

Table 1—Land area by survey unit and land class, Kentucky, 2004

Survey unit	Total land area ^a	Forestland			Other land ^b	
		Total forest	Timberland	Productive reserved		Other
<i>thousand acres</i>						
Eastern	2,123.1	1,838.8	1,794.6	32.0	12.1	284.2
Northern Cumberland	2,492.1	1,909.6	1,884.6	21.9	3.1	582.6
Southern Cumberland	2,780.1	2,197.2	2,063.2	127.4	6.7	582.8
Bluegrass	5,617.2	1,559.2	1,550.5	8.7	—	4,058.0
Pennyroyal	4,818.1	2,080.2	2,041.6	33.1	5.4	2,737.9
Western Coalfield	5,438.8	1,686.8	1,644.5	31.8	10.5	3,752.0
Western	2,156.6	698.6	668.9	29.7	—	1,458.0
All units	25,425.9	11,970.4	11,647.9	284.7	37.8	13,455.5

— = no sample for the cell.

Numbers in rows and columns may not sum to totals due to rounding.

^a From the U.S. Bureau of the Census, 2000.

^b Includes 138.84 thousand acres of water according to Forest Inventory and Analysis standards of area classification, but defined by the Bureau of the Census as land.

Table 2—Area of timberland by survey unit and ownership class, Kentucky, 2004

Survey unit	All classes	Ownership class			
		National forest	Other public	Forest industry	Nonindustrial private
<i>thousand acres</i>					
Eastern	1,794.6	71.3	39.5	24.6	1,659.2
Northern Cumberland	1,884.6	127.3	83.8	56.5	1,616.9
Southern Cumberland	2,063.2	319.5	43.8	49.3	1,650.6
Bluegrass	1,550.5	16.8	36.8	15.9	1,481.0
Pennyroyal	2,041.6	23.7	75.4	52.5	1,890.0
Western Coalfield	1,644.5	—	77.9	23.0	1,543.7
Western	668.9	31.5	82.7	57.0	497.7
All units	11,647.9	590.3	439.7	278.8	10,339.1

— = no sample for the cell.

Numbers in rows and columns may not sum to totals due to rounding.

Table 3—Area of timberland by survey unit and forest-type group, Kentucky, 2004

Survey unit	All groups	Forest-type group									
		White-red-jack pine	Loblolly-shortleaf	Pinyon-juniper ^a	Oak-pine	Oak-hickory	Oak-gum-cypress	Elm-ash-cottonwood	Maple-beech-	Aspen-birch	Non-stocked
<i>thousand acres</i>											
Eastern	1,794.6	37.5	16.3	—	29.3	1,407.3	—	34.5	263.2	—	6.6
Northern Cumberland	1,884.6	68.6	37.1	10.3	109.1	1,585.7	—	10.7	57.6	4.1	1.5
Southern Cumberland	2,063.2	44.7	114.9	—	112.6	1,659.3	1.6	29.2	96.0	—	4.9
Bluegrass	1,550.5	—	7.0	85.5	360.6	753.0	—	202.5	126.8	—	15.0
Pennyroyal	2,041.6	5.9	42.5	54.5	284.6	1,408.6	—	84.9	150.7	—	9.9
Western Coalfield	1,644.5	—	20.0	20.1	151.9	1,173.2	21.8	171.7	64.8	—	21.2
Western	668.9	—	6.5	—	30.6	449.3	56.6	111.9	10.2	—	3.7
All units	11,647.9	156.8	244.2	170.3	1,078.7	8,436.3	80.0	645.4	769.3	4.1	62.8

— = no sample for the cell.

Numbers in rows and columns may not sum to totals due to rounding.

Forest-type groups are based on field estimates.

^a Pinyon-juniper includes Eastern redcedar forest type.

Table 4—Area of timberland by survey unit and stand-size class, Kentucky, 2004

Survey unit	All classes	Stand-size class			
		Sawtimber	Poletimber	Sapling-seedling	Nonstocked
<i>thousand acres</i>					
Eastern	1,794.6	1,374.5	270.8	142.7	6.6
Northern Cumberland	1,884.6	1,301.3	411.1	170.6	1.5
Southern Cumberland	2,063.2	1,424.6	400.4	233.4	4.9
Bluegrass	1,550.5	786.1	558.8	190.6	15.0
Pennyroyal	2,041.6	1,312.8	501.6	217.4	9.9
Western Coalfield	1,644.5	1,002.7	486.7	133.9	21.2
Western	668.9	403.5	192.2	69.4	3.7
All units	11,647.9	7,605.4	2,821.6	1,158.0	62.8

Numbers in rows and columns may not sum to totals due to rounding.

Table 5—Area of timberland by forest-type group, stand origin and ownership class, Kentucky, 2004

Forest-type group and stand origin	All classes	Ownership class			
		National forest	Other public	Forest industry	Nonindustrial private
<i>thousand acres</i>					
Softwood types					
White-red-jack pine					
Planted	16.7	9.0	—	—	7.7
Natural	140.1	23.7	3.5	—	112.9
Total	156.8	32.7	3.5	—	120.6
Loblolly-shortleaf					
Planted	31.2	—	—	2.3	28.9
Natural	213.0	13.4	1.7	—	197.8
Total	244.2	13.4	1.7	2.3	226.7
Pinyon-juniper ^a	170.3	—	9.8	—	160.5
Total softwoods	571.3	46.1	15.0	2.3	507.8
Hardwood types					
Oak-pine					
Planted	21.3	—	9.5	6.0	5.8
Natural	1,057.3	46.5	50.5	6.5	953.9
Total	1,078.7	46.5	60.0	12.5	959.7
Oak-hickory	8,436.3	481.4	292.4	216.9	7,445.7
Oak-gum-cypress	80.0	—	14.4	17.3	48.2
Elm-ash-cottonwood	645.4	—	38.2	5.6	601.6
Maple-beech-birch	769.3	16.3	15.1	24.1	713.8
Aspen-birch	4.1	—	—	—	4.1
Total hardwoods	11,013.8	544.1	420.1	276.5	9,773.1
Nonstocked	62.8	—	4.6	—	58.2
All groups	11,647.9	590.3	439.7	278.8	10,339.1

— = no sample for the cell.

