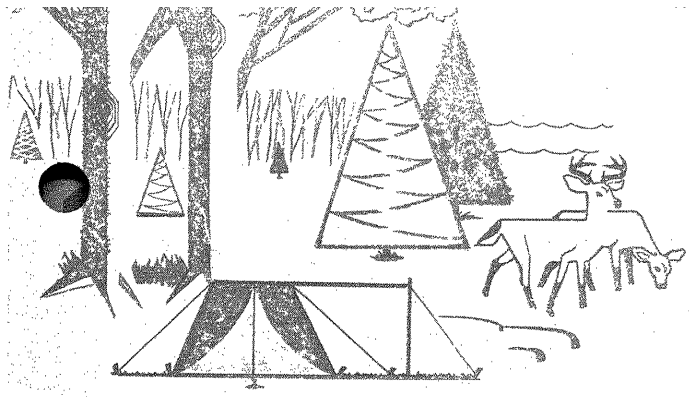

U. S. FOREST SERVICE

RESEARCH NOTE NC-58

REVISED

NORTH CENTRAL FOREST EXPERIMENT STATION, FOREST SERVICE—U.S. DEPARTMENT OF AGRICULTURE

Folwell Avenue, St. Paul, Minnesota 55101

Timber Volume in Indiana, 1967

ABSTRACT.—The recently completed Second Forest Survey of Indiana shows that the State's timber volume has increased by one-fourth in the 17 years since the previous survey. Timber volume by county is presented.

The majority of Indiana's 3.5 billion cubic feet of growing stock[1] and 10.9 billion board feet of sawlog[2] material is in the south-central counties. A 17-county block here, (Knobs Forest Survey Unit) contains half of the growing stock and sawtimber volume in the State (Fig. 1). Timber is economically important in this rugged upland area, which is largely unsuited for agriculture. It provided nearly one-third of the sawlogs cut in Indiana in 1966. The oaks — chiefly white, black, and northern red — make up 46 percent of the growing stock and 52 percent of the sawtimber volume here (Tables 1 and 2).

A 14-county block (Lower Wabash Unit) in southwestern Indiana accounts for one-fifth of the State total timber volume with the oaks again the most prominent. This is a flat-to-rolling area that contains the wide riverbottoms of the Wabash and White Rivers. The poorly-drained upland area in the southeast (Upland Flats Unit) contain 7 percent of the State's timber volume. The remainder of the State (Northern Survey Unit) contains mostly small, scattered tracts occurring as farm woodlots. Despite having less than one-fourth of the State's total timber volume, this unit contributed almost 40 percent of the sawlogs cut in Indiana in 1966.

Indiana's growing stock volume increased about one-fourth between 1950 and 1967. However, this increase was not distributed proportionately across the State. Volume in the southern section increased by 50 percent to 2.7 billion cubic feet. Accumulating timber growth in the younger trees increased the volume in existing stands. In the three southern units the average volume rose from about 600 to 925 cubic feet per acre. An opposite trend was found in the Northern Unit where cubic-foot volume decreased by almost 25 percent to 0.8 billion cubic feet since 1950. Most of the reduction can be attributed to a 20-percent loss in commercial forest land in this area (see Research Note NC-57, "Forest Land in Indiana Counties, 1967").

Growing stock trends are shown in the following tabulation:

Growing Stock	*1950*	*1967*
	Million Cubic Feet	
Three Southern Units	1,783.1	2,733.7
Northern Unit	1,004.6	769.3
Total	2,787.7	3,503.0

The State's sawtimber volume has nearly kept pace with the increase in younger growing stock.[3] Volume in the south rose by almost two-thirds to 8.4 billion board feet while volume in the north was reduced by nearly one-third to 2.5 billion board feet. Sawtimber trends are shown in the following tabulation:

Sawtimber	*1950*	*1967*
	Million Board Feet	
Three Southern Units	5,064	8,394
Northern Unit	3,672	2,491
Total	8,736	10,885

White oak, hickory, black oak, hard maple, and northern red oak are the most abundant species; they make up 52 percent of Indiana's growing-stock volume. Almost all species have increased in growing-stock volume since 1950. The largest percentage increases, were in two bottom-land species — cottonwood and sycamore — which increased by 118 and 97 percent respectively. In total volume, hickory, a species with limited markets, increased the most, from 262 million to 442 million cubic feet. Elm, hit hard by Dutch Elm disease and to a lesser extent phloem necrosis, was reduced from 265 to 96 million cubic feet.

