

**Table 18.4a. Relative standard errors (%) of total above-ground biomass on forest land by species group, age class and managed forest region in Canada.**

Managed forests	Species group	Age (years)											
		1-20	21-40	41-60	61-80	81-100	101-120	121-140	141-160	161-180	181-200	201+	Other <sup>1</sup>
0	Unclassified	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21.3
	Unspecified hardwoods	56.0	98.9	66.3	54.7	95.7	105.5	0.0	0.0	0.0	0.0	0.0	0.0
	Other hardwoods	95.0	44.4	41.7	53.1	59.4	51.4	95.0	125.4	0.0	0.0	101.3	0.0
	Maple	92.2	42.2	40.2	35.9	51.9	99.8	102.0	0.0	0.0	0.0	0.0	102.1
	Birch	47.6	55.2	29.9	45.3	64.9	101.8	101.8	0.0	0.0	0.0	0.0	0.0
	Poplar	57.0	58.9	68.6	34.2	82.8	66.5	96.4	0.0	0.0	0.0	100.3	0.0
	Unspecified conifers	61.7	43.7	68.4	67.4	77.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Cedar & other conifers	97.3	125.3	87.1	48.1	82.2	118.1	84.7	59.8	66.5	49.8	18.9	0.0
	Larch	0.0	84.2	44.3	102.0	94.9	125.4	125.4	0.0	0.0	0.0	0.0	0.0
	Douglas-fir	0.0	71.3	0.0	100.8	81.6	53.1	70.9	100.2	99.2	0.0	92.3	0.0
	Hemlock	0.0	71.2	73.4	62.8	53.0	73.3	60.9	0.0	79.9	72.9	25.9	0.0
	Fir	73.6	40.7	37.3	38.3	34.1	102.8	62.4	0.0	0.0	0.0	100.1	0.0
	Pine	85.1	94.9	46.3	71.3	55.9	60.2	0.0	0.0	95.9	0.0	79.5	0.0
	Spruce	76.9	35.8	20.4	21.5	43.3	68.7	26.2	48.6	60.1	75.2	50.2	0.0
11	Unclassified	63.1	35.7	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.9	
	Unspecified hardwoods	10.3	16.3	41.1	59.8	46.2	100.0	95.2	0.0	0.0	0.0	0.0	
	Other hardwoods	34.0	17.1	21.9	17.3	21.8	28.4	63.0	59.0	100.0	100.0	58.8	72.6
	Maple	31.2	17.4	11.2	12.3	9.8	20.7	45.0	53.7	97.8	0.0	77.4	0.0
	Birch	10.2	6.9	6.5	6.0	6.2	13.2	16.7	32.9	41.1	92.1	63.3	62.3
	Poplar	8.8	5.5	6.4	5.0	5.2	7.6	10.3	16.5	34.2	41.9	43.2	93.9
	Unspecified conifers	8.0	10.1	26.4	56.4	49.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Cedar & other conifers	26.0	25.7	27.9	24.2	12.7	14.9	18.6	20.5	25.2	24.9	10.8	0.0
	Larch	25.6	11.5	10.4	8.8	10.2	11.6	13.3	24.6	30.3	45.8	32.3	64.8
	Douglas-fir	29.0	21.8	20.9	30.2	15.2	13.4	12.7	15.0	15.4	20.0	13.0	0.0
	Hemlock	22.3	20.6	18.7	26.3	19.8	19.4	19.2	19.5	18.0	30.2	8.3	0.0
	Fir	12.9	6.4	6.3	7.5	5.7	10.6	9.5	10.6	12.0	13.1	7.6	61.9
	Pine	8.6	5.7	7.1	6.2	5.8	6.7	6.9	9.5	12.8	19.0	16.1	86.2
	Spruce	9.3	4.7	4.4	3.0	2.9	3.8	3.5	5.7	7.6	11.1	8.0	34.5
12	Unclassified	72.8	84.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.9	
	Unspecified hardwoods	35.1	37.5	43.7	98.9	100.4	0.0	0.0	0.0	0.0	0.0	0.0	
	Other hardwoods	0.0	47.1	43.3	33.4	59.3	85.4	76.9	100.2	0.0	0.0	0.0	0.0
	Maple	62.7	33.8	24.3	16.2	26.2	49.4	76.4	97.5	99.8	0.0	100.5	0.0
	Birch	45.2	26.7	23.6	20.1	20.8	41.5	47.3	95.3	0.0	0.0	100.5	0.0
	Poplar	17.1	15.4	12.7	11.7	13.8	29.1	37.9	61.0	69.5	99.4	100.2	100.2
	Unspecified conifers	27.4	29.3	37.8	95.0	94.0	0.0	0.0	0.0	0.0	0.0	0.0	100.2
	Cedar & other conifers	64.5	86.6	50.1	42.8	58.0	68.2	57.1	0.0	101.0	93.0	42.2	0.0
	Larch	73.3	27.0	21.2	17.5	24.2	27.8	26.4	49.7	60.2	83.8	90.2	0.0
	Douglas-fir	54.2	55.0	50.3	38.9	26.4	24.3	22.4	26.3	46.8	47.2	27.8	0.0
	Hemlock	99.3	66.5	66.2	35.6	63.5	62.1	40.5	65.5	52.8	100.9	43.2	0.0
	Fir	54.7	26.1	17.2	22.5	17.8	32.0	30.4	48.7	38.3	53.7	42.7	0.0
	Pine	20.0	14.3	14.7	14.8	13.6	18.9	24.2	43.8	42.6	56.0	54.8	100.2
	Spruce	18.1	11.3	9.7	8.5	7.4	11.5	9.1	21.8	33.5	35.8	32.9	0.0
	Unclassified	88.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5	
	Unspecified hardwoods	52.7	98.2	73.6	76.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Other hardwoods	72.1	52.7	46.0	59.1	31.9	22.6	66.1	100.0	0.0	0.0	0.0	
	Maple	67.2	64.9	30.0	28.5	68.3	108.4	0.0	0.0	0.0	0.0	0.0	
	Birch	13.8	14.6	19.3	15.8	15.6	40.1	49.5	100.0	0.0	68.1	0.0	
	Poplar	15.2	15.9	14.2	12.1	7.1	9.6	43.2	62.5	0.0	71.1	100.0	
	Unspecified conifers	35.0	30.0	41.2	59.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