Numbers in rows and columns may not sum to totals due to rounding.

Forest-type groups are based on field estimates.

^a Pinyon-juniper includes Eastern redcedar forest type.

Table 6—Number of live trees on timberland by species group and diameter class, Kentucky, 2004

Species group	All classes	Diameter class (<i>inches at breast height</i>)											
		1.0 – 2.9	3.0 – 4.9	5.0 – 6.9	7.0 – 8.9	9.0 – 10.9	11.0 – 12.9	13.0 – 14.9	15.0 – 16.9	17.0 – 18.9	19.0 – 20.9	21.0 – 28.9	29.0 and larger
<i>thousand trees</i>													
Softwood													
Yellow pine	172,310	73,967	32,623	20,492	15,977	11,981	8,208	4,548	2,845	891	467	310	—
Other softwoods	396,096	199,166	107,744	46,569	22,896	10,093	4,341	2,241	1,007	733	419	812	74
All softwoods	568,406	273,133	140,367	67,061	38,874	22,074	12,550	6,789	3,852	1,624	886	1,122	74
Hardwood													
Soft hardwoods	2,588,641	1,642,030	446,929	195,699	114,205	68,985	46,753	30,900	19,905	10,681	5,153	6,378	1,022
Hard hardwoods	3,312,096	1,876,406	558,724	267,596	181,792	136,213	100,176	74,693	48,544	29,822	16,405	19,444	2,282
All hardwoods	5,900,736	3,518,436	1,005,653	463,295	295,996	205,198	146,929	105,594	68,450	40,503	21,558	25,822	3,304
All species	6,469,142	3,791,569	1,146,020	530,355	334,870	227,272	159,479	112,382	72,302	42,127	22,444	26,944	3,378

— = no sample for the cell.

Numbers in rows and columns may not sum to totals due to rounding.

Table 7—Number of growing-stock trees on timberland by species group and diameter class, Kentucky, 2004

Species group	All classes	Diameter class (<i>inches at breast height</i>)											
		1.0 – 2.9	3.0 – 4.9	5.0 – 6.9	7.0 – 8.9	9.0 – 10.9	11.0 – 12.9	13.0 – 14.9	15.0 – 16.9	17.0 – 18.9	19.0 – 20.9	21.0 – 28.9	29.0 and larger
<i>thousand trees</i>													
Softwood													
Yellow pine	90,215	15,541	17,179	17,633	13,791	10,703	7,587	3,957	2,459	763	325	277	—
Other softwoods	149,158	54,034	42,000	26,607	14,617	5,576	2,531	1,482	602	618	246	772	74
All softwoods	239,373	69,576	59,178	44,239	28,408	16,280	10,118	5,439	3,062	1,381	571	1,048	74
Hardwood													
Soft hardwoods	863,322	293,255	197,035	130,534	84,850	55,330	38,669	26,610	17,531	9,130	4,542	5,214	622
Hard hardwoods	1,132,124	248,788	201,260	175,149	141,603	114,872	86,018	65,738	42,714	26,234	14,175	14,485	1,086
All hardwoods	1,995,446	542,043	398,295	305,683	226,454	170,202	124,687	92,348	60,244	35,364	18,718	19,700	1,708
All species	2,234,819	611,619	457,473	349,922	254,861	186,482	134,805	97,786	63,306	36,745	19,289	20,748	1,782

— = no sample for the cell.

Numbers in rows and columns may not sum to totals due to rounding.

Table 8—Volume of live trees on timberland by species group and diameter class, Kentucky, 2004

Species group	All classes	Diameter class (<i>inches at breast height</i>)									
		5.0 – 6.9	7.0 – 8.9	9.0 – 10.9	11.0 – 12.9	13.0 – 14.9	15.0 – 16.9	17.0 – 18.9	19.0 – 20.9	21.0 – 28.9	29.0 and larger
<i>million cubic feet</i>											
Softwood											
Yellow pine	852.0	59.5	110.8	150.8	167.6	135.3	122.6	49.2	31.8	24.5	—
Other softwoods	597.9	98.8	112.5	89.3	61.8	49.5	29.0	32.5	22.5	84.9	17.0
All softwoods	1,449.9	158.3	223.2	240.1	229.4	184.9	151.6	81.7	54.3	109.3	17.0
Hardwood											
Soft hardwoods	6,248.5	535.2	717.8	803.6	873.5	865.8	772.0	533.7	340.7	602.4	203.9
Hard hardwoods	13,489.6	718.4	1,131.3	1,576.9	1,845.4	2,007.1	1,810.3	1,432.1	987.4	1,624.9	355.8
All hardwoods	19,738.1	1,253.5	1,849.1	2,380.5	2,718.9	2,872.9	2,582.3	1,965.8	1,328.1	2,227.2	559.7
All species	21,187.9	1,411.8	2,072.3	2,620.7	2,948.2	3,057.8	2,733.9	2,047.5	1,382.4	2,336.6	576.7

— = no sample for the cell.

Numbers in rows and columns may not sum to totals due to rounding.

Table 9—Volume of growing-stock trees on timberland by species group and diameter class, Kentucky, 2004

Species group	All classes	Diameter class (<i>inches at breast height</i>)									
		5.0 – 6.9	7.0 – 8.9	9.0 – 10.9	11.0 – 12.9	13.0 – 14.9	15.0 – 16.9	17.0 – 18.9	19.0 – 20.9	21.0 – 28.9	29.0 and larger
<i>million cubic feet</i>											
Softwood											
Yellow pine	763.4	53.7	99.0	138.1	156.6	119.4	106.7	43.5	24.1	22.3	—
Other softwoods	419.0	60.4	75.8	51.0	38.1	34.8	17.9	28.8	13.8	81.5	17.0
All softwoods	1,182.4	114.1	174.8	189.1	194.7	154.2	124.6	72.3	37.9	103.7	17.0
Hardwood											
Soft hardwoods	5,355.0	386.6	571.2	679.4	762.6	775.7	709.3	483.1	310.1	525.8	151.2
Hard hardwoods	11,680.0	511.6	929.4	1,382.8	1,646.4	1,814.3	1,648.8	1,312.2	889.5	1,335.4	209.5
All hardwoods	17,035.0	898.2	1,500.6	2,062.2	2,409.0	2,590.0	2,358.1	1,795.4	1,199.6	1,861.2	360.7
All species	18,217.4	1,012.3	1,675.4	2,251.3	2,603.7	2,744.1	2,482.7	1,867.7	1,237.5	1,964.9	377.7

— = no sample for the cell.

