657	657	657	657	657	657	657	657	657	657	657	657
	Crosswalk – FBPS FMs	9	10	12	9	10	12	10	10	12	9	10	13	10	10	13	10	12	13	10	12	13	10	12	13	12	13	13
	Crosswalk – Standard FMs	189	162	203	189	162	203	162	165	203	189	165	202	162	165	203	165	203	203	165	203	203	165	203	203	203	202	203
FB_0598	Rate of Spread (ft/min)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	5.7	13.1	3.7	6.6	14.0	6.3	9.2	16.6	3.9	7.8	17.7	5.0	8.9	18.9	8.6	12.4	22.4
	Flame Length (ft)	2.9	4.0	5.9	3.3	4.3	6.0	4.2	5.0	6.5	3.6	5.0	7.3	4.1	5.3	7.5	5.2	6.2	8.1	4.5	6.1	9.0	5.0	6.5	9.2	6.4	7.6	10.0
	Reaction Intensity (1,000 BTU/ft²/min)	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9
	FCCS Fire Potentials	554	554	554	554	554	554	554	554	554	554	554	554	554	554	554	554	554	554	554	554	554	554	554	554	554	554	554
	Crosswalk – FBPS FMs	9	10	10	9	10	12	10	10	12	9	10	12	10	10	12	10	12	13	10	12	13	10	12	13	12	12	13
	Crosswalk – Standard FMs	189	161	163	189	162	202	162	165	203	189	165	203	161	165	203	165	202	202	162	202	203	165	203	203	203	203	203

		FCCS Fire Behavior Predictions Managed Loblolly Pine Forests of the Southern United States																										
		D4L4C1 Moisture Scenario									D2L2C3 Moisture Scenario									D1L1C4 Moisture Scenario								
	Windspeed mph	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7
	Slope %	00	00	00	15	15	15	30	30	30	00	00	00	15	15	15	30	30	30	00	00	00	15	15	15	30	30	30
FB_0688	Rate of Spread (ft/min)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	4.7	11.3	3.0	5.4	11.6	5.1	7.5	13.6	3.1	6.3	14.6	4.0	7.3	15.6	6.9	10.1	18.4
	Flame Length (ft)	2.5	3.5	5.1	2.8	3.7	5.2	3.6	4.3	5.7	3.1	4.3	6.5	3.5	4.6	6.5	4.5	5.3	7.0	3.8	5.3	7.8	4.3	5.7	8.0	5.5	6.6	8.7
	Reaction Intensity (1,000 BTU/ft²/min)	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2
	FCCS Fire Potentials	544	544	544	544	544	544	544	544	544	544	544	544	544	544	544	544	544	544	544	544	544	544	544	544	544	544	544
	Crosswalk – FBPS FMs	9	9	10	9	9	10	9	10	10	9	10	12	9	10	12	10	10	12	9	10	12	10	10	13	10	12	13
	Crosswalk – Standard FMs	185	189	165	189	189	165	189	162	163	189	162	203	189	162	203	162	165	203	189	165	203	162	165	202	165	203	203
FB_0728	Rate of Spread (ft/min)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	2.1	6.7	1.1	2.2	6.7	1.8	2.8	7.0	1.2	2.7	8.5	1.5	2.8	8.6	2.5	3.7	9.0
	Flame Length (ft)	0.7	1.0	1.7	0.8	1.1	1.7	1.0	1.2	1.7	0.9	1.4	2.3	1.0	1.4	2.3	1.3	1.6	2.4	1.1	1.6	2.8	1.3	1.7	2.8	1.6	1.9	2.9
	Reaction Intensity (1,000 BTU/ft²/min)	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
	FCCS Fire Potentials	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300
	Crosswalk – FBPS FMs	8	8	8	8	8	8	8	8	8	8	8	9	8	8	9	8	8	9	8	8	11	8	8	11	8	8	11
	Crosswalk – Standard FMs	183	184	186	183	184	186	184	161	186	183	161	186	184	161	186	187	186	186	187	186	201	187	186	201	186	186	201

		FCCS Fire Behavior Predictions Managed Loblolly Pine Forests of the Southern United States																										
		D4L4C1 Moisture Scenario									D2L2C3 Moisture Scenario									D1L1C4 Moisture Scenario								
	Windspeed mph	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7
	Slope %	00	00	00	15	15	15	30	30	30	00	00	00	15	15	15	30	30	30	00	00	00	15	15	15	30	30	30
FB_0753	Rate of Spread (ft/min)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	7.4	16.7	4.8	8.5	17.7	7.9	11.5	20.8	5.2	10.0	22.5	6.5	11.4	23.9	10.7	15.6	28.1
	Flame Length (ft)	3.0	4.1	6.0	3.4	4.4	6.1	4.2	5.0	6.6	3.8	5.1	7.4	4.2	5.4	7.6	5.2	6.2	8.2	4.7	6.3	9.2	5.2	6.7	9.5	6.5	7.8	10.2
	Reaction Intensity (1,000 BTU/ft²/min)	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
	FCCS Fire Potentials	603	603	603	603	603	603	603	603	603	603	603	603	603	603	603	603	603	603	603	603	603	603	603	603	603	603	603
	Crosswalk – FBPS FMs	9	10	10	9	10	12	10	10	12	9	10	12	10	10	12	10	12	13	10	12	13	10	12	13	12	12	13
	Crosswalk – Standard FMs	189	161	163	189	162	202	162	165	203	189	165	203	162	163	203	165	202	202	162	202	203	165	203	203	203	203	203
FB_0769	Rate of Spread (ft/min)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	4.1	11.8	1.8	4.4	12.1	3.0	5.3	13.0	1.9	5.3	15.1	2.4	5.7	15.5	4.1	6.9	16.7
	Flame Length (ft)	1.6	2.6	4.2	1.8	2.7	4.3	2.4	2.9	4.4	2.0	3.4	5.5	2.3	3.5	5.6	2.9	3.8	5.7	2.5	4.0	6.5	2.8	4.2	6.6	3.6	4.5	6.8
	Reaction Intensity (1,000 BTU/ft²/min)	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
	FCCS Fire Potentials	544	544	544	544	544	544	544	544	544	544	544	544	544	544	544	544	544	544	544	544	544	544	544	544	544	544	544
	Crosswalk – FBPS FMs	8	9	10	8	9	10	9	9	10	9	9	10	9	9	10	9	9	10	9	10	12	9	10	12	9	10	12
	Crosswalk – Standard FMs	188	188	164	188	188	164	185	189	164	183	189	163	185	189	163	189	189	163	185	161	203	189	162	203	189	162	203

		FCCS Fire Behavior Predictions Managed Loblolly Pine Forests of the Southern United States																										
		D4L4C1 Moisture Scenario									D2L2C3 Moisture Scenario									D1L1C4 Moisture Scenario								
	Windspeed mph	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7
	Slope %	00	00	00	15	15	15	30	30	30	00	00	00	15	15	15	30	30	30	00	00	00	15	15	15	30	30	30
FB_0780	Rate of Spread (ft/min)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	4.7	10.9	3.0	5.4	11.6	5.1	7.5	13.7	3.1	6.4	14.7	4.0	7.3	15.7	6.9	10.1	18.5
	Flame Length (ft)	2.3	3.3	4.8	2.6	3.5	4.9	3.4	4.0	5.3	2.9	4.0	6.0	3.3	4.3	6.1	4.2	5.0	6.6	3.6	5.0	7.3	4.0	5.3	7.5	5.2	6.2	8.1
	Reaction Intensity (1,000 BTU/ft²/min)	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
	FCCS Fire Potentials	553	553	553	553	553	553	553	553	553	553	553	553	553	553	553	553	553	553	553	553	553	553	553	553	553	553	553
	Crosswalk – FBPS FMs	9	9	10	9	9	10	9	10	10	9	10	10	9	10	12	10	10	12	9	10	12	10	10	12	10	12	13
	Crosswalk – Standard FMs	185	189	165	188	189	165	189	161	163	189	161	163	189	162	202	162	165	203	189	165	203	161	165	203	165	202	202
FB_0836	Rate of Spread (ft/min)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	5.5	17.6	2.6	5.7	17.8	4.3	6.4	18.3	2.8	7.1	22.8	3.5	7.4	23.1	5.8	8.6	23.7
	Flame Length (ft)	2.3	3.2	5.5	2.5	3.3	5.5	3.2	3.8	5.6	2.9	4.6	7.8	3.2	4.6	7.8	4.1	4.9	7.9	3.6	5.5	9.4	4.0	5.6	9.4	5.0	6.0	9.5
	Reaction Intensity (1,000 BTU/ft²/min)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4
	FCCS Fire Potentials	645	645	645	645	645	645	645	645	645	645	645	645	645	645	645	645	645	645	645	645	645	645	645	645	645	645	645
	Crosswalk – FBPS FMs	9	9	10	9	9	10	9	9	10	9	10	12	9	10	12	10	10	12	9	10	13	9	10	13	10	10	13
	Crosswalk – Standard FMs	185	189	163	188	189	163	189	189	163	189	162	203	189	162	203	161	165	203	189	165	203	189	165	203	165	163	203

		FCCS Fire Behavior Predictions Managed Loblolly Pine Forests of the Southern United States																										
		D4L4C1 Moisture Scenario									D2L2C3 Moisture Scenario										D1L1C4 Moisture Scenario								
	Windspeed mph	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7
	Slope %	00	00	00	15	15	15	30	30	30	00	00	00	15	15	15	30	30	30	00	00	00	15	15	15	30	30	30
FB_0893	Rate of Spread (ft/min)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	4.9	12.5	3.0	5.6	12.7	5.1	7.7	14.4	3.1	6.6	16.1	4.0	7.6	16.6	6.9	10.4	19.5
	Flame Length (ft)	2.6	3.7	5.4	2.9	3.9	5.6	3.7	4.5	6.0	3.2	4.6	7.0	3.6	4.9	7.1	4.6	5.6	7.5	4.0	5.6	8.5	4.5	6.0	8.6	5.7	6.9	9.2
	Reaction Intensity (1,000 BTU/ft²/min)	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
	FCCS Fire Potentials	544	544	544	544	544	544	544	544	544	544	544	544	544	544	544	544	544	544	544	544	544	544	544	544	544	544	544
	Crosswalk – FBPS FMs	9	9	10	9	9	10	9	10	12	9	10	12	9	10	12	10	10	12	9	10	13	10	10	13	10	12	13
	Crosswalk – Standard FMs	188	189	163	189	189	163	189	162	202	189	162	203	189	165	203	162	165	203	189	165	203	162	165	203	165	203	203
FB_1008	Rate of Spread (ft/min)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	4.8	10.7	3.1	5.4	11.3	5.1	7.4	13.3	3.3	6.4	14.4	4.2	7.3	15.3	6.9	10.0	18.0
	Flame Length (ft)	1.6	2.2	3.2	1.8	2.4	3.3	2.3	2.7	3.6	2.0	2.8	4.0	2.3	2.9	4.1	2.8	3.4	4.4	2.5	3.4	5.0	2.8	3.7	5.1	3.6	4.2	5.5
	Reaction Intensity (1,000 BTU/ft²/min)	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
	FCCS Fire Potentials	532	532	532	532	532	532	532	532	532	532	532	532	532	532	532	532	532	532	532	532	532	532	532	532	532	532	532
	Crosswalk – FBPS FMs	8	9	9	8	9	9	9	9	9	9	9	10	9	9	10	9	9	6	9	9	10	9	9	10	9	10	6
	Crosswalk – Standard FMs	188	186	164	186	186	164	186	188	164	183	188	162	185	189	164	189	189	142	188	189	163	189	189	163	189	164	144

		FCCS Fire Behavior Predictions Managed Loblolly Pine Forests of the Southern United States																											
		D4L4C1 Moisture Scenario									D2L2C3 Moisture Scenario									D1L1C4 Moisture Scenario									
	Windspeed mph	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7
	Slope %	00	00	00	15	15	15	30	30	30	00	00	00	15	15	15	30	30	30	00	00	00	15	15	15	30	30	30
FB_1229	Rate of Spread (ft/min)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	5.5	12.4	3.5	6.2	13.1	5.7	8.4	15.3	3.7	7.4	16.7	4.7	8.4	17.7	7.7	11.3	20.7
	Flame Length (ft)	2.2	3.0	4.4	2.5	3.2	4.5	3.1	3.7	4.8	2.7	3.8	5.5	3.1	4.0	5.6	3.8	4.6	6.0	3.4	4.7	6.8	3.8	5.0	7.0	4.8	5.7	7.5
	Reaction Intensity (1,000 BTU/ft²/min)	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
	FCCS Fire Potentials	532	532	532	532	532	532	532	532	532	532	532	532	532	532	532	532	532	532	532	532	532	532	532	532	532	532	532
	Crosswalk – FBPS FMs	9	9	10	9	9	10	9	9	10	9	9	10	9	9	10	9	10	12	9	10	12	9	10	12	10	10	12
	Crosswalk – Standard FMs	185	189	164	185	189	164	189	189	163	188	189	163	189	189	163	189	164	202	189	162	203	189	165	203	165	163	203
FB_1258	Rate of Spread (ft/min)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	3.8	12.1	1.5	4.0	12.3	2.5	4.5	12.8	1.6	4.8	15.2	2.0	5.0	15.5	3.4	5.6	16.1
	Flame Length (ft)	1.6	2.7	4.6	1.8	2.7	4.6	2.3	2.9	4.7	2.0	3.4	5.9	2.3	3.5	5.9	2.9	3.7	6.0	2.4	4.1	7.0	2.7	4.2	7.0	3.5	4.4	7.1
	Reaction Intensity (1,000 BTU/ft²/min)	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3
	FCCS Fire Potentials	532	532	532	532	532	532	532	532	532	532	532	532	532	532	532	532	532	532	532	532	532	532	532	532	532	532	532
	Crosswalk – FBPS FMs	8	9	10	8	9	10	9	9	10	8	9	10	9	9	10	9	9	12	9	10	12	9	10	12	9	10	12
	Crosswalk – Standard FMs	188	188	164	188	188	164	185	189	164	188	189	163	185	189	163	189	189	202	185	161	203	188	162	203	189	162	203

		FCCS Fire Behavior Predictions Managed Loblolly Pine Forests of the Southern United States																										
		D4L4C1 Moisture Scenario									D2L2C3 Moisture Scenario									D1L1C4 Moisture Scenario								
	Windspeed mph	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7
	Slope %	00	00	00	15	15	15	30	30	30	00	00	00	15	15	15	30	30	30	00	00	00	15	15	15	30	30	30
FB_1276	Rate of Spread (ft/min)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	4.0	12.5	2.4	4.5	12.6	4.1	6.2	13.2	2.5	5.4	15.7	3.2	6.1	15.9	5.5	8.4	16.6
	Flame Length (ft)	2.1	3.0	4.8	2.3	3.1	4.8	3.0	3.6	4.9	2.6	3.7	6.2	2.9	3.9	6.3	3.7	4.5	6.4	3.2	4.5	7.4	3.6	4.8	7.5	4.6	5.6	7.6
	Reaction Intensity (1,000 BTU/ft²/min)	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3
	FCCS Fire Potentials	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543
	Crosswalk – FBPS FMs	9	9	10	9	9	10	9	9	10	9	9	12	9	9	12	9	10	12	9	10	12	9	10	12	10	10	12
	Crosswalk – Standard FMs	183	189	165	185	189	163	189	189	163	188	189	202	189	189	202	189	162	203	189	162	203	189	165	203	162	165	203
FB_1344	Rate of Spread (ft/min)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	6.2	17.1	3.7	7.1	17.4	6.4	9.7	18.3	3.9	8.4	21.9	5.1	9.6	22.2	8.6	13.1	24.6
	Flame Length (ft)	2.9	4.1	6.3	3.3	4.4	6.3	4.2	5.0	6.7	3.6	5.1	8.2	4.1	5.5	8.2	5.2	6.3	8.4	4.4	6.3	9.8	5.0	6.7	9.9	6.4	7.8	10.4
	Reaction Intensity (1,000 BTU/ft²/min)	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3
	FCCS Fire Potentials	655	655	655	655	655	655	655	655	655	655	655	655	655	655	655	655	655	655	655	655	655	655	655	655	655	655	655
	Crosswalk – FBPS FMs	9	10	12	9	10	12	10	10	12	9	10	13	10	10	13	10	12	13	10	12	13	10	12	13	12	12	13
	Crosswalk – Standard FMs	189	161	202	189	162	202	162	165	203	189	165	202	161	165	202	165	202	203	162	202	203	165	203	203	203	203	203

		FCCS Fire Behavior Predictions Managed Loblolly Pine Forests of the Southern United States																										
		D4L4C1 Moisture Scenario									D2L2C3 Moisture Scenario										D1L1C4 Moisture Scenario								
	Windspeed mph	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7
	Slope %	00	00	00	15	15	15	30	30	30	00	00	00	15	15	15	30	30	30	00	00	00	15	15	15	30	30	30
FB_1434	Rate of Spread (ft/min)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	6.1	18.5	3.7	6.9	18.8	6.3	9.5	19.8	3.9	8.2	23.3	5.0	9.3	23.7	8.6	12.9	24.9
	Flame Length (ft)	3.1	4.4	7.0	3.5	4.6	7.1	4.5	5.4	7.3	3.9	5.5	9.2	4.4	5.8	9.2	5.6	6.7	9.4	4.8	6.7	10.9	5.4	7.1	10.9	6.8	8.3	11.2
	Reaction Intensity (1,000 BTU/ft²/min)	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6
	FCCS Fire Potentials	634	634	634	634	634	634	634	634	634	634	634	634	634	634	634	634	634	634	634	634	634	634	634	634	634	634	634
	Crosswalk – FBPS FMs	9	10	12	9	10	12	10	10	12	9	10	13	10	10	13	10	12	13	10	12	13	10	12	13	12	13	13
	Crosswalk – Standard FMs	189	162	203	189	162	203	162	165	203	189	165	203	162	165	203	165	203	203	165	203	203	165	203	203	203	202	203
FB_1439	Rate of Spread (ft/min)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	4.2	13.1	2.1	4.4	13.3	3.6	5.4	14.0	2.2	5.3	16.6	2.8	5.6	16.9	4.8	7.2	17.8
	Flame Length (ft)	2.1	3.2	5.4	2.4	3.3	5.5	3.1	3.7	5.6	2.7	4.1	7.0	3.0	4.2	7.1	3.9	4.7	7.2	3.3	5.0	8.4	3.7	5.1	8.4	4.7	5.7	8.6
	Reaction Intensity (1,000 BTU/ft²/min)	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1
	FCCS Fire Potentials	542	542	542	542	542	542	542	542	542	542	542	542	542	542	542	542	542	542	542	542	542	542	542	542	542	542	542
	Crosswalk – FBPS FMs	9	9	10	9	9	10	9	9	10	9	10	12	9	10	12	9	10	12	9	10	13	9	10	13	10	10	13
	Crosswalk – Standard FMs	183	189	163	185	189	163	189	189	163	188	162	203	189	162	203	189	162	203	189	165	203	189	165	203	165	165	203

		FCCS Fire Behavior Predictions Managed Loblolly Pine Forests of the Southern United States																										
		D4L4C1 Moisture Scenario									D2L2C3 Moisture Scenario									D1L1C4 Moisture Scenario								
	Windspeed mph	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7
	Slope %	00	00	00	15	15	15	30	30	30	00	00	00	15	15	15	30	30	30	00	00	00	15	15	15	30	30	30
FB_1502	Rate of Spread (ft/min)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	3.5	11.3	0.9	3.6	11.4	1.5	3.9	11.8	0.9	4.4	14.1	1.2	4.5	14.3	2.1	4.9	14.7
	Flame Length (ft)	1.2	2.5	4.2	1.4	2.5	4.2	1.7	2.6	4.3	1.5	3.2	5.5	1.7	3.2	5.5	2.2	3.4	5.6	1.8	3.8	6.4	2.1	3.8	6.5	2.7	4.0	6.6
	Reaction Intensity (1,000 BTU/ft²/min)	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
	FCCS Fire Potentials	532	532	532	532	532	532	532	532	532	532	532	532	532	532	532	532	532	532	532	532	532	532	532	532	532	532	532
	Crosswalk – FBPS FMs	8	9	10	8	9	10	8	9	10	8	9	10	8	9	10	9	9	10	8	9	12	9	9	12	9	9	12
	Crosswalk – Standard FMs	187	185	164	187	185	164	188	188	164	188	189	163	188	189	163	183	189	163	188	189	203	183	189	203	188	189	203
FB_1575	Rate of Spread (ft/min)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	5.8	16.7	3.6	6.6	17.0	6.1	9.1	18.0	3.7	7.8	21.0	4.8	8.9	21.4	8.2	12.3	22.7
	Flame Length (ft)	2.8	3.9	6.2	3.2	4.2	6.3	4.0	4.9	6.5	3.5	4.9	8.0	3.9	5.2	8.1	5.0	6.1	8.3	4.3	6.0	9.5	4.8	6.4	9.6	6.2	7.4	9.9
	Reaction Intensity (1,000 BTU/ft²/min)	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
	FCCS Fire Potentials	634	634	634	634	634	634	634	634	634	634	634	634	634	634	634	634	634	634	634	634	634	634	634	634	634	634	634
	Crosswalk – FBPS FMs	9	9	12	9	10	12	10	10	12	9	10	12	9	10	13	10	12	13	10	12	13	10	12	13	12	12	13
	Crosswalk – Standard FMs	188	189	202	189	162	202	161	165	203	189	165	203	189	165	202	165	202	202	162	202	203	165	203	203	202	203	203

Table 8. FCCS fire behavior predictions for managed longleaf pine fuelbeds. Wind speed = input midflame wind speed (mph), Slope = input slope gradient. Surface fire behavior outputs include reaction intensity (BTU $ft^{-2}min^{-1}$), flame length (ft), and rate of spread (ft min-1). The 3-digit FCCS fire potential code includes a combined index (0-9) of surface fire behavior, crown fire behavior, and available fuel potentials. Suggested crosswalks to the original 13 fire behavior fuel models (Rothermel 1972, Albini 1976) and standard 40 fire behavior fuel models (Scott and Burgan 2005) are also included. To convert rate of spread to ch/hr multiply ft/min by 0.9091.

		FCCS Fire Behavior Predictions Managed Longleaf Pine Forests of the Southern United States																										
		D4L4C1 Moisture Scenario									**D2L2C3 Moisture Scenario**										**D1L1C4 Moisture Scenario**								
	Windspeed mph	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7		0	3	7	0	3	7	0	3	7
	Slope %	00	00	00	15	15	15	30	30	30	00	00	00	15	15	15	30	30	30		00	00	00	15	15	15	30	30	30
FB_0151	Rate of Spread (ft/min)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	6.0	13.7	3.8	6.9	14.6	6.5	9.5	17.3		4.0	8.0	18.5	5.2	9.3	19.7	8.8	12.9	23.3
	Flame Length (ft)	2.7	3.7	5.5	3.1	4.0	5.6	3.9	4.6	6.1	3.4	4.7	6.8	3.8	5.0	7.0	4.8	5.8	7.6		4.2	5.7	8.4	4.7	6.1	8.7	6.0	7.1	9.4
	Reaction Intensity (1,000 BTU/ft²/min)	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9		6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9
	FCCS Fire Potentials	654	654	654	654	654	654	654	654	654	654	654	654	654	654	654	654	654	654		654	654	654	654	654	654	654	654	654
	Crosswalk – FBPS FMs	9	9	10	9	9	10	9	10	12	9	10	12	9	10	12	10	10	12		10	10	13	10	12	13	10	12	13
	Crosswalk – Standard FMs	188	189	163	189	189	163	189	162	202	189	162	203	189	165	203	165	163	203		162	165	203	162	202	203	163	203	203
FB_0152 S	Rate of Spread (ft/min)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	6.6	16.6	4.0	7.5	17.0	6.8	10.3	19.4		4.1	8.9	21.2	5.4	10.2	22.4	9.2	14.0	26.2
	Flame Length (ft)	3.0	4.3	6.4	3.4	4.6	6.6	4.4	5.3	7.1	3.8	5.4	8.2	4.3	5.7	8.3	5.4	6.6	8.8		4.6	6.6	9.8	5.2	7.0	10.1	6.7	8.1	10.9
	Reaction Intensity (1,000 BTU/ft²/min)	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2		8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4
	FCCS Fire Potentials	653	653	653	653	653	653	653	653	653	653	653	653	653	653	653	653	653	653		653	653	653	653	653	653	653	653	653
	Crosswalk – FBPS FMs	9	10	12	9	10	12	10	10	12	9	10	13	10	10	13	10	12	13		10	12	13	10	12	13	12	13	13
	Crosswalk – Standard FMs	189	162	203	189	162	203	162	165	203	189	165	202	162	165	202	165	203	203		162	203	203	165	203	203	203	202	203

		FCCS Fire Behavior Predictions Managed Longleaf Pine Forests of the Southern United States																										
		D4L4C1 Moisture Scenario									D2L2C3 Moisture Scenario										D1L1C4 Moisture Scenario								
	Windspeed mph	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7
	Slope %	00	00	00	15	15	15	30	30	30	00	00	00	15	15	15	30	30	30	00	00	00	15	15	15	30	30	30
FB_0155	Rate of Spread (ft/min)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	5.5	12.5	3.6	6.4	13.4	6.3	9.0	16.0	3.7	7.4	16.9	4.9	8.6	18.1	8.5	12.2	21.6
	Flame Length (ft)	2.4	3.3	4.9	2.8	3.6	5.0	3.5	4.2	5.4	3.0	4.1	6.0	3.4	4.4	6.2	4.4	5.2	6.7	3.7	5.1	7.5	4.2	5.5	7.7	5.4	6.4	8.4
	Reaction Intensity (1,000 BTU/ft²/min)	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
	FCCS Fire Potentials	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543
	Crosswalk – FBPS FMs	9	9	10	9	9	10	9	10	10	9	10	12	9	10	12	10	10	12	9	10	12	10	10	12	10	12	13
	Crosswalk – Standard FMs	185	189	163	188	189	163	189	162	163	189	162	202	189	162	202	162	163	203	189	165	203	162	163	203	163	203	203
FB_0390	Rate of Spread (ft/min)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	5.2	16.0	2.7	5.5	16.3	4.6	7.0	17.2	2.8	6.5	20.2	3.6	6.9	20.5	6.2	9.4	21.7
	Flame Length (ft)	2.2	3.2	5.4	2.5	3.3	5.5	3.2	3.9	5.6	2.8	4.2	7.1	3.1	4.3	7.1	4.0	4.8	7.3	3.4	5.0	8.4	3.8	5.1	8.4	4.9	5.9	8.6
	Reaction Intensity (1,000 BTU/ft²/min)	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7
	FCCS Fire Potentials	552	552	552	552	552	552	552	552	552	552	552	552	552	552	552	552	552	552	552	552	552	552	552	552	552	552	552
	Crosswalk – FBPS FMs	9	9	10	9	9	10	9	9	10	9	10	12	9	10	12	9	10	12	9	10	13	9	10	13	10	10	13
	Crosswalk – Standard FMs	185	189	163	185	189	163	189	189	163	188	162	203	189	162	203	189	165	203	189	165	203	189	165	203	165	163	203