Managed forests	Species group	Age (years)											Other <sup>1</sup>
		1-20	21-40	41-60	61-80	81-100	101-120	121-140	141-160	161-180	181-200	201+	
20	Cedar & other conifers	0.0	100.0	71.7	67.4	66.8	76.9	93.9	100.0	0.0	0.0	0.0	0.0
	Larch	20.8	10.8	8.4	10.3	15.5	15.0	27.2	25.3	47.0	62.7	59.9	0.0
	Hemlock	0.0	0.0	0.0	0.0	103.4	103.4	0.0	0.0	0.0	0.0	0.0	0.0
	Fir	44.9	37.1	23.4	20.2	14.3	19.8	17.1	26.8	49.9	84.2	100.0	0.0
	Pine	12.3	7.4	8.7	9.2	11.3	15.8	30.3	90.5	71.2	0.0	0.0	0.0
	Spruce	13.3	6.0	4.8	4.7	4.1	2.7	3.2	4.1	20.8	37.0	19.9	57.8
	Unclassified	76.8	99.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.1
	Unspecified hardwoods	34.5	35.8	94.2	0.0	74.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Other hardwoods	53.8	34.6	37.5	42.4	41.9	50.6	100.4	72.4	73.6	99.9	100.0	0.0
	Maple	54.9	34.4	22.8	15.8	27.4	49.9	88.1	83.5	0.0	0.0	0.0	0.0
	Birch	34.1	19.2	17.7	15.7	16.2	39.9	68.6	60.2	99.9	0.0	0.0	0.0
	Poplar	21.0	16.6	12.2	11.1	11.9	20.0	26.7	31.3	69.2	84.6	44.2	0.0
	Unspecified conifers	33.1	32.0	65.7	67.0	100.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Cedar & other conifers	87.6	48.4	57.5	51.5	44.5	33.2	48.9	82.9	55.5	39.8	17.1	0.0
	Larch	64.2	20.1	17.5	23.2	34.1	34.2	24.6	41.8	77.3	100.0	90.7	99.7
Douglas-fir	0.0	100.1	53.2	65.3	46.8	39.5	34.6	31.5	60.0	75.4	57.5	0.0	
Hemlock	100.2	59.0	47.0	52.6	32.6	46.0	32.4	60.4	44.0	51.4	15.1	0.0	
Fir	60.5	15.5	15.2	15.5	13.8	22.0	17.5	24.6	23.0	27.6	15.8	0.0	
Pine	30.0	15.4	12.3	13.1	15.9	18.5	19.6	23.5	41.6	42.5	26.6	0.0	
Spruce	31.8	13.8	9.9	7.9	6.6	8.0	7.7	13.4	20.5	24.7	13.0	96.0	
31	Unclassified	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	48.4	
	Unspecified hardwoods	0.0	0.0	94.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Other hardwoods	0.0	56.1	67.4	64.3	96.2	54.7	0.0	0.0	0.0	0.0	0.0	0.0
	Maple	93.3	47.4	63.8	54.9	76.4	117.4	0.0	0.0	0.0	0.0	0.0	0.0
	Birch	92.1	49.2	86.6	87.9	0.0	136.1	0.0	0.0	0.0	0.0	0.0	0.0
	Poplar	63.2	31.3	58.0	50.5	44.2	43.2	84.9	0.0	0.0	0.0	0.0	0.0
	Unspecified conifers	0.0	69.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Larch	87.0	65.5	38.3	43.5	39.7	32.3	41.2	50.4	99.6	0.0	99.6	0.0
	Douglas-fir	0.0	67.8	67.8	48.8	88.0	97.5	59.7	48.1	83.4	67.8	38.5	0.0
	Fir	0.0	83.6	95.4	63.2	69.0	0.0	56.2	0.0	0.0	0.0	0.0	0.0
	Pine	71.2	29.6	40.6	35.2	40.0	47.1	70.0	99.6	0.0	0.0	121.5	0.0
Spruce	58.0	29.0	40.2	25.8	24.7	30.0	41.6	32.7	75.0	99.6	0.0	0.0	
32	Unclassified	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	34.8	
	Unspecified hardwoods	28.2	40.5	83.3	83.3	88.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Other hardwoods	0.0	58.9	49.4	59.7	72.9	87.2	101.3	0.0	0.0	0.0	0.0	0.0
	Maple	84.3	86.8	32.7	45.3	66.1	97.5	97.7	0.0	0.0	0.0	0.0	0.0
	Birch	44.6	45.1	35.8	47.2	54.3	62.1	99.2	0.0	0.0	0.0	0.0	0.0
	Poplar	34.3	17.6	20.6	31.0	28.8	55.0	59.8	96.7	0.0	97.9	0.0	0.0
	Unspecified conifers	113.4	81.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Cedar & other conifers	97.2	65.7	56.5	62.9	92.1	82.2	0.0	0.0	0.0	0.0	61.4	0.0
	Larch	97.2	41.2	60.5	66.0	84.3	74.4	73.5	0.0	0.0	99.1	0.0	0.0
	Douglas-fir	70.8	57.1	66.7	97.5	56.6	43.6	73.3	58.7	52.1	82.7	35.9	0.0
	Hemlock	0.0	97.9	95.9	101.4	90.8	78.1	101.3	0.0	68.9	97.9	69.0	0.0
	Fir	98.4	44.4	64.3	75.4	36.8	99.7	99.7	102.9	0.0	0.0	99.7	0.0
	Pine	44.3	26.1	37.2	32.0	17.4	51.3	61.9	93.6	94.6	0.0	99.7	0.0
Spruce	53.4	44.1	27.2	32.4	30.7	31.2	40.8	93.4	97.9	85.7	91.0	0.0	
	Unclassified	0.0	100.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.6	
	Unspecified hardwoods	90.0	83.0	91.6	105.1	0.0	93.0	0.0	0.0	0.0	0.0	0.0	
	Other hardwoods	77.4	86.2	50.0	76.3	90.6	97.9	97.4	0.0	99.9	0.0	0.0	
	Maple	53.6	36.7	32.4	38.0	40.6	34.9	105.8	110.2	0.0	0.0	0.0	
	Birch	39.7	28.7	26.6	34.3	33.1	59.1	53.0	60.0	99.9	0.0	0.0	