Numbers in rows and columns may not sum to totals due to rounding.

Table 10—Volume of sawtimber on timberland by species group and diameter class, Kentucky, 2004

Species group	All classes	Diameter class (<i>inches at breast height</i>)							
		9.0 – 10.9	11.0 – 12.9	13.0 – 14.9	15.0 – 16.9	17.0 – 18.9	19.0 – 20.9	21.0 – 28.9	29.0 and larger
<i>million board feet</i>									
Softwood									
Yellow pine	2,873.3	502.3	686.4	585.4	572.0	248.0	141.6	137.6	—
Other softwoods	1,464.9	199.9	171.0	172.0	95.7	156.2	77.9	483.7	108.6
All softwoods	4,338.2	702.2	857.4	757.3	667.7	404.2	219.4	621.3	108.6
Hardwood									
Soft hardwoods	17,391.7	—	2,635.1	3,205.9	3,333.9	2,450.4	1,671.8	3,086.7	1,007.8
Hard hardwoods	38,653.0	—	5,674.0	7,191.0	7,197.2	6,117.6	4,328.1	6,967.9	1,177.2
All hardwoods	56,044.6	—	8,309.1	10,396.9	10,531.1	8,568.1	5,999.9	10,054.6	2,184.9
All species	60,382.8	702.2	9,166.6	11,154.3	11,198.9	8,972.3	6,219.3	10,675.8	2,293.6

— = no sample for the cell.

Numbers in rows and columns may not sum to totals due to rounding.

Table 11—Volume of live trees on timberland by survey unit and species group, Kentucky, 2004

Survey unit	All species	Softwoods			Hardwoods		
		All softwood	Yellow pine	Other softwood	All hardwood	Soft hardwood	Hard hardwood
<i>million cubic feet</i>							
Eastern	3,627.5	117.6	74.7	42.9	3,509.9	1,365.6	2,144.3
Northern Cumberland	3,519.3	267.4	205.5	61.9	3,251.9	870.3	2,381.6
Southern Cumberland	3,936.1	318.7	260.8	57.9	3,617.4	1,195.5	2,421.9
Bluegrass	2,299.2	197.5	21.6	176.0	2,101.6	583.2	1,518.4
Pennyroyal	3,654.9	284.9	170.5	114.4	3,370.0	888.5	2,481.5
Western Coalfield	2,878.1	155.6	99.2	56.5	2,722.5	905.7	1,816.8
Western	1,272.8	108.0	19.7	88.3	1,164.8	439.6	725.2
All units	21,187.9	1,449.9	852.0	597.9	19,738.1	6,248.5	13,489.6

Numbers in rows and columns may not sum to totals due to rounding.

Table 12—Volume of growing-stock on timberland by survey unit and species group, Kentucky, 2004

Survey unit	All species	Softwoods			Hardwoods		
		All softwood	Yellow pine	Other softwood	All hardwood	Soft hardwood	Hard hardwood
<i>million cubic feet</i>							
Eastern	3,054.3	98.3	68.6	29.7	2,956.0	1,205.9	1,750.2
Northern Cumberland	3,176.3	248.4	189.6	58.8	2,927.9	775.6	2,152.3
Southern Cumberland	3,483.3	288.5	239.9	48.6	3,194.8	1,052.4	2,142.4
Bluegrass	1,791.6	123.3	18.9	104.4	1,668.3	440.2	1,228.1
Pennyroyal	3,142.3	208.9	145.7	63.1	2,933.4	734.6	2,198.8
Western Coalfield	2,443.8	111.8	81.7	30.0	2,332.1	771.2	1,560.9
Western	1,125.7	103.3	18.9	84.4	1,022.4	375.1	647.3
All units	18,217.4	1,182.4	763.4	419.0	17,035.0	5,355.0	11,680.0

Numbers in rows and columns may not sum to totals due to rounding.

Table 13—Volume of sawtimber on timberland by survey unit and species group, Kentucky, 2004

Survey unit	All species	Softwoods			Hardwoods		
		All softwood	Yellow pine	Other softwood	All hardwood	Soft hardwood	Hard hardwood
<i>million board feet</i>							
Eastern	10,428.2	421.3	294.7	126.7	10,006.9	4,039.8	5,967.1
Northern Cumberland	10,145.4	975.0	702.7	272.3	9,170.4	2,208.4	6,962.0
Southern Cumberland	11,594.5	1,054.4	872.9	181.4	10,540.1	3,219.6	7,320.5
Bluegrass	5,646.7	292.0	62.5	229.5	5,354.7	1,512.2	3,842.5
Pennyroyal	10,210.0	653.1	530.8	122.3	9,556.8	2,349.6	7,207.2
Western Coalfield	8,054.8	437.3	367.7	69.6	7,617.5	2,455.4	5,162.1
Western	4,303.3	505.0	41.9	463.1	3,798.3	1,606.8	2,191.5
All units	60,382.8	4,338.2	2,873.3	1,464.9	56,044.6	17,391.7	38,653.0

Numbers in rows and columns may not sum to totals due to rounding.

Table 14—Volume of live trees and growing stock on timberland by ownership class and species group, Kentucky, 2004

Ownership class	All species	Softwoods			Hardwoods		
		All softwood	Yellow pine	Other softwood	All hardwood	Soft hardwood	Hard hardwood
Live trees (million cubic feet)							
National forest	1,398.2	157.2	106.0	51.2	1,241.0	286.9	954.1
Other public	980.9	119.6	65.5	54.0	861.3	247.0	614.3
Forest industry	576.2	75.1	16.1	59.0	501.1	188.5	312.5
Nonindustrial private	18,232.7	1,098.0	664.4	433.6	17,134.7	5,526.0	11,608.7
All classes	21,187.9	1,449.9	852.0	597.9	19,738.1	6,248.5	13,489.6
Growing-stock trees (million cubic feet)							
National forest	1,297.6	151.2	104.0	47.2	1,146.4	263.7	882.7
Other public	848.8	93.6	49.1	44.5	755.2	209.8	545.4
Forest industry	525.9	73.7	15.9	57.8	452.2	178.7	273.4
Nonindustrial private	15,545.1	863.9	594.4	269.5	14,681.2	4,702.8	9,978.4
All classes	18,217.4	1,182.4	763.4	419.0	17,035.0	5,355.0	11,680.0

Numbers in rows and columns may not sum to totals due to rounding.