		FCCS Fire Behavior Predictions Managed Longleaf Pine Forests of the Southern United States																										
		D4L4C1 Moisture Scenario									D2L2C3 Moisture Scenario									D1L1C4 Moisture Scenario								
	Windspeed mph	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7
	Slope %	00	00	00	15	15	15	30	30	30	00	00	00	15	15	15	30	30	30	00	00	00	15	15	15	30	30	30
FB_0480	Rate of Spread (ft/min)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	4.0	12.5	2.1	4.2	12.7	3.6	5.4	13.4	2.2	5.0	15.6	2.8	5.4	15.9	4.8	7.4	16.8
	Flame Length (ft)	1.9	2.7	4.6	2.1	2.8	4.7	2.7	3.2	4.8	2.3	3.5	6.0	2.6	3.6	6.0	3.3	4.1	6.1	2.8	4.1	7.0	3.2	4.3	7.1	4.1	5.0	7.3
	Reaction Intensity (1,000 BTU/ft²/min)	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
	FCCS Fire Potentials	532	532	532	532	532	532	532	532	532	532	532	532	532	532	532	532	532	532	532	532	532	532	532	532	532	532	532
	Crosswalk – FBPS FMs	8	9	10	9	9	10	9	9	10	9	9	10	9	9	12	9	10	12	9	10	12	9	10	12	10	10	12
	Crosswalk – Standard FMs	188	188	164	183	188	164	188	189	163	185	189	163	188	189	202	189	161	202	189	162	203	189	162	203	161	165	203
FB_0514	Rate of Spread (ft/min)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	4.0	10.3	2.4	4.5	10.4	4.1	6.2	11.7	2.5	5.4	12.9	3.2	6.1	13.5	5.5	8.4	15.8
	Flame Length (ft)	2.1	3.0	4.5	2.4	3.2	4.6	3.0	3.7	4.9	2.6	3.7	5.8	3.0	4.0	5.8	3.8	4.6	6.1	3.2	4.6	6.9	3.6	4.9	7.0	4.6	5.6	7.5
	Reaction Intensity (1,000 BTU/ft²/min)	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
	FCCS Fire Potentials	542	542	542	542	542	542	542	542	542	542	542	542	542	542	542	542	542	542	542	542	542	542	542	542	542	542	542
	Crosswalk – FBPS FMs	9	9	10	9	9	10	9	9	10	9	9	10	9	9	10	9	10	12	9	10	12	9	10	12	10	10	12
	Crosswalk – Standard FMs	183	189	162	185	189	162	189	189	163	188	189	163	189	189	163	189	162	202	189	162	203	189	165	203	162	165	203

		FCCS Fire Behavior Predictions Managed Longleaf Pine Forests of the Southern United States																										
		D4L4C1 Moisture Scenario									D2L2C3 Moisture Scenario									D1L1C4 Moisture Scenario								
	Windspeed mph	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7
	Slope %	00	00	00	15	15	15	30	30	30	00	00	00	15	15	15	30	30	30	00	00	00	15	15	15	30	30	30
FB_0536	Rate of Spread (ft/min)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	5.9	13.7	3.7	6.8	14.5	6.3	9.4	17.1	3.9	8.0	18.5	5.0	9.1	19.6	8.6	12.7	23.1
	Flame Length (ft)	2.8	3.8	5.7	3.1	4.1	5.8	4.0	4.8	6.3	3.4	4.8	7.0	3.9	5.1	7.2	4.9	5.9	7.8	4.2	5.9	8.7	4.8	6.3	8.9	6.1	7.3	9.6
	Reaction Intensity (1,000 BTU/ft²/min)	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3
	FCCS Fire Potentials	554	554	554	554	554	554	554	554	554	554	554	554	554	554	554	554	554	554	554	554	554	554	554	554	554	554	554
	Crosswalk – FBPS FMs	9	9	10	9	10	10	9	10	12	9	10	12	9	10	12	10	10	12	10	10	13	10	12	13	12	12	13
	Crosswalk – Standard FMs	188	189	163	189	161	163	189	165	202	189	165	203	189	165	203	165	163	203	162	165	203	165	202	203	202	203	203
FB_0616	Rate of Spread (ft/min)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	5.3	12.6	3.3	6.1	13.3	5.6	8.4	15.6	3.4	7.2	17.0	4.4	8.2	18.0	7.5	11.3	21.1
	Flame Length (ft)	2.4	3.5	5.1	2.8	3.7	5.3	3.5	4.3	5.7	3.0	4.3	6.4	3.4	4.6	6.5	4.4	5.3	7.0	3.7	5.3	7.8	4.2	5.6	8.0	5.4	6.5	8.6
	Reaction Intensity (1,000 BTU/ft²/min)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7
	FCCS Fire Potentials	542	542	542	542	542	542	542	542	542	542	542	542	542	542	542	542	542	542	542	542	542	542	542	542	542	542	542
	Crosswalk – FBPS FMs	9	9	10	9	9	10	9	10	10	9	10	12	9	10	12	10	10	12	9	10	12	10	10	13	10	12	13
	Crosswalk – Standard FMs	185	189	163	188	189	163	189	162	163	189	162	202	189	162	203	162	165	203	189	165	203	162	165	202	165	203	203

		FCCS Fire Behavior Predictions Managed Longleaf Pine Forests of the Southern United States																										
		D4L4C1 Moisture Scenario									D2L2C3 Moisture Scenario										D1L1C4 Moisture Scenario								
	Windspeed mph	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7
	Slope %	00	00	00	15	15	15	30	30	30	00	00	00	15	15	15	30	30	30	00	00	00	15	15	15	30	30	30
FB_0649	Rate of Spread (ft/min)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	3.5	11.3	1.5	3.7	11.4	2.5	4.1	11.9	1.6	4.4	14.2	2.0	4.6	14.3	3.4	5.3	14.9
	Flame Length (ft)	1.5	2.5	4.3	1.7	2.5	4.3	2.2	2.7	4.4	1.9	3.2	5.6	2.2	3.3	5.6	2.8	3.5	5.7	2.4	3.8	6.5	2.7	3.9	6.6	3.4	4.1	6.7
	Reaction Intensity (1,000 BTU/ft²/min)	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3
	FCCS Fire Potentials	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543
	Crosswalk – FBPS FMs	8	9	10	8	9	10	9	9	10	8	9	10	9	9	10	9	9	10	9	9	12	9	9	12	9	10	12
	Crosswalk – Standard FMs	188	185	164	188	188	164	185	188	164	188	189	163	185	189	163	188	189	163	185	189	203	188	189	203	189	162	203
FB_0685	Rate of Spread (ft/min)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	7.0	17.6	4.3	8.0	17.9	7.2	11.0	20.7	4.4	9.5	22.6	5.8	10.8	23.9	9.8	14.9	27.9
	Flame Length (ft)	3.2	4.6	6.8	3.6	4.9	7.0	4.6	5.6	7.5	4.0	5.7	8.7	4.5	6.1	8.8	5.8	7.0	9.4	4.9	7.0	10.5	5.6	7.5	10.7	7.1	8.6	11.5
	Reaction Intensity (1,000 BTU/ft²/min)	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9
	FCCS Fire Potentials	643	643	643	643	643	643	643	643	643	643	643	643	643	643	643	643	643	643	643	643	643	643	643	643	643	643	643
	Crosswalk – FBPS FMs	9	10	12	9	10	12	10	10	12	10	10	13	10	12	13	10	12	13	10	12	13	10	12	13	12	13	13
	Crosswalk – Standard FMs	189	162	203	189	165	203	162	165	203	161	165	203	162	202	203	165	203	203	165	203	203	165	203	203	203	203	203

		FCCS Fire Behavior Predictions Managed Longleaf Pine Forests of the Southern United States																										
		D4L4C1 Moisture Scenario									D2L2C3 Moisture Scenario										D1L1C4 Moisture Scenario								
	Windspeed mph	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7
	Slope %	00	00	00	15	15	15	30	30	30	00	00	00	15	15	15	30	30	30	00	00	00	15	15	15	30	30	30
FB_0692	Rate of Spread (ft/min)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	2.1	6.1	0.6	2.2	6.2	0.9	2.5	6.5	0.6	2.8	8.4	0.8	2.9	8.5	1.2	3.3	8.9
	Flame Length (ft)	0.7	1.5	2.4	0.8	1.5	2.4	1.0	1.6	2.5	0.9	1.9	3.1	1.0	1.9	3.1	1.2	2.0	3.2	1.2	2.3	3.9	1.3	2.4	3.9	1.6	2.5	4.0
	Reaction Intensity (1,000 BTU/ft²/min)	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
	FCCS Fire Potentials	303	303	303	303	303	303	303	303	303	303	303	303	303	303	303	303	303	303	303	303	303	303	303	303	303	303	303
	Crosswalk – FBPS FMs	8	8	9	8	8	9	8	8	9	8	8	9	8	8	9	8	9	9	8	9	9	8	9	9	8	9	9
	Crosswalk – Standard FMs	183	187	186	183	187	186	183	188	186	183	186	189	183	186	189	187	183	189	187	185	146	187	185	146	188	188	146
FB_0757	Rate of Spread (ft/min)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	1.0	3.1	0.5	1.1	3.2	0.9	1.2	3.3	0.5	1.4	4.2	0.7	1.4	4.2	1.2	1.6	4.4
	Flame Length (ft)	0.7	1.1	1.8	0.8	1.1	1.9	1.1	1.2	1.9	0.9	1.4	2.4	1.0	1.4	2.4	1.3	1.5	2.4	1.1	1.8	2.9	1.3	1.8	3.0	1.6	1.9	3.0
	Reaction Intensity (1,000 BTU/ft²/min)	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
	FCCS Fire Potentials	304	304	304	304	304	304	304	304	304	304	304	304	304	304	304	304	304	304	304	304	304	304	304	304	304	304	304
	Crosswalk – FBPS FMs	8	8	8	8	8	8	8	8	8	8	8	9	8	8	9	8	8	9	8	8	9	8	8	9	8	8	9
	Crosswalk – Standard FMs	183	183	186	183	187	186	183	187	186	183	187	185	183	187	185	187	188	185	183	188	189	187	188	189	188	188	189

		FCCS Fire Behavior Predictions Managed Longleaf Pine Forests of the Southern United States																										
		D4L4C1 Moisture Scenario									D2L2C3 Moisture Scenario									D1L1C4 Moisture Scenario								
	Windspeed mph	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7
	Slope %	00	00	00	15	15	15	30	30	30	00	00	00	15	15	15	30	30	30	00	00	00	15	15	15	30	30	30
FB_0762	Rate of Spread (ft/min)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	5.7	13.2	3.6	6.5	14.0	6.1	9.0	16.6	3.7	7.7	17.8	4.8	8.8	19.0	8.2	12.2	22.3
	Flame Length (ft)	2.8	3.8	5.7	3.1	4.1	5.8	4.0	4.7	6.3	3.4	4.8	7.0	3.9	5.1	7.2	4.9	5.9	7.8	4.2	5.9	8.7	4.8	6.3	8.9	6.1	7.3	9.6
	Reaction Intensity (1,000 BTU/ft²/min)	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
	FCCS Fire Potentials	553	553	553	553	553	553	553	553	553	553	553	553	553	553	553	553	553	553	553	553	553	553	553	553	553	553	553
	Crosswalk – FBPS FMs	9	9	10	9	10	10	9	10	12	9	10	12	9	10	12	10	10	12	10	10	13	10	12	13	12	12	13
	Crosswalk – Standard FMs	188	189	163	189	161	163	189	165	202	189	165	203	189	165	203	165	163	203	162	165	203	165	202	203	202	203	203
FB_0824	Rate of Spread (ft/min)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	4.2	13.6	1.2	4.3	13.7	2.0	4.8	14.2	1.2	5.2	16.9	1.6	5.4	17.1	2.7	6.0	17.7
	Flame Length (ft)	1.3	2.5	4.2	1.4	2.5	4.2	1.8	2.6	4.3	1.6	3.2	5.5	1.8	3.3	5.6	2.3	3.4	5.6	1.9	3.8	6.5	2.2	3.8	6.5	2.8	4.0	6.6
	Reaction Intensity (1,000 BTU/ft²/min)	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
	FCCS Fire Potentials	542	542	542	542	542	542	542	542	542	542	542	542	542	542	542	542	542	542	542	542	542	542	542	542	542	542	542
	Crosswalk – FBPS FMs	8	9	10	8	9	10	8	9	10	8	9	10	8	9	10	9	9	10	8	9	12	9	9	12	9	10	12
	Crosswalk – Standard FMs	187	185	164	187	185	164	188	188	164	188	189	163	188	189	163	185	189	163	188	189	203	185	189	203	188	161	203

		FCCS Fire Behavior Predictions Managed Longleaf Pine Forests of the Southern United States																										
		D4L4C1 Moisture Scenario									D2L2C3 Moisture Scenario										D1L1C4 Moisture Scenario								
	Windspeed mph	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7
	Slope %	00	00	00	15	15	15	30	30	30	00	00	00	15	15	15	30	30	30	00	00	00	15	15	15	30	30	30
FB_0939	Rate of Spread (ft/min)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	5.3	12.2	3.3	6.0	12.9	5.5	8.1	15.0	3.6	7.2	16.4	4.5	8.1	17.4	7.4	11.0	20.2
	Flame Length (ft)	1.6	2.2	3.3	1.8	2.4	3.4	2.3	2.7	3.6	2.0	2.8	4.1	2.3	3.0	4.2	2.8	3.4	4.5	2.5	3.5	5.1	2.8	3.7	5.2	3.5	4.2	5.6
	Reaction Intensity (1,000 BTU/ft²/min)	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
	FCCS Fire Potentials	531	531	531	531	531	531	531	531	531	531	531	531	531	531	531	531	531	531	531	531	531	531	531	531	531	531	531
	Crosswalk – FBPS FMs	8	9	9	8	9	9	9	9	11	9	9	10	9	9	6	9	9	6	9	9	6	9	9	6	9	10	6
	Crosswalk – Standard FMs	186	186	164	186	186	164	186	188	202	183	188	162	185	189	142	189	164	142	188	189	144	189	164	144	189	164	144
FB_0945	Rate of Spread (ft/min)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	2.1	6.7	0.9	2.2	6.8	1.5	2.5	7.1	0.9	2.6	8.4	1.2	2.7	8.5	2.1	3.1	8.8
	Flame Length (ft)	1.2	1.9	3.3	1.4	2.0	3.3	1.7	2.1	3.4	1.5	2.5	4.3	1.7	2.6	4.3	2.2	2.7	4.4	1.8	3.0	5.0	2.1	3.0	5.1	2.6	3.2	5.2
	Reaction Intensity (1,000 BTU/ft²/min)	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
	FCCS Fire Potentials	442	442	442	442	442	442	442	442	442	442	442	442	442	442	442	442	442	442	442	442	442	442	442	442	442	442	442
	Crosswalk – FBPS FMs	8	8	9	8	8	9	8	9	9	8	9	10	8	9	10	9	9	10	8	9	10	9	9	10	9	9	10
	Crosswalk – Standard FMs	187	188	189	187	188	189	188	183	189	188	188	162	188	188	162	183	188	162	188	189	165	183	189	163	188	189	163

		FCCS Fire Behavior Predictions Managed Longleaf Pine Forests of the Southern United States																										
		D4L4C1 Moisture Scenario									D2L2C3 Moisture Scenario									D1L1C4 Moisture Scenario								
	Windspeed mph	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7
	Slope %	00	00	00	15	15	15	30	30	30	00	00	00	15	15	15	30	30	30	00	00	00	15	15	15	30	30	30
FB_0995	Rate of Spread (ft/min)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	2.7	8.7	0.4	2.7	8.8	0.6	3.0	9.1	0.4	3.5	11.4	0.5	3.6	11.5	0.8	3.9	11.9
	Flame Length (ft)	0.5	1.5	2.5	0.6	1.5	2.5	0.8	1.5	2.5	0.8	2.2	3.8	0.9	2.2	3.8	1.1	2.3	3.8	1.0	2.6	4.5	1.1	2.6	4.5	1.4	2.8	4.6
	Reaction Intensity (1,000 BTU/ft²/min)	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
	FCCS Fire Potentials	430	430	430	430	430	430	430	430	430	430	430	430	430	430	430	430	430	430	430	430	430	430	430	430	430	430	430
	Crosswalk – FBPS FMs	8	8	9	8	8	9	8	8	9	8	9	9	8	9	9	8	9	9	8	9	10	8	9	10	8	9	10
	Crosswalk – Standard FMs	183	187	188	183	187	188	183	188	188	183	183	146	183	185	146	187	185	146	183	188	164	183	188	164	187	188	164
FB_1021	Rate of Spread (ft/min)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	6.3	19.3	3.7	7.1	19.6	6.3	9.7	20.6	3.9	8.4	24.6	5.0	9.6	25.0	8.6	13.1	26.3
	Flame Length (ft)	3.0	4.3	7.0	3.4	4.6	7.0	4.3	5.3	7.2	3.8	5.4	9.1	4.3	5.7	9.1	5.4	6.6	9.4	4.6	6.6	10.9	5.2	7.1	11.0	6.7	8.1	11.2
	Reaction Intensity (1,000 BTU/ft²/min)	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0
	FCCS Fire Potentials	654	654	654	654	654	654	654	654	654	654	654	654	654	654	654	654	654	654	654	654	654	654	654	654	654	654	654
	Crosswalk – FBPS FMs	9	10	12	9	10	12	10	10	12	9	10	13	10	10	13	10	12	13	10	12	13	10	12	13	12	13	13
	Crosswalk – Standard FMs	189	162	203	189	162	203	162	165	203	189	165	203	162	165	203	165	203	203	162	203	203	165	203	203	203	202	203

		FCCS Fire Behavior Predictions Managed Longleaf Pine Forests of the Southern United States																										
		D4L4C1 Moisture Scenario									D2L2C3 Moisture Scenario									D1L1C4 Moisture Scenario								
	Windspeed mph	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7
	Slope %	00	00	00	15	15	15	30	30	30	00	00	00	15	15	15	30	30	30	00	00	00	15	15	15	30	30	30
FB_1066	Rate of Spread (ft/min)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	6.5	15.2	4.0	7.4	16.1	6.7	10.1	18.9	4.1	8.7	20.5	5.3	9.9	21.8	9.1	13.7	25.5
	Flame Length (ft)	3.2	4.6	6.8	3.6	4.9	7.0	4.6	5.6	7.5	4.0	5.7	8.5	4.5	6.1	8.7	5.8	7.0	9.3	5.0	7.0	10.4	5.6	7.5	10.7	7.1	8.6	11.5
	Reaction Intensity (1,000 BTU/ft²/min)	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	9.3	9.3	9.3	9.3	9.3	9.3	9.3	9.3	9.3
	FCCS Fire Potentials	655	655	655	655	655	655	655	655	655	655	655	655	655	655	655	655	655	655	655	655	655	655	655	655	655	655	655
	Crosswalk – FBPS FMs	9	10	12	9	10	12	10	10	12	10	10	13	10	12	13	10	12	13	10	12	13	10	12	13	12	13	13
	Crosswalk – Standard FMs	189	162	203	189	165	203	162	165	203	161	165	203	162	202	203	165	203	203	165	203	203	165	203	203	203	203	203
FB_1108	Rate of Spread (ft/min)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	6.2	14.5	3.8	7.1	15.4	6.5	9.8	18.1	4.0	8.4	19.6	5.2	9.6	20.8	8.8	13.2	24.4
	Flame Length (ft)	2.9	4.1	6.0	3.3	4.3	6.2	4.1	5.0	6.6	3.6	5.0	7.5	4.0	5.4	7.7	5.2	6.2	8.3	4.4	6.2	9.2	5.0	6.6	9.4	6.4	7.7	10.2
	Reaction Intensity (1,000 BTU/ft²/min)	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9
	FCCS Fire Potentials	654	654	654	654	654	654	654	654	654	654	654	654	654	654	654	654	654	654	654	654	654	654	654	654	654	654	654
	Crosswalk – FBPS FMs	9	10	10	9	10	12	10	10	12	9	10	12	10	10	12	10	12	13	10	12	13	10	12	13	12	12	13
	Crosswalk – Standard FMs	189	161	163	189	162	202	162	165	203	189	165	203	161	165	203	165	202	202	162	202	203	165	203	203	202	203	203

		FCCS Fire Behavior Predictions Managed Longleaf Pine Forests of the Southern United States																										
		D4L4C1 Moisture Scenario									D2L2C3 Moisture Scenario										D1L1C4 Moisture Scenario								
	Windspeed mph	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7
	Slope %	00	00	00	15	15	15	30	30	30	00	00	00	15	15	15	30	30	30	00	00	00	15	15	15	30	30	30
FB_1200	Rate of Spread (ft/min)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	4.2	13.5	1.8	4.4	13.7	3.0	5.0	14.2	1.9	5.4	17.0	2.4	5.6	17.2	4.1	6.3	17.9
	Flame Length (ft)	1.7	2.7	4.7	1.9	2.8	4.7	2.5	3.0	4.8	2.1	3.6	6.1	2.4	3.7	6.2	3.1	3.9	6.3	2.6	4.3	7.2	3.0	4.3	7.3	3.8	4.6	7.4
	Reaction Intensity (1,000 BTU/ft²/min)	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
	FCCS Fire Potentials	553	553	553	553	553	553	553	553	553	553	553	553	553	553	553	553	553	553	553	553	553	553	553	553	553	553	553
	Crosswalk – FBPS FMs	8	9	10	8	9	10	9	9	10	9	9	12	9	9	12	9	9	12	9	10	12	9	10	12	9	10	12
	Crosswalk – Standard FMs	188	188	164	188	188	164	185	189	163	183	189	202	185	189	202	189	189	202	188	162	203	189	162	203	189	162	203
FB_1271	Rate of Spread (ft/min)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	6.8	19.1	4.2	7.8	19.4	7.1	10.7	20.4	4.3	9.2	24.1	5.6	10.5	24.6	9.5	14.4	27.0
	Flame Length (ft)	3.0	4.3	6.7	3.4	4.6	6.8	4.4	5.3	7.0	3.8	5.3	8.6	4.3	5.7	8.6	5.4	6.6	8.8	4.6	6.6	10.2	5.2	7.0	10.3	6.7	8.1	10.8
	Reaction Intensity (1,000 BTU/ft²/min)	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
	FCCS Fire Potentials	644	644	644	644	644	644	644	644	644	644	644	644	644	644	644	644	644	644	644	644	644	644	644	644	644	644	644
	Crosswalk – FBPS FMs	9	10	12	9	10	12	10	10	12	9	10	13	10	10	13	10	12	13	10	12	13	10	12	13	12	13	13
	Crosswalk – Standard FMs	189	162	203	189	162	203	162	165	203	189	165	203	162	165	203	165	203	203	162	203	203	165	203	203	203	202	203

		FCCS Fire Behavior Predictions Managed Longleaf Pine Forests of the Southern United States																										
		D4L4C1 Moisture Scenario									D2L2C3 Moisture Scenario									D1L1C4 Moisture Scenario								
	Windspeed mph	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7
	Slope %	00	00	00	15	15	15	30	30	30	00	00	00	15	15	15	30	30	30	00	00	00	15	15	15	30	30	30
FB_1282	Rate of Spread (ft/min)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	6.1	18.5	4.1	6.9	18.8	6.6	9.5	19.9	4.3	8.3	25.1	5.5	9.3	25.5	9.0	12.8	27.0
	Flame Length (ft)	3.5	4.7	7.6	3.9	5.0	7.7	4.9	5.8	7.9	4.3	5.8	9.7	4.8	6.2	9.8	6.1	7.1	10.0	5.4	7.3	12.1	6.0	7.7	12.3	7.6	8.9	12.6
	Reaction Intensity (1,000 BTU/ft²/min)	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
	FCCS Fire Potentials	603	603	603	603	603	603	603	603	603	603	603	603	603	603	603	603	603	603	603	603	603	603	603	603	603	603	603
	Crosswalk – FBPS FMs	9	10	12	9	10	12	10	10	12	10	10	13	10	12	13	12	12	13	10	12	13	12	12	13	12	13	13
	Crosswalk – Standard FMs	189	162	203	189	165	203	165	165	203	162	165	203	165	202	203	202	203	203	165	203	203	202	203	203	203	203	203
FB_1412	Rate of Spread (ft/min)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	5.0	11.4	3.3	5.8	12.2	5.6	8.1	14.5	3.4	6.8	15.4	4.4	7.8	16.4	7.5	10.9	19.5
	Flame Length (ft)	2.3	3.1	4.6	2.6	3.3	4.7	3.3	3.9	5.1	2.8	3.9	5.7	3.2	4.1	5.8	4.1	4.8	6.3	3.5	4.8	7.0	4.0	5.1	7.2	5.1	6.0	7.8
	Reaction Intensity (1,000 BTU/ft²/min)	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
	FCCS Fire Potentials	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543
	Crosswalk – FBPS FMs	9	9	10	9	9	10	9	9	10	9	9	10	9	10	10	10	10	12	9	10	12	9	10	12	10	10	12
	Crosswalk – Standard FMs	185	189	164	188	189	163	189	189	163	189	189	163	189	162	163	161	165	202	189	165	203	189	165	203	165	163	203

		FCCS Fire Behavior Predictions Managed Longleaf Pine Forests of the Southern United States																										
		D4L4C1 Moisture Scenario									D2L2C3 Moisture Scenario									D1L1C4 Moisture Scenario								
	Windspeed mph	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7
	Slope %	00	00	00	15	15	15	30	30	30	00	00	00	15	15	15	30	30	30	00	00	00	15	15	15	30	30	30
FB_1454	Rate of Spread (ft/min)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	5.2	13.4	3.3	6.0	13.7	5.6	8.3	15.2	3.4	7.1	16.9	4.4	8.1	17.5	7.5	11.2	20.5
	Flame Length (ft)	2.6	3.6	5.5	2.9	3.9	5.6	3.8	4.5	6.0	3.2	4.5	7.0	3.7	4.8	7.1	4.7	5.6	7.4	4.0	5.6	8.3	4.5	5.9	8.4	5.7	6.9	9.1
	Reaction Intensity (1,000 BTU/ft²/min)	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3
	FCCS Fire Potentials	533	533	533	533	533	533	533	533	533	533	533	533	533	533	533	533	533	533	533	533	533	533	533	533	533	533	533
	Crosswalk – FBPS FMs	9	9	10	9	9	10	9	10	10	9	10	12	9	10	12	10	10	12	9	10	13	10	10	13	10	12	13
	Crosswalk – Standard FMs	188	189	163	189	189	163	189	162	163	189	162	203	189	165	203	162	165	203	189	165	203	162	165	203	165	203	203
FB_1488	Rate of Spread (ft/min)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	2.9	8.3	0.9	3.0	8.5	1.5	3.6	9.1	0.9	3.6	10.4	1.2	3.8	10.6	1.9	4.5	11.3
	Flame Length (ft)	0.9	1.7	2.8	1.0	1.7	2.8	1.2	1.9	2.9	1.2	2.2	3.6	1.3	2.3	3.6	1.6	2.4	3.7	1.4	2.6	4.2	1.5	2.6	4.2	1.9	2.9	4.4
	Reaction Intensity (1,000 BTU/ft²/min)	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
	FCCS Fire Potentials	443	443	443	443	443	443	443	443	443	443	443	443	443	443	443	443	443	443	443	443	443	443	443	443	443	443	443
	Crosswalk – FBPS FMs	8	8	9	8	8	9	8	8	9	8	9	9	8	9	9	8	9	9	8	9	10	8	9	10	8	9	10
	Crosswalk – Standard FMs	183	186	188	183	186	188	187	186	189	187	185	164	187	185	164	188	186	164	187	188	164	188	188	164	186	189	164

