

Field Name	Description	Units	Species Utilization String Dependent	Utilization Standard Dependent	Total Utilization Standard Condition	Merchantable Utilization Standard Condition
stID	Stand identification (label or number)	char. string	n/a	n/a	n/a	n/a
stWT	Stand weight (relative area) = 1 unless part of a multistrata stand	>0-1	n/a	n/a	n/a	n/a
Age	Stand age	years	n/a	n/a	n/a	n/a
C_Den   D_Den	Density	trees/ha	Yes	Yes	Trees > 1.3m	Trees with trDBH > minDBH
C_AvDbh   D_AvDbh	Average DBH	cm	Yes	Yes	Trees > 1.3m	Trees with trDBH > minDBH
C_AvHt   D_AvHt	Average height	m	Yes	Yes	Trees > 1.3m	Trees with trDBH > minDBH
C_Ba   D_Ba	Basal area	m <sup>2</sup> /ha	Yes	Yes	Trees > 1.3m	Trees with trDBH > minDBH
C_Vol   D_Vol	Volume	m <sup>3</sup> /ha	Yes	Yes	Trees > 1.3m	Trees with trDBH > minDBH, given topdib, StumpHt, and VolumeLoss
C_Slndr   D_Slndr	Average slenderness (avHt/avDbh)	ratio	Yes	Yes	Trees > 1.3m	Trees with trDBH > minDBH
stQMD	Stand quadratic mean diameter (diameter of average basal area)	cm	Yes	Yes	Trees > 1.3m	Trees with trDBH > minDBH
stVol	Stand volume	m <sup>3</sup> /ha	Yes	Yes	Trees > 1.3m	Trees with trDBH > minDBH, given topdib, StumpHt, and VolumeLoss
stBa	Stand basal area	m <sup>2</sup> /ha	Yes	Yes	Trees > 1.3m	Trees with trDBH > minDBH
stDensity	Stand density	trees/ha	Yes	Yes	Trees > 1.3m	Trees with trDBH > minDBH
stavHt	Stand average height	m	Yes	Yes	Trees > 1.3m	Trees with trDBH > minDBH
stavDbh	Stand average DBH	cm	Yes	Yes	Trees > 1.3m	Trees with trDBH > minDBH
C_Tden   D_Tden	Total density (ignoring merchantability and species utilization specifications)	trees/ha	No	No	All trees	All trees
C_TopHt   D_TopHt	Top height (average height of the 100 largest DBH trees/ha)	m	Yes	Yes	Trees > 1.3m	Trees with trDBH > minDBH
stDenDead   C_DenDead   D_DenDead	Current year density/ha of dead trees	trees/ha	No	No	All trees	All trees
stBaDead   C_BaDead   D_BaDead	Current year basal area/ha of dead trees	m <sup>2</sup> /ha	No	No	Trees > 1.3m	Trees > 1.3m
stVolDead   C_VolDead   D_VolDead	Current year volume/ha of dead trees	m <sup>3</sup> /ha	No	No	Trees > 1.3m	Trees with trDBH > minDBH, given topdib, StumpHt, and VolumeLoss
stBaSurvGrowth   C_BaSurvGrowth   D_BaSurvGrowth	Current year basal area/ha growth of survivor trees	m <sup>2</sup> /ha	No	No	Trees > 1.3m	Trees > 1.3m
stVolSurvGrowth   C_VolSurvGrowth   D_VolSurvGrowth	Current year gross volume/ha growth of survivor trees between stump height and top dib for trees with DBH > 0	m <sup>3</sup> /ha	No	No	Trees > 1.3m	Trees with trDBH > minDBH, given topdib, StumpHt, and VolumeLoss
stBWood   C_stBWood   D_stBWood	Wood biomass (dry) - DBH-based equations - Lambert et al. (2005) - CJFR 35:1996-2018.	kg/ha	Yes	Yes	Trees > 1.3m	Trees with trDBH > minDBH