Managed forests	Species group	Age (years)											
		1-20	21-40	41-60	61-80	81-100	101-120	121-140	141-160	161-180	181-200	201+	Other <sup>1</sup>
33	Poplar	20.8	17.7	19.6	20.6	21.4	29.5	47.3	62.9	48.8	100.3	96.8	0.0
	Unspecified conifers	43.8	49.3	74.2	82.9	77.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Cedar & other conifers	84.3	44.9	55.0	67.8	73.2	78.9	53.9	83.1	100.2	100.1	25.2	0.0
	Larch	39.8	32.0	24.7	22.8	26.5	25.7	42.8	50.7	99.9	85.3	53.6	0.0
	Douglas-fir	56.3	56.4	65.4	74.7	44.2	45.7	36.6	40.4	58.0	70.7	47.2	0.0
	Hemlock	76.9	48.9	51.0	47.3	53.1	74.2	53.3	56.9	51.1	61.8	27.7	0.0
	Fir	44.0	31.3	27.8	34.0	21.7	25.9	23.3	30.4	24.6	26.9	17.7	0.0
	Pine	23.6	20.9	26.7	20.0	19.5	23.2	26.7	26.7	34.6	49.3	37.7	0.0
	Spruce	32.2	20.9	19.2	13.6	12.8	15.1	12.5	20.9	23.4	25.6	14.7	107.4
40	Unclassified	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	51.7
	Unspecified hardwoods	103.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Other hardwoods	0.0	0.0	0.0	66.7	0.0	61.9	0.0	0.0	0.0	0.0	0.0	0.0
	Birch	44.4	45.2	48.5	47.4	53.6	0.0	103.6	99.0	0.0	0.0	0.0	0.0
	Poplar	41.8	59.9	32.4	37.9	24.0	18.4	101.7	84.0	99.0	0.0	0.0	0.0
	Cedar & other conifers	0.0	99.0	0.0	0.0	113.0	113.0	0.0	113.0	0.0	113.0	88.1	0.0
	Larch	65.1	45.0	46.5	43.0	57.7	50.0	58.9	91.1	0.0	0.0	99.9	0.0
	Hemlock	85.9	99.0	92.1	0.0	90.9	0.0	64.5	95.6	99.0	99.0	37.0	0.0
	Fir	100.9	62.9	60.5	62.2	55.0	100.3	74.7	98.7	0.0	0.0	68.2	0.0
	Pine	48.0	33.0	36.9	52.6	42.2	79.3	58.1	99.6	0.0	0.0	99.0	0.0
	Spruce	38.9	22.4	19.6	17.2	20.2	8.7	12.6	23.6	67.9	70.9	55.5	0.0
	50	Unclassified	32.0	28.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Unspecified hardwoods		11.7	17.7	19.1	56.0	28.9	100.0	0.0	0.0	0.0	0.0	0.0	100.8
Other hardwoods		28.3	22.6	12.6	13.3	15.9	40.1	59.8	100.1	0.0	100.4	82.5	0.0
Maple		16.0	9.8	6.5	6.6	7.5	13.9	37.1	41.8	70.7	0.0	0.0	100.8
Birch		19.0	10.1	9.4	12.8	14.1	22.1	45.7	89.7	0.0	0.0	0.0	0.0