Table 15—Volume of sawtimber on timberland by ownership class and species group, Kentucky, 2004

Ownership class	All species	Softwoods			Hardwoods		
		All softwood	Yellow pine	Other softwood	All hardwood	Soft hardwood	Hard hardwood
All size classes (million board feet)							
National forest	4,767.3	659.9	452.2	207.6	4,107.4	835.1	3,272.3
Other public	3,164.6	413.8	220.0	193.8	2,750.8	771.8	1,979.1
Forest industry	2,043.6	348.5	18.5	330.0	1,695.1	789.0	906.1
Nonindustrial private	50,407.4	2,916.1	2,182.5	733.6	47,491.3	14,995.8	32,495.5
All classes	60,382.8	4,338.2	2,873.3	1,464.9	56,044.6	17,391.7	38,653.0
Trees ≥ 15 d.b.h. (million board feet)							
National forest	3,410.8	370.2	208.4	161.8	3,040.5	589.3	2,451.2
Other public	2,296.3	258.1	115.1	143.0	2,038.2	585.5	1,452.7
Forest industry	1,659.1	316.2	2.9	313.3	1,342.9	682.5	660.4
Nonindustrial private	31,993.7	1,076.8	772.8	304.0	30,917.0	9,693.3	21,223.6
All classes	39,359.9	2,021.3	1,099.2	922.1	37,338.6	11,550.6	25,788.0

Numbers in rows and columns may not sum to totals due to rounding.

Table 16—Volume of growing stock on timberland by forest-type group, stand origin, and species group, Kentucky, 2004

Forest-type group and stand origin	All species	Softwoods			Hardwoods		
		All softwood	Yellow pine	Other softwood	All hardwood	Soft hardwood	Hard hardwood
<i>million cubic feet</i>							
Softwood types							
White-red-jack pine							
Planted	33.3	31.0	30.9	0.1	2.3	1.4	1.0
Natural	249.3	97.4	20.5	76.9	151.9	60.6	91.3
Total	282.7	128.4	51.5	76.9	154.3	62.0	92.3
Loblolly-shortleaf							
Planted	54.0	50.2	50.1	0.1	3.9	2.4	1.5
Natural	251.2	158.0	154.6	3.4	93.2	36.0	57.2
Total	305.3	208.2	204.7	3.5	97.1	38.4	58.7
Pinyon-juniper ^a	65.5	36.9	6.8	30.0	28.7	8.6	20.1
Total softwoods	653.5	373.4	263.0	110.4	280.1	109.0	171.1
Hardwood types							
Oak-pine							
Planted	19.1	16.7	16.7	—	2.5	2.1	0.4
Natural	1,009.9	348.5	220.5	128.1	661.4	197.0	464.4
Total	1,029.0	365.2	237.1	128.1	663.8	199.1	464.7
Oak-hickory	14,190.0	352.0	261.1	90.9	13,838.0	3,964.1	9,874.0
Oak-gum-cypress	289.2	80.1	—	80.1	209.1	121.3	87.8
Elm-ash-cottonwood	868.0	2.5	0.0	2.5	865.5	532.1	333.5
Maple-beech-birch	1,186.3	9.2	2.2	7.1	1,177.0	428.2	748.8
Total hardwoods	17,562.5	809.0	500.4	308.6	16,753.5	5,244.8	11,508.8
Nonstocked	1.4	—	—	—	1.4	1.2	0.1
All groups	18,217.4	1,182.4	763.4	419.0	17,035.0	5,355.0	11,680.0

— = no sample for the cell; 0.0 = a value of >0.0 but <0.05 for the cell.

Numbers in rows and columns may not sum to totals due to rounding.

Forest-type groups are based on field estimates.

^a Pinyon-juniper includes Eastern redcedar forest type.

Table 17—Average net annual growth of live trees on timberland by survey unit and species group, Kentucky (1988 to 2003)

Survey unit	All species	Softwoods			Hardwoods		
		All softwood	Yellow pine	Other softwood	All hardwood	Soft hardwood	Hard hardwood
<i>million cubic feet</i>							
Eastern	74.9	3.6	2.8	0.8	71.3	30.2	41.1
Northern Cumberland	80.0	2.6	1.7	0.9	77.3	26.3	51.1
Southern Cumberland	100.4	8.9	6.0	2.9	91.5	39.6	51.9
Bluegrass	63.1	7.8	0.0	7.8	55.3	12.9	42.4
Pennyroyal	109.8	8.9	3.9	5.0	100.9	35.1	65.8
Western Coalfield	94.6	6.0	4.0	2.0	88.7	34.1	54.6
Western	42.1	1.9	1.7	0.3	40.2	15.0	25.2
All units	565.0	39.8	20.2	19.6	525.2	193.2	332.0

Numbers in rows and columns may not sum to totals due to rounding.
0.0 = a value of >0.0 but <0.05 for the cell.

Table 18—Average net annual growth of growing stock on timberland by survey unit and species group, Kentucky (1988 to 2003)

Survey unit	All species	Softwoods			Hardwoods		
		All softwood	Yellow pine	Other softwood	All hardwood	Soft hardwood	Hard hardwood
<i>million cubic feet</i>							
Eastern	62.2	3.3	2.5	0.8	58.9	25.2	33.7
Northern Cumberland	70.9	2.2	1.4	0.9	68.7	23.0	45.7
Southern Cumberland	87.8	7.0	4.5	2.5	80.8	34.6	46.2
Bluegrass	43.6	5.4	0.2	5.2	38.2	8.4	29.8
Pennyroyal	93.2	5.1	2.5	2.6	88.1	29.8	58.3
Western Coalfield	75.4	3.1	2.7	0.3	72.4	26.9	45.5
Western	36.8	1.4	1.4	-0.0	35.4	12.7	22.7
All units	470.0	27.5	15.2	12.2	442.5	160.7	281.8

Numbers in rows and columns may not sum to totals due to rounding.