1 *Net volume in cubic feet of sawtimber and pole-timber trees of commercial species from stump to a minimum 4-inch top.*

2 *Net volume in board feet, International ¼-inch rule, of merchantable sawlogs in sawtimber trees.*

3 *The 1950 board-foot volumes have been adjusted to 1967 standards so as to make comparisons between the two years possible.*

Table 1. — *Volume of growing stock*[1] *on commercial forest land by county and species groups,*[2] *Indiana, 1967*
(Million cubic feet)

County	All species	Softwoods	White oak group	Red oak group	Hickory	Hard maple	Soft maple	Beech	Ash	Cottonwood	Yellow poplar	Sycamore	Other Hardwoods
LOWER WABASH UNIT													
Clay	47.5	0.6	5.9	9.0	7.2	2.5	2.9	0.4	2.8	0.5	3.6	2.8	9.3
Daviess	39.0	-	5.0	6.9	6.3	1.8	3.2	0.5	2.4	0.7	2.5	2.1	7.6
Gibson	48.6	0.9	6.0	7.1	6.4	2.8	5.0	0.5	3.2	1.0	3.0	3.1	9.6
Knox	34.2	0.9	4.0	5.5	4.4	1.7	4.5	0.3	2.1	0.9	2.3	1.9	5.7
Martin	113.0	1.0	16.5	23.5	18.0	6.6	5.3	1.3	5.9	0.6	9.4	5.3	19.6
Parke	81.4	0.9	10.9	15.4	12.2	4.1	5.5	0.7	4.8	0.9	6.6	4.0	15.4
Pike	52.3	1.0	6.0	8.2	7.3	2.3	4.1	0.4	3.4	0.9	3.2	3.4	12.1
Posey	43.0	1.7	5.3	6.7	5.9	2.2	2.9	0.5	2.5	1.0	2.8	3.5	8.0
Putnam	69.7	1.8	9.9	13.1	11.2	3.9	4.0	0.8	3.9	0.6	5.5	3.2	11.8
Sullivan	49.8	0.9	5.8	7.6	7.5	2.5	4.3	0.6	3.3	1.0	3.0	2.5	10.8
Vanderburgh	19.5	0.4	2.4	3.3	2.8	1.2	1.5	0.2	1.2	0.4	1.4	1.2	3.5
Vermillion	37.2	2.1	4.4	5.9	5.1	2.0	3.1	0.3	1.8	0.4	2.3	2.4	7.4
Vigo	42.9	1.0	5.0	7.0	6.4	2.2	3.1	0.4	2.8	1.0	2.7	2.6	8.7
Greene	88.1	0.3	12.3	17.7	13.5	4.5	5.5	0.9	5.0	0.7	7.0	3.9	16.8
Total	766.2	13.5	99.4	136.9	114.2	40.3	54.9	7.8	45.1	10.6	55.3	41.9	146.3
KNOBS UNIT													
Brown	144.1	2.3	38.1	33.1	19.4	11.5	1.8	6.8	5.1	0.2	7.9	3.9	14.0
Clark	93.9	4.9	23.8	19.9	12.1	7.4	1.1	3.7	3.6	0.4	4.5	2.9	9.6
Crawford	103.7	2.9	26.7	22.9	14.3	7.5	1.0	4.5	3.6	0.4	5.8	3.8	10.3
DuBois	100.8	2.1	23.3	20.9	13.4	8.5	1.5	4.5	4.1	0.9	5.1	4.4	12.1
Floyd	38.8	1.5	9.8	8.6	5.2	3.1	0.4	1.8	1.3	0.1	2.1	0.9	4.0
Harrison	122.0	4.8	29.3	26.0	16.6	9.3	1.3	5.4	4.4	0.6	6.7	5.0	12.6