		FCCS Fire Behavior Predictions Managed Longleaf Pine Forests of the Southern United States																										
		D4L4C1 Moisture Scenario									D2L2C3 Moisture Scenario										D1L1C4 Moisture Scenario								
	Windspeed mph	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7
	Slope %	00	00	00	15	15	15	30	30	30	00	00	00	15	15	15	30	30	30	00	00	00	15	15	15	30	30	30
FB_1551	Rate of Spread (ft/min)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	5.2	14.8	3.3	6.0	15.1	5.6	8.3	16.1	3.4	7.1	19.0	4.4	8.1	19.5	7.5	11.2	20.8
	Flame Length (ft)	2.6	3.6	5.5	2.9	3.8	5.6	3.7	4.4	5.8	3.2	4.5	7.2	3.6	4.7	7.2	4.6	5.5	7.5	3.9	5.5	8.6	4.4	5.8	8.7	5.6	6.8	9.0
	Reaction Intensity (1,000 BTU/ft²/min)	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3
	FCCS Fire Potentials	544	544	544	544	544	544	544	544	544	544	544	544	544	544	544	544	544	544	544	544	544	544	544	544	544	544	544
	Crosswalk – FBPS FMs	9	9	10	9	9	10	9	10	10	9	10	12	9	10	12	10	10	12	9	10	13	10	10	13	10	12	13
	Crosswalk – Standard FMs	188	189	163	189	189	163	189	162	163	189	162	203	189	165	203	162	165	203	189	165	203	162	165	203	165	203	203
FB_1598	Rate of Spread (ft/min)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	5.2	15.3	3.3	6.0	15.6	5.6	8.3	16.6	3.4	7.0	19.4	4.4	8.1	19.9	7.5	11.2	21.1
	Flame Length (ft)	2.8	3.9	6.2	3.2	4.2	6.2	4.0	4.8	6.4	3.5	4.9	8.0	3.9	5.2	8.1	5.0	6.0	8.3	4.3	6.0	9.5	4.8	6.4	9.6	6.2	7.4	9.9
	Reaction Intensity (1,000 BTU/ft²/min)	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7
	FCCS Fire Potentials	542	542	542	542	542	542	542	542	542	542	542	542	542	542	542	542	542	542	542	542	542	542	542	542	542	542	542
	Crosswalk – FBPS FMs	9	9	12	9	10	12	10	10	12	9	10	12	9	10	13	10	12	13	10	10	13	10	12	13	12	12	13
	Crosswalk – Standard FMs	188	189	202	189	162	202	161	165	203	189	165	203	189	165	202	165	202	202	162	165	203	165	202	203	202	203	203

		FCCS Fire Behavior Predictions Managed Longleaf Pine Forests of the Southern United States																										
		D4L4C1 Moisture Scenario									D2L2C3 Moisture Scenario										D1L1C4 Moisture Scenario								
	Windspeed mph	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7
	Slope %	00	00	00	15	15	15	30	30	30	00	00	00	15	15	15	30	30	30	00	00	00	15	15	15	30	30	30
FB_1611	Rate of Spread (ft/min)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.4	4.5	0.6	1.5	4.6	1.0	1.6	4.7	0.6	1.8	5.7	0.8	1.8	5.7	1.4	2.1	5.9
	Flame Length (ft)	1.0	1.6	2.8	1.1	1.6	2.8	1.4	1.8	2.8	1.3	2.1	3.6	1.4	2.2	3.7	1.8	2.2	3.7	1.5	2.5	4.3	1.7	2.5	4.3	2.2	2.7	4.3
	Reaction Intensity (1,000 BTU/ft²/min)	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
	FCCS Fire Potentials	332	332	332	332	332	332	332	332	332	332	332	332	332	332	332	332	332	332	332	332	332	332	332	332	332	332	332
	Crosswalk – FBPS FMs	8	8	9	8	8	9	8	8	9	8	9	9	8	9	9	8	9	9	8	9	10	8	9	10	9	9	10
	Crosswalk – Standard FMs	183	188	188	187	188	188	187	188	188	187	183	189	187	183	189	188	185	189	188	185	162	188	188	162	185	188	162
FB_1630	Rate of Spread (ft/min)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6	7.9	23.8	4.8	8.8	24.3	8.1	12.1	25.9	4.9	10.4	30.2	6.4	11.9	30.9	10.9	16.3	33.0
	Flame Length (ft)	3.2	4.5	7.4	3.6	4.8	7.5	4.6	5.6	7.7	4.0	5.7	9.5	4.5	6.0	9.6	5.8	6.9	9.8	4.9	6.9	11.3	5.6	7.4	11.5	7.1	8.5	11.8
	Reaction Intensity (1,000 BTU/ft²/min)	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
	FCCS Fire Potentials	764	764	764	764	764	764	764	764	764	764	764	764	764	764	764	764	764	764	764	764	764	764	764	764	764	764	764
	Crosswalk – FBPS FMs	9	10	12	9	10	12	10	10	12	9	10	13	10	10	13	10	12	13	10	12	13	10	12	13	12	13	13
	Crosswalk – Standard FMs	189	162	203	189	165	203	162	163	203	189	165	203	162	163	203	165	203	203	165	203	204	165	203	204	203	203	204

		FCCS Fire Behavior Predictions Managed Longleaf Pine Forests of the Southern United States																										
		D4L4C1 Moisture Scenario									D2L2C3 Moisture Scenario										D1L1C4 Moisture Scenario								
	Windspeed mph	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7
	Slope %	00	00	00	15	15	15	30	30	30	00	00	00	15	15	15	30	30	30	00	00	00	15	15	15	30	30	30
FB_1680	Reaction Intensity (1,000 BTU/ft²/min)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	11.5	37.3	4.7	11.9	37.7	7.5	13.3	39.1	5.1	14.6	47.3	6.4	15.2	47.9	10.2	17.0	49.7
	Flame Length (ft)	2.7	4.4	7.5	3.0	4.4	7.5	3.7	4.7	7.7	3.4	5.7	9.7	3.8	5.8	9.8	4.7	6.1	9.9	4.2	6.8	11.6	4.6	6.9	11.7	5.7	7.2	11.9
	Rate of Spread (ft/min)	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
	FCCS Fire Potentials	852	852	852	852	852	852	852	852	852	852	852	852	852	852	852	852	852	852	852	852	852	852	852	852	852	852	852
	Crosswalk – FBPS FMs	9	10	5	9	10	5	9	10	5	9	10	5	9	10	5	10	12	5	10	12	5	10	12	5	10	12	5
	Crosswalk – Standard FMs	188	164	147	189	164	147	189	164	147	189	163	145	189	163	145	164	202	145	162	203	145	162	203	145	163	203	145

Table 9. FCCS fire behavior predictions for managed slash pine fuelbeds. Windspeed = input midflame wind speed (mph), Slope = input slope gradient. Surface fire behavior outputs include reaction intensity (BTU $ft^{-2}min^{-1}$), flame length (ft), and rate of spread (ft min^{-1}). The 3-digit FCCS fire potential code includes a combined index (0-9) of surface fire behavior, crown fire behavior, and available fuel potentials. Suggested crosswalks to the original 13 fire behavior fuel models (Rothermel 1972, Albini 1976) and standard 40 fire behavior fuel models (Scott and Burgan 2005) are also included. To convert rate of spread to ch/hr multiply ft/min by 0.9091.

		FCCS Fire Behavior Predictions Managed Slash Pine Forests of the Southern United States																										
		D4L4C1 Moisture Scenario									**D2L2C3 Moisture Scenario**									**D1L1C4 Moisture Scenario**								
	Windspeed mph	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7
	Slope %	00	00	00	15	15	15	30	30	30	00	00	00	15	15	15	30	30	30	00	00	00	15	15	15	30	30	30
FB_0410 S	Rate of Spread (ft/min)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.7	5.2	0.4	1.8	5.2	0.6	2.0	5.5	0.4	2.3	7.0	0.5	2.4	7.1	0.9	2.7	7.4
	Flame Length (ft)	0.7	1.4	2.4	0.7	1.4	2.4	0.9	1.5	2.4	0.9	1.8	3.1	1.0	1.9	3.1	1.2	2.0	3.2	1.1	2.3	3.9	1.2	2.4	3.9	1.5	2.5	4.0
	Reaction Intensity (1,000 BTU/ft²/min)	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
	FCCS Fire Potentials	301	301	301	301	301	301	301	301	301	301	301	301	301	301	301	301	301	301	301	301	301	301	301	301	301	301	301
	Crosswalk – FBPS FMs	8	8	9	8	8	9	8	8	9	8	8	9	8	8	9	8	9	9	8	9	9	8	9	9	8	9	9
	Crosswalk – Standard FMs	183	187	185	183	187	185	183	188	186	183	188	189	183	188	189	187	183	189	183	185	189	187	185	189	187	185	189
FB_0429	Rate of Spread (ft/min)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	1.6	5.1	0.3	1.6	5.1	0.5	1.8	5.3	0.3	2.1	6.7	0.4	2.2	6.8	0.6	2.4	7.0
	Flame Length (ft)	0.6	1.5	2.5	0.7	1.5	2.5	0.8	1.6	2.6	0.8	2.0	3.5	0.9	2.1	3.5	1.1	2.2	3.5	1.0	2.5	4.2	1.1	2.5	4.3	1.4	2.6	4.3
	Reaction Intensity (1,000 BTU/ft²/min)	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
	FCCS Fire Potentials	301	301	301	301	301	301	301	301	301	301	301	301	301	301	301	301	301	301	301	301	301	301	301	301	301	301	301
	Crosswalk – FBPS FMs	8	8	9	8	8	9	8	8	9	8	9	9	8	9	9	8	9	9	8	9	10	8	9	10	8	9	10
	Crosswalk – Standard FMs	183	187	188	183	187	188	183	188	188	183	183	189	183	183	189	187	183	189	183	185	162	183	188	162	187	188	162

		FCCS Fire Behavior Predictions Managed Slash Pine Forests of the Southern United States																										
		D4L4C1 Moisture Scenario									D2L2C3 Moisture Scenario									D1L1C4 Moisture Scenario								
	Windspeed mph	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7
	Slope %	00	00	00	15	15	15	30	30	30	00	00	00	15	15	15	30	30	30	00	00	00	15	15	15	30	30	30
FB_0467	Rate of Spread (ft/min)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.0	2.8	0.6	1.1	2.9	1.0	1.5	3.0	0.6	1.3	3.5	0.8	1.5	3.6	1.4	2.1	3.8
	Flame Length (ft)	1.0	1.4	2.2	1.1	1.5	2.2	1.4	1.7	2.3	1.2	1.7	2.8	1.4	1.8	2.9	1.8	2.1	2.9	1.5	2.1	3.3	1.7	2.3	3.4	2.2	2.6	3.5
	Reaction Intensity (1,000 BTU/ft²/min)	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
	FCCS Fire Potentials	332	332	332	332	332	332	332	332	332	332	332	332	332	332	332	332	332	332	332	332	332	332	332	332	332	332	332
	Crosswalk – FBPS FMs	8	8	9	8	8	9	8	8	9	8	8	9	8	8	9	8	9	9	8	9	9	8	9	9	9	9	9
	Crosswalk – Standard FMs	183	187	185	183	187	185	187	188	185	187	188	189	187	188	189	188	183	189	188	183	189	188	185	189	183	188	189
FB_0478	Rate of Spread (ft/min)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	3.5	10.0	2.1	4.0	10.1	3.6	5.4	10.4	2.2	4.7	12.5	2.8	5.4	12.7	4.8	7.3	13.8
	Flame Length (ft)	1.9	2.7	4.3	2.2	2.9	4.3	2.8	3.4	4.5	2.4	3.4	5.6	2.7	3.6	5.6	3.5	4.2	5.7	2.9	4.2	6.6	3.3	4.5	6.6	4.2	5.1	6.9
	Reaction Intensity (1,000 BTU/ft²/min)	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1
	FCCS Fire Potentials	433	433	433	433	433	433	433	433	433	433	433	433	433	433	433	433	433	433	433	433	433	433	433	433	433	433	433
	Crosswalk – FBPS FMs	8	9	10	9	9	10	9	9	10	9	9	10	9	9	10	9	10	10	9	10	12	9	10	12	10	10	12
	Crosswalk – Standard FMs	188	188	162	183	189	162	188	189	162	185	189	163	188	189	163	189	162	163	189	162	203	189	162	203	162	165	203

		FCCS Fire Behavior Predictions Managed Slash Pine Forests of the Southern United States																										
		D4L4C1 Moisture Scenario									D2L2C3 Moisture Scenario									D1L1C4 Moisture Scenario								
	Windspeed mph	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7
	Slope %	00	00	00	15	15	15	30	30	30	00	00	00	15	15	15	30	30	30	00	00	00	15	15	15	30	30	30
FB_0504	Rate of Spread (ft/min)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	4.8	14.6	3.0	5.5	14.9	5.1	7.6	15.8	3.1	6.5	18.4	4.0	7.4	18.8	6.9	10.2	20.0
	Flame Length (ft)	2.6	3.7	6.0	3.0	3.9	6.0	3.8	4.5	6.2	3.3	4.6	7.6	3.7	4.9	7.7	4.7	5.6	7.9	4.0	5.6	9.1	4.5	6.0	9.2	5.8	6.9	9.4
	Reaction Intensity (1,000 BTU/ft²/min)	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8
	FCCS Fire Potentials	554	554	554	554	554	554	554	554	554	554	554	554	554	554	554	554	554	554	554	554	554	554	554	554	554	554	554
	Crosswalk – FBPS FMs	9	9	10	9	9	12	9	10	12	9	10	12	9	10	12	10	10	12	9	10	13	10	10	13	10	12	13
	Crosswalk – Standard FMs	188	189	163	189	189	202	189	162	202	189	162	203	189	165	203	162	165	203	189	165	203	162	165	203	165	203	203
FB_0539	Rate of Spread (ft/min)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	5.9	13.6	3.7	6.7	14.4	6.3	9.3	17.0	3.9	7.9	18.3	5.0	9.1	19.5	8.6	12.6	23.0
	Flame Length (ft)	2.6	3.6	5.3	2.9	3.9	5.5	3.8	4.5	5.9	3.2	4.5	6.6	3.7	4.8	6.8	4.7	5.6	7.3	4.0	5.6	8.2	4.5	5.9	8.4	5.8	6.9	9.1
	Reaction Intensity (1,000 BTU/ft²/min)	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6
	FCCS Fire Potentials	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543
	Crosswalk – FBPS FMs	9	9	10	9	9	10	9	10	10	9	10	12	9	10	12	10	10	12	9	10	13	10	10	13	10	12	13
	Crosswalk – Standard FMs	188	189	163	189	189	163	189	162	163	189	162	203	189	165	203	162	163	203	189	165	202	162	163	203	163	203	203

		FCCS Fire Behavior Predictions Managed Slash Pine Forests of the Southern United States																										
		D4L4C1 Moisture Scenario									D2L2C3 Moisture Scenario									D1L1C4 Moisture Scenario								
	Windspeed mph	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7
	Slope %	00	00	00	15	15	15	30	30	30	00	00	00	15	15	15	30	30	30	00	00	00	15	15	15	30	30	30
FB_0578	Rate of Spread (ft/min)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	5.9	13.9	3.6	6.7	14.8	6.1	9.2	17.3	3.7	8.0	18.8	4.8	9.1	19.9	8.2	12.5	23.3
	Flame Length (ft)	2.9	4.2	6.2	3.3	4.4	6.4	4.2	5.1	6.8	3.7	5.2	7.7	4.1	5.5	7.9	5.3	6.4	8.5	4.5	6.4	9.5	5.1	6.8	9.7	6.5	7.8	10.5
	Reaction Intensity (1,000 BTU/ft²/min)	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5
	FCCS Fire Potentials	654	654	654	654	654	654	654	654	654	654	654	654	654	654	654	654	654	654	654	654	654	654	654	654	654	654	654
	Crosswalk – FBPS FMs	9	10	12	9	10	12	10	10	12	9	10	12	10	10	12	10	12	13	10	12	13	10	12	13	12	12	13
	Crosswalk – Standard FMs	189	162	202	189	162	202	162	165	203	189	165	203	162	165	203	165	202	203	162	202	203	165	203	203	203	203	203
FB_0595	Rate of Spread (ft/min)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	9.7	29.2	4.2	10.4	29.9	7.1	12.4	32.0	4.3	12.3	36.9	5.6	13.1	37.7	9.5	15.8	40.4
	Flame Length (ft)	3.0	4.8	8.0	3.4	5.0	8.1	4.3	5.4	8.4	3.7	6.2	10.3	4.2	6.4	10.4	5.4	6.9	10.7	4.6	7.4	12.2	5.1	7.6	12.4	6.6	8.3	12.7
	Reaction Intensity (1,000 BTU/ft²/min)	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2
	FCCS Fire Potentials	733	733	733	733	733	733	733	733	733	733	733	733	733	733	733	733	733	733	733	733	733	733	733	733	733	733	733
	Crosswalk – FBPS FMs	9	10	13	9	10	13	10	10	13	9	12	13	10	12	13	10	12	13	10	12	5	10	12	5	12	13	5
	Crosswalk – Standard FMs	189	165	202	189	165	202	162	163	203	189	202	203	162	202	203	165	203	204	162	203	145	165	203	145	203	202	145

		FCCS Fire Behavior Predictions Managed Slash Pine Forests of the Southern United States																										
		D4L4C1 Moisture Scenario									D2L2C3 Moisture Scenario									D1L1C4 Moisture Scenario								
	Windspeed mph	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7
	Slope %	00	00	00	15	15	15	30	30	30	00	00	00	15	15	15	30	30	30	00	00	00	15	15	15	30	30	30
FB_0600	Rate of Spread (ft/min)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	4.8	13.7	3.0	5.5	13.9	5.1	7.6	14.7	3.1	6.5	17.6	4.0	7.5	17.9	6.9	10.3	19.0
	Flame Length (ft)	2.5	3.6	5.5	2.9	3.8	5.6	3.6	4.4	5.8	3.2	4.4	7.2	3.6	4.7	7.2	4.6	5.5	7.4	3.9	5.5	8.6	4.4	5.8	8.7	5.6	6.7	8.9
	Reaction Intensity (1,000 BTU/ft²/min)	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6
	FCCS Fire Potentials	554	554	554	554	554	554	554	554	554	554	554	554	554	554	554	554	554	554	554	554	554	554	554	554	554	554	554
	Crosswalk – FBPS FMs	9	9	10	9	9	10	9	10	10	9	10	12	9	10	12	10	10	12	9	10	13	10	10	13	10	12	13
	Crosswalk – Standard FMs	188	189	163	189	189	163	189	162	163	189	162	203	189	165	203	162	165	203	189	165	203	162	165	203	165	203	203
FB_0779	Rate of Spread (ft/min)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	4.9	15.3	1.5	5.0	15.5	2.5	5.6	16.1	1.6	6.2	19.4	2.0	6.4	19.6	3.4	7.2	20.4
	Flame Length (ft)	1.6	2.9	4.9	1.8	2.9	4.9	2.3	3.1	5.0	2.0	3.8	6.5	2.2	3.9	6.5	2.8	4.1	6.6	2.4	4.5	7.7	2.7	4.6	7.7	3.5	4.8	7.8
	Reaction Intensity (1,000 BTU/ft²/min)	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
	FCCS Fire Potentials	534	534	534	534	534	534	534	534	534	534	534	534	534	534	534	534	534	534	534	534	534	534	534	534	534	534	534
	Crosswalk – FBPS FMs	8	9	10	8	9	10	9	9	10	8	9	12	9	9	12	9	10	12	9	10	12	9	10	12	9	10	12
	Crosswalk – Standard FMs	188	189	163	188	189	163	185	189	163	188	189	203	185	189	203	189	161	203	185	162	203	188	162	203	189	165	203

		FCCS Fire Behavior Predictions Managed Slash Pine Forests of the Southern United States																										
		D4L4C1 Moisture Scenario									D2L2C3 Moisture Scenario									D1L1C4 Moisture Scenario								
	Windspeed mph	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7
	Slope %	00	00	00	15	15	15	30	30	30	00	00	00	15	15	15	30	30	30	00	00	00	15	15	15	30	30	30
FB_0787	Rate of Spread (ft/min)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	2.3	7.4	0.4	2.4	7.5	0.6	2.6	7.7	0.4	2.9	9.2	0.5	3.0	9.3	0.8	3.2	9.5
	Flame Length (ft)	0.8	1.8	3.1	0.8	1.9	3.1	1.0	1.9	3.2	1.0	2.4	4.1	1.1	2.5	4.2	1.3	2.6	4.2	1.2	2.8	4.8	1.3	2.8	4.8	1.5	3.0	4.9
	Reaction Intensity (1,000 BTU/ft^2/min)	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
	FCCS Fire Potentials	421	421	421	421	421	421	421	421	421	421	421	421	421	421	421	421	421	421	421	421	421	421	421	421	421	421	421
	Crosswalk – FBPS FMs	8	8	9	8	8	9	8	8	9	8	9	10	8	9	10	8	9	10	8	9	10	8	9	10	8	9	10
	Crosswalk – Standard FMs	183	188	189	183	188	189	183	188	189	183	185	162	183	185	164	187	188	164	187	189	163	187	189	163	188	189	163
FB_0788	Rate of Spread (ft/min)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	3.2	10.4	0.6	3.3	10.5	1.0	3.5	10.7	0.6	4.0	13.0	0.8	4.1	13.1	1.4	4.4	13.4
	Flame Length (ft)	0.9	2.1	3.6	1.0	2.1	3.6	1.3	2.2	3.7	1.1	2.8	4.8	1.3	2.8	4.8	1.6	2.9	4.8	1.4	3.2	5.6	1.5	3.3	5.6	2.0	3.4	5.6
	Reaction Intensity (1,000 BTU/ft^2/min)	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
	FCCS Fire Potentials	444	444	444	444	444	444	444	444	444	444	444	444	444	444	444	444	444	444	444	444	444	444	444	444	444	444	444
	Crosswalk – FBPS FMs	8	9	9	8	9	9	8	9	9	8	9	10	8	9	10	8	9	10	8	9	10	8	9	10	8	9	10
	Crosswalk – Standard FMs	183	183	189	183	183	189	187	183	189	187	188	163	187	188	163	188	189	163	187	189	163	188	189	163	188	189	163

		FCCS Fire Behavior Predictions Managed Slash Pine Forests of the Southern United States																										
		D4L4C1 Moisture Scenario									D2L2C3 Moisture Scenario										D1L1C4 Moisture Scenario								
	Windspeed mph	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	0	7
	Slope %	00	00	00	15	15	15	30	30	30	00	00	00	15	15	15	30	30	30	00	00	00	15	15	15	30	30	30
FB_0853	Rate of Spread (ft/min)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	5.3	14.1	3.3	6.1	14.4	5.6	8.4	15.5	3.4	7.2	18.0	4.4	8.2	18.4	7.5	11.3	21.0
	Flame Length (ft)	2.8	3.9	5.9	3.1	4.2	6.0	4.0	4.8	6.4	3.5	4.9	7.6	3.9	5.2	7.7	5.0	6.0	8.0	4.3	6.0	9.2	4.8	6.4	9.2	6.1	7.4	9.8
	Reaction Intensity (1,000 BTU/ft²/min)	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2
	FCCS Fire Potentials	544	544	544	544	544	544	544	544	544	544	544	544	544	544	544	544	544	544	544	544	544	544	544	544	544	544	544
	Crosswalk – FBPS FMs	9	9	10	9	10	12	10	10	12	9	10	12	9	10	12	10	12	12	10	10	13	10	12	13	12	12	13
	Crosswalk – Standard FMs	188	189	163	189	162	202	161	165	203	189	165	203	189	165	203	165	202	203	162	165	203	165	202	203	202	203	203
FB_0854	Rate of Spread (ft/min)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	5.5	14.1	3.3	6.2	14.3	5.6	8.5	16.0	3.4	7.4	17.9	4.4	8.4	18.6	7.5	11.5	21.7
	Flame Length (ft)	2.7	3.9	5.8	3.1	4.1	5.9	3.9	4.7	6.3	3.4	4.8	7.5	3.8	5.1	7.5	4.9	5.9	7.9	4.2	5.9	8.9	4.7	6.3	9.1	6.0	7.3	9.7
	Reaction Intensity (1,000 BTU/ft²/min)	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9
	FCCS Fire Potentials	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543
	Crosswalk – FBPS FMs	9	9	10	9	10	10	9	10	12	9	10	12	9	10	12	10	10	12	10	10	13	10	12	13	10	12	13
	Crosswalk – Standard FMs	188	189	163	189	161	163	189	165	202	189	165	203	189	165	203	165	163	203	162	165	203	165	202	203	165	203	203

		FCCS Fire Behavior Predictions Managed Slash Pine Forests of the Southern United States																										
		D4L4C1 Moisture Scenario									D2L2C3 Moisture Scenario									D1L1C4 Moisture Scenario								
	Windspeed mph	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	0	7
	Slope %	00	00	00	15	15	15	30	30	30	00	00	00	15	15	15	30	30	30	00	00	00	15	15	15	30	30	30
FB_0855	Rate of Spread (ft/min)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	4.7	13.4	3.0	5.4	13.7	5.1	7.5	14.6	3.1	6.4	17.1	4.0	7.3	17.5	6.9	10.1	18.8
	Flame Length (ft)	2.6	3.7	5.7	3.0	3.9	5.8	3.8	4.5	6.0	3.3	4.5	7.3	3.7	4.8	7.4	4.7	5.6	7.6	4.0	5.6	8.8	4.5	6.0	8.9	5.8	6.9	9.2
	Reaction Intensity (1,000 BTU/ft²/min)	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8
	FCCS Fire Potentials	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543
	Crosswalk – FBPS FMs	9	9	10	9	9	10	9	10	10	9	10	12	9	10	12	10	10	12	10	10	13	10	10	13	10	12	13
	Crosswalk – Standard FMs	188	189	163	189	189	163	189	162	163	189	162	203	189	165	203	162	165	203	161	165	203	162	165	203	165	203	203
FB_1040	Rate of Spread (ft/min)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	3.4	10.4	1.5	3.7	10.6	2.5	4.3	11.2	1.6	4.4	13.2	2.0	4.6	13.5	3.4	5.5	14.3
	Flame Length (ft)	1.6	2.5	4.2	1.8	2.6	4.2	2.3	2.8	4.3	2.0	3.3	5.4	2.2	3.4	5.5	2.8	3.6	5.6	2.4	3.9	6.4	2.7	4.0	6.5	3.5	4.3	6.7
	Reaction Intensity (1,000 BTU/ft²/min)	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
	FCCS Fire Potentials	443	443	443	443	443	443	443	443	443	443	443	443	443	443	443	443	443	443	443	443	443	443	443	443	443	443	443
	Crosswalk – FBPS FMs	8	9	10	8	9	10	9	9	10	8	9	10	9	9	10	9	9	10	9	9	12	9	9	12	9	10	12
	Crosswalk – Standard FMs	188	188	162	188	188	162	185	188	164	188	189	163	185	189	163	189	189	163	185	189	203	188	189	203	189	162	203

		FCCS Fire Behavior Predictions Managed Slash Pine Forests of the Southern United States																										
		D4L4C1 Moisture Scenario									D2L2C3 Moisture Scenario									D1L1C4 Moisture Scenario								
	Windspeed mph	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7
	Slope %	00	00	00	15	15	15	30	30	30	00	00	00	15	15	15	30	30	30	00	00	00	15	15	15	30	30	30
FB_1211	Rate of Spread (ft/min)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	4.4	13.6	2.1	4.6	13.9	3.6	5.4	14.5	2.2	5.5	17.1	2.8	5.7	17.3	4.8	7.3	18.2
	Flame Length (ft)	2.0	3.1	5.2	2.3	3.2	5.3	2.9	3.5	5.4	2.5	4.0	6.8	2.9	4.1	6.8	3.7	4.4	7.0	3.1	4.7	8.0	3.5	4.8	8.0	4.5	5.4	8.2
	Reaction Intensity (1,000 BTU/ft²/min)	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9
	FCCS Fire Potentials	531	531	531	531	531	531	531	531	531	531	531	531	531	531	531	531	531	531	531	531	531	531	531	531	531	531	531
	Crosswalk – FBPS FMs	9	9	10	9	9	10	9	9	10	9	10	12	9	10	12	9	10	12	9	10	12	9	10	13	10	10	13
	Crosswalk – Standard FMs	183	189	163	185	189	163	189	189	163	188	161	203	189	161	203	189	162	203	189	165	203	189	165	202	162	165	202
FB_1264	Rate of Spread (ft/min)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	5.9	14.2	3.7	6.8	14.6	6.3	9.4	17.2	3.9	8.0	18.5	5.0	9.2	19.7	8.6	12.7	23.2
	Flame Length (ft)	2.8	3.9	5.7	3.2	4.1	5.9	4.0	4.8	6.4	3.5	4.8	7.3	3.9	5.2	7.3	5.0	6.0	7.9	4.3	6.0	8.8	4.8	6.3	9.0	6.2	7.4	9.7
	Reaction Intensity (1,000 BTU/ft²/min)	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
	FCCS Fire Potentials	644	644	644	644	644	644	644	644	644	644	644	644	644	644	644	644	644	644	644	644	644	644	644	644	644	644	644
	Crosswalk – FBPS FMs	9	9	10	9	10	10	10	10	12	9	10	12	9	10	12	10	10	12	10	10	13	10	12	13	12	12	13
	Crosswalk – Standard FMs	188	189	163	189	162	163	161	165	202	189	165	203	189	165	203	165	163	203	162	165	203	165	202	203	202	203	203

		FCCS Fire Behavior Predictions Managed Slash Pine Forests of the Southern United States																										
		D4L4C1 Moisture Scenario									D2L2C3 Moisture Scenario										D1L1C4 Moisture Scenario								
	Windspeed mph	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7
	Slope %	00	00	00	15	15	15	30	30	30	00	00	00	15	15	15	30	30	30	00	00	00	15	15	15	30	30	30
FB_1308	Rate of Spread (ft/min)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	5.1	11.3	3.3	5.8	12.0	5.5	7.9	14.2	3.6	6.8	15.3	4.5	7.8	16.3	7.4	10.7	19.1
	Flame Length (ft)	2.1	2.8	4.1	2.3	3.0	4.2	2.9	3.5	4.6	2.6	3.5	5.1	2.9	3.8	5.3	3.7	4.3	5.7	3.3	4.4	6.4	3.6	4.7	6.6	4.6	5.4	7.1
	Reaction Intensity (1,000 BTU/ft²/min)	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
	FCCS Fire Potentials	502	502	502	502	502	502	502	502	502	502	502	502	502	502	502	502	502	502	502	502	502	502	502	502	502	502	502
	Crosswalk – FBPS FMs	9	9	10	9	9	10	9	9	10	9	9	10	9	9	10	9	10	10	9	10	12	9	10	12	10	10	12
	Crosswalk – Standard FMs	183	189	164	185	189	164	189	189	164	188	189	163	189	189	163	189	164	163	189	162	202	189	164	203	162	163	203
FB_1325	Rate of Spread (ft/min)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	5.2	12.1	3.3	6.0	12.9	5.6	8.3	15.2	3.4	7.1	16.4	4.4	8.1	17.4	7.5	11.2	20.5
	Flame Length (ft)	2.6	3.7	5.4	3.0	3.9	5.6	3.8	4.6	6.0	3.3	4.6	6.8	3.7	4.9	7.0	4.7	5.7	7.5	4.0	5.6	8.3	4.6	6.0	8.6	5.8	7.0	9.2
	Reaction Intensity (1,000 BTU/ft²/min)	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6
	FCCS Fire Potentials	544	544	544	544	544	544	544	544	544	544	544	544	544	544	544	544	544	544	544	544	544	544	544	544	544	544	544
	Crosswalk – FBPS FMs	9	9	10	9	9	10	9	10	12	9	10	12	9	10	12	10	10	12	10	10	13	10	12	13	10	12	13
	Crosswalk – Standard FMs	188	189	163	189	189	163	189	162	202	189	162	203	189	165	203	165	165	203	161	165	203	162	202	203	165	203	203

Table 10. FCCS fire behavior predictions for additional southern fuelbeds. Windspeed = input midflame wind speed (mph), Slope = input slope gradient. Surface fire behavior outputs include reaction intensity (BTU $ft^{-2}min^{-1}$), flame length (ft), and rate of spread (ft min^{-1}). The 3-digit FCCS fire potential code includes a combined index (0-9) of surface fire behavior, crown fire behavior, and available fuel potentials. Suggested crosswalks to the original 13 fire behavior fuel models (Rothermel 1972, Albini 1976) and standard 40 fire behavior fuel models (Scott and Burgan 2005) are also included. To convert rate of spread to ch/hr multiply ft/min by 0.9091.