Poplar		8.1	6.3	5.7	6.4	11.4	20.5	28.0	38.1	78.8	73.4	90.7	100.1
Unspecified conifers		11.4	11.4	21.1	47.2	40.6	0.0	0.0	0.0	0.0	0.0	0.0	73.5
Cedar & other conifers		46.3	20.6	13.6	11.6	12.9	25.4	29.3	43.9	69.6	74.3	46.1	0.0
Larch		29.6	19.0	18.4	16.6	23.1	34.1	51.1	62.8	82.3	0.0	58.5	0.0
Douglas-fir		51.4	50.6	43.0	29.9	26.0	26.6	36.1	28.9	46.0	47.9	37.8	0.0
Hemlock		76.8	40.5	25.3	34.1	39.3	39.0	33.3	76.1	50.0	72.2	34.1	0.0
Fir		15.8	9.2	6.0	8.8	13.7	25.0	54.9	57.5	0.0	97.8	69.7	0.0
Pine	40.1	15.3	11.7	14.3	13.5	20.1	21.4	38.0	75.0	75.5	51.2	100.1	
Spruce	15.7	9.4	6.1	5.2	8.1	14.5	16.2	30.4	34.6	55.3	45.8	100.6	
100	Unclassified	96.8	72.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.5
	Unspecified hardwoods	36.0	46.9	81.9	53.7	47.8	98.1	0.0	0.0	0.0	0.0	0.0	0.0
	Other hardwoods	45.2	41.9	48.0	29.8	36.9	77.2	94.5	0.0	100.6	0.0	100.3	0.0
	Maple	61.9	48.0	22.7	22.0	20.4	49.3	65.0	0.0	100.2	0.0	0.0	0.0
	Birch	28.2	20.9	18.6	14.6	15.9	27.9	49.8	65.2	0.0	0.0	0.0	0.0
	Poplar	25.0	14.9	15.5	17.1	16.1	33.6	35.9	33.5	82.9	48.7	77.0	0.0
	Unspecified conifers	27.8	34.0	44.8	0.0	100.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Cedar & other conifers	0.0	64.9	44.1	31.1	31.8	40.8	61.9	61.2	89.3	0.0	30.4	0.0
	Larch	51.1	26.0	20.1	31.2	39.9	39.3	53.8	86.6	93.9	100.2	9.8	100.7
	Douglas-fir	0.0	71.4	48.6	37.4	87.3	78.0	33.4	38.0	76.7	65.4	33.2	0.0
	Hemlock	0.0	55.2	39.6	38.1	41.7	76.2	69.9	71.0	56.5	51.9	28.1	0.0
	Fir	39.4	22.8	18.9	18.7	24.7	26.7	34.4	58.9	42.0	64.5	82.9	100.7
	Pine	26.0	14.8	16.1	15.5	21.4	26.3	41.6	43.6	50.4	49.3	38.4	0.0
	Spruce	51.0	13.7	8.9	10.2	8.3	9.5	8.3	13.4	38.4	77.7	40.1	100.7
	Other	Unclassified	37.6	22.2	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Unspecified hardwoods		8.1	11.5	17.4	47.6	22.6	52.5	95.2	0.0	0.0	0.0	0.0	100.8
Other hardwoods		21.2	13.1	10.9	9.8	12.0	19.0	32.8	44.5	64.3	70.3	52.5	72.6