Jackson	118.7	2.3	28.3	24.9	14.9	10.4	1.7	5.6	4.6	0.9	6.0	5.4	13.7
Lawrence	111.0	1.3	25.3	22.6	15.2	9.0	1.3	5.7	4.1	1.1	6.7	6.2	12.5
Monroe	132.5	3.1	33.6	29.5	17.6	10.6	1.3	5.3	4.9	0.6	7.5	4.8	13.7
Morgan	88.3	1.5	22.5	18.8	11.5	7.4	1.1	3.1	3.5	0.4	4.7	3.8	10.0
Orange	105.5	3.4	23.5	20.2	13.6	9.4	1.0	5.0	3.7	1.4	5.9	6.9	11.5
Owen	113.0	1.7	29.9	25.2	15.2	8.8	1.3	4.6	4.1	0.4	5.9	4.1	11.8
Perry	146.3	6.3	37.0	31.9	19.4	11.4	1.5	6.3	5.3	0.6	7.7	4.8	14.1
Scott	47.7	0.4	11.7	10.0	6.0	4.2	0.6	2.0	1.8	0.7	2.6	2.9	4.8
Spencer	62.3	0.8	11.9	11.0	8.7	6.4	0.8	3.6	2.6	0.8	3.3	4.0	8.4
Warrick	53.7	0.7	11.1	9.7	7.8	4.6	0.9	2.1	2.2	0.5	2.9	3.3	7.9
Washington	142.5	2.1	35.9	30.6	19.8	12.9	1.7	7.3	5.2	0.5	7.2	4.1	15.2
Total	1,724.8	42.1	421.7	365.8	230.7	142.4	20.3	77.3	64.1	10.5	92.5	71.2	186.2
UPLAND FLATS UNIT													
Dearborn	23.0	-	4.4	3.7	2.2	3.5	1.5	2.2	1.2	-	1.3	0.1	2.9
Fayette	12.7	-	2.3	2.2	1.1	1.9	0.7	1.1	0.7	0.1	0.8	0.1	1.7
Franklin	42.5	0.1	8.3	7.7	4.7	7.1	2.0	3.1	2.4	0.3	2.0	0.4	4.4
Jefferson	42.5	0.1	8.2	8.1	5.5	5.8	2.0	2.6	2.7	-	2.1	0.5	4.9
Jennings	56.6	-	10.8	10.1	7.1	9.2	2.7	4.6	2.7	0.2	2.9	0.5	5.8
Ohio	8.3	-	1.5	1.4	1.0	1.7	0.3	0.6	0.4	-	0.5	0.1	0.8
Ripley	32.4	0.1	5.9	5.8	3.6	4.4	1.7	2.4	2.1	0.2	1.8	0.6	3.8
Switzerland	15.9	0.1	3.0	3.4	1.6	1.4	0.7	1.1	1.0	-	0.9	0.3	2.4
Union	8.8	-	1.5	1.6	0.8	1.1	0.5	0.8	0.5	0.2	0.3	0.2	1.3
Total	242.7	0.4	45.9	44.0	27.6	36.1	12.1	18.5	13.7	1.0	12.6	2.8	28.0
NORTHERN UNIT													
Adams	13.6	-	1.6	2.4	1.1	0.8	0.8	0.2	1.1	1.5	0.4	1.3	2.4
Allen	30.2	0.2	3.6	4.8	2.5	2.0	1.7	0.9	2.6	3.2	0.8	2.3	5.6
Bartholomew	33.4	-	4.2	5.6	2.8	4.0	1.7	1.9	3.3	1.5	0.8	1.6	6.0
Benton	0.8	-	0.1	0.2	-	-	0.1	-	0.1	-	-	0.1	0.2
Blackford	6.3	0.1	0.8	1.1	0.5	0.7	0.3	0.2	0.5	0.7	0.1	0.2	1.1
Boone	6.1	0.3	1.0	1.3	0.7	0.5	0.3	0.1	0.6	-	0.2	0.2	0.9
Carroll	11.8	0.1	1.9	2.2	1.4	0.7	0.5	0.2	1.2	0.2	0.4	0.5	2.5
Cass	17.1	0.1	2.1	3.2	1.5	2.0	0.7	0.8	1.7	0.8	0.4	0.4	3.4
Clinton	6.9	0.1	0.6	1.0	0.5	0.7	0.5	0.2	0.9	0.1	0.2	0.4	1.7
Decatur	21.8	0.2	2.6	3.8	1.6	2.4	1.1	1.3	2.1	1.0	0.5	1.2	4.0