		FCCS Fire Behavior Predictions																											
		Pine Forests, Mixed Conifer-Hardwood Forests, Hardwood Forests, Shrublands and Grasslands of the Southern United States																											
		D4L4C1 Moisture Scenario									**D2L2C3 Moisture Scenario**									**D1L1C4 Moisture Scenario**								
	Windspeed mph	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	
	Slope %	00	00	00	15	15	15	30	30	30	00	00	00	15	15	15	30	30	30	00	00	00	15	15	15	30	30	30	
FB_0165	Rate of Spread (ft/min)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	9.2	31.2	0.8	9.4	31.4	1.5	10.1	32.1	0.9	12.5	42.3	1.2	12.8	42.6	2.0	13.7	43.5	
	Flame Length (ft)	0.5	1.4	2.5	0.6	1.4	2.5	0.7	1.5	2.5	0.9	3.1	5.4	1.0	3.1	5.4	1.3	3.2	5.4	1.1	3.7	6.5	1.2	3.8	6.5	1.6	3.9	6.6	
	Reaction Intensity (1,000 BTU/ft²/min)	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	
	FCCS Fire Potentials	721	721	721	721	721	721	721	721	721	721	721	721	721	721	721	721	721	721	721	721	721	721	721	721	721	721	721	
	Crosswalk – FBPS FMs	8	8	11	8	8	11	8	8	11	8	11	6	8	11	6	8	11	6	8	6	1	8	6	1	8	6	1	
	Crosswalk – Standard FMs	183	185	201	183	185	201	183	185	201	183	201	144	184	201	144	187	202	146	184	142	109	187	142	109	186	142	109	
FB_0166	Rate of Spread (ft/min)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	11.7	39.5	1.2	12.0	39.8	2.2	13.0	40.8	1.1	15.6	52.6	1.5	16.0	53.1	2.9	17.4	54.5	
	Flame Length (ft)	1.6	4.5	7.9	1.7	4.6	7.9	2.1	4.7	8.0	2.1	7.3	12.8	2.5	7.4	12.8	3.4	7.7	13.0	2.6	8.7	15.3	3.0	8.9	15.4	4.0	9.2	15.6	
	Reaction Intensity (1,000 BTU/ft²/min)	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	
	FCCS Fire Potentials	864	864	864	864	864	864	864	864	864	864	864	864	864	864	864	864	864	864	864	864	864	864	864	864	864	864	864	
	Crosswalk – FBPS FMs	8	10	12	8	10	12	9	10	13	9	12	5	9	12	5	9	12	5	9	13	4	9	13	4	10	13	4	
	Crosswalk – Standard FMs	188	162	203	188	162	203	183	165	202	183	203	145	188	203	145	189	203	145	188	203	108	189	203	108	161	203	146	

		FCCS Fire Behavior Predictions Pine Forests, Mixed Conifer-Hardwood Forests, Hardwood Forests, Shrublands and Grasslands of the Southern United States																										
		D4L4C1 Moisture Scenario									D2L2C3 Moisture Scenario									D1L1C4 Moisture Scenario								
	Windspeed mph	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7
	Slope %	00	00	00	15	15	15	30	30	30	00	00	00	15	15	15	30	30	30	00	00	00	15	15	15	30	30	30
FB_0152 S	Rate of Spread (ft/min)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	6.6	16.6	4.0	7.5	17.0	6.8	10.3	19.4	4.1	8.9	21.2	5.4	10.2	22.4	9.2	14.0	26.2
	Flame Length (ft)	3.0	4.3	6.4	3.4	4.6	6.6	4.4	5.3	7.1	3.8	5.4	8.2	4.3	5.7	8.3	5.4	6.6	8.8	4.6	6.6	9.8	5.2	7.0	10.1	6.7	8.1	10.9
	Reaction Intensity (1,000 BTU/ft²/min)	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4
	FCCS Fire Potentials	653	653	653	653	653	653	653	653	653	653	653	653	653	653	653	653	653	653	653	653	653	653	653	653	653	653	653
	Crosswalk – FBPS FMs	9	10	12	9	10	12	10	10	12	9	10	13	10	10	13	10	12	13	10	12	13	10	12	13	12	13	13
	Crosswalk – Standard FMs	189	162	203	189	162	203	162	165	203	189	165	202	162	165	202	165	203	203	162	203	203	165	203	203	203	202	203
FB_0191	Rate of Spread (ft/min)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	8.1	26.9	2.5	8.3	27.1	3.7	9.0	27.8	2.8	10.5	34.7	3.4	10.8	35.0	5.0	11.7	35.9
	Flame Length (ft)	2.7	4.4	7.6	2.9	4.5	7.7	3.5	4.6	7.7	3.6	6.7	11.7	3.9	6.8	11.7	4.7	7.1	11.8	4.4	8.0	13.8	4.7	8.1	13.8	5.7	8.4	14.0
	Reaction Intensity (1,000 BTU/ft²/min)	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
	FCCS Fire Potentials	722	722	722	722	722	722	722	722	722	722	722	722	722	722	722	722	722	722	722	722	722	722	722	722	722	722	722
	Crosswalk – FBPS FMs	9	10	12	9	10	12	9	10	12	9	12	13	9	12	13	10	12	13	10	12	13	10	13	13	10	13	13
	Crosswalk – Standard FMs	188	162	203	189	162	203	189	162	203	189	203	203	189	203	203	162	203	203	162	203	204	165	202	204	165	203	204

		FCCS Fire Behavior Predictions Pine Forests, Mixed Conifer-Hardwood Forests, Hardwood Forests, Shrublands and Grasslands of the Southern United States																										
		D4L4C1 Moisture Scenario									D2L2C3 Moisture Scenario									D1L1C4 Moisture Scenario								
	Windspeed mph	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7
	Slope %	00	00	00	15	15	15	30	30	30	00	00	00	15	15	15	30	30	30	00	00	00	15	15	15	30	30	30
FB_0187	Rate of Spread (ft/min)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	9.8	31.4	4.1	10.2	31.7	6.0	11.2	32.8	4.7	13.8	44.0	5.6	14.3	44.5	8.1	15.8	46.1
	Flame Length (ft)	3.0	4.2	7.2	3.3	4.3	7.2	3.9	4.8	7.4	3.9	6.2	10.6	4.2	6.3	10.7	5.0	6.6	10.9	4.8	7.9	13.5	5.2	8.0	13.5	6.2	8.4	13.7
	Reaction Intensity (1,000 BTU/ft²/min)	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
	FCCS Fire Potentials	844	844	844	844	844	844	844	844	844	844	844	844	844	844	844	844	844	844	844	844	844	844	844	844	844	844	844
	Crosswalk – FBPS FMs	9	10	12	9	10	12	9	10	12	9	12	13	10	12	13	10	12	5	10	12	5	10	13	5	12	13	5
	Crosswalk – Standard FMs	189	162	203	189	162	203	189	165	203	189	202	203	162	202	204	165	203	145	165	203	145	165	202	145	202	203	145
FB_0448 S	Rate of Spread (ft/min)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	3.0	8.9	1.8	3.4	9.0	3.0	4.6	9.4	1.9	4.0	11.1	2.4	4.6	11.3	4.1	6.3	11.8
	Flame Length (ft)	1.8	2.5	4.0	2.0	2.7	4.1	2.5	3.1	4.1	2.2	3.1	5.2	2.5	3.3	5.2	3.2	3.9	5.3	2.7	3.8	6.1	3.0	4.1	6.2	3.9	4.7	6.3
	Reaction Intensity (1,000 BTU/ft²/min)	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
	FCCS Fire Potentials	422	422	422	422	422	422	422	422	422	422	422	422	422	422	422	422	422	422	422	422	422	422	422	422	422	422	422
	Crosswalk – FBPS FMs	8	9	10	8	9	10	9	9	10	9	9	10	9	9	10	9	9	10	9	9	12	9	10	12	9	10	12
	Crosswalk – Standard FMs	188	188	161	188	188	161	188	189	162	185	189	163	185	189	163	189	189	163	188	189	202	189	161	202	189	165	202

		FCCS Fire Behavior Predictions Pine Forests, Mixed Conifer-Hardwood Forests, Hardwood Forests, Shrublands and Grasslands of the Southern United States																										
		D4L4C1 Moisture Scenario									D2L2C3 Moisture Scenario									D1L1C4 Moisture Scenario								
	Windspeed mph	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7
	Slope %	00	00	00	15	15	15	30	30	30	00	00	00	15	15	15	30	30	30	00	00	00	15	15	15	30	30	30
FB_0282	Rate of Spread (ft/min)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	5.2	11.5	3.3	5.8	12.1	5.1	7.5	13.9	3.6	7.0	15.6	4.4	7.8	16.4	6.8	10.2	18.8
	Flame Length (ft)	1.6	2.1	3.1	1.7	2.3	3.2	2.1	2.6	3.4	2.0	2.7	3.9	2.2	2.8	4.0	2.7	3.2	4.2	2.5	3.3	4.8	2.7	3.5	4.9	3.3	3.9	5.2
	Reaction Intensity (1,000 BTU/ft^2/min)	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
	FCCS Fire Potentials	545	545	545	545	545	545	545	545	545	545	545	545	545	545	545	545	545	545	545	545	545	545	545	545	545	545	545
	Crosswalk – FBPS FMs	8	9	9	8	9	9	9	9	9	8	9	9	9	9	6	9	9	6	9	9	6	9	9	6	9	9	6
	Crosswalk – Standard FMs	186	183	164	186	186	164	183	188	164	186	188	148	183	189	142	188	189	142	186	189	144	188	164	144	189	146	144
FB_0178	Rate of Spread (ft/min)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	8.6	28.1	2.7	8.8	28.4	4.0	9.6	29.1	3.1	12.5	40.8	3.7	12.8	41.1	5.4	13.9	42.2
	Flame Length (ft)	2.1	3.4	5.8	2.3	3.4	5.8	2.7	3.5	5.9	2.7	4.9	8.5	2.9	5.0	8.5	3.4	5.1	8.6	3.3	6.3	10.9	3.6	6.4	10.9	4.3	6.6	11.0
	Reaction Intensity (1,000 BTU/ft^2/min)	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
	FCCS Fire Potentials	746	746	746	746	746	746	746	746	746	746	746	746	746	746	746	746	746	746	746	746	746	746	746	746	746	746	746
	Crosswalk – FBPS FMs	9	9	10	9	9	10	9	9	10	9	10	5	9	10	5	9	10	5	9	12	5	9	12	5	10	12	5
	Crosswalk – Standard FMs	183	189	163	185	189	163	188	189	163	188	163	147	189	163	147	189	163	147	189	202	145	189	203	145	162	203	145

		FCCS Fire Behavior Predictions Pine Forests, Mixed Conifer-Hardwood Forests, Hardwood Forests, Shrublands and Grasslands of the Southern United States																										
		D4L4C1 Moisture Scenario									D2L2C3 Moisture Scenario									D1L1C4 Moisture Scenario								
	Windspeed mph	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7
	Slope %	00	00	00	15	15	15	30	30	30	00	00	00	15	15	15	30	30	30	00	00	00	15	15	15	30	30	30
FB_0157	Rate of Spread (ft/min)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	4.9	10.9	3.0	5.3	11.4	4.4	6.7	12.7	3.4	6.6	14.7	4.0	7.2	15.3	5.9	9.1	17.2
	Flame Length (ft)	2.1	2.8	4.1	2.2	2.9	4.2	2.7	3.3	4.4	2.6	3.6	5.2	2.9	3.7	5.3	3.4	4.1	5.6	3.3	4.4	6.4	3.5	4.6	6.6	4.2	5.1	6.9
	Reaction Intensity (1,000 BTU/ft²/min)	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
	FCCS Fire Potentials	534	534	534	534	534	534	534	534	534	534	534	534	534	534	534	534	534	534	534	534	534	534	534	534	534	534	534
	Crosswalk – FBPS FMs	9	9	10	9	9	10	9	9	10	9	9	10	9	9	10	9	10	10	9	10	12	9	10	12	10	10	12
	Crosswalk – Standard FMs	183	189	162	185	189	164	188	189	164	188	189	163	189	189	163	189	162	163	189	162	203	189	162	203	162	163	203
FB_0158	Rate of Spread (ft/min)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Flame Length (ft)	1.4	1.9	2.9	1.5	2.0	2.9	1.8	2.2	3.0	1.9	2.8	4.8	2.0	2.8	4.8	2.4	2.93	4.8	2.3	3.5	6.1	2.5	3.5	6.1	3.0	3.6	6.1
	Reaction Intensity (1,000 BTU/ft²/min)	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
	FCCS Fire Potentials	649	649	649	649	649	649	649	649	649	649	649	649	649	649	649	649	649	649	649	649	649	649	649	649	649	649	649
	Crosswalk – FBPS FMs	8	8	11	8	8	11	8	9	11	8	9	6	9	9	6	9	9	6	9	9	5	9	9	5	9	9	5
	Crosswalk – Standard FMs	161	186	201	186	186	201	186	186	201	186	188	144	183	188	144	186	189	144	186	164	165	188	164	165	189	164	165

		FCCS Fire Behavior Predictions Pine Forests, Mixed Conifer-Hardwood Forests, Hardwood Forests, Shrublands and Grasslands of the Southern United States																										
		D4L4C1 Moisture Scenario									D2L2C3 Moisture Scenario									D1L1C4 Moisture Scenario								
	Windspeed mph	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7
	Slope %	00	00	00	15	15	15	30	30	30	00	00	00	15	15	15	30	30	30	00	00	00	15	15	15	30	30	30
FB_0183	Rate of Spread (ft/min)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	8.2	26.9	2.7	8.4	27.1	4.0	9.0	27.7	3.1	11.6	38.3	3.7	11.9	38.6	5.4	12.8	39.4
	Flame Length (ft)	2.5	3.9	6.7	2.7	3.9	6.7	3.2	4.0	6.8	3.2	5.7	9.8	3.4	5.8	9.9	4.1	5.9	10.0	4.0	7.3	12.6	4.3	7.3	12.6	5.1	7.6	12.7
	Reaction Intensity (1,000 BTU/ft²/min)	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8
	FCCS Fire Potentials	735	735	735	735	735	735	735	735	735	735	735	735	735	735	735	735	735	735	735	735	735	735	735	735	735	735	735
	Crosswalk – FBPS FMs	9	9	12	9	9	12	9	10	12	9	10	13	9	10	13	10	10	13	9	12	5	10	12	5	10	12	5
	Crosswalk – Standard FMs	185	189	203	188	189	203	189	161	203	189	165	203	189	165	203	161	163	203	189	203	145	162	203	145	165	203	145
FB_0402	Rate of Spread (ft/min)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Flame Length (ft)	1.9	3.1	5.4	2.0	3.2	5.1	2.4	3.3	5.5	2.4	4.5	7.8	2.55	4.6	7.8	3.1	4.8	7.9	2.9	5.8	10.0	3.2	5.91	10.1	3.8	6.2	10.2
	Reaction Intensity (1,000 BTU/ft²/min)	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
	FCCS Fire Potentials	755	755	755	755	755	755	755	755	755	755	755	755	755	755	755	755	755	755	755	755	755	755	755	755	755	755	755
	Crosswalk – FBPS FMs	8	9	10	9	9	10	9	9	10	9	10	5	9	10	5	9	10	5	9	10	5	9	10	5	9	12	5
	Crosswalk – Standard FMs	188	189	163	183	189	163	185	189	163	185	164	147	188	164	147	189	163	147	189	163	145	189	163	145	189	202	145

		FCCS Fire Behavior Predictions Pine Forests, Mixed Conifer-Hardwood Forests, Hardwood Forests, Shrublands and Grasslands of the Southern United States																										
		D4L4C1 Moisture Scenario									D2L2C3 Moisture Scenario									D1L1C4 Moisture Scenario								
	Windspeed mph	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7
	Slope %	00	00	00	15	15	15	30	30	30	00	00	00	15	15	15	30	30	30	00	00	00	15	15	15	30	30	30
FB_0114	Rate of Spread (ft/min)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	3.1	6.9	2.0	3.5	7.3	3.1	4.6	8.4	2.2	4.2	9.4	2.7	4.7	9.9	4.2	6.2	11.4
	Flame Length (ft)	0.9	1.3	1.8	1.0	1.3	1.9	1.3	1.5	2.0	1.3	1.8	2.5	1.4	1.9	2.6	1.8	2.1	2.8	1.6	2.2	3.1	1.8	2.3	3.2	2.2	2.6	3.4
	Reaction Intensity (1,000 BTU/ft²/min)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
	FCCS Fire Potentials	433	433	433	433	433	433	433	433	433	433	433	433	433	433	433	433	433	433	433	433	433	433	433	433	433	433	433
	Crosswalk – FBPS FMs	8	8	8	8	8	8	8	8	11	8	8	9	8	8	9	8	9	11	8	9	9	8	9	11	9	9	11
	Crosswalk – Standard FMs	183	161	186	184	185	186	161	186	185	187	186	162	161	186	162	186	183	201	186	183	164	186	186	202	183	188	202
FB_0164	Rate of Spread (ft/min)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	5.7	18.0	2.0	5.9	18.2	3.1	6.5	18.8	2.2	8.0	25.2	2.7	8.3	25.5	4.2	9.2	26.4
	Flame Length (ft)	1.0	1.4	2.4	1.1	1.5	2.4	1.3	1.6	2.5	1.4	2.4	4.1	1.5	2.5	4.2	1.9	2.6	4.2	1.7	3.0	5.1	1.8	3.1	5.1	2.3	3.2	5.2
	Reaction Intensity (1,000 BTU/ft²/min)	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
	FCCS Fire Potentials	652	652	652	652	652	652	652	652	652	652	652	652	652	652	652	652	652	652	652	652	652	652	652	652	652	652	652
	Crosswalk – FBPS FMs	8	8	11	8	8	11	8	8	11	8	9	6	8	9	6	8	9	6	8	9	6	8	9	6	9	9	6
	Crosswalk – Standard FMs	184	185	201	184	185	201	161	186	201	187	186	142	186	186	142	186	188	142	186	164	144	186	164	144	186	164	144

		FCCS Fire Behavior Predictions Pine Forests, Mixed Conifer-Hardwood Forests, Hardwood Forests, Shrublands and Grasslands of the Southern United States																										
		D4L4C1 Moisture Scenario									D2L2C3 Moisture Scenario									D1L1C4 Moisture Scenario								
	Windspeed mph	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7
	Slope %	00	00	00	15	15	15	30	30	30	00	00	00	15	15	15	30	30	30	00	00	00	15	15	15	30	30	30
FB_0097 S	Rate of Spread (ft/min)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	4.6	10.6	3.0	5.4	11.3	5.1	7.5	13.4	3.1	6.3	14.3	4.1	7.2	15.3	6.9	10.1	18.1
	Flame Length (ft)	1.4	1.9	2.8	1.6	2.1	2.9	2.0	2.4	3.2	1.8	2.5	3.6	2.0	2.6	3.7	2.6	3.1	4.0	2.2	3.0	4.5	2.5	3.2	4.6	3.2	3.8	5.0
	Reaction Intensity (1,000 BTU/ft²/min)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
	FCCS Fire Potentials	531	531	531	531	531	531	531	531	531	531	531	531	531	531	531	531	531	531	531	531	531	531	531	531	531	531	531
	Crosswalk – FBPS FMs	8	8	9	8	9	9	9	9	11	8	9	9	9	9	11	9	9	6	9	9	6	9	9	6	9	9	6
	Crosswalk – Standard FMs	187	186	164	186	183	164	183	186	202	186	186	146	183	188	202	188	189	142	185	189	142	186	189	142	189	146	144
FB_0180 S	Rate of Spread (ft/min)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	4.6	14.4	2.9	5.2	14.7	4.9	7.2	15.4	3.0	6.2	19.4	3.9	7.0	19.7	6.7	9.7	20.7
	Flame Length (ft)	1.4	1.9	2.9	1.6	2.0	2.9	2.0	2.4	3.1	1.8	2.5	4.2	2.0	2.6	4.2	2.6	3.1	4.3	2.2	3.1	5.2	2.5	3.2	5.2	3.2	3.8	5.4
	Reaction Intensity (1,000 BTU/ft²/min)	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
	FCCS Fire Potentials	501	501	501	501	501	501	501	501	501	501	501	501	501	501	501	501	501	501	501	501	501	501	501	501	501	501	501
	Crosswalk – FBPS FMs	8	8	9	8	9	9	8	9	11	8	9	6	9	9	6	9	9	6	9	9	6	9	9	6	9	9	6
	Crosswalk – Standard FMs	187	186	164	186	183	164	186	186	202	186	186	142	183	188	142	188	189	142	185	189	144	186	189	144	189	146	144

		FCCS Fire Behavior Predictions Pine Forests, Mixed Conifer-Hardwood Forests, Hardwood Forests, Shrublands and Grasslands of the Southern United States																										
		D4L4C1 Moisture Scenario									D2L2C3 Moisture Scenario										D1L1C4 Moisture Scenario								
	Windspeed mph	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7
	Slope %	00	00	00	15	15	15	30	30	30	00	00	00	15	15	15	30	30	30	00	00	00	15	15	15	30	30	30
FB_0269	Rate of Spread (ft/min)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	3.5	7.5	2.4	4.0	8.0	4.0	5.5	9.5	2.6	4.7	10.1	3.3	5.4	10.8	5.4	7.5	12.9
	Flame Length (ft)	1.5	2.0	2.8	1.7	2.1	2.9	2.1	2.5	3.2	2.1	2.8	4.0	2.4	3.0	4.1	3.0	3.5	4.5	2.7	3.5	5.0	3.0	3.7	5.1	3.7	4.3	5.6
	Reaction Intensity (1,000 BTU/ft²/min)	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
	FCCS Fire Potentials	406	406	406	406	406	406	406	406	406	406	406	406	406	406	406	406	406	406	406	406	406	406	406	406	406	406	406
	Crosswalk – FBPS FMs	8	8	9	8	9	9	9	9	9	9	9	9	9	9	10	9	9	10	9	9	10	9	9	10	9	10	10
	Crosswalk – Standard FMs	188	186	189	188	183	189	183	186	189	183	188	189	185	189	164	189	189	164	188	189	163	189	189	163	189	164	163
FB_0406	Rate of Spread (ft/min)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	3.6	7.8	2.4	4.0	8.2	3.6	5.3	9.5	2.6	4.8	10.5	3.2	5.4	11.1	4.9	7.1	12.8
	Flame Length (ft)	1.2	1.7	2.4	1.4	1.7	2.4	1.7	2.0	2.6	1.6	2.2	3.1	1.8	2.3	3.2	2.2	2.6	3.4	2.0	2.7	3.9	2.2	2.8	3.9	2.7	3.2	4.2
	Reaction Intensity (1,000 BTU/ft²/min)	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
	FCCS Fire Potentials	432	432	432	432	432	432	432	432	432	432	432	432	432	432	432	432	432	432	432	432	432	432	432	432	432	432	432
	Crosswalk – FBPS FMs	8	8	9	8	8	9	8	8	9	8	9	9	8	9	9	9	9	9	9	9	9	9	9	9	9	9	6
	Crosswalk – Standard FMs	187	186	186	187	186	186	186	186	162	186	183	164	186	186	164	186	188	164	183	188	148	185	189	148	188	189	142

		FCCS Fire Behavior Predictions Pine Forests, Mixed Conifer-Hardwood Forests, Hardwood Forests, Shrublands and Grasslands of the Southern United States																										
		D4L4C1 Moisture Scenario									D2L2C3 Moisture Scenario									D1L1C4 Moisture Scenario								
	Windspeed mph	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7
	Slope %	00	00	00	15	15	15	30	30	30	00	00	00	15	15	15	30	30	30	00	00	00	15	15	15	30	30	30
FB_1190 S	Rate of Spread (ft/min)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	4.3	9.7	2.8	4.9	10.3	4.8	6.9	12.3	2.9	5.7	13.1	3.8	6.6	13.9	6.4	9.3	16.6
	Flame Length (ft)	1.5	2.1	3.0	1.7	2.2	3.1	2.2	2.6	3.4	1.9	2.6	3.8	2.2	2.8	4.0	2.8	3.3	4.3	2.4	3.2	4.7	2.7	3.5	4.9	3.4	4.0	5.3
	Reaction Intensity (1,000 BTU/ft²/min)	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
	FCCS Fire Potentials	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543
	Crosswalk – FBPS FMs	8	9	9	8	9	9	9	9	9	8	9	9	9	9	9	9	9	10	9	9	10	9	9	10	9	10	6
	Crosswalk – Standard FMs	187	183	189	186	186	189	183	188	164	186	188	146	183	188	148	188	189	164	185	189	163	188	189	163	189	162	144
FB_0090	Rate of Spread (ft/min)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	3.3	7.0	2.4	3.8	7.5	3.9	5.4	9.0	2.5	4.4	9.4	3.2	5.1	10.1	5.3	7.2	12.2
	Flame Length (ft)	0.6	0.8	1.2	0.7	0.9	1.2	0.9	1.0	1.3	0.8	1.0	1.5	0.9	1.1	1.5	1.1	1.3	1.7	1.0	1.3	1.8	1.1	1.4	1.9	1.4	1.6	2.1
	Reaction Intensity (1,000 BTU/ft²/min)	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
	FCCS Fire Potentials	404	404	404	404	404	404	404	404	404	404	404	404	404	404	404	404	404	404	404	404	404	404	404	404	404	404	404
	Crosswalk – FBPS FMs	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	6
	Crosswalk – Standard FMs	183	183	185	183	183	185	183	184	185	183	184	185	183	184	186	185	185	186	184	185	186	184	185	186	185	186	142