-0.0 = a value of < 0.0 but > -0.5 for the cell.

Table 19—Average net annual growth of sawtimber on timberland by survey unit and species group, Kentucky (1988 to 2003)

Survey unit	All species	Softwoods			Hardwoods		
		All softwood	Yellow pine	Other softwood	All hardwood	Soft hardwood	Hard hardwood
<i>million board feet</i>							
Eastern	290.8	16.3	12.0	4.3	274.5	105.8	168.7
Northern Cumberland	333.5	23.6	20.0	3.7	309.8	104.7	205.1
Southern Cumberland	423.5	54.3	43.2	11.1	369.2	145.4	223.8
Bluegrass	171.2	14.2	0.7	13.5	157.0	36.0	121.0
Pennyroyal	455.9	25.0	17.9	7.2	430.9	145.0	286.0
Western Coalfield	331.6	17.5	15.6	1.9	314.1	112.0	202.1
Western	174.9	5.9	6.5	-0.6	169.0	61.8	107.2
All units	2,181.4	156.8	115.8	41.0	2,024.6	710.6	1,314.0

Numbers in rows and columns may not sum to totals due to rounding.

Table 20—Average annual removals of live trees on timberland by survey unit and species group, Kentucky (1988 to 2003)

Survey unit	All species	Softwoods			Hardwoods		
		All softwood	Yellow pine	Other softwood	All hardwood	Soft hardwood	Hard hardwood
<i>million cubic feet</i>							
Eastern	42.1	1.0	0.4	0.6	41.1	13.9	27.2
Northern Cumberland	49.1	0.7	0.7	—	48.4	12.5	35.9
Southern Cumberland	39.2	5.0	4.8	0.2	34.2	14.4	19.8
Bluegrass	30.8	6.1	0.1	6.0	24.7	9.8	14.9
Pennyroyal	66.9	9.7	7.2	2.4	57.2	17.7	39.5
Western Coalfield	63.2	0.6	0.3	0.3	62.6	17.0	45.6
Western	28.1	0.2	0.0	0.1	28.0	11.0	17.0
All units	319.5	23.3	13.6	9.7	296.3	96.4	199.9

Numbers in rows and columns may not sum to totals due to rounding.
 — = no sample for the cell; 0.0 = a value of >0.0 but <0.05 for the cell.

Table 21—Average annual removals of growing stock on timberland by survey unit and species group, Kentucky (1988 to 2003)

Survey unit	All species	Softwoods			Hardwoods		
		All softwood	Yellow pine	Other softwood	All hardwood	Soft hardwood	Hard hardwood
<i>million cubic feet</i>							
Eastern	40.6	1.0	0.4	0.6	39.6	13.1	26.5
Northern Cumberland	48.6	0.7	0.7	—	47.9	12.3	35.6
Southern Cumberland	38.4	5.0	4.8	0.2	33.4	13.8	19.6
Bluegrass	29.2	5.9	0.1	5.7	23.3	9.4	13.9
Pennyroyal	65.7	9.5	7.2	2.2	56.3	17.1	39.2
Western Coalfield	62.7	0.6	0.3	0.3	62.1	16.7	45.4
Western	26.6	0.2	0.0	0.1	26.5	10.2	16.3
All units	311.8	22.7	13.6	9.1	289.0	92.6	196.4

Numbers in rows and columns may not sum to totals due to rounding.

— = no sample for the cell; 0.0 = a value of >0.0 but <0.05 for the cell.

Table 22—Average annual removals of sawtimber on timberland by survey unit and species group, Kentucky (1988 to 2003)

Survey unit	All species	Softwoods			Hardwoods		
		All softwood	Yellow pine	Other softwood	All hardwood	Soft hardwood	Hard hardwood
<i>million board feet</i>							
Eastern	163.2	4.8	1.9	2.9	158.5	55.2	103.3
Northern Cumberland	181.8	2.8	2.8	—	179.0	52.9	126.1
Southern Cumberland	157.7	16.2	15.5	0.7	141.5	61.3	80.2
Bluegrass	88.7	12.2	0.5	11.7	76.5	35.9	40.6
Pennyroyal	261.8	41.3	34.6	6.7	220.5	74.5	146.0
Western Coalfield	232.1	0.6	—	0.6	231.6	58.5	173.1
Western	80.9	0.5	0.0	0.5	80.4	18.2	62.2
All units	1,166.3	78.3	55.3	23.1	1,088.0	356.5	731.5

Numbers in rows and columns may not sum to totals due to rounding.

— = no sample for the cell; 0.0 = a value of >0.0 but <0.05 for the cell.

Table 23—Average net annual growth and average annual removals of live trees, growing stock, and sawtimber on timberland by species group, Kentucky (1988 to 2003)

Species group	Live trees		Growing stock		Sawtimber	
	Net annual growth	Annual removals	Net annual growth	Annual removals	Net annual growth	Annual removals
	----- million cubic feet -----				million board feet	
Softwood						
Yellow pine	20.2	13.6	15.2	13.6	115.8	55.3
Other softwood	19.6	9.7	12.2	9.1	41.0	23.1
All softwoods	39.8	23.3	27.5	22.7	156.8	78.3
Hardwood						
Soft hardwood	193.2	96.4	160.7	92.6	710.6	356.5
Hard hardwood	332.0	199.9	281.8	196.4	1,314.0	731.5
All hardwoods	525.2	296.3	442.5	289.0	2,024.6	1,088.0
All species	565.0	319.5	470.0	311.8	2,181.4	1,166.3

Numbers in rows and columns may not sum to totals due to rounding.

Table 24—Average annual mortality of live trees, growing stock, and sawtimber on timberland by species group, Kentucky (1988 to 2003)

Species group	Live trees	Growing stock	Sawtimber
	- - - - million cubic feet - - - -		million board feet
Softwood			
Yellow pine	24.3	24.0	67.4
Other softwood	3.2	3.1	4.3
All softwoods	27.5	27.0	71.7
Hardwood			
Soft hardwood	54.6	48.9	109.1
Hard hardwood	122.1	106.7	297.4
All hardwoods	176.6	155.7	406.5
All species	204.1	182.7	478.2

Numbers in rows and columns may not sum to totals due to rounding.