Managed forests	Species group	Age (years)											
		1-20	21-40	41-60	61-80	81-100	101-120	121-140	141-160	161-180	181-200	201+	Other <sup>1</sup>
Canada	Maple	15.4	8.5	5.2	5.3	5.9	11.1	26.6	30.8	76.0	0.0	74.3	78.3
	Birch	7.0	5.2	4.9	4.7	5.0	10.3	14.3	27.8	38.0	55.0	61.7	62.3
	Poplar	5.7	3.7	3.8	3.5	3.5	5.7	9.0	14.2	29.3	31.5	30.3	73.7
	Unspecified conifers	6.6	7.3	17.2	29.4	27.2	0.0	0.0	0.0	0.0	0.0	0.0	59.3
	Cedar & other conifers	24.7	15.3	14.3	11.8	9.2	11.8	14.3	26.6	24.6	20.7	8.3	0.0
	Larch	17.1	6.4	5.9	5.7	7.6	8.6	9.8	15.0	23.9	35.6	25.5	62.6
	Douglas-fir	24.4	21.8	18.9	19.0	11.9	10.3	10.9	11.7	13.1	16.4	12.9	0.0
	Hemlock	21.3	16.1	15.1	19.1	15.9	15.6	14.3	19.9	15.1	23.8	6.7	0.0
	Fir	10.2	4.9	4.2	5.2	4.4	7.8	6.9	8.9	9.6	10.6	6.3	61.0
	Pine	6.3	3.9	4.7	4.4	4.5	5.4	6.0	8.6	12.9	16.2	12.6	69.0
Spruce	6.5	3.3	2.7	2.2	2.0	2.1	2.1	3.1	6.5	9.2	5.8	32.7	

Source: Canada's National Forest Inventory, combined remeasured (2007-2017) and projected (2006-2017 with NFI projection system) data (Version 2, November 2022) (<http://nfi.nfis.org>)

Note: The Arctic ecozones (Arctic Cordillera, Northern Arctic, Southern Arctic), and the Taiga Plains and Hudson Plains ecozones located in Nunavut, are not inventoried. These non-inventoried areas total 262,189.89 thousand ha.

<sup>1</sup>Missing or unknown age class.

#### Managed forest

Code	Description
0	Not available
11	Long term volume or area based Crown timber dispositions
12	Short term volume or area based Crown timber dispositions
13	No current Crown timber dispositions
20	Legal protection status (IUCN class IA, IB, II, III, IV, V, VI equivalent)
31	Reserved by the Federal government for military or other purposes
32	Reserved by the Federal government under the Indian Act
33	Reserved or designated restricted use by provincial or territorial government
40	Aboriginal lands
50	Privately-owned lands
100	Water