		FCCS Fire Behavior Predictions Pine Forests, Mixed Conifer-Hardwood Forests, Hardwood Forests, Shrublands and Grasslands of the Southern United States																										
		D4L4C1 Moisture Scenario									D2L2C3 Moisture Scenario									D1L1C4 Moisture Scenario								
	Windspeed mph	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7
	Slope %	00	00	00	15	15	15	30	30	30	00	00	00	15	15	15	30	30	30	00	00	00	15	15	15	30	30	30
FB_0123	Rate of Spread (ft/min)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	5.8	13.2	3.4	6.3	13.8	5.2	8.1	15.5	3.9	7.8	17.8	4.7	8.6	18.6	7.0	10.9	20.9
	Flame Length (ft)	1.8	2.5	3.7	2.0	2.6	3.8	2.4	2.9	4.0	2.3	3.2	4.7	2.5	3.3	4.8	3.0	3.7	5.0	2.9	4.0	5.8	3.1	4.2	5.9	3.8	4.6	6.3
	Reaction Intensity (1,000 BTU/ft²/min)	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
	FCCS Fire Potentials	504	504	504	504	504	504	504	504	504	504	504	504	504	504	504	504	504	504	504	504	504	504	504	504	504	504	504
	Crosswalk – FBPS FMs	8	9	9	8	9	9	9	9	9	9	9	10	9	9	10	9	9	6	9	9	6	9	10	6	9	10	5
	Crosswalk – Standard FMs	186	188	164	186	188	146	186	189	148	185	189	164	188	189	163	189	164	144	189	146	144	189	164	144	189	164	147
FB_0264	Rate of Spread (ft/min)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	7.8	26.0	1.8	8.0	26.2	2.8	8.7	26.9	2.0	10.4	34.6	2.4	10.7	34.9	3.8	11.6	35.9
	Flame Length (ft)	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.1	4.4	7.7	2.3	4.5	7.7	2.8	4.6	7.8	2.5	5.4	9.4	2.8	5.4	9.4	3.4	5.7	9.5
	Reaction Intensity (1,000 BTU/ft²/min)	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4
	FCCS Fire Potentials	731	731	731	731	731	731	731	731	731	731	731	731	731	731	731	731	731	731	731	731	731	731	731	731	731	731	731
	Crosswalk – FBPS FMs	8	8	8	8	8	8	8	8	8	9	10	5	9	10	5	9	10	5	9	10	5	9	10	5	9	10	5
	Crosswalk – Standard FMs	187	187	187	187	187	187	187	187	187	183	164	147	185	164	147	188	164	147	188	163	145	188	163	145	189	163	145

		FCCS Fire Behavior Predictions Pine Forests, Mixed Conifer-Hardwood Forests, Hardwood Forests, Shrublands and Grasslands of the Southern United States																										
		D4L4C1 Moisture Scenario									D2L2C3 Moisture Scenario									D1L1C4 Moisture Scenario								
	Windspeed mph	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7
	Slope %	00	00	00	15	15	15	30	30	30	00	00	00	15	15	15	30	30	30	00	00	00	15	15	15	30	30	30
FB_0275	Rate of Spread (ft/min)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	3.4	10.8	2.2	3.7	10.8	3.2	4.8	11.1	2.4	4.6	14.2	2.9	5.0	14.3	4.4	6.5	14.7
	Flame Length (ft)	1.8	2.4	3.5	2.0	2.5	3.5	2.4	2.8	3.8	2.4	3.3	5.5	2.6	3.4	5.6	3.2	3.8	5.6	3.0	4.0	6.7	3.2	4.2	6.7	3.9	4.7	6.8
	Reaction Intensity (1,000 BTU/ft^2/min)	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
	FCCS Fire Potentials	403	403	403	403	403	403	403	403	403	403	403	403	403	403	403	403	403	403	403	403	403	403	403	403	403	403	403
	Crosswalk – FBPS FMs	8	9	9	8	9	9	9	9	9	9	9	10	9	9	10	9	9	10	9	9	12	9	10	12	9	10	12
	Crosswalk – Standard FMs	188	185	189	188	188	189	185	189	189	185	189	163	188	189	163	189	189	163	189	189	203	189	162	203	189	162	203
FB_0407	Rate of Spread (ft/min)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	4.0	8.7	2.7	4.5	9.2	4.2	6.0	10.7	3.0	5.4	11.7	3.7	6.1	12.4	5.7	8.1	14.4
	Flame Length (ft)	1.4	1.8	2.6	1.5	1.9	2.7	1.9	2.2	2.9	1.8	2.3	3.3	1.9	2.5	3.4	2.4	2.8	3.6	2.2	2.9	4.1	2.4	3.1	4.2	3.0	3.5	4.5
	Reaction Intensity (1,000 BTU/ft^2/min)	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
	FCCS Fire Potentials	432	432	432	432	432	432	432	432	432	432	432	432	432	432	432	432	432	432	432	432	432	432	432	432	432	432	432
	Crosswalk – FBPS FMs	8	8	9	8	8	9	8	9	9	8	9	9	8	9	9	9	9	9	9	9	10	9	9	10	9	9	6
	Crosswalk – Standard FMs	187	186	188	186	186	188	186	186	164	186	186	164	186	186	164	186	188	146	185	189	164	186	189	164	189	164	142

		FCCS Fire Behavior Predictions Pine Forests, Mixed Conifer-Hardwood Forests, Hardwood Forests, Shrublands and Grasslands of the Southern United States																										
		D4L4C1 Moisture Scenario									D2L2C3 Moisture Scenario									D1L1C4 Moisture Scenario								
	Windspeed mph	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7
	Slope %	00	00	00	15	15	15	30	30	30	00	00	00	15	15	15	30	30	30	00	00	00	15	15	15	30	30	30
FB_0431	Rate of Spread (ft/min)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	3.6	9.3	2.4	4.1	9.4	4.0	5.6	9.9	2.6	4.8	12.7	3.3	5.5	12.8	5.4	7.6	13.3
	Flame Length (ft)	1.4	1.9	2.7	1.6	2.0	2.8	2.0	2.3	3.0	1.9	2.6	4.0	2.2	2.7	4.0	2.7	3.2	4.1	2.4	3.2	5.0	2.7	3.4	5.0	3.4	3.9	5.1
	Reaction Intensity (1,000 BTU/ft²/min)	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
	FCCS Fire Potentials	402	402	402	402	402	402	402	402	402	402	402	402	402	402	402	402	402	402	402	402	402	402	402	402	402	402	402
	Crosswalk – FBPS FMs	8	8	9	8	8	9	8	9	9	8	9	10	9	9	10	9	9	10	9	9	10	9	9	10	9	9	10
	Crosswalk – Standard FMs	187	186	188	188	186	188	186	186	189	186	188	162	183	188	162	188	189	162	185	189	163	188	189	163	189	189	163
FB_1154 S	Rate of Spread (ft/min)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	4.5	10.0	3.0	5.2	10.7	5.1	7.3	12.8	3.1	6.0	13.4	4.1	7.0	14.4	6.9	9.8	17.2
	Flame Length (ft)	1.6	2.2	3.2	1.8	2.3	3.3	2.3	2.7	3.6	2.0	2.7	4.0	2.3	2.9	4.1	2.9	3.4	4.4	2.5	3.4	4.9	2.9	3.6	5.1	3.6	4.3	5.5
	Reaction Intensity (1,000 BTU/ft²/min)	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
	FCCS Fire Potentials	521	521	521	521	521	521	521	521	521	521	521	521	521	521	521	521	521	521	521	521	521	521	521	521	521	521	521
	Crosswalk – FBPS FMs	8	9	9	8	9	9	9	9	9	9	9	9	9	9	10	9	9	10	9	9	10	9	9	10	9	10	6
	Crosswalk – Standard FMs	188	185	189	186	186	164	186	188	164	183	188	146	185	189	162	189	189	164	188	189	163	189	189	163	189	164	144

		FCCS Fire Behavior Predictions Pine Forests, Mixed Conifer-Hardwood Forests, Hardwood Forests, Shrublands and Grasslands of the Southern United States																										
		D4L4C1 Moisture Scenario									D2L2C3 Moisture Scenario									D1L1C4 Moisture Scenario								
	Windspeed mph	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7
	Slope %	00	00	00	15	15	15	30	30	30	00	00	00	15	15	15	30	30	30	00	00	00	15	15	15	30	30	30
FB_1395 S	Rate of Spread (ft/min)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	1.7	5.2	1.2	2.0	5.3	2.0	2.8	5.7	1.2	2.3	7.1	1.6	2.7	7.2	2.7	3.8	7.7
	Flame Length (ft)	1.0	1.4	2.3	1.2	1.5	2.3	1.5	1.8	2.4	1.3	1.7	2.9	1.5	1.9	2.9	1.9	2.2	3.0	1.6	2.2	3.6	1.8	2.3	3.7	2.3	2.7	3.8
	Reaction Intensity (1,000 BTU/ft²/min)	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
	FCCS Fire Potentials	343	343	343	343	343	343	343	343	343	343	343	343	343	343	343	343	343	343	343	343	343	343	343	343	343	343	343
	Crosswalk – FBPS FMs	8	8	9	8	8	9	8	8	9	8	8	9	8	8	9	8	9	9	8	9	9	8	9	9	9	9	9
	Crosswalk – Standard FMs	183	187	186	187	187	186	188	186	186	187	188	189	187	186	189	186	183	189	188	183	189	188	185	189	185	188	146
FB_1660 S	Rate of Spread (ft/min)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	4.1	9.0	2.8	4.7	9.7	4.8	6.7	11.6	2.9	5.5	12.1	3.8	6.4	13.0	6.4	9.0	15.7
	Flame Length (ft)	1.5	2.0	2.9	1.7	2.2	3.0	2.2	2.6	3.3	1.9	2.5	3.7	2.1	2.7	3.8	2.7	3.2	4.1	2.4	3.2	4.6	2.7	3.4	4.7	3.4	4.0	5.1
	Reaction Intensity (1,000 BTU/ft²/min)	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
	FCCS Fire Potentials	502	502	502	502	502	502	502	502	502	502	502	502	502	502	502	502	502	502	502	502	502	502	502	502	502	502	502
	Crosswalk – FBPS FMs	8	9	9	8	9	9	9	9	9	8	9	9	9	9	9	9	9	10	9	9	10	9	9	10	9	9	6
	Crosswalk – Standard FMs	188	183	189	186	183	189	183	188	164	186	188	164	183	188	146	188	189	162	185	189	164	188	189	163	189	146	144

		FCCS Fire Behavior Predictions Pine Forests, Mixed Conifer-Hardwood Forests, Hardwood Forests, Shrublands and Grasslands of the Southern United States																										
		D4L4C1 Moisture Scenario									D2L2C3 Moisture Scenario									D1L1C4 Moisture Scenario								
	Windspeed mph	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7
	Slope %	00	00	00	15	15	15	30	30	30	00	00	00	15	15	15	30	30	30	00	00	00	15	15	15	30	30	30
FB_0283	Rate of Spread (ft/min)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.6	1.8	0.4	0.7	1.8	0.8	1.1	1.9	0.4	0.8	2.4	0.6	0.9	2.4	1.1	1.4	2.5
	Flame Length (ft)	0.3	0.4	0.6	0.4	0.4	0.6	0.5	0.5	0.7	0.4	0.5	0.9	0.5	0.6	0.9	0.6	0.7	0.9	0.5	0.7	1.1	0.6	0.7	1.1	0.8	0.9	1.1
	Reaction Intensity (1,000 BTU/ft²/min)	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
	FCCS Fire Potentials	201	201	201	201	201	201	201	201	201	201	201	201	201	201	201	201	201	201	201	201	201	201	201	201	201	201	201
	Crosswalk – FBPS FMs	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
	Crosswalk – Standard FMs	181	181	183	181	181	183	181	183	183	181	183	183	181	183	183	183	183	183	181	183	184	183	183	184	183	183	185
FB_0425	Rate of Spread (ft/min)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	4.1	9.0	2.6	4.5	9.4	4.0	5.9	10.8	2.9	5.5	12.1	3.5	6.1	12.7	5.4	8.0	14.6
	Flame Length (ft)	1.6	2.1	3.0	1.7	2.2	3.1	2.1	2.5	3.3	2.1	2.8	4.1	2.3	3.0	4.2	2.8	3.4	4.4	2.6	3.5	5.0	2.8	3.6	5.1	3.4	4.1	5.4
	Reaction Intensity (1,000 BTU/ft²/min)	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
	FCCS Fire Potentials	554	554	554	554	554	554	554	554	554	554	554	554	554	554	554	554	554	554	554	554	554	554	554	554	554	554	554
	Crosswalk – FBPS FMs	8	9	9	8	9	9	9	9	9	9	9	10	9	9	10	9	9	10	9	9	10	9	9	10	9	10	10
	Crosswalk – Standard FMs	188	183	189	186	185	189	183	186	164	183	189	162	185	189	164	188	189	164	188	189	163	189	189	163	189	162	163

		FCCS Fire Behavior Predictions Pine Forests, Mixed Conifer-Hardwood Forests, Hardwood Forests, Shrublands and Grasslands of the Southern United States																										
		D4L4C1 Moisture Scenario									D2L2C3 Moisture Scenario									D1L1C4 Moisture Scenario								
	Windspeed mph	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7
	Slope %	00	00	00	15	15	15	30	30	30	00	00	00	15	15	15	30	30	30	00	00	00	15	15	15	30	30	30
FB_0949 S	Rate of Spread (ft/min)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.7	2.3	0.4	0.7	2.4	0.7	1.0	2.4	0.4	0.9	3.0	0.5	1.0	3.0	1.0	1.4	3.2
	Flame Length (ft)	0.3	0.5	0.8	0.4	0.5	0.8	0.5	0.6	0.8	0.4	0.7	1.2	0.5	0.7	1.2	0.7	0.8	1.2	0.5	0.8	1.4	0.6	0.8	1.4	0.8	1.0	1.4
	Reaction Intensity (1,000 BTU/ft²/min)	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
	FCCS Fire Potentials	201	201	201	201	201	201	201	201	201	201	201	201	201	201	201	201	201	201	201	201	201	201	201	201	201	201	201
	Crosswalk – FBPS FMs	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
	Crosswalk – Standard FMs	181	181	183	181	183	183	183	183	183	181	183	161	183	183	161	183	183	161	183	183	185	183	183	185	183	183	185
FB_1494 S	Rate of Spread (ft/min)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	1.3	3.0	0.9	1.6	3.3	1.5	2.2	3.9	0.9	1.8	4.1	1.2	2.1	4.4	2.1	2.9	5.2
	Flame Length (ft)	0.8	1.0	1.5	0.9	1.1	1.6	1.1	1.3	1.7	1.0	1.3	1.9	1.1	1.4	2.0	1.4	1.7	2.2	1.2	1.6	2.4	1.3	1.7	2.4	1.7	2.0	2.6
	Reaction Intensity (1,000 BTU/ft²/min)	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
	FCCS Fire Potentials	354	354	354	354	354	354	354	354	354	354	354	354	354	354	354	354	354	354	354	354	354	354	354	354	354	354	354
	Crosswalk – FBPS FMs	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	9	8	8	9	8	8	9	8	9	9
	Crosswalk – Standard FMs	183	184	186	183	184	186	184	187	186	183	187	186	184	187	186	187	186	183	187	188	186	187	186	186	186	183	188

		FCCS Fire Behavior Predictions Pine Forests, Mixed Conifer-Hardwood Forests, Hardwood Forests, Shrublands and Grasslands of the Southern United States																										
		D4L4C1 Moisture Scenario									D2L2C3 Moisture Scenario									D1L1C4 Moisture Scenario								
	Windspeed mph	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7
	Slope %	00	00	00	15	15	15	30	30	30	00	00	00	15	15	15	30	30	30	00	00	00	15	15	15	30	30	30
FB_1495 S	Rate of Spread (ft/min)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	4.3	9.3	3.1	5.0	10.0	5.2	7.2	12.2	3.2	5.8	12.6	4.2	6.8	13.5	7.0	9.7	16.4
	Flame Length (ft)	1.8	2.3	3.3	2.0	2.5	3.4	2.5	2.9	3.7	2.2	2.9	4.1	2.5	3.1	4.3	3.2	3.6	4.7	2.7	3.6	5.1	3.1	3.9	5.3	3.9	4.5	5.8
	Reaction Intensity (1,000 BTU/ft^2/min)	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
	FCCS Fire Potentials	514	514	514	514	514	514	514	514	514	514	514	514	514	514	514	514	514	514	514	514	514	514	514	514	514	514	514
	Crosswalk – FBPS FMs	8	9	9	8	9	9	9	9	9	9	9	10	9	9	10	9	9	10	9	9	10	9	9	10	9	10	10
	Crosswalk – Standard FMs	188	185	189	186	186	189	188	189	164	185	189	162	185	189	164	189	189	164	188	189	163	189	189	163	189	164	163

		FCCS Fire Behavior Predictions Pine Forests, Mixed Conifer-Hardwood Forests, Hardwood Forests, Shrublands and Grasslands of the Southern United States																										
		D4L4C1 Moisture Scenario									D2L2C3 Moisture Scenario									D1L1C4 Moisture Scenario								
	Windspeed mph	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7
	Slope %	00	00	00	15	15	15	30	30	30	00	00	00	15	15	15	30	30	30	00	00	00	15	15	15	30	30	30
FB_0184	Rate of Spread (ft/min)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	6.0	15.9	3.6	6.5	16.0	5.1	8.0	16.4	4.2	8.1	20.2	4.8	8.7	20.3	6.9	10.8	20.9
	Flame Length (ft)	2.3	3.1	4.5	2.4	3.2	4.5	2.9	3.5	4.8	3.0	4.0	6.3	3.2	4.2	6.3	3.7	4.6	6.4	3.6	4.9	7.4	3.9	5.1	7.5	4.5	5.6	7.5
	Reaction Intensity (1,000 BTU/ft²/min)	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
	FCCS Fire Potentials	562	562	562	562	562	562	562	562	562	562	562	562	562	562	562	562	562	562	562	562	562	562	562	562	562	562	562
	Crosswalk – FBPS FMs	9	9	10	9	9	10	9	9	10	9	10	12	9	10	12	9	10	12	9	10	12	9	10	12	10	10	12
	Crosswalk – Standard FMs	185	189	164	185	189	164	189	189	163	189	161	202	189	162	202	189	164	203	189	165	203	189	163	203	162	163	203
FB_0185	Rate of Spread (ft/min)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	5.3	17.6	2.8	5.5	17.8	4.1	6.3	18.2	3.1	7.2	23.8	3.7	7.5	24.0	5.5	8.5	24.7
	Flame Length (ft)	0.9	1.2	1.8	1.0	1.3	1.8	1.2	1.4	1.9	1.3	1.8	3.2	1.4	1.9	3.2	1.6	2.0	3.2	1.5	2.3	3.9	1.7	2.3	3.9	2.0	2.4	4.0
	Reaction Intensity (1,000 BTU/ft²/min)	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
	FCCS Fire Potentials	641	641	641	641	641	641	641	641	641	641	641	641	641	641	641	641	641	641	641	641	641	641	641	641	641	641	641
	Crosswalk – FBPS FMs	8	8	8	8	8	8	8	8	8	8	8	6	8	8	6	8	8	6	8	11	2	8	11	2	8	11	2
	Crosswalk – Standard FMs	183	185	186	183	185	186	185	185	186	161	186	142	185	186	142	186	186	142	186	185	101	186	185	101	186	201	101

		FCCS Fire Behavior Predictions Pine Forests, Mixed Conifer-Hardwood Forests, Hardwood Forests, Shrublands and Grasslands of the Southern United States																										
		D4L4C1 Moisture Scenario									D2L2C3 Moisture Scenario									D1L1C4 Moisture Scenario								
	Windspeed mph	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7
	Slope %	00	00	00	15	15	15	30	30	30	00	00	00	15	15	15	30	30	30	00	00	00	15	15	15	30	30	30
FB_0186	Rate of Spread (ft/min)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	5.7	12.5	3.5	6.2	13.0	5.1	7.8	14.6	4.1	7.6	16.8	4.8	8.4	17.6	6.9	10.5	19.7
	Flame Length (ft)	1.3	1.7	2.5	1.4	1.8	2.6	1.7	2.0	2.7	1.8	2.4	3.4	1.9	2.5	3.4	2.3	2.7	3.6	2.2	2.9	4.2	2.3	3.0	4.2	2.8	3.4	4.5
	Reaction Intensity (1,000 BTU/ft²/min)	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
	FCCS Fire Potentials	501	501	501	501	501	501	501	501	501	501	501	501	501	501	501	501	501	501	501	501	501	501	501	501	501	501	501
	Crosswalk – FBPS FMs	8	8	11	8	8	11	8	9	11	8	9	6	8	9	6	9	9	6	9	9	6	9	9	6	9	11	6
	Crosswalk – Standard FMs	161	186	201	185	186	201	186	183	201	186	186	142	186	186	142	186	162	142	183	189	142	186	164	142	162	202	142
FB_1623 S	Rate of Spread (ft/min)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	4.8	11.1	2.9	5.4	11.7	4.6	7.1	13.4	3.1	6.5	15.0	3.9	7.2	15.8	6.2	9.5	18.1
	Flame Length (ft)	1.6	2.2	3.2	1.7	2.3	3.3	2.1	2.6	3.5	1.9	2.7	4.0	2.1	2.9	4.1	2.7	3.2	4.4	2.4	3.4	5.0	2.7	3.6	5.1	3.3	4.0	5.4
	Reaction Intensity (1,000 BTU/ft²/min)	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
	FCCS Fire Potentials	541	541	541	541	541	541	541	541	541	541	541	541	541	541	541	541	541	541	541	541	541	541	541	541	541	541	541
	Crosswalk – FBPS FMs	8	9	9	8	9	9	9	9	9	8	9	9	9	9	10	9	9	6	9	9	6	9	9	6	9	10	6
	Crosswalk – Standard FMs	188	183	164	186	186	164	183	188	164	186	188	148	183	189	162	188	189	142	185	189	144	188	189	144	189	162	144

		FCCS Fire Behavior Predictions Pine Forests, Mixed Conifer-Hardwood Forests, Hardwood Forests, Shrublands and Grasslands of the Southern United States																										
		D4L4C1 Moisture Scenario									D2L2C3 Moisture Scenario									D1L1C4 Moisture Scenario								
	Windspeed mph	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7
	Slope %	00	00	00	15	15	15	30	30	30	00	00	00	15	15	15	30	30	30	00	00	00	15	15	15	30	30	30
FB_0120	Rate of Spread (ft/min)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	8.6	28.9	2.6	8.7	29.1	3.9	9.2	29.6	3.0	11.5	38.7	3.5	11.7	39.0	5.2	12.4	39.7
	Flame Length (ft)	2.4	3.8	6.6	2.6	3.8	6.6	3.1	3.9	6.7	3.4	6.3	11.0	3.6	6.3	11.0	4.3	6.5	11.1	4.1	7.6	13.3	4.4	7.7	13.3	5.3	7.9	13.4
	Reaction Intensity (1,000 BTU/ft²/min)	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8
	FCCS Fire Potentials	744	744	744	744	744	744	744	744	744	744	744	744	744	744	744	744	744	744	744	744	744	744	744	744	744	744	744
	Crosswalk – FBPS FMs	9	9	12	9	9	12	9	9	12	9	12	13	9	12	13	10	12	13	10	12	13	10	12	13	10	12	13
	Crosswalk – Standard FMs	185	189	203	188	189	203	189	189	203	189	202	204	189	202	204	162	203	204	161	203	204	162	203	204	165	203	204
FB_0121	Rate of Spread (ft/min)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	15.3	51.2	3.1	15.6	51.5	4.5	16.6	52.5	3.5	21.9	73.3	4.1	22.4	73.8	6.1	23.8	75.2
	Flame Length (ft)	3.5	6.6	11.4	3.8	6.6	11.5	4.5	6.8	11.6	4.7	10.6	18.5	5.1	10.7	18.6	6.1	11.0	18.7	5.7	13.4	23.3	6.2	13.5	23.4	7.4	13.9	23.6
	Reaction Intensity (1,000 BTU/ft²/min)	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6
	FCCS Fire Potentials	949	949	949	949	949	949	949	949	949	949	949	949	949	949	949	949	949	949	949	949	949	949	949	949	949	949	949
	Crosswalk – FBPS FMs	9	12	13	9	12	13	10	12	13	10	13	13	10	13	13	12	13	13	10	13	4	12	13	4	12	13	4
	Crosswalk – Standard FMs	189	203	203	189	203	203	162	203	203	162	203	204	165	203	204	202	203	204	165	203	108	202	203	108	203	203	108

		FCCS Fire Behavior Predictions Pine Forests, Mixed Conifer-Hardwood Forests, Hardwood Forests, Shrublands and Grasslands of the Southern United States																										
		D4L4C1 Moisture Scenario									D2L2C3 Moisture Scenario									D1L1C4 Moisture Scenario								
	Windspeed mph	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7
	Slope %	00	00	00	15	15	15	30	30	30	00	00	00	15	15	15	30	30	30	00	00	00	15	15	15	30	30	30
FB_0283 M	Rate of Spread (ft/min)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.6	1.8	0.4	0.7	1.8	0.8	1.1	1.9	0.4	0.8	2.4	0.6	0.9	2.4	1.1	1.4	2.5
	Flame Length (ft)	0.3	0.4	0.6	0.4	0.4	0.6	0.5	0.5	0.7	0.4	0.5	0.9	0.5	0.6	0.9	0.6	0.7	0.9	0.5	0.7	1.1	0.6	0.7	1.1	0.8	0.9	1.1
	Reaction Intensity (1,000 BTU/ft²/min)	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
	FCCS Fire Potentials	201	201	201	201	201	201	201	201	201	201	201	201	201	201	201	201	201	201	201	201	201	201	201	201	201	201	201
	Crosswalk – FBPS FMs	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
	Crosswalk – Standard FMs	181	181	183	181	181	183	181	183	183	181	183	183	181	183	183	183	183	183	181	183	184	183	183	184	183	183	185
FB_0006 S	Rate of Spread (ft/min)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	3.8	8.0	2.6	4.3	8.5	4.0	5.7	9.9	2.9	5.1	10.8	3.6	5.8	11.5	5.5	7.7	13.4
	Flame Length (ft)	1.4	1.8	2.6	1.6	1.9	2.7	1.9	2.2	2.9	1.8	2.3	3.3	1.9	2.4	3.3	2.4	2.8	3.6	2.2	2.9	4.0	2.4	3.0	4.1	2.9	3.4	4.5
	Reaction Intensity (1,000 BTU/ft²/min)	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
	FCCS Fire Potentials	422	422	422	422	422	422	422	422	422	422	422	422	422	422	422	422	422	422	422	422	422	422	422	422	422	422	422
	Crosswalk – FBPS FMs	8	8	9	8	8	9	8	9	9	8	9	9	8	9	9	9	9	9	9	9	10	9	9	10	9	9	6
	Crosswalk – Standard FMs	187	186	188	186	186	188	186	186	189	186	186	164	186	186	164	186	188	164	185	189	162	186	189	164	189	189	142