Table 25—Average net annual growth and annual removals of live trees on timberland by ownership class and species group, Kentucky (1988 to 2003)

Ownership class	All species	Softwoods			Hardwoods		
		All softwood	Yellow pine	Other softwood	All hardwood	Soft hardwood	Hard hardwood
Average net annual growth (million cubic feet)							
National forest	27.7	3.4	1.5	1.9	24.3	9.0	15.2
Other public	23.5	1.9	1.0	0.9	21.6	9.2	12.3
Forest industry	10.1	0.9	0.8	0.1	9.2	3.7	5.5
Nonindustrial private	503.7	33.6	16.9	16.7	470.1	171.2	298.9
All classes	565.0	39.8	20.2	19.6	525.2	193.2	332.0
Average annual removals (million cubic feet)							
National forest	4.3	0.2	0.2	—	4.1	1.3	2.8
Other public	3.0	0.0	0.0	—	2.9	0.7	2.3
Forest industry	6.6	0.2	0.2	—	6.4	1.9	4.6
Nonindustrial private	305.6	22.8	13.1	9.7	282.8	92.6	190.2
All classes	319.5	23.3	13.6	9.7	296.3	96.4	199.9

Numbers in rows and columns may not sum to totals due to rounding.

— = no sample for the cell; 0.0 = a value of >0.0 but <0.05 for the cell.

Table 26—Average net annual growth and annual removals of growing stock on timberland by ownership class and species group, Kentucky (1988 to 2003)

Ownership class	All species	Softwoods			Hardwoods		
		All softwood	Yellow pine	Other softwood	All hardwood	Soft hardwood	Hard hardwood
Average net annual growth (million cubic feet)							
National forest	24.4	3.3	1.4	1.8	21.2	7.6	13.5
Other public	18.8	-0.4	-0.6	0.2	19.2	8.0	11.2
Forest industry	9.1	0.6	0.6	—	8.5	3.2	5.3
Nonindustrial private	417.7	24.0	13.8	10.2	393.7	141.9	251.8
All classes	470.0	27.5	15.2	12.2	442.5	160.7	281.8
Average annual removals (million cubic feet)							
National forest	4.3	0.2	0.2	—	4.1	1.3	2.8
Other public	2.8	0.0	0.0	—	2.8	0.6	2.2
Forest industry	6.3	0.2	0.2	—	6.1	1.6	4.5
Nonindustrial private	298.3	22.3	13.1	9.1	276.0	89.2	186.8
All classes	311.8	22.7	13.6	9.1	289.0	92.6	196.4

Numbers in rows and columns may not sum to totals due to rounding.

— = no sample for the cell; 0.0 = a value of >0.0 but <0.05 for the cell.

Table 27—Average net annual growth and annual removals of sawtimber on timberland by ownership class and species group, Kentucky (1988 to 2003)

Ownership class	All species	Softwoods			Hardwoods		
		All softwood	Yellow pine	Other softwood	All hardwood	Soft hardwood	Hard hardwood
Average net annual growth (million board feet)							
National forest	127.4	20.8	12.6	8.2	106.6	34.0	72.6
Other public	99.7	4.4	3.9	0.5	95.3	32.9	62.4
Forest industry	33.1	-0.0	-0.0	—	33.1	6.7	26.4
Nonindustrial private	1,921.3	131.6	99.3	32.3	1,789.6	637.0	1,152.6
All classes	2,181.4	156.8	115.8	41.0	2,024.6	710.6	1,314.0
Average annual removals (million board feet)							
National forest	12.2	—	—	—	12.2	3.0	9.2
Other public	10.1	—	—	—	10.1	1.6	8.5
Forest industry	29.4	1.0	1.0	—	28.4	8.8	19.6
Nonindustrial private	1,114.6	77.3	54.2	23.1	1,037.3	343.1	694.2
All classes	1,166.3	78.3	55.3	23.1	1,088.0	356.5	731.5

Numbers in rows and columns may not sum to totals due to rounding.

— = no sample for the cell; -0.0 = a value of <0.0 but >-0.5 for the cell; 0.0 = a value of >0.0 but <0.05 for the cell.

Table 28—Average net annual growth of growing stock on timberland by forest-type group, stand origin, and species group, Kentucky (1988 to 2003)

Forest-type group ^a and stand origin ^b	All species	Softwoods			Hardwoods		
		All softwood	Yellow pine	Other softwood	All hardwood	Soft hardwood	Hard hardwood
<i>million cubic feet</i>							
Softwood types							
White-red-jack pine							
Planted	—	—	—	—	—	—	—
Natural	2.2	1.7	0.8	0.8	0.5	0.6	-0.1
Total	2.2	1.7	0.8	0.8	0.5	0.6	-0.1
Loblolly-shortleaf pine							
Planted	2.2	1.8	1.8	—	0.4	0.3	0.1
Natural	17.4	9.8	9.2	0.6	7.6	3.7	3.8
Total	19.6	11.6	11.0	0.6	7.9	4.0	3.9
Pinyon-juniper ^c	5.9	3.1	0.3	2.8	2.7	0.6	2.1
Total softwoods	27.7	16.4	12.1	4.2	11.1	5.2	5.9
Hardwood types							
Oak-pine							
Planted	—	—	—	—	—	—	—
Natural	26.6	3.3	0.4	2.9	23.2	10.0	13.2
Total	26.6	3.3	0.4	2.9	23.2	10.0	13.2
Oak-hickory	366.1	7.1	2.6	4.5	358.9	120.7	238.3
Oak-gum-cypress	1.8	0.0	—	0.0	1.8	0.5	1.3
Elm-ash-cottonwood	23.4	0.3	—	0.3	23.1	17.0	6.1
Maple-beech-birch	24.5	0.2	0.1	0.2	24.2	7.3	17.0
Aspen-birch	—	—	—	—	—	—	—
Total hardwoods	442.4	10.9	3.1	7.9	431.2	155.5	275.9
Nonstocked	—	—	—	—	—	—	—
All groups	470.0	27.5	15.2	12.1	442.5	160.7	281.8

Numbers in rows and columns may not sum to totals due to rounding.