stBBark   C_stBBark   D_stBBark	Bark biomass (dry) - DBH-based equations - Lambert et al. (2005) - CJFR 35:1996-2018.	kg/ha	Yes	Yes	Trees > 1.3m	Trees with trDBH > minDBH
stBBranch   C_stBBranch   D_stBBranch	Branch biomass (dry) - DBH-based equations - Lambert et al. (2005) - CJFR 35:1996-2018.	kg/ha	Yes	Yes	Trees > 1.3m	Trees with trDBH > minDBH
stBFoliage   C_stBFoliage   D_stBFoliage	Foliage biomass (dry) - DBH-based equations - Lambert et al. (2005) - CJFR 35:1996-2018.	kg/ha	Yes	Yes	Trees > 1.3m	Trees with trDBH > minDBH
stBTotal   C_stBTotal   D_stBTotal	Total aboveground biomass (dry) - DBH-based equations - Lambert et al. (2005) - CJFR 35:1996-2018.	kg/ha	Yes	Yes	Trees > 1.3m	Trees with trDBH > minDBH
stCC	Stand crown closure	percent (>0-100)	No	No	All trees	All trees
Age2	Stand age (duplicate field)	years	n/a	n/a	n/a	n/a
C_Tapr   D_Tapr	Average taper (duplicate field) - Duplicates C_Slndr and D_Slndr (AvHt/AvDbh)	ratio	Yes	Yes	Trees > 1.3m	Trees with trDBH > minDBH
C_VPT   D_VPT	Average volume per tree (e.g. C_TVol/C_Den)	m <sup>3</sup>	Yes	Yes	Trees > 1.3m	Trees with trDBH > minDBH, given topdib, StumpHt, and VolumeLoss
C_Mai   D_Mai	Mean annual volume increment (e.g. C_TVol/Age)	m <sup>3</sup> /ha/year	Yes	Yes	Trees > 1.3m	Trees with trDBH > minDBH, given topdib, StumpHt, and VolumeLoss
C_space   D_space	Square spacing (e.g. SQRT(10000/C_Den))	m	Yes	Yes	Trees > 1.3m	Trees with trDBH > minDBH
C_TPM   D_TPM	Number of trees per m <sup>3</sup> (e.g. C_Den/C_TVol)	trees	Yes	Yes	Trees > 1.3m	Trees with trDBH > minDBH, given topdib, StumpHt, and VolumeLoss
C_netvalue   D_netvalue (illustrative application only)	NPV example Stumpage value/m <sup>3</sup> = yard value - tree-to-truck cost - haul cost yard value = Sale value - transport cost - mill cost = 35 tree-to-truck cost = (8.9465 - 2.6288 * ln(D_VPT)) haul cost (to mill) = 20 D-Value/ha = stumpage value/m <sup>3</sup> * D_TVol/ha	C\$	Yes	Yes	Trees > 1.3m	Trees with trDBH > minDBH, given topdib, StumpHt, and VolumeLoss
stNPV   C_NPV   D_NPV (illustrative application only)	NPV = (stumpage Value) / ((1+IntRate) ^ age)	C\$		Yes	Trees > 1.3m	Trees with trDBH > minDBH
SF	Spacing factor (SQRT(10000/stDensity)/stAvHt)	sf	Yes	Yes	Trees > 1.3m	Trees with trDBH > minDBH
st_TDen	Stand total density (ignoring merchantability and species utilization specifications)	trees/ha	No	No	All trees	All trees
stMAI	Stand mean annual volume increment (stVol/Age)	m <sup>3</sup> /ha/year	Yes	Yes	Trees > 1.3m	Trees with trDBH > minDBH, given topdib, StumpHt, and VolumeLoss
stSlndr	Stand slenderness (stAvHt/stAvDbh)	ratio	Yes	Yes	Trees > 1.3m	Trees with trDBH > minDBH