		FCCS Fire Behavior Predictions Pine Forests, Mixed Conifer-Hardwood Forests, Hardwood Forests, Shrublands and Grasslands of the Southern United States																										
		D4L4C1 Moisture Scenario									D2L2C3 Moisture Scenario									D1L1C4 Moisture Scenario								
	Windspeed mph	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7
	Slope %	00	00	00	15	15	15	30	30	30	00	00	00	15	15	15	30	30	30	00	00	00	15	15	15	30	30	30
FB_0288	Rate of Spread (ft/min)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	2.3	5.2	1.5	2.7	5.5	2.5	3.6	6.5	1.6	3.2	7.0	2.1	3.6	7.5	3.4	4.9	8.8
	Flame Length (ft)	0.8	1.1	1.5	0.9	1.1	1.6	1.1	1.3	1.7	1.0	1.4	2.0	1.1	1.4	2.0	1.4	1.7	2.2	1.3	1.7	2.4	1.4	1.8	2.5	1.7	2.1	2.7
	Reaction Intensity (1,000 BTU/ft²/min)	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
	FCCS Fire Potentials	332	332	332	332	332	332	332	332	332	332	332	332	332	332	332	332	332	332	332	332	332	332	332	332	332	332	332
	Crosswalk – FBPS FMs	8	8	8	8	8	8	8	8	8	8	8	8	8	8	9	8	8	9	8	8	9	8	8	9	8	9	11
	Crosswalk – Standard FMs	183	184	186	183	161	186	184	185	186	184	161	186	187	185	183	185	186	183	187	186	186	161	186	162	186	183	201
FB_0439	Rate of Spread (ft/min)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	10.4	35.1	1.1	10.7	35.4	1.9	11.6	36.2	1.1	14.6	49.1	1.5	15.0	49.5	2.7	16.2	50.7
	Flame Length (ft)	0.5	1.1	2.0	0.5	1.2	2.0	0.7	1.2	2.0	1.1	3.6	6.3	1.3	3.7	6.3	1.7	3.8	6.4	1.4	4.5	7.9	1.6	4.6	7.9	2.1	4.7	8.0
	Reaction Intensity (1,000 BTU/ft²/min)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
	FCCS Fire Potentials	821	821	821	821	821	821	821	821	821	821	821	821	821	821	821	821	821	821	821	821	821	821	821	821	821	821	821
	Crosswalk – FBPS FMs	8	8	8	8	8	8	8	8	11	8	9	5	8	9	5	8	11	5	8	6	1	8	6	1	9	6	1
	Crosswalk – Standard FMs	183	161	186	183	161	186	183	185	201	183	146	145	187	146	145	186	202	145	187	142	109	188	142	109	183	142	109

		FCCS Fire Behavior Predictions Pine Forests, Mixed Conifer-Hardwood Forests, Hardwood Forests, Shrublands and Grasslands of the Southern United States																										
		D4L4C1 Moisture Scenario									D2L2C3 Moisture Scenario									D1L1C4 Moisture Scenario								
	Windspeed mph	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7
	Slope %	00	00	00	15	15	15	30	30	30	00	00	00	15	15	15	30	30	30	00	00	00	15	15	15	30	30	30
FB_0448	Rate of Spread (ft/min)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	2.8	9.3	1.6	2.9	9.3	2.7	3.9	9.4	1.8	3.6	12.1	2.2	3.9	12.1	3.6	5.3	12.3
	Flame Length (ft)	1.4	1.9	2.9	1.6	2.0	2.9	2.0	2.3	3.1	2.0	2.8	4.8	2.2	2.8	4.8	2.7	3.2	4.9	2.4	3.3	5.8	2.6	3.4	5.8	3.3	3.9	5.8
	Reaction Intensity (1,000 BTU/ft^2/min)	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
	FCCS Fire Potentials	434	434	434	434	434	434	434	434	434	434	434	434	434	434	434	434	434	434	434	434	434	434	434	434	434	434	434
	Crosswalk – FBPS FMs	8	8	9	8	9	9	8	9	9	8	9	10	9	9	10	9	9	10	9	9	10	9	9	10	9	9	10
	Crosswalk – Standard FMs	0.0	188	189	188	183	189	186	185	189	188	188	163	183	189	163	188	189	163	185	189	163	188	189	163	189	189	163

		FCCS Fire Behavior Predictions Pine Forests, Mixed Conifer-Hardwood Forests, Hardwood Forests, Shrublands and Grasslands of the Southern United States																										
		D4L4C1 Moisture Scenario									D2L2C3 Moisture Scenario										D1L1C4 Moisture Scenario								
	Windspeed mph	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7
	Slope %	00	00	00	15	15	15	30	30	30	00	00	00	15	15	15	30	30	30	00	00	00	15	15	15	30	30	30
FB_0181	Rate of Spread (ft/min)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	7.7	25.5	2.8	7.9	25.6	4.4	8.5	26.2	3.0	10.3	33.7	3.8	10.5	34.0	6.0	11.3	34.7
	Flame Length (ft)	2.5	3.9	6.8	2.8	4.0	6.8	3.4	4.1	6.8	3.3	5.9	10.1	3.7	5.9	10.2	4.5	6.1	10.3	4.0	7.0	12.2	4.4	7.1	12.2	5.5	7.3	12.3
	Reaction Intensity (1,000 BTU/ft²/min)	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
	FCCS Fire Potentials	759	759	759	759	759	759	759	759	759	759	759	759	759	759	759	759	759	759	759	759	759	759	759	759	759	759	759
	Crosswalk – FBPS FMs	9	9	12	9	9	12	9	10	12	9	10	13	9	10	13	10	12	13	10	12	13	10	12	13	10	12	13
	Crosswalk – Standard FMs	185	189	203	188	189	203	189	161	203	189	165	203	189	165	203	162	202	203	161	203	204	162	203	204	165	203	204
FB_0170	Rate of Spread (ft/min)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	12.4	41.6	2.7	13.0	42.2	4.3	14.9	44.1	3.0	18.1	60.6	3.7	19.0	61.5	5.8	21.7	64.2
	Flame Length (ft)	2.1	3.7	6.4	2.3	3.8	6.5	2.8	4.0	6.6	2.8	6.2	10.8	3.1	6.3	10.8	3.8	6.7	11.1	3.4	7.7	13.5	3.7	7.9	13.5	4.6	8.4	13.8
	Reaction Intensity (1,000 BTU/ft²/min)	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1
	FCCS Fire Potentials	949	949	949	949	949	949	949	949	949	949	949	949	949	949	949	949	949	949	949	949	949	949	949	949	949	949	949
	Crosswalk – FBPS FMs	9	9	12	9	9	5	9	10	5	9	12	5	9	12	5	9	12	5	9	12	5	9	12	5	10	13	5
	Crosswalk – Standard FMs	183	189	203	185	189	147	188	162	147	188	202	145	189	202	145	189	203	145	189	203	145	189	203	145	162	203	145

		FCCS Fire Behavior Predictions Pine Forests, Mixed Conifer-Hardwood Forests, Hardwood Forests, Shrublands and Grasslands of the Southern United States																										
		D4L4C1 Moisture Scenario									D2L2C3 Moisture Scenario										D1L1C4 Moisture Scenario								
	Windspeed mph	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7
	Slope %	00	00	00	15	15	15	30	30	30	00	00	00	15	15	15	30	30	30	00	00	00	15	15	15	30	30	30
FB_0168	Rate of Spread (ft/min)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	13.9	46.2	2.3	14.6	47.0	4.4	17.0	49.4	2.6	20.2	67.4	3.1	21.4	68.5	6.4	24.8	72.0
	Flame Length (ft)	2.0	4.1	7.1	2.2	4.2	7.2	2.7	4.5	7.4	2.7	6.8	11.9	3.0	7.0	12.0	4.0	7.5	12.2	3.3	8.5	14.8	3.6	8.7	14.9	5.0	9.4	15.3
	Reaction Intensity (1,000 BTU/ft²/min)	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7
	FCCS Fire Potentials	949	949	949	949	949	949	949	949	949	949	949	949	949	949	949	949	949	949	949	949	949	949	949	949	949	949	949
	Crosswalk – FBPS FMs	9	10	5	9	10	5	9	10	5	9	12	5	9	12	5	10	12	5	9	13	4	9	13	4	10	13	4
	Crosswalk – Standard FMs	183	161	147	185	162	147	188	164	147	188	203	145	189	203	145	161	203	145	189	203	147	189	203	147	165	203	147

		FCCS Fire Behavior Predictions Pine Forests, Mixed Conifer-Hardwood Forests, Hardwood Forests, Shrublands and Grasslands of the Southern United States																										
		D4L4C1 Moisture Scenario									D2L2C3 Moisture Scenario									D1L1C4 Moisture Scenario								
	Windspeed mph	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7
	Slope %	00	00	00	15	15	15	30	30	30	00	00	00	15	15	15	30	30	30	00	00	00	15	15	15	30	30	30
FB_0095 M	Rate of Spread (ft/min)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	1.3	4.3	0.3	1.3	4.3	0.5	1.4	4.4	0.2	1.7	5.8	0.3	1.7	5.8	0.6	1.9	5.9
	Flame Length (ft)	0.2	0.3	0.5	0.2	0.3	0.5	0.2	0.3	0.5	0.2	0.5	0.9	0.3	0.5	0.9	0.3	0.6	0.9	0.3	0.6	1.1	0.3	0.6	1.1	0.4	0.7	1.1
	Reaction Intensity (1,000 BTU/ft²/min)	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
	FCCS Fire Potentials	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300
	Crosswalk – FBPS FMs	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
	Crosswalk – Standard FMs	181	181	183	181	181	183	181	181	183	181	183	184	181	183	184	181	183	184	181	183	185	181	183	185	181	183	185
FB_0276 S	Rate of Spread (ft/min)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	8.7	28.5	3.1	8.9	28.7	5.3	9.7	29.5	3.2	11.3	37.0	4.2	11.7	37.3	7.2	12.7	38.4
	Flame Length (ft)	1.5	2.4	4.0	1.6	2.4	4.1	2.1	2.5	4.1	1.9	3.4	5.9	2.1	3.5	5.9	2.7	3.6	6.0	2.3	4.1	7.1	2.6	4.2	7.2	3.4	4.4	7.3
	Reaction Intensity (1,000 BTU/ft²/min)	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
	FCCS Fire Potentials	757	757	757	757	757	757	757	757	757	757	757	757	757	757	757	757	757	757	757	757	757	757	757	757	757	757	757
	Crosswalk – FBPS FMs	8	9	6	8	9	6	9	9	6	8	9	6	9	9	6	9	9	5	9	10	5	9	10	5	9	10	5
	Crosswalk – Standard FMs	187	186	142	186	186	142	183	186	142	186	164	144	183	164	144	188	164	165	185	164	145	188	164	145	189	164	145

		FCCS Fire Behavior Predictions Pine Forests, Mixed Conifer-Hardwood Forests, Hardwood Forests, Shrublands and Grasslands of the Southern United States																										
		D4L4C1 Moisture Scenario									D2L2C3 Moisture Scenario									D1L1C4 Moisture Scenario								
	Windspeed mph	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7
	Slope %	00	00	00	15	15	15	30	30	30	00	00	00	15	15	15	30	30	30	00	00	00	15	15	15	30	30	30
FB_0448 M	Rate of Spread (ft/min)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	3.7	12.6	1.7	3.8	12.6	2.9	4.2	12.8	1.8	4.8	16.3	2.3	4.9	16.4	4.0	5.6	16.6
	Flame Length (ft)	1.6	2.2	3.8	1.8	2.3	3.8	2.3	2.7	3.9	2.2	3.6	6.3	2.5	3.6	6.3	3.3	3.8	6.4	2.7	4.3	7.5	3.1	4.3	7.5	3.9	4.6	7.6
	Reaction Intensity (1,000 BTU/ft²/min)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
	FCCS Fire Potentials	503	503	503	503	503	503	503	503	503	503	503	503	503	503	503	503	503	503	503	503	503	503	503	503	503	503	503
	Crosswalk – FBPS FMs	8	9	9	8	9	9	9	9	9	9	9	12	9	9	12	9	9	12	9	10	12	9	10	12	9	10	12
	Crosswalk – Standard FMs	188	185	189	188	185	189	185	188	189	185	189	202	188	189	202	189	189	202	188	162	203	189	162	203	189	162	203
FB_0410	Rate of Spread (ft/min)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	2.9	6.4	1.8	3.2	6.7	2.7	4.0	7.6	2.0	3.9	8.6	2.4	4.3	9.0	3.6	5.5	10.2
	Flame Length (ft)	1.3	1.7	2.5	1.4	1.8	2.5	1.6	2.0	2.7	1.7	2.3	3.4	1.9	2.4	3.4	2.3	2.7	3.6	2.1	2.8	4.1	2.3	3.0	4.2	2.8	3.3	4.4
	Reaction Intensity (1,000 BTU/ft²/min)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
	FCCS Fire Potentials	452	452	452	452	452	452	452	452	452	452	452	452	452	452	452	452	452	452	452	452	452	452	452	452	452	452	452
	Crosswalk – FBPS FMs	8	8	9	8	8	9	8	8	9	8	9	9	8	9	9	9	9	9	9	9	10	9	9	10	9	9	10
	Crosswalk – Standard FMs	187	186	186	187	186	188	186	186	188	188	185	189	188	185	189	185	188	189	183	189	162	185	189	164	188	189	164

		FCCS Fire Behavior Predictions Pine Forests, Mixed Conifer-Hardwood Forests, Hardwood Forests, Shrublands and Grasslands of the Southern United States																										
		D4L4C1 Moisture Scenario									D2L2C3 Moisture Scenario									D1L1C4 Moisture Scenario								
	Windspeed mph	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7
	Slope %	00	00	00	15	15	15	30	30	30	00	00	00	15	15	15	30	30	30	00	00	00	15	15	15	30	30	30
FB_1127 S	Rate of Spread (ft/min)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	6.4	15.1	3.8	7.3	16.0	6.5	9.9	18.7	4.0	8.6	20.4	5.2	9.8	21.6	8.8	13.4	25.3
	Flame Length (ft)	2.8	4.0	6.0	3.2	4.3	6.2	4.1	4.9	6.6	3.5	5.0	7.5	4.0	5.3	7.7	5.1	6.2	8.3	4.3	6.2	9.2	4.9	6.6	9.5	6.2	7.6	10.1
	Reaction Intensity (1,000 BTU/ft²/min)	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
	FCCS Fire Potentials	652	652	652	652	652	652	652	652	652	652	652	652	652	652	652	652	652	652	652	652	652	652	652	652	652	652	652
	Crosswalk – FBPS FMs	9	10	10	9	10	12	10	10	12	9	10	12	9	10	12	10	12	13	10	12	13	10	12	13	12	12	13
	Crosswalk – Standard FMs	189	161	163	189	162	202	161	165	203	189	165	203	189	165	203	165	202	202	162	202	203	165	203	203	202	203	203
FB_1386 S	Rate of Spread (ft/min)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	7.8	25.5	1.1	8.0	25.7	1.8	8.7	26.4	1.1	10.3	33.7	1.4	10.6	34.0	2.4	11.5	35.0
	Flame Length (ft)	1.6	4.4	7.6	1.8	4.5	7.6	2.2	4.6	7.7	2.3	6.3	10.9	2.6	6.4	10.9	3.2	6.7	11.1	2.8	7.6	13.2	3.1	7.7	13.2	3.9	8.0	13.4
	Reaction Intensity (1,000 BTU/ft²/min)	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2
	FCCS Fire Potentials	742	742	742	742	742	742	742	742	742	742	742	742	742	742	742	742	742	742	742	742	742	742	742	742	742	742	742
	Crosswalk – FBPS FMs	8	10	12	8	10	12	9	10	12	9	12	13	9	12	13	9	12	13	9	12	13	9	12	13	9	13	13
	Crosswalk – Standard FMs	188	162	203	188	162	203	185	162	203	185	202	203	188	203	203	189	203	203	188	203	204	189	203	204	189	202	204

		FCCS Fire Behavior Predictions Pine Forests, Mixed Conifer-Hardwood Forests, Hardwood Forests, Shrublands and Grasslands of the Southern United States																										
		D4L4C1 Moisture Scenario									D2L2C3 Moisture Scenario									D1L1C4 Moisture Scenario								
	Windspeed mph	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7
	Slope %	00	00	00	15	15	15	30	30	30	00	00	00	15	15	15	30	30	30	00	00	00	15	15	15	30	30	30
FB_1262	Rate of Spread (ft/min)	0.0	0.0	0.1	0.0	0.0	0.1	0.0	0.1	0.1	5.8	62.1	206.6	9.2	65.5	210.0	19.4	75.8	220.3	7.2	77.2	256.6	11.4	81.4	260.9	24.1	94.1	273.6
	Flame Length (ft)	2.7	8.1	14.1	3.4	8.3	14.3	4.8	8.9	14.6	3.6	10.8	18.7	4.5	11.0	18.8	6.3	11.8	19.3	4.2	12.5	21.7	5.2	12.8	21.9	7.3	13.7	22.3
	Reaction Intensity (1,000 BTU/ft²/min)	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4
	FCCS Fire Potentials	900	900	900	900	900	900	900	900	900	900	900	900	900	900	900	900	900	900	900	900	900	900	900	900	900	900	900
	Crosswalk – FBPS FMs	9	5	3	9	5	3	10	5	3	9	5	3	10	5	3	5	1	3	10	1	3	10	1	3	5	3	3
	Crosswalk – Standard FMs	188	145	108	189	108	108	163	108	109	189	108	109	164	145	109	147	109	109	162	109	109	163	109	109	147	108	109
FB_0203 M	Rate of Spread (ft/min)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.9	56.2	190.4	6.9	59.2	193.4	16.0	68.3	202.4	6.3	90.9	307.8	11.2	95.8	312.7	25.9	110.4	327.3
	Flame Length (ft)	1.1	3.6	6.3	1.4	3.7	6.4	2.0	4.0	6.5	3.6	12.1	21.3	4.6	12.4	21.4	6.8	13.3	21.9	4.8	16.2	28.4	6.2	16.6	28.6	9.1	17.7	29.2
	Reaction Intensity (1,000 BTU/ft²/min)	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
	FCCS Fire Potentials	901	901	901	901	901	901	901	901	901	901	901	901	901	901	901	901	901	901	901	901	901	901	901	901	901	901	901
	Crosswalk – FBPS FMs	8	11	1	8	6	1	9	6	1	9	5	3	10	5	3	12	5	3	10	4	3	12	4	3	13	3	3
	Crosswalk – Standard FMs	184	202	109	187	142	109	183	142	109	189	145	109	162	145	109	203	145	109	165	108	109	202	108	109	203	109	109

		FCCS Fire Behavior Predictions Pine Forests, Mixed Conifer-Hardwood Forests, Hardwood Forests, Shrublands and Grasslands of the Southern United States																										
		D4L4C1 Moisture Scenario									D2L2C3 Moisture Scenario										D1L1C4 Moisture Scenario								
	Windspeed mph	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7	0	3	7
	Slope %	00	00	00	15	15	15	30	30	30	00	00	00	15	15	15	30	30	30	00	00	00	15	15	15	30	30	30
FB_1280	Rate of Spread (ft/min)	0.0	0.1	0.2	0.0	0.1	0.3	0.0	0.1	0.3	16.8	116.3	371.3	23.3	122.8	377.8	42.8	142.2	397.3	20.9	144.4	461.2	28.9	152.5	469.3	53.1	176.7	493.5
	Flame Length (ft)	9.5	23.1	39.4	11.0	23.7	39.7	14.6	25.3	40.6	12.5	30.5	52.0	14.6	31.3	52.5	19.3	33.5	53.7	14.5	35.4	60.4	16.9	36.3	60.9	22.3	38.8	62.3
	Reaction Intensity (1,000 BTU/ft²/min)	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9
	FCCS Fire Potentials	901	901	901	901	901	901	901	901	901	901	901	901	901	901	901	901	901	901	901	901	901	901	901	901	901	901	901
	Crosswalk – FBPS FMs	13	4	3	13	4	3	13	4	3	13	4	3	13	4	3	13	4	3	13	4	3	13	4	3	13	4	3
	Crosswalk – Standard FMs	203	108	109	203	108	109	204	108	109	203	109	109	204	109	109	204	109	109	204	109	109	204	109	109	204	109	109

Consumption and Emissions Outputs

Fuelbeds were calculated in Consume version 4.2. Unlike FCCS, Consume's natural fuel consumption equations do not consider windspeed or slope gradient, therefore, 3 fuel moisture scenarios were used (Table 11) to provide results across range of potential fire conditions. Consumption outputs by surface fuel stratum and emissions outputs by pollutant type were summarized in data tables for each managed pine pathway and for the group of other potential southeastern vegetation types.

Table 11: Moisture scenarios and percents moisture for each fuel class used in Consume calculations. Moisture scenarios include very dry (D1L1), dry (D2L2), and moist (D4L4).

Moisture Scenario	1 hr	10 hr	100 hr	1000 hr	Shrub	Herb	Duff
	|----------%----------|						
D1L1	3	4	5	10	60	30	30
D2L2	6	7	8	20	90	60	70
D4L4	12	13	14	30	90	60	120

Consume predicts fuel consumption, pollutant emissions, and heat release based on a number of factors including fuel characteristics and environmental conditions (Prichard et al. 2007). Consume can calculate predicted consumption for a variety of fuel types including logging slash, piled woody debris, or natural forest, shrub and grass fuels using a mix of empirical, theoretical and rule-based models (Ottmar 2014). The woody fuel consumption algorithms depend on whether fuels are defined as activity or natural and natural fuels are further divided into three regional equation sets. These empirical equation sets were derived from hundreds of research burns conducted in the western, southern and boreal regions of North America. Fuel consumption is a key variable in fire effects modeling and understanding when and how fire should be applied to meet site and landscape objectives while at the same time reducing impacts to other resources and air quality (Weise and Wright 2014).

Table 12: Managed loblolly pine fuelbeds. Fuel consumption by fuelbed stratum and total consumption in each fuelbed (tons/acre) calculated at 3 fuel moisture scenarios.

		Consumption by fuelbed stratum (tons/acre)																	
		D1L1						D2L2						D4L4					
FB#s	Age, Treatment	Shrub	Herb	Wood	Litter	Duff	Total	Shrub	Herb	Wood	Litter	Duff	Total	Shrub	Herb	Wood	Litter	Duff	Total
728	0 yr, CC/Burn	0.90	0.11	0.10	0.02	0.00	1.14	0.90	0.11	0.10	0.02	0.00	1.14	0.90	0.11	0.10	0.02	0.00	1.13
753	0 yr, CC	0.95	0.00	7.98	7.24	0.00	16.16	0.95	0.00	6.32	6.50	0.00	13.77	0.95	0.00	5.79	5.59	0.00	12.33
836	4 yr, recent burn	3.26	0.31	14.33	0.93	0.00	18.83	3.26	0.31	8.60	0.02	0.00	12.19	3.26	0.31	6.10	0.02	0.00	9.69
1008	4 yr, burn	0.21	0.05	4.88	1.68	0.00	6.81	0.21	0.05	3.27	0.94	0.00	4.47	0.21	0.05	2.43	0.02	0.00	2.71
1229	4 yr, planted	0.56	0.06	3.23	3.16	0.00	7.01	0.56	0.06	3.02	2.43	0.00	6.08	0.56	0.06	2.96	1.51	0.00	5.10
66	5-19yr, burn	0.85	0.06	3.28	1.86	0.00	6.05	0.85	0.06	2.70	1.37	0.00	4.99	0.85	0.06	2.47	0.76	0.00	4.15
128	5-19yr, burn	0.34	0.06	6.62	1.49	0.00	8.51	0.34	0.06	5.81	1.00	0.00	7.22	0.34	0.06	5.05	0.02	0.00	5.48
167	5-19yr, thin	0.54	0.06	4.75	1.49	0.00	6.84	0.54	0.06	4.49	1.00	0.00	6.09	0.54	0.06	4.24	0.02	0.00	4.86
282	5-19yr, thin	0.27	0.06	1.39	1.73	0.00	3.45	0.27	0.06	1.34	1.25	0.00	2.91	0.27	0.06	1.27	0.64	0.00	2.23
598	5-19yr, none	0.11	0.02	4.85	2.72	0.00	7.70	0.11	0.02	4.49	2.24	0.00	6.86	0.11	0.02	4.15	1.63	0.00	5.90
142	20-39yr, thin	0.22	0.02	3.98	4.95	0.00	9.17	0.22	0.02	3.75	4.46	0.00	8.45	0.22	0.02	3.67	3.85	0.00	7.76
336	20-39yr, thin/burn	0.73	0.15	3.75	0.99	0.00	5.62	0.73	0.15	3.09	0.51	0.00	4.47	0.73	0.15	2.83	0.02	0.00	3.72
780	20-39yr, none	0.12	0.01	1.75	1.36	0.00	3.26	0.12	0.01	1.75	0.88	0.00	2.76	0.12	0.01	1.74	0.02	0.00	1.89
1258	20-39yr, burn	0.90	0.00	1.58	0.75	0.00	3.23	0.90	0.00	1.57	0.02	0.00	2.49	0.90	0.00	1.56	0.01	0.00	2.48
1434	20-39yr, burn/thin	1.29	0.06	7.57	2.11	0.00	11.02	1.29	0.06	7.02	1.62	0.00	9.99	1.29	0.06	6.67	1.01	0.00	9.03
1439	20-39yr, burn/thin	0.74	0.04	3.45	0.99	0.00	5.22	0.74	0.04	3.40	0.51	0.00	4.69	0.74	0.04	3.36	0.02	0.00	4.16
221	40-49 yr, burn	0.37	0.06	2.46	0.62	0.00	3.51	0.37	0.06	2.30	0.02	0.00	2.74	0.37	0.06	2.12	0.01	0.00	2.56
893	40-49 yr, none	0.87	0.01	4.07	1.86	0.00	6.80	0.87	0.01	3.81	1.37	0.00	6.06	0.87	0.01	3.66	0.76	0.00	5.30
1344	40-49 yr, burn	1.28	0.04	6.28	2.05	0.00	9.64	1.28	0.04	5.36	1.57	0.00	8.24	1.28	0.04	4.48	0.98	0.00	6.78
177	50-59yr, burn	0.82	0.08	1.73	0.99	0.00	3.63	0.82	0.08	1.62	0.51	0.00	3.03	0.82	0.08	1.50	0.02	0.00	2.42
194	50-59yr, thin/burn	0.83	0.02	5.22	2.00	0.42	8.50	0.83	0.02	4.24	1.62	0.00	6.70	0.83	0.02	3.86	1.01	0.00	5.72
769	50-59yr, none	0.20	0.02	6.53	1.20	0.66	8.61	0.20	0.02	6.20	0.88	0.00	7.30	0.20	0.02	5.87	0.02	0.00	6.11
572	50-59yr, thin	0.54	0.06	10.91	3.40	2.24	17.14	0.54	0.06	6.38	3.40	0.29	10.66	0.54	0.06	4.89	2.86	0.00	8.35
1502	50-59yr, burn/thin	1.09	0.00	4.10	0.02	0.00	5.21	1.09	0.00	2.99	0.02	0.00	4.09	1.09	0.00	2.57	0.01	0.00	3.67

Consumption by fuelbed stratum (tons/acre)																			
		D1L1						D2L2						D4L4					
FB#s	Age, Treatment	Shrub	Herb	Wood	Litter	Duff	Total	Shrub	Herb	Wood	Litter	Duff	Total	Shrub	Herb	Wood	Litter	Duff	Total
248	60+yr, thin/burn	0.84	0.06	4.12	1.00	1.01	7.02	0.84	0.06	2.96	0.88	0.00	4.73	0.84	0.06	2.40	0.02	0.00	3.31
688	60+yr, none	0.19	0.02	3.29	2.00	1.41	6.90	0.19	0.02	3.15	1.86	0.00	5.22	0.19	0.02	3.01	1.25	0.00	4.47
1276	60+yr, burn	0.74	0.03	2.41	1.49	0.00	4.66	0.74	0.03	2.11	1.00	0.00	3.88	0.74	0.03	1.91	0.02	0.00	2.69
1575	60+yr, thin	0.66	0.00	5.77	2.40	0.80	9.63	0.66	0.00	5.42	2.11	0.00	8.19	0.66	0.00	5.18	1.50	0.00	7.35

Table 13. Managed loblolly pine fuelbeds. Emissions by pollutant type from each fuelbed (lbs/acre) calculated at 3 fuel moisture scenarios. Pollutants include methane (CH_4), carbon monoxide (CO), carbon dioxide (CO_2),non-methane hydrocarbons (NMHC), and particulate matter (<10 µm and <2.5 µm).