— = no sample for the cell; 0.0 = a value of > 0.0 but < 0.05 for the cell.

^a Forest-type groups are based on field estimates. Forest types calculated by an algorithm from the tree tally are not yet available.

^b Classification at the beginning of the remeasurement period.

^c Includes Eastern redcedar forest type.

Table 29—Average annual removals of growing stock on timberland by forest-type group, stand origin, and species group, Kentucky (1988 to 2003)

Forest-type group ^a and stand origin ^b	All species	Softwoods			Hardwoods		
		All softwood	Yellow pine	Other softwood	All hardwood	Soft hardwood	Hard hardwood
<i>million cubic feet</i>							
Softwood types							
White-red-jack pine							
Planted	—	—	—	—	—	—	—
Natural	0.4	0.4	—	0.4	0.1	—	0.1
Total	0.4	0.4	—	0.4	0.1	—	0.1
Loblolly-shortleaf pine							
Planted	0.3	0.3	0.3	—	—	—	—
Natural	11.4	10.3	10.0	0.3	1.1	0.7	0.4
Total	11.7	10.6	10.3	0.3	1.1	0.7	0.4
Pinyon-juniper ^c	2.0	2.0	—	2.0	—	—	—
Total softwoods	14.1	13.0	10.3	2.7	1.2	0.7	0.5
Hardwood types							
Oak-pine							
Planted	—	—	—	—	—	—	—
Natural	9.8	6.1	2.0	4.1	3.6	1.4	2.3
Total	9.8	6.1	2.0	4.1	3.6	1.4	2.3
Oak-hickory	245.9	2.8	1.4	1.5	243.1	72.9	170.1
Oak-gum-cypress	1.7	0.0	—	0.0	1.6	0.2	1.5
Elm-ash-cottonwood	13.1	0.8	—	0.8	12.3	11.0	1.3
Maple-beech-birch	27.2	0.0	—	0.0	27.2	6.4	20.8
Aspen-birch	—	—	—	—	—	—	—
Total hardwoods	297.7	9.8	3.4	6.4	287.9	91.9	196.0
Nonstocked	—	—	—	—	—	—	—
All groups	311.8	22.7	13.7	9.1	289.0	92.6	196.5

Numbers in rows and columns may not sum to totals due to rounding.

— = no sample for the cell; 0.0 = a value of >0.0 but <0.05 for the cell.

^a Forest-type groups are based on field estimates. Forest types calculated by an algorithm from the tree tally are not yet available.

^b Classification at the beginning of the remeasurement period.

^c Includes Eastern redcedar forest type.

Table 30—Area of timberland treated or disturbed annually and retained in timberland by treatment or disturbance and ownership class, Kentucky (1988 to 2003)

Treatment or disturbance ^a	All classes	Ownership class		
		Public	Forest industry	Private
<i>thousand acres</i>				
Final harvest	28.1	1.3	4.1	22.7
Partial harvest ^b	282.0	7.4	11.2	263.4
Seed tree/shelterwood	9.5	0.3	1.2	8.1
Commercial thinning	9.4	0.3	3.7	5.4
Other stand improvement	4.5	2.6	—	2.0
Site preparation	4.1	—	—	4.1
Artificial regeneration ^c	0.3	0.0	0.0	0.3
Natural regeneration ^c	79.1	6.0	5.4	67.8
Other cutting	—	—	—	—
Natural disturbance				
Insects	29.0	7.4	1.4	20.2
Disease	3.1	—	—	3.1
Weather				
Ice	14.8	4.7	—	10.1
Wind	7.3	1.3	—	6.0
Flood	34.1	3.1	3.8	27.2
Drought	—	—	—	—
Weather - other	64.4	14.8	2.9	46.6
Total	120.6	23.8	6.8	90.0
Fire				
Ground	37.3	5.0	1.2	31.1
Crown	—	—	—	—
Fire - other	53.2	7.0	—	46.2
Total	90.5	12.0	1.2	77.3
Animals				
Beaver	5.2	—	1.4	3.8
Porcupine	—	—	—	—
Deer/ungulate	2.3	1.2	—	1.1
Bear	—	—	—	—
Rabbit	—	—	—	—
Animals - other	6.9	0.9	1.0	5.0
Total	14.4	2.1	2.4	9.8
Other disturbances				
Grazing	84.5	—	—	84.5
Other human caused disturbance	101.6	4.5	2.8	94.3
Other natural caused disturbance	8.1	1.0	—	7.2

Since some acres experience more than one treatment or disturbance, there are no column totals.

Numbers in rows and columns may not sum to totals due to rounding.

— = no sample for the cell; 0.0 = a value of >0.0 but <0.05 for the cell.

^a Previous established plots record treatment and disturbance since last inventory. New plots record treatment and disturbance only if occurred within the last 5 years.

^b Includes high-grading and some selective cutting.

^c Includes establishment of trees for timber production on forest and nonforest land.

Table 31—Average annual output of timber products by product, species group, and type of material, Kentucky (1988 to 2003)

Product and species group	Total output	Roundwood products	Plant byproducts
<i>million cubic feet</i>			
Saw logs			
Softwood	5.6	5.6	—
Hardwood	155.0	154.9	0.1
Total	160.6	160.5	0.1
Veneer logs			
Softwood	0.1	0.1	—
Hardwood	5.5	5.5	—
Total	5.5	5.5	—
Pulpwood ^a			
Softwood	2.8	2.4	0.4
Hardwood	49.8	16.6	33.2
Total	52.6	19.0	33.6
Composite panels			
Softwood	0.5	0.5	0.0
Hardwood	5.6	4.2	1.4
Total	6.1	4.7	1.5
Other industrial ^b			
Softwood	4.3	1.9	2.5
Hardwood	40.4	5.0	35.4
Total	44.8	6.9	37.9
Total industrial products			
Softwood	13.4	10.5	2.9
Hardwood	256.3	186.1	70.2
Total	269.7	196.6	73.1
Fuelwood ^c			
Softwood	0.1	0.1	0.0
Hardwood	17.1	16.8	0.3
Total	17.2	16.9	0.3
All products			
Softwood	13.5	10.6	2.9
Hardwood	273.3	202.9	70.4
Total	286.8	213.5	73.4

Numbers in rows and columns may not sum to totals due to rounding.

— = no sample for the cell; 0.0 = a value of > 0.0 but < 0.05 for the cell.

^a Roundwood figures include an estimated 1.43 million cubic feet of roundwood chipped at other primary wood-using plants.

^b Includes liter, mulch, particleboard, charcoal, and other specialty products.

^c Excludes approximately 18.3 million cubic feet of wood residues and 7.3 million cubic feet of bark used for industrial fuel.

Table 32—Average annual output of roundwood products by product, species group, and source of material, Kentucky (1988 to 2003)

Product and species group	All sources	Growing-stock trees ^a			Other sources ^b
		Total	Sawtimber	Poletimber	
<i>million cubic feet</i>					
Saw logs					
Softwood	5.6	5.4	5.3	0.1	0.2
Hardwood	154.9	131.3	126.7	4.6	23.5
Total	160.5	136.7	132.1	4.7	23.7
Veneer logs					
Softwood	0.1	0.1	0.1	0.0	0.0
Hardwood	5.5	5.3	5.1	0.1	0.2
Total	5.5	5.3	5.2	0.1	0.2
Pulpwood					
Softwood	2.4	2.2	1.5	0.7	0.2
Hardwood	16.6	15.5	5.5	9.9	1.2
Total	19.0	17.7	7.0	10.6	1.4
Composite panels					
Softwood	0.5	0.5	0.3	0.1	0.0
Hardwood	4.2	3.9	1.4	2.5	0.2
Total	4.7	4.4	1.7	2.7	0.3
Other industrial					
Softwood	1.9	1.7	1.2	0.5	0.1
Hardwood	5.0	4.8	2.6	2.1	0.2
Total	6.9	6.5	3.9	2.6	0.4
Total industrial products					
Softwood	10.5	9.9	8.4	1.4	0.6
Hardwood	186.1	160.8	141.4	19.3	25.4
Total	196.6	170.6	149.9	20.8	25.9
Fuelwood					
Softwood	0.1	0.1	0.1	0.0	0.0
Hardwood	16.8	15.3	15.1	0.2	1.5
Total	16.9	15.4	15.2	0.2	1.5
All products					
Softwood	10.6	10.0	8.5	1.4	0.6
Hardwood	202.9	176.1	156.6	19.5	26.8
Total	213.5	186.0	165.1	20.9	27.5

Numbers in rows and columns may not sum to totals due to rounding.

— = no sample for the cell; 0.0 = a value of > 0.0 but < 0.05 for the cell.

^a On timberland.

^b Includes trees < 5.0 inches in diameter, tree tops and limbs from timberland, or material from other forestland or nonforestland such as fence rows or suburban areas.

Table 33—Average annual timber removals from growing stock on timberland by item, softwood, and hardwood, Kentucky (1988 to 2003)

Item	All		
	species	Softwood	Hardwood
	<i>million cubic feet</i>		
Roundwood products			
Saw logs	136.7	5.4	131.3
Veneer logs and bolts	5.3	0.1	5.3
Pulpwood	17.7	2.2	15.5
Composite panels	4.4	0.5	3.9
Other	6.5	1.7	4.8
Fuelwood	15.4	0.1	15.3
All products	186.0	10.0	176.1
Logging residues	46.0	1.6	44.4
Other removals	79.7	11.1	68.6
Total removals	311.8	22.7	289.1

Numbers in rows and columns may not sum to totals due to rounding.

Table 34—Volume of timber removals by removals class, species group, and source, Kentucky (1988 to 2003)

Removals class and species group	All sources	Source	
		Growing stock	Nongrowing stock
<i>million board feet</i>			
Roundwood products			
Softwood	10.6	10.0	0.6
Hardwood	202.9	176.1	26.8
Total	213.5	186.0	27.5
Logging residues			
Softwood	4.8	1.6	3.2
Hardwood	106.9	44.4	62.5
Total	111.7	46.0	65.7
Other removals			
Softwood	11.7	11.1	0.6
Hardwood	76.1	68.6	7.5
Total	87.8	79.7	8.1
Total removals			
Softwood	27.1	22.7	4.4
Hardwood	385.9	289.1	96.8
Total	413.0	311.8	101.2

Numbers in rows and columns may not sum to totals due to rounding.

Table 35—Disposal of average annual volume of residue at primary wood-using plants by product, species group, and type of residue, Kentucky (1988 to 2003)

Product and species group	All types	Bark	million cubic feet	
			Coarse ^a	Fine ^b
Fiber products				
Softwood	0.4	—	0.4	0.0
Hardwood	33.2	0.1	32.4	0.7
Total	33.6	0.1	32.8	0.7
Particleboard				
Softwood	0.0	0.0	0.0	0.0
Hardwood	1.4	0.1	1.1	0.3
Total	1.5	0.1	1.1	0.3
Sawn products				
Softwood	—	—	—	—
Hardwood	0.1	—	0.1	—
Total	0.1	—	0.1	—
Industrial fuel				
Softwood	0.6	0.4	0.1	0.1
Hardwood	25.3	6.9	3.1	15.3
Total	25.9	7.3	3.2	15.4
Charcoal				
Softwood	0.2	0.0	0.0	0.1
Hardwood	8.4	0.4	1.7	6.3
Total	8.6	0.4	1.7	6.4
Miscellaneous				
Softwood	2.3	0.5	1.1	0.8
Hardwood	27.0	14.2	3.8	9.0
Total	29.4	14.7	4.9	9.8
Not used				
Softwood	0.4	0.1	0.2	0.2
Hardwood	5.0	1.3	1.7	1.9
Total	5.4	1.4	1.9	2.0
All products				
Softwood	3.9	0.9	1.9	1.2
Hardwood	100.4	23.0	43.9	33.5
Total	104.3	23.9	45.7	34.7

Numbers in rows and columns may not sum to totals due to rounding.

— = no sample for the cell; 0.0 = a value of > 0.0 but < 0.05 for the cell.

^a Material such as slabs and edgings.

^b Material such as sawdust and shavings.