Emissions by pollutant type (lbs/acre)																			
		D1L1						D2L2						D4L4					
FB#	Age, Treatment	CH4	CO	CO2	NMHC	PM10	PM2	CH4	CO	CO2	NMHC	PM10	PM2	CH4	CO	CO2	NMHC	PM10	PM2
728	0 yr, CC/Burn	2.4	87.1	1906.5	3.0	20.1	12.8	2.4	86.8	1900.8	3.0	20.1	12.8	2.4	86.5	1894.8	3.0	20.0	12.8
753	0 yr, CC	36.7	1289.4	26976.3	44.0	298.4	180.6	30.6	1080.7	23009.2	36.9	250.0	154.4	27.1	962.0	20615.5	32.9	222.5	138.5
836	4 yr, recent burn	51.2	1721.3	31049.1	58.4	400.0	203.3	32.8	1106.2	20115.1	37.5	257.0	131.9	25.3	858.5	16029.3	29.2	199.3	105.6
1008	4 yr, burn	19.0	633.8	11209.8	21.5	147.4	73.2	12.6	419.7	7344.8	14.2	97.6	47.9	7.9	262.2	4436.2	8.9	61.0	28.7
1229	4 yr, planted	15.5	549.7	11719.5	18.8	127.2	78.7	13.4	474.4	10158.2	16.2	109.7	68.2	11.2	397.6	8521.6	13.6	92.0	57.3
66	5-19yr, burn	14.5	501.9	10064.6	17.1	116.3	67.0	11.8	410.1	8299.2	14.0	95.0	55.3	9.8	340.4	6903.6	11.6	78.9	46.0
128	5-19yr, burn	24.0	800.9	14001.3	27.1	186.3	91.2	20.2	674.0	11879.0	22.8	156.7	77.5	15.4	514.0	9005.8	17.4	119.5	58.7
167	5-19yr, thin	17.1	587.2	11348.5	20.0	136.2	75.1	15.2	520.6	10111.2	17.7	120.7	67.0	12.1	416.3	8057.7	14.2	96.6	53.4
282	5-19yr, thin	8.4	290.2	5734.6	9.9	67.3	38.1	7.1	246.0	4827.7	8.4	57.1	32.0	5.6	191.4	3702.3	6.5	44.4	24.5
598	5-19yr, none	19.6	668.9	12758.0	22.7	155.2	84.3	17.3	591.6	11364.3	20.1	137.3	75.2	14.8	506.2	9788.0	17.2	117.4	64.8
142	20-39yr, thin	20.4	720.1	15318.4	24.6	166.6	102.8	18.7	661.1	14122.1	22.6	152.9	94.8	17.1	606.5	12971.6	20.7	140.3	87.1
336	20-39yr, thin/burn	13.2	460.3	9355.7	15.7	106.6	62.4	10.3	360.8	7453.5	12.3	83.5	49.8	8.5	298.1	6214.1	10.2	69.0	41.6
780	20-39yr, none	7.2	255.6	5439.3	8.7	59.1	36.5	6.1	216.8	4608.4	7.4	50.2	30.9	4.2	149.1	3154.4	5.1	34.5	21.2
1258	20-39yr, burn	7.1	252.5	5397.0	8.6	58.4	36.2	5.5	194.9	4161.2	6.7	45.1	27.9	5.5	193.7	4141.5	6.6	44.8	27.8
1434	20-39yr, burn/thin	26.0	905.9	18348.0	30.9	209.9	122.3	23.3	812.8	16636.8	27.7	188.2	111.1	20.8	729.0	15053.0	24.9	168.8	100.6
1439	20-39yr, burn/thin	11.7	413.1	8717.2	14.1	95.6	58.4	10.5	370.6	7831.8	12.7	85.8	52.5	9.3	328.2	6945.2	11.2	75.9	46.6
221	40-49 yr, burn	9.3	315.0	5805.6	10.7	73.2	38.2	7.4	249.6	4522.0	8.5	58.0	29.6	6.8	230.2	4236.4	7.8	53.5	27.8
893	40-49 yr, none	16.1	560.0	11322.6	19.1	129.7	75.5	14.3	497.2	10084.8	17.0	115.2	67.2	12.5	435.0	8827.8	14.8	100.8	58.9
1344	40-49 yr, burn	27.2	907.3	15843.0	30.7	211.0	103.2	23.0	769.3	13561.9	26.1	178.9	88.5	18.7	627.4	11160.0	21.3	145.8	72.9
177	50-59yr, burn	9.2	314.5	6012.6	10.7	73.0	39.7	7.8	264.4	5016.1	9.0	61.4	33.1	6.3	212.7	3997.1	7.2	49.4	26.3
194	50-59yr, thin/burn	21.0	721.0	14103.5	24.5	167.2	93.5	15.9	551.3	11158.2	18.8	127.7	74.4	13.4	468.0	9522.4	16.0	108.4	63.5
572	50-59yr, thin	45.1	1527.0	28331.7	51.9	354.6	186.4	25.6	887.9	17724.2	30.3	205.8	117.9	19.3	675.5	13910.7	23.1	156.4	92.9
769	50-59yr, none	22.5	763.9	14234.8	25.9	177.4	93.7	18.3	627.2	12103.0	21.3	145.5	80.1	15.3	524.7	10139.3	17.9	121.7	67.1
1502	50-59yr, burn/thin	13.2	451.3	8629.8	15.3	104.7	57.0	10.1	347.9	6791.0	11.8	80.7	45.0	8.9	308.0	6105.3	10.5	71.4	40.6

Emissions by pollutant type (lbs/acre)																			
		D1L1						D2L2						D4L4					
FB#	Age, Treatment	CH4	CO	CO2	NMHC	PM10	PM2	CH4	CO	CO2	NMHC	PM10	PM2	CH4	CO	CO2	NMHC	PM10	PM2
248	60+yr, thin/burn	19.8	659.4	11549.0	22.3	153.4	75.3	12.5	422.3	7808.1	14.3	98.1	51.3	8.9	299.3	5459.2	10.2	69.5	35.8
688	60+yr, none	18.6	626.1	11393.6	21.2	145.5	74.7	12.7	438.7	8675.8	14.9	101.7	57.6	10.9	375.5	7423.0	12.8	87.0	49.3
1276	60+yr, burn	11.9	405.3	7717.8	13.8	94.0	51.0	9.9	337.8	6426.8	11.5	78.4	42.4	7.1	239.7	4449.6	8.1	55.7	29.3
1575	60+yr, thin	24.1	827.1	15969.3	28.1	191.9	105.7	19.5	677.9	13631.2	23.1	157.1	90.8	17.4	605.8	12230.6	20.7	140.4	81.5

Table 14: Managed longleaf pine fuelbeds. Fuel consumption by fuelbed stratum and total consumption in each fuelbed (tons/acre) calculated at 3 fuel moisture scenarios.

Consumption by fuelbed stratum (tons/acre)																			
		D1L1						D2L2						D4L4					
FB#	Age, Treatment	Shrub	Herb	Wood	Litter	Duff	Total	Shrub	Herb	Wood	Litter	Duff	Total	Shrub	Herb	Wood	Litter	Duff	Total
692	0yr, none	0.09	0.03	10.66	0.00	0.00	10.78	0.09	0.03	8.53	0.00	0.00	8.65	0.09	0.03	8.53	0.00	0.00	8.65
757	0yr, none	0.35	0.02	12.10	0.01	0.00	12.48	0.35	0.02	6.55	0.01	0.00	6.93	0.35	0.02	6.55	0.01	0.00	6.93
1282	0yr, none	0.89	0.04	14.12	4.64	0.00	19.69	0.89	0.04	12.83	3.91	0.00	17.67	0.89	0.04	12.83	3.91	0.00	17.67
939	4yr, planted	0.20	0.10	0.29	1.68	0.00	2.27	0.20	0.10	0.29	0.94	0.00	1.54	0.20	0.10	0.29	0.94	0.00	1.54
995	4yr, none	2.60	0.39	1.30	0.01	0.00	4.30	2.60	0.39	1.30	0.01	0.00	4.30	2.60	0.39	1.30	0.01	0.00	4.30
390	5-19yr, thin/burn	0.40	0.06	1.19	0.99	0.00	2.63	0.40	0.06	1.13	0.51	0.00	2.09	0.40	0.06	1.13	0.51	0.00	2.09
514	5-19yr, burn	0.63	0.03	2.34	0.87	0.00	3.87	0.63	0.03	1.79	0.02	0.00	2.46	0.63	0.03	1.79	0.02	0.00	2.46
762	5-19yr, none	0.17	0.02	3.26	1.73	0.00	5.18	0.17	0.02	2.97	1.25	0.00	4.40	0.17	0.02	2.97	1.25	0.00	4.40
824	5-19yr, burn	0.84	0.04	1.73	0.02	0.00	2.63	0.84	0.04	1.31	0.01	0.00	2.20	0.84	0.04	1.31	0.01	0.00	2.20
1598	5-19yr, none	0.28	0.06	6.27	1.12	0.00	7.73	0.28	0.06	5.59	0.63	0.00	6.56	0.28	0.06	5.59	0.63	0.00	6.56
151	20-39yr, thin/burn	0.11	0.05	4.61	2.48	0.00	7.24	0.11	0.05	4.37	1.99	0.00	6.52	0.11	0.05	4.37	1.99	0.00	6.52
152	20-39yr, burn/thin	0.49	0.04	2.03	2.85	0.00	5.40	0.49	0.04	2.02	2.36	0.00	4.90	0.49	0.04	2.02	2.36	0.00	4.90
685	20-39yr, thin	0.93	0.02	3.60	3.46	0.00	8.02	0.93	0.02	3.01	2.98	0.00	6.94	0.93	0.02	3.01	2.98	0.00	6.94
945	20-39yr, burn	0.64	0.05	1.28	0.60	0.05	2.62	0.64	0.05	1.11	0.02	0.00	1.81	0.64	0.05	1.11	0.02	0.00	1.81
1488	20-39yr, burn	0.22	0.02	4.57	0.02	0.00	4.83	0.22	0.02	4.27	0.01	0.00	4.52	0.22	0.02	4.27	0.01	0.00	4.52
1680	20-39yr, none	1.51	0.00	1.69	6.43	0.00	9.64	1.51	0.00	1.69	5.94	0.00	9.15	1.51	0.00	1.69	5.94	0.00	9.15
480	40-49y, thin/burn	0.45	0.03	0.63	1.12	0.00	2.22	0.45	0.03	0.62	0.63	0.00	1.73	0.45	0.03	0.62	0.63	0.00	1.73
616	40-49y, burn	0.09	0.02	1.06	1.73	0.00	2.90	0.09	0.02	0.73	1.25	0.00	2.08	0.09	0.02	0.73	1.25	0.00	2.08
1021	40-49y, none	2.04	0.02	2.97	2.80	6.12	13.95	2.04	0.02	2.90	2.80	4.17	11.93	2.04	0.02	2.90	2.80	4.17	11.93
1066	40-49y, old thin	0.75	0.08	6.83	3.80	0.64	12.11	0.75	0.08	4.98	3.47	0.00	9.28	0.75	0.08	4.98	3.47	0.00	9.28
1611	40-49y, burn/thin	1.07	0.08	1.85	0.02	0.00	3.02	1.07	0.08	1.78	0.01	0.00	2.95	1.07	0.08	1.78	0.01	0.00	2.95
1630	40-49y, burn	0.31	0.01	3.15	5.07	0.00	8.54	0.31	0.01	2.57	4.58	0.00	7.48	0.31	0.01	2.57	4.58	0.00	7.48
155	50-90yr, thin/burn	0.17	0.02	7.07	1.81	0.00	9.08	0.17	0.02	6.87	1.39	0.00	8.45	0.17	0.02	6.87	1.39	0.00	8.45
536	50-90yr, none	0.12	0.00	2.10	2.35	0.00	4.58	0.12	0.00	2.03	1.86	0.00	4.02	0.12	0.00	2.03	1.86	0.00	4.02
1108	50-90yr, burn	0.15	0.04	2.43	2.72	0.00	5.33	0.15	0.04	2.22	2.24	0.00	4.64	0.15	0.04	2.22	2.24	0.00	4.64

Consumption by fuelbed stratum (tons/acre)																			
		D1L1						D2L2						D4L4					
FB#	Age, Treatment	Shrub	Herb	Wood	Litter	Duff	Total	Shrub	Herb	Wood	Litter	Duff	Total	Shrub	Herb	Wood	Litter	Duff	Total
1200	50-90yr, burn	0.55	0.06	2.13	0.99	0.00	3.74	0.55	0.06	1.47	0.51	0.00	2.59	0.55	0.06	1.47	0.51	0.00	2.59
649	60+yr, none	0.94	0.02	2.20	0.87	0.00	4.03	0.94	0.02	2.12	0.02	0.00	3.10	0.94	0.02	2.12	0.02	0.00	3.10
1271	60+yr, burn	0.59	0.00	3.41	3.34	0.00	7.35	0.59	0.00	2.67	2.85	0.00	6.12	0.59	0.00	2.67	2.85	0.00	6.12
1412	60+yr, burn	0.05	0.01	3.17	1.61	0.00	4.83	0.05	0.01	3.09	1.12	0.00	4.27	0.05	0.01	3.09	1.12	0.00	4.27
1454	60+yr, thin/burn	0.26	0.00	3.33	1.61	0.00	5.20	0.26	0.00	3.25	1.12	0.00	4.64	0.26	0.00	3.25	1.12	0.00	4.64
1551	60+yr, burn/thin	0.44	0.02	6.85	1.73	0.00	9.04	0.44	0.02	5.98	1.25	0.00	7.68	0.44	0.02	5.98	1.25	0.00	7.68

Table 15: Managed longleaf pine fuelbeds. Emissions by pollutant type from each fuelbed (lbs/acre) calculated at 3 fuel moisture scenarios. Pollutants include methane (CH_4), carbon monoxide (CO), carbon dioxide (CO_2),non-methane hydrocarbons (NMHC), and particulate matter (<10 μm and <2.5 μm).

Emissions by pollutant type (lbs/acre)																			
		D1L1						D2L2						D4L4					
FB#	Age, Treatment	CH4	CO	CO2	NMHC	PM10	PM25	CH4	CO	CO2	NMHC	PM10	PM25	CH4	CO	CO2	NMHC	PM10	PM25
692	0yr, none	25.4	883.8	17949.1	30.1	204.7	119.7	19.6	688.9	14434.3	23.5	159.5	96.7	17.8	627.6	13328.2	21.5	145.2	89.4
757	0yr, none	31.5	1077.3	20690.1	36.6	250.0	136.8	16.4	570.1	11538.5	19.4	132.1	76.9	11.6	410.4	8656.8	14.0	95.0	58.0
1282	0yr, none	44.3	1561.2	32867.4	53.3	361.3	220.3	39.2	1386.2	29520.6	47.4	320.7	198.2	36.0	1276.0	27291.3	43.6	295.2	183.3
939	4yr, planted	4.9	175.0	3797.0	6.0	40.5	25.6	3.3	118.3	2572.5	4.1	27.4	17.3	1.3	47.1	1033.9	1.6	10.9	7.0
995	4yr, none	9.3	330.2	7202.6	11.3	76.3	48.5	9.3	330.0	7199.6	11.3	76.3	48.5	9.3	329.9	7196.3	11.3	76.3	48.5
390	5-19yr, thin/burn	6.6	226.7	4368.2	7.7	52.6	28.9	5.4	182.5	3461.3	6.2	42.4	22.8	4.1	137.1	2536.3	4.7	31.8	16.7
514	5-19yr, burn	9.7	332.6	6416.2	11.3	77.2	42.5	6.3	214.2	4071.5	7.3	49.7	26.9	5.6	192.1	3700.4	6.5	44.6	24.5
762	5-19yr, none	12.4	430.8	8610.3	14.7	99.8	57.3	10.5	365.5	7321.8	12.5	84.7	48.7	8.8	304.2	6076.3	10.4	70.5	40.4
824	5-19yr, burn	7.2	240.6	4327.7	8.2	55.9	28.3	5.9	199.5	3631.8	6.8	46.3	23.8	5.2	176.9	3273.8	6.0	41.1	21.5
1598	5-19yr, none	21.6	720.8	12727.0	24.4	167.6	83.1	18.2	607.8	10808.1	20.6	141.3	70.6	14.6	489.1	8740.1	16.6	113.7	57.2
151	20-39yr, thin/burn	17.0	592.9	12063.9	20.2	137.4	80.5	15.2	530.2	10857.9	18.1	122.8	72.5	13.3	463.8	9548.7	15.8	107.4	63.8
152	20-39yr, burn/thin	11.9	422.0	9022.6	14.4	97.6	60.6	10.8	383.3	8192.9	13.1	88.7	55.0	9.5	335.0	7157.5	11.5	77.5	48.1
685	20-39yr, thin	18.0	635.5	13384.9	21.7	147.1	89.7	15.4	543.7	11595.5	18.6	125.8	77.9	13.5	478.7	10258.3	16.4	110.7	68.9
945	20-39yr, burn	6.0	210.7	4378.3	7.2	48.8	29.3	4.1	143.3	3028.6	4.9	33.2	20.3	3.9	137.3	2922.7	4.7	31.8	19.6
1488	20-39yr, burn	12.5	424.5	8000.0	14.4	98.5	52.8	11.4	390.4	7497.6	13.3	90.6	49.6	10.4	358.7	7029.3	12.2	83.2	46.6
1680	20-39yr, none	21.0	746.9	16116.2	25.6	172.7	108.4	20.0	709.0	15299.3	24.3	164.0	102.9	18.6	661.7	14278.1	22.6	153.0	96.0
480	40-49y, thin/burn	4.9	174.0	3717.9	6.0	40.3	25.0	3.8	135.4	2888.3	4.6	31.3	19.4	2.5	86.9	1847.8	3.0	20.1	12.4
616	40-49y, burn	6.7	233.3	4840.7	8.0	54.0	32.4	4.7	164.7	3471.5	5.6	38.1	23.3	3.0	107.1	2266.4	3.7	24.8	15.2
1021	40-49y, none,	40.3	1335.8	22902.0	45.2	310.8	148.7	33.0	1104.0	19642.9	37.4	256.6	128.4	23.8	814.5	15575.1	27.7	189.0	102.9
1066	40-49y, old thin	29.8	1025.8	20101.5	34.9	237.9	133.4	21.7	756.1	15466.2	25.8	175.1	103.2	18.5	647.8	13378.8	22.1	150.0	89.4
1611	40-49y, burn/thin	7.6	260.3	5010.3	8.9	60.4	33.1	7.3	252.1	4888.9	8.6	58.5	32.4	7.0	242.2	4744.0	8.2	56.2	31.5
1630	40-49y, burn	20.1	700.4	14224.0	23.9	162.2	94.9	17.4	608.4	12458.3	20.8	140.9	83.2	15.4	536.9	11035.1	18.3	124.3	73.7
155	50-90yr, thin/burn	21.2	739.4	15123.7	25.2	171.3	101.0	19.7	686.7	14085.8	23.4	159.0	94.1	18.1	632.5	12997.9	21.6	146.5	86.8
536	50-90yr, none	11.1	383.6	7617.3	13.1	88.9	50.6	9.8	337.7	6683.3	11.5	78.3	44.4	8.1	280.7	5521.6	9.6	65.1	36.7
1108	50-90yr, burn	12.9	444.8	8869.9	15.2	103.1	59.0	11.2	386.8	7718.4	13.2	89.7	51.3	9.4	326.1	6488.5	11.1	75.6	43.1

Emissions by pollutant type (lbs/acre)																			
		D1L1						D2L2						D4L4					
FB#	Age, Treatment	CH4	CO	CO2	NMHC	PM10	PM25	CH4	CO	CO2	NMHC	PM10	PM25	CH4	CO	CO2	NMHC	PM10	PM25
1200	50-90yr, burn	9.8	331.7	6190.5	11.3	77.0	40.8	6.8	231.6	4286.8	7.9	53.8	28.2	4.9	165.3	2998.1	5.6	38.4	19.7
649	60+yr, none	9.9	341.1	6689.1	11.6	79.1	44.4	7.8	266.4	5136.7	9.1	61.8	34.0	7.5	256.1	4986.2	8.7	59.4	33.0
1271	60+yr, burn	17.7	611.5	12223.4	20.8	141.7	81.3	14.5	504.0	10180.5	17.2	116.8	67.8	12.3	427.5	8668.7	14.6	99.0	57.8
1412	60+yr, burn	11.7	405.5	8034.9	13.8	94.0	53.4	10.4	359.0	7091.9	12.2	83.2	47.1	8.8	301.6	5926.0	10.3	69.9	39.3
1454	60+yr, thin/burn	12.5	433.4	8653.7	14.8	100.4	57.6	11.2	386.9	7710.8	13.2	89.7	51.3	9.5	329.6	6545.1	11.2	76.4	43.5
1551	60+yr, burn/thin	21.9	755.9	15026.5	25.8	175.2	99.9	18.3	636.1	12779.6	21.7	147.4	85.1	15.9	552.3	11153.5	18.8	128.0	74.3

Table 16: Managed slash pine fuelbeds. Fuel consumption by fuelbed stratum and total consumption in each fuelbed (tons/acre) calculated at 3 fuel moisture scenarios.

Consumption by fuelbed stratum and total consumption (tons/acre)																			
		D1L1						D2L2						D4L4					
FB#	Age, Treatment	Shrub	Herb	Wood	Litter	Duff	Total	Shrub	Herb	Wood	Litter	Duff	Total	Shrub	Herb	Wood	Litter	Duff	Total
410	0yr, none	0.10	0.11	5.57	0.00	0.00	5.78	0.10	0.11	5.37	0.00	0.00	5.58	0.10	0.11	5.29	0.00	0.00	5.50
429	0yr, none	1.17	0.20	4.19	0.00	0.00	5.56	1.17	0.20	4.19	0.00	0.00	5.56	1.17	0.20	4.19	0.00	0.00	5.56
1308	0yr, planted	0.49	0.03	5.31	1.68	0.00	7.51	0.49	0.03	4.94	0.94	0.00	6.40	0.49	0.03	4.59	0.02	0.00	5.13
1211	4yr, burn	0.41	0.04	2.59	0.62	0.00	3.66	0.41	0.04	1.73	0.02	0.00	2.19	0.41	0.04	1.39	0.01	0.00	1.84
787	5-19yr, burn	0.27	0.14	1.51	0.01	0.00	1.94	0.27	0.14	1.05	0.01	0.00	1.47	0.27	0.14	0.86	0.01	0.00	1.28
467	20-39yr, thin	0.13	0.09	2.05	0.02	0.00	2.28	0.13	0.09	2.04	0.02	0.00	2.27	0.13	0.09	2.03	0.01	0.00	2.26
595	20-39yr, none	0.25	0.00	1.11	3.34	0.00	4.70	0.25	0.00	0.89	2.85	0.00	3.99	0.25	0.00	0.75	2.24	0.00	3.24
478	40-49yr, burn	1.00	0.04	4.02	1.12	0.00	6.17	1.00	0.04	1.97	0.63	0.00	3.64	1.00	0.04	1.32	0.02	0.00	2.38
539	40-49yr, none	0.16	0.03	3.43	1.86	0.00	5.48	0.16	0.03	3.24	1.37	0.00	4.80	0.16	0.03	3.06	0.76	0.00	4.01
854	40-49yr, thin	1.03	0.06	3.20	2.20	1.60	8.10	1.03	0.06	3.12	2.11	0.00	6.34	1.03	0.06	3.04	1.50	0.00	5.64
855	40-49yr, thin	0.32	0.02	5.44	2.00	0.92	8.69	0.32	0.02	5.31	1.74	0.00	7.39	0.32	0.02	5.17	1.13	0.00	6.64
1040	40-49yr, burn	0.25	0.07	3.75	1.00	0.96	6.03	0.25	0.07	3.22	0.75	0.00	4.29	0.25	0.07	2.98	0.02	0.00	3.32
578	50-59yr, none	0.66	0.01	3.75	2.40	1.30	8.12	0.66	0.01	3.60	2.24	0.00	6.51	0.66	0.01	3.48	1.63	0.00	5.78
600	50-59yr, none	0.65	0.03	5.93	2.00	1.91	10.51	0.65	0.03	5.85	1.99	0.00	8.52	0.65	0.03	5.77	1.38	0.00	7.82
779	50-59yr, thin	0.88	0.06	8.78	0.62	0.00	10.35	0.88	0.06	5.75	0.02	0.00	6.71	0.88	0.06	4.73	0.01	0.00	5.68
1264	50-59yr, burn	0.26	0.04	7.57	2.11	0.00	9.97	0.26	0.04	5.46	1.62	0.00	7.37	0.26	0.04	4.59	1.01	0.00	5.89
1325	50-59yr, burn	0.37	0.01	5.02	2.20	1.97	9.57	0.37	0.01	4.70	2.20	0.72	8.00	0.37	0.01	4.44	1.87	0.00	6.69
504	60+yr, none	0.41	0.00	4.37	2.00	2.89	9.68	0.41	0.00	4.24	2.00	0.94	7.59	0.41	0.00	4.09	1.63	0.00	6.13
788	60+yr, burn	1.02	0.02	4.66	0.40	0.73	6.83	1.02	0.02	3.25	0.02	0.00	4.31	1.02	0.02	2.52	0.01	0.00	3.57
853	60+yr, thin	0.57	0.02	5.01	2.20	2.59	10.38	0.57	0.02	4.93	2.20	0.64	8.35	0.57	0.02	4.84	1.75	0.00	7.17

Table 17: Managed slash pine fuelbeds. Emissions by pollutant type from each fuelbed (lbs/acre) calculated at 3 fuel moisture scenarios. Pollutants include methane (CH_4), carbon monoxide (CO), carbon dioxide (CO_2),non-methane hydrocarbons (NMHC), and particulate matter (<10 μm and <2.5 μm).

Emissions by pollutant type (lbs/acre)																			
		D1L1						D2L2						D4L4					
FB#	Age, Treatment	CH4	CO	CO2	NMHC	PM10	PM25	CH4	CO	CO2	NMHC	PM10	PM25	CH4	CO	CO2	NMHC	PM10	PM25
410	0yr, none	13.1	460.0	9642.5	15.7	106.5	64.6	12.5	441.3	9314.6	15.1	102.1	62.5	12.3	433.7	9185.9	14.8	100.4	61.6
429	0yr, none	12.2	432.2	9296.7	14.8	100.0	62.5	12.2	432.2	9296.7	14.8	100.0	62.5	12.2	432.2	9296.7	14.8	100.0	62.5
1308	0yr, planted	18.8	644.2	12447.7	21.9	149.4	82.4	15.9	546.2	10616.4	18.6	126.7	70.3	12.7	436.8	8515.7	14.9	101.3	56.5
1211	4yr, burn	9.7	326.8	6047.7	11.1	75.9	39.8	5.9	199.0	3613.3	6.8	46.2	23.7	4.9	165.3	3046.8	5.6	38.4	20.0
787	5-19yr, burn	5.4	179.9	3186.8	6.1	41.8	20.8	4.1	136.6	2429.0	4.6	31.8	15.9	3.5	117.5	2112.4	4.0	27.3	13.8
467	20-39yr, thin	5.1	180.1	3816.4	6.2	41.7	25.6	5.1	179.1	3798.9	6.1	41.4	25.5	5.0	177.9	3779.8	6.1	41.2	25.4
595	20-39yr, none	11.1	385.5	7829.8	13.1	89.3	52.2	9.3	325.4	6653.9	11.1	75.4	44.4	7.5	263.0	5399.9	9.0	60.9	36.1
478	40-49yr, burn	15.0	518.9	10253.8	17.7	120.3	68.1	8.4	294.2	6067.5	10.0	68.1	40.6	5.3	187.1	3970.6	6.4	43.3	26.6
539	40-49yr, none	13.2	457.1	9113.8	15.6	106.0	60.6	11.5	398.0	7983.0	13.6	92.2	53.1	9.5	330.8	6668.7	11.3	76.6	44.4
854	40-49yr, thin	21.1	715.2	13391.8	24.3	166.0	88.2	14.8	516.9	10552.5	17.6	119.7	70.4	13.2	459.9	9391.3	15.7	106.5	62.7
855	40-49yr, thin	21.9	748.4	14411.9	25.5	173.6	95.4	17.5	609.0	12295.8	20.8	141.1	81.9	15.7	546.4	11050.8	18.6	126.6	73.7
1040	40-49yr, burn	16.0	541.3	9967.3	18.4	125.7	65.5	10.5	361.5	7124.2	12.3	83.8	47.3	8.2	281.4	5511.6	9.6	65.3	36.6
578	50-59yr, none	20.8	708.0	13442.9	24.1	164.3	88.8	15.3	531.6	10836.4	18.1	123.1	72.3	13.5	472.3	9633.6	16.1	109.4	64.3
600	50-59yr, none	26.9	916.9	17399.7	31.2	212.8	114.9	19.7	689.5	14196.1	23.5	159.7	94.9	18.1	632.5	13034.7	21.6	146.5	87.1
779	50-59yr, thin	25.9	888.9	17156.4	30.2	206.2	113.6	16.3	563.3	11141.4	19.2	130.6	74.0	13.5	468.1	9459.2	16.0	108.5	63.0
1264	50-59yr, burn	25.7	874.2	16509.0	29.7	202.9	108.9	18.6	637.6	12216.4	21.7	147.9	80.8	14.7	505.2	9772.7	17.2	117.2	64.7
1325	50-59yr, burn	25.9	871.9	15787.7	29.6	202.6	103.5	20.4	694.9	13250.7	23.6	161.2	87.5	16.2	558.6	11119.9	19.0	129.5	73.9
504	60+yr, none	26.8	897.8	15933.5	30.4	208.7	104.1	19.3	658.9	12571.4	22.4	152.9	83.1	14.6	505.9	10196.5	17.2	117.2	67.9
788	60+yr, burn	20.0	660.7	11192.0	22.3	153.8	72.5	12.4	410.4	7072.4	13.9	95.5	46.0	10.0	334.9	5871.8	11.3	77.9	38.3
853	60+yr, thin	27.6	932.7	17148.2	31.7	216.6	112.7	20.3	700.2	13880.1	23.9	162.3	92.2	16.7	582.3	11956.4	19.9	134.8	79.9

Table 18: Other southeastern pine, mixed conifer-hardwood, hardwood, shrubland and grassland fuelbeds. Fuel consumption by fuelbed stratum and total consumption in each fuelbed (tons/acre) calculated at 3 fuel moisture scenarios.

Consumption by fuelbed stratum (tons/acre)																			
		D1L1						D2L2						D4L4					
FB#	Age, Treatment	Shrub	Herb	Wood	Litter	Duff	Total	Shrub	Herb	Wood	Litter	Duff	Total	Shrub	Herb	Wood	Litter	Duff	Total
165	45+, Burn	1.99	0.32	0.40	0.91	0.00	3.63	1.99	0.32	0.36	0.02	0.00	2.69	1.99	0.32	0.34	0.02	0.00	2.67
166	45+, FireEx	8.77	0.19	1.00	1.10	4.18	15.25	8.77	0.19	0.89	1.10	2.52	13.48	8.77	0.19	0.84	1.10	0.45	11.36
152 S	25, Thin/Burn	0.49	0.04	2.03	2.85	0.00	5.40	0.49	0.04	2.02	2.36	0.00	4.90	0.49	0.04	2.01	1.75	0.00	4.28
191	40, Burn	4.90	0.19	0.79	1.71	0.00	7.59	4.90	0.19	0.61	1.10	0.00	6.80	4.90	0.19	0.55	0.02	0.00	5.66
187	40, Thin oak	1.83	0.19	8.06	0.83	0.00	10.91	1.83	0.19	7.68	0.40	0.00	10.10	1.83	0.19	7.45	0.17	0.00	9.64
448 S	30, Thin/Burn	0.37	0.05	1.75	0.99	0.00	3.16	0.37	0.05	1.28	0.51	0.00	2.20	0.37	0.05	1.12	0.02	0.00	1.56
282	30-80, None	0.85	0.02	4.98	5.73	1.96	13.54	0.85	0.02	4.22	5.73	0.30	11.12	0.85	0.02	3.84	4.98	0.00	9.69
178	10-15, None	2.79	0.09	12.70	3.22	0.00	18.81	2.79	0.09	10.22	2.67	0.00	15.77	2.79	0.09	9.06	1.98	0.00	13.92
157	45+, None	2.93	0.10	4.17	3.72	0.00	10.92	2.93	0.10	3.82	3.02	0.00	9.87	2.93	0.10	3.56	2.14	0.00	8.73
158	45+, SPB	4.90	0.10	22.32	5.49	0.00	32.81	4.90	0.10	22.32	5.49	0.00	32.81	4.90	0.10	22.32	5.49	0.00	32.81
183	10-15, Thin	3.45	0.19	14.08	3.22	0.00	20.93	3.45	0.19	11.59	2.67	0.00	17.89	3.45	0.19	10.43	1.98	0.00	16.04
402	1-10, Clearcut	2.30	0.09	13.24	4.12	0.00	19.75	2.30	0.09	13.24	4.12	0.00	19.75	2.30	0.09	13.24	4.12	0.00	19.75
114	40-80, FireEx	0.79	0.19	1.72	3.86	3.45	10.01	0.79	0.19	1.57	3.86	1.70	8.11	0.79	0.19	1.46	3.68	0.00	6.12
164	20-60, None	2.14	0.01	3.52	1.30	0.00	6.97	2.14	0.01	3.28	0.83	0.00	6.26	2.14	0.01	3.16	0.24	0.00	5.56
97 S	30, None	0.60	0.09	1.00	2.60	0.00	4.29	0.60	0.09	1.00	2.11	0.00	3.80	0.60	0.09	1.00	1.50	0.00	3.19
180 S	35, Burn	0.25	0.26	0.96	2.35	0.00	3.83	0.25	0.26	0.96	1.86	0.00	3.34	0.25	0.26	0.96	1.25	0.00	2.73
269	50, None	0.80	0.46	6.56	5.58	2.08	15.48	0.80	0.46	5.50	5.58	0.32	12.66	0.80	0.46	4.82	4.85	0.00	10.94
406	50, None	1.12	0.07	2.93	4.47	0.00	8.58	1.12	0.07	2.24	3.75	0.00	7.18	1.12	0.07	1.93	2.85	0.00	5.97
1190 S	60+, None	0.47	0.19	2.80	2.17	0.00	5.62	0.47	0.19	2.69	1.69	0.00	5.04	0.47	0.19	2.57	1.10	0.00	4.32
90	50+, None	0.86	0.01	7.07	5.27	1.96	15.17	0.86	0.01	5.68	5.27	0.30	12.12	0.86	0.01	4.91	4.58	0.00	10.36
123	70+, FireEx	3.02	0.06	4.25	6.02	0.00	13.34	3.02	0.06	3.72	5.60	0.00	12.39	3.02	0.06	3.38	5.08	0.00	11.54
264	50+, FireEx	2.46	1.16	1.31	1.88	0.00	6.80	2.46	1.16	1.31	1.21	0.00	6.13	2.46	1.16	1.31	0.02	0.00	4.95
275	50+, FireEx	7.54	0.14	2.70	4.17	0.00	14.55	7.54	0.14	2.53	3.46	0.00	13.66	7.54	0.14	2.41	2.56	0.00	12.65
407	40+, FireEx	1.02	0.07	4.15	6.03	0.00	11.27	1.02	0.07	3.62	5.39	0.00	10.10	1.02	0.07	3.28	4.58	0.00	8.96

Consumption by fuelbed stratum (tons/acre)																			
		D1L1						D2L2						D4L4					
FB#	Age, Treatment	Shrub	Herb	Wood	Litter	Duff	Total	Shrub	Herb	Wood	Litter	Duff	Total	Shrub	Herb	Wood	Litter	Duff	Total
431	50+, None	3.09	0.28	3.26	4.66	0.00	11.29	3.09	0.28	2.86	3.98	0.00	10.21	3.09	0.28	2.62	3.13	0.00	9.12
1154 S	30, None	0.12	0.08	2.45	2.72	0.01	5.39	0.12	0.08	2.24	2.24	0.00	4.68	0.12	0.08	2.17	1.63	0.00	4.01
1395 S	40, None	0.12	0.02	3.75	0.80	4.73	9.42	0.12	0.02	3.68	0.80	2.78	7.40	0.12	0.02	3.59	0.80	0.34	4.87
1660 S	100+, None	0.05	0.10	5.06	2.60	0.00	7.81	0.05	0.10	4.74	2.11	0.00	7.00	0.05	0.10	4.42	1.50	0.00	6.07
283	50, None	3.73	0.01	2.91	0.31	0.20	7.16	3.73	0.01	2.91	0.31	0.20	7.16	3.73	0.01	2.91	0.31	0.20	7.16
425	75, None	4.47	0.07	3.21	4.09	0.00	11.85	4.47	0.07	2.69	3.38	0.00	10.62	4.47	0.07	2.37	2.48	0.00	9.39
949 S	80+, None	0.32	0.06	1.40	0.01	0.00	1.79	0.32	0.06	1.29	0.01	0.00	1.68	0.32	0.06	1.16	0.01	0.00	1.56
1494 S	72, Burn	0.79	0.03	4.90	0.02	0.00	5.74	0.79	0.03	4.49	0.02	0.00	5.32	0.79	0.03	4.08	0.01	0.00	4.91
1495 S	72, Burn	0.14	0.08	13.68	3.09	0.00	17.00	0.14	0.08	11.57	2.61	0.00	14.41	0.14	0.08	9.60	2.00	0.00	11.82
184	45, FireEx	1.09	0.19	1.24	1.10	0.00	3.61	1.09	0.19	1.08	0.49	0.00	2.84	1.09	0.19	1.01	0.17	0.00	2.46
185	45, Burn	0.40	0.19	0.39	0.07	0.00	1.04	0.40	0.19	0.37	0.06	0.00	1.02	0.40	0.19	0.36	0.05	0.00	1.00
186	50, FireEx	1.07	0.09	1.50	0.33	0.00	2.99	1.07	0.09	1.38	0.17	0.00	2.72	1.07	0.09	1.30	0.15	0.00	2.61
1623 S	9, None	0.26	0.03	0.81	1.24	0.00	2.34	0.26	0.03	0.77	0.75	0.00	1.81	0.26	0.03	0.72	0.02	0.00	1.03
120	70+, FireEx	10.34	0.05	3.83	4.44	0.00	18.66	10.34	0.05	3.30	3.81	0.00	17.50	10.34	0.05	2.97	3.02	0.00	16.37
121	70+, SPB	10.34	0.09	20.49	6.05	0.00	36.97	10.34	0.09	16.87	5.42	0.00	32.71	10.34	0.09	14.37	4.62	0.00	29.42
283 M	50, None	3.73	0.01	2.91	0.31	0.20	7.16	3.73	0.01	2.91	0.31	0.20	7.16	3.73	0.01	2.91	0.31	0.20	7.16
6 S	75, None	0.25	0.12	7.83	4.92	0.00	13.12	0.25	0.12	7.00	4.17	0.00	11.54	0.25	0.12	6.47	3.24	0.00	10.07
288	100, None	1.08	0.01	5.70	0.70	0.00	7.48	1.08	0.01	4.95	0.33	0.00	6.37	1.08	0.01	4.31	0.12	0.00	5.52
439	35, Burn	1.08	0.97	0.34	0.93	0.00	3.33	1.08	0.97	0.31	0.02	0.00	2.39	1.08	0.97	0.30	0.02	0.00	2.37
448	75, None	7.75	0.10	5.70	0.99	2.30	16.84	7.75	0.10	4.95	0.99	1.13	14.93	7.75	0.10	4.31	0.88	0.00	13.05
181	50-90, None	4.73	0.00	4.97	3.09	11.27	24.06	4.73	0.00	4.38	3.09	9.70	21.90	4.73	0.00	4.03	3.09	7.75	19.61
170	20-60, None	7.10	0.09	0.00	3.22	97.28	107.69	7.10	0.09	0.00	3.22	91.92	102.32	7.10	0.09	0.00	3.22	85.21	95.61
168	20-60, None	5.75	0.09	0.00	2.15	581.47	589.46	5.75	0.09	0.00	2.15	576.11	584.09	5.75	0.09	0.00	2.15	569.40	577.38
95 M	10, None	5.99	0.00	0.42	0.01	0.00	6.41	5.99	0.00	0.42	0.01	0.00	6.41	5.99	0.00	0.42	0.00	0.00	6.41
276 S	25, None	0.37	0.44	15.35	3.34	0.00	19.50	0.37	0.44	12.51	2.85	0.00	16.18	0.37	0.44	9.89	2.24	0.00	12.94
448 M	20+, None	8.32	0.10	4.35	1.00	2.30	16.07	8.32	0.10	3.98	1.00	1.13	14.53	8.32	0.10	3.58	0.89	0.00	12.89

Consumption by fuelbed stratum (tons/acre)																			
		D1L1						D2L2						D4L4					
FB#	Age, Treatment	Shrub	Herb	Wood	Litter	Duff	Total	Shrub	Herb	Wood	Litter	Duff	Total	Shrub	Herb	Wood	Litter	Duff	Total
410	50+, None	8.05	0.05	0.86	2.59	0.32	11.86	8.05	0.05	0.86	2.59	0.32	11.86	8.05	0.05	0.86	2.59	0.32	11.86
1127 S	18, None	0.59	0.12	2.26	1.98	0.00	4.96	0.59	0.12	2.21	1.49	0.00	4.42	0.59	0.12	2.14	0.88	0.00	3.74
1386 S	2, Clearcut/None	9.24	0.15	7.17	0.00	0.00	16.56	9.24	0.15	7.09	0.00	0.00	16.48	9.24	0.15	7.01	0.00	0.00	16.40
1262	1, Graze	0.00	1.13	0.00	0.01	0.00	1.14	0.00	1.13	0.00	0.01	0.00	1.14	0.00	1.13	0.00	0.01	0.00	1.14
203 M	10+, None	0.00	2.78	0.00	0.86	0.00	3.64	0.00	2.78	0.00	0.57	0.00	3.36	0.00	2.78	0.00	0.01	0.00	2.79
1280	1, Mow	0.00	4.92	0.00	0.01	0.00	4.93	0.00	4.92	0.00	0.01	0.00	4.93	0.00	4.92	0.00	0.01	0.00	4.92

Table 19: Other southeastern pine, mixed conifer-hardwood, hardwood, shrubland and grassland fuelbeds. Emissions by pollutant type from each fuelbed (lbs/acre) calculated at 3 fuel moisture scenarios. Pollutants include methane (CH_4), carbon monoxide (CO), carbon dioxide (CO_2),non-methane hydrocarbons (NMH), and particulate matter (total, <10 μm and <2.5 μm)

Emissions by pollutant type (lbs/acre)																			
		D1L1						D2L2						D4L4					
FB#	Age, Treatment	CH4	CO	CO2	NMH	PM10	PM2	CH4	CO	CO2	NMH	PM10	PM2	CH4	CO	CO2	NMH	PM10	PM2
165	45+, Burn	7.8	279.0	6084.0	9.6	64.5	41.0	5.7	205.4	4509.8	7.0	47.5	30.4	5.7	203.1	4469.9	7.0	46.9	30.1
166	45+, FireEx	38.8	1324.0	25260.5	45.0	307.2	166.9	32.5	1123.6	22409.2	38.3	260.4	149.1	24.8	881.2	18992.1	30.1	203.8	127.7
152 S	25, Thin/Burn	11.9	422.0	9022.6	14.4	97.6	60.6	10.8	383.3	8192.9	13.1	88.7	55.0	9.5	335.0	7157.5	11.5	77.5	48.1
191	40, Burn	16.3	581.9	12706.6	19.9	134.5	85.6	14.5	518.0	11385.0	17.7	119.7	76.7	12.0	429.4	9489.6	14.7	99.2	64.0
187	40, Thin oak	24.9	872.8	18200.7	29.8	202.0	121.8	22.8	803.0	16858.0	27.4	185.8	112.9	21.6	762.7	16102.6	26.1	176.5	108.0
448 S	30, Thin/Burn	7.3	256.5	5266.0	8.8	59.4	35.2	5.0	175.6	3676.1	6.0	40.7	24.6	3.5	123.4	2602.0	4.2	28.6	17.4
282	30-80, None	34.0	1163.3	22445.9	39.6	269.9	148.6	25.8	901.9	18534.7	30.8	208.9	123.8	22.0	772.3	16172.8	26.4	178.8	108.3
178	10-15, None	47.0	1612.8	31193.5	54.9	374.1	206.5	38.7	1332.1	26192.8	45.4	308.9	173.9	33.6	1161.6	23142.0	39.6	269.2	153.9
157	45+, None	25.2	881.7	18211.9	30.1	204.2	121.7	22.6	791.1	16457.0	27.0	183.1	110.1	19.8	696.2	14571.0	23.8	161.1	97.6
158	45+, SPB	93.3	3104.1	53929.9	105.1	722.0	351.0	93.3	3104.1	53929.9	105.1	722.0	351.0	93.3	3104.1	53929.9	105.1	722.0	351.0
183	10-15, Thin	51.8	1781.6	34735.8	60.6	413.2	230.3	43.5	1500.9	29735.1	51.1	347.9	197.6	38.4	1330.4	26684.3	45.3	308.3	177.6
402	1-10, Clearcut	49.9	1706.9	32735.4	58.1	396.0	216.5	49.9	1706.9	32735.4	58.1	396.0	216.5	49.9	1706.9	32735.4	58.1	396.0	216.5
114	40-80, FireEx	24.6	755.8	16746.0	22.5	214.5	124.2	19.0	589.4	13608.8	17.7	164.1	99.1	13.2	418.7	10324.8	12.8	112.7	73.1
164	20-60, None	15.4	544.2	11652.3	18.6	125.9	78.3	13.7	485.4	10473.6	16.6	112.2	70.4	12.0	428.8	9303.9	14.7	99.1	62.6
97 S	30, None	9.4	282.9	7282.7	9.0	76.8	43.1	8.3	250.7	6452.9	7.9	68.0	38.2	7.0	210.4	5415.6	6.7	57.1	32.0
180 S	35, Burn	8.4	252.5	6503.5	8.0	68.5	38.5	7.3	220.2	5673.2	7.0	59.8	33.6	6.0	179.9	4635.3	5.7	48.8	27.4
269	50, None	52.7	1205.1	25926.4	39.6	319.8	157.5	37.2	928.2	21325.8	30.1	248.2	128.2	30.3	784.2	18455.9	25.3	210.3	110.6
406	50, None	22.0	597.4	14523.3	19.2	160.9	86.6	17.7	493.1	12161.2	15.8	133.1	72.4	14.4	407.0	10119.4	13.0	110.0	60.1
1190S	60+, None	16.2	409.3	9473.3	13.3	109.6	56.9	14.6	367.0	8489.0	11.9	98.2	51.0	12.6	315.4	7279.2	10.2	84.4	43.7
90	50+, None	50.5	1170.1	25429.8	38.4	310.9	154.2	34.7	879.3	20429.0	28.5	235.5	122.6	27.9	735.2	17503.6	23.7	197.5	104.7
123	70+, FireEx	33.6	923.1	22578.3	29.6	248.8	134.5	30.4	849.8	20994.5	27.2	229.4	124.9	27.7	785.2	19553.6	25.1	212.2	116.2
264	50+, FireEx	14.1	441.5	11577.5	13.9	120.1	68.3	12.7	397.1	10435.6	12.5	108.1	61.5	10.1	319.1	8425.6	10.0	86.9	49.7
275	50+, FireEx	32.7	968.2	24700.4	30.7	262.4	146.3	30.3	905.2	23203.1	28.7	245.5	137.3	27.7	834.7	21489.4	26.4	226.5	127.1
407	40+, FireEx	29.1	786.6	19061.6	25.3	211.8	113.7	25.4	698.4	17093.0	22.4	188.3	101.8	22.1	615.1	15171.0	19.7	166.0	90.3

Emissions by pollutant type (lbs/acre)																			
		D1L1						D2L2						D4L4					
FB#	Age, Treatment	CH4	CO	CO2	NMH	PM10	PM2	CH4	CO	CO2	NMH	PM10	PM2	CH4	CO	CO2	NMH	PM10	PM2
431	50+, None	27.3	769.9	19132.8	24.6	208.0	113.7	24.1	690.4	17316.3	22.0	186.7	102.8	21.1	612.3	15468.8	19.5	165.7	91.7
1154S	30, None	12.4	361.6	9139.5	11.5	97.9	54.2	10.6	312.2	7952.6	9.9	84.6	47.1	9.0	266.4	6802.0	8.5	72.2	40.3
1395S	40, None	42.6	836.8	15566.1	28.2	218.6	97.0	30.3	625.6	12283.3	20.9	164.3	75.8	14.8	361.8	8183.6	11.8	96.6	49.3
1660S	100+, None	24.7	589.9	13122.7	19.3	157.2	79.3	21.8	525.7	11770.1	17.2	140.2	71.1	18.7	453.4	10211.7	14.8	121.0	61.6
283	50, None	21.3	527.3	12049.6	17.1	140.9	72.5	21.3	527.3	12049.6	17.1	140.9	72.5	21.3	527.3	12049.6	17.1	140.9	72.5
425	75, None	30.6	826.9	20039.4	26.5	222.6	119.5	26.7	733.9	17970.0	23.5	197.9	107.0	23.1	644.1	15910.3	20.6	173.9	94.7
949S	80+, None	7.8	156.1	2967.8	5.2	40.9	18.4	7.2	145.1	2787.7	4.9	38.0	17.3	6.5	132.5	2583.5	4.4	34.8	16.0
1494S	72, Burn	21.5	466.3	9565.6	15.5	123.1	58.6	19.2	424.9	8887.0	14.0	112.4	54.2	16.9	384.2	8220.9	12.6	101.9	50.0
1495S	72, Burn	74.2	1483.6	28133.2	49.9	388.3	174.6	61.3	1241.9	23874.3	41.7	325.5	147.8	48.9	1005.2	19624.2	33.6	263.9	121.2
184	45, FireEx	8.0	283.7	6035.8	9.7	65.6	40.5	6.2	221.0	4744.3	7.6	51.1	31.9	5.4	190.4	4111.9	6.5	44.0	27.7
185	45, Burn	2.2	79.9	1745.6	2.7	18.5	11.8	2.2	77.7	1703.5	2.7	17.9	11.5	2.1	76.4	1678.8	2.6	17.7	11.3
186	50, FireEx	7.3	252.4	4969.8	8.6	58.5	33.0	6.6	228.9	4518.0	7.8	53.1	30.0	6.3	218.7	4343.6	7.5	50.7	28.9
1623S	9, None	5.4	188.2	3897.8	6.4	43.6	26.1	4.2	145.5	3010.2	5.0	33.7	20.1	2.4	84.0	1712.7	2.9	19.5	11.4
120	70+, FireEx	39.9	1266.8	31500.6	38.7	339.5	222.3	37.2	1182.7	29546.8	36.2	316.1	208.1	34.6	1102.3	27646.1	33.8	294.0	194.4
121	70+, SPB	85.6	2665.9	62120.2	80.3	738.7	450.6	74.8	2336.9	55000.7	70.5	644.3	397.2	66.5	2082.7	49508.3	63.0	571.4	356.1
283M	50, None	21.3	527.2	12047.1	17.1	140.9	72.5	19.6	641.7	10406.3	21.7	149.5	66.9	17.0	555.5	9018.0	18.8	129.4	58.0
6S	75, None	31.8	1099.6	21798.7	37.5	254.9	144.9	27.6	957.6	19197.7	32.6	221.9	127.8	23.8	828.7	16767.5	28.3	192.0	111.8
288	100, None	22.9	748.9	12230.5	25.3	174.4	78.7	19.6	641.7	10406.3	21.7	149.5	66.9	17.0	555.5	9018.0	18.8	129.4	58.0
439	35, Burn	7.1	254.4	5580.0	8.7	58.8	37.6	5.0	180.5	3997.0	6.2	41.7	27.0	5.0	179.2	3972.6	6.1	41.4	26.8
448	75, None	46.1	1546.7	27763.6	52.4	359.5	181.7	39.4	1333.9	24674.9	45.3	309.8	162.3	32.9	1125.8	21635.2	38.3	261.2	143.1
181	50-90, None	70.3	2325.0	39457.4	78.6	541.1	255.8	62.9	2088.2	35973.6	70.7	485.8	233.8	54.8	1829.1	32267.0	62.0	425.3	210.5
170	20-60, None	391.2	12381.5	173255.8	415.7	2893.3	1081.1	370.8	11741.1	164658.9	394.3	2743.6	1028.0	345.3	10940.6	153912.9	367.4	2556.4	961.6
168	20-60, None	2225.9	69960.0	944643.0	2346.1	16359.4	5847.4	2205.5	69319.6	936046.2	2324.7	16209.6	5794.2	2180.0	68519.1	925300.1	2297.8	16022.4	5727.8
95M	10, None	19.9	546.2	10626.6	18.3	111.9	88.7	19.9	546.2	10625.2	18.3	111.9	88.7	19.9	546.1	10623.7	18.3	111.8	88.7
276S	25, None	89.5	1744.2	32178.1	58.9	455.2	200.7	72.5	1430.1	26732.6	48.2	373.7	166.4	56.4	1128.7	21420.6	37.9	295.4	132.9
448M	20+, None	67.2	1676.0	26056.9	51.1	337.4	225.5	58.1	1467.9	23649.2	45.4	296.2	203.4	48.6	1251.4	21075.1	39.4	253.4	179.9

Emissions by pollutant type (lbs/acre)																			
		D1L1						D2L2						D4L4					
FB#	Age, Treatment	CH4	CO	CO2	NMH	PM10	PM2	CH4	CO	CO2	NMH	PM10	PM2	CH4	CO	CO2	NMH	PM10	PM2
410	50+, None	25.0	796.8	20042.8	24.4	212.2	140.8	25.0	796.8	20042.8	24.4	212.2	140.8	25.0	796.8	20042.8	24.4	212.2	140.8
1127S	18, None	11.7	407.1	8257.8	13.9	94.3	55.1	10.4	363.0	7350.9	12.4	84.1	49.0	8.9	308.3	6225.5	10.5	71.4	41.5
1386S	2, Clearcut/None	36.2	1286.5	27701.6	44.0	297.5	186.2	36.0	1277.2	27564.2	43.7	295.3	185.4	35.7	1268.5	27437.0	43.4	293.3	184.6
1262	1, Graze	3.5	96.9	1896.6	3.3	19.9	15.8	3.5	96.8	1893.5	3.3	19.8	15.8	3.5	96.6	1890.3	3.3	19.8	15.8
20 M	10+, None	8.1	234.1	6161.4	13.9	72.8	44.1	7.5	215.6	5686.8	12.9	67.1	40.7	6.2	178.2	4732.0	10.7	55.8	33.9
1280	1, Mow	15.1	417.4	8169.0	14.0	85.5	68.2	15.1	417.2	8166.0	14.0	85.5	68.1	15.1	417.1	8162.7	14.0	85.5	68.1

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