DeKalb	18.7	0.1	1.8	3.1	1.4	1.3	1.1	0.5	1.7	2.4	0.5	1.4	3.4
Delaware	10.4	-	1.1	1.8	0.7	1.5	0.5	0.7	0.8	0.3	0.3	0.4	2.3
Elkhart	18.4	0.1	2.3	3.5	1.5	1.3	1.3	0.6	1.8	1.2	0.4	0.7	3.7
Fountain	25.7	0.3	2.9	4.5	2.4	3.3	1.2	1.2	2.2	1.3	0.6	1.3	4.5
Fulton	14.3	0.1	2.0	2.9	1.3	1.3	0.8	0.6	1.0	1.0	0.4	0.3	2.6
Grant	10.8	-	1.3	2.0	0.9	1.5	0.5	0.8	0.8	0.6	0.4	0.2	1.8
Hamilton	11.2	-	1.7	2.1	1.0	0.8	0.5	0.3	1.0	1.6	0.3	0.3	1.6
Hancock	6.0	-	0.5	0.9	0.5	0.9	0.2	0.2	0.8	0.1	0.2	0.2	1.5
Hendricks	12.3	-	1.5	2.1	1.2	0.7	0.7	0.4	1.3	0.6	0.5	1.1	2.2
Henry	12.1	-	1.6	2.2	1.1	1.5	0.4	0.6	1.0	0.2	0.5	0.3	2.7
Howard	5.9	0.1	0.7	1.0	0.5	0.4	0.3	0.1	0.5	0.7	0.1	0.6	0.9
Huntington	15.9	0.3	2.3	3.0	1.4	1.3	1.0	0.4	1.3	1.1	0.5	0.6	2.7
Jasper	18.3	0.2	2.6	4.1	1.9	1.2	0.7	0.6	1.6	1.0	0.6	0.6	3.2
Jay	18.2	-	1.8	3.3	1.4	2.4	0.9	0.9	1.6	1.5	0.4	0.6	3.4
Johnson	10.5	-	1.3	2.3	0.9	0.9	0.8	0.4	0.8	0.5	0.3	0.4	1.9
Kosciusko	22.4	0.1	2.9	4.0	1.9	2.4	0.8	0.8	2.1	1.1	0.7	1.3	4.3
LaGrange	13.9	0.2	2.2	2.8	1.4	0.9	0.6	0.3	1.2	0.5	0.4	1.1	2.3
Lake	8.5	-	1.5	1.7	0.7	0.3	0.4	0.2	0.7	1.4	0.1	0.3	1.2
LaPorte	21.5	0.1	3.3	4.9	2.1	1.3	0.9	0.5	1.7	1.6	0.8	0.6	3.7
Madison	8.2	0.1	0.5	1.0	0.5	1.6	0.4	0.7	0.8	0.2	0.2	0.4	1.8
Marion	11.1	-	1.3	2.0	0.9	1.3	0.5	0.7	1.2	0.3	0.3	0.4	2.2
Marshall	21.2	0.3	3.2	4.5	2.1	1.7	0.8	0.7	1.8	0.5	0.6	1.3	3.7
Miami	15.3	-	2.2	2.9	1.6	1.6	0.8	0.6	1.3	0.5	0.5	0.7	2.6
Montgomery	18.0	0.3	2.7	4.0	2.0	1.0	0.8	0.5	1.4	0.7	0.9	0.6	3.1
Newton	12.0	-	1.6	2.6	1.2	0.6	0.8	0.2	1.3	0.3	0.3	0.5	2.6
Noble	18.7	0.1	2.7	4.2	1.9	1.4	0.8	0.6	1.4	1.3	0.5	0.4	3.4
Porter	20.9	0.1	2.8	4.0	2.1	1.5	1.2	0.7	2.2	0.6	0.8	0.8	4.1
Pulaski	19.1	-	2.8	3.6	2.0	1.9	0.8	0.6	1.6	0.8	0.7	0.6	3.7
Randolph	12.6	-	1.6	2.6	0.9	1.3	0.7	0.5	1.2	0.8	0.4	0.3	2.3
Rush	10.5	-	1.1	1.4	0.8	1.3	0.6	0.5	1.1	0.8	0.3	0.5	2.1
St. Joseph	18.3	0.1	2.7	3.8	1.6	1.2	1.1	0.6	1.6	1.1	0.5	0.6	3.4
Shelby	8.6	0.1	0.4	1.1	0.7	1.1	0.4	0.4	1.0	0.7	0.2	0.4	2.1
Starke	21.8	0.1	2.8	4.6	1.9	1.6	0.8	0.5	1.6	2.8	0.8	0.6	3.7
Stueben	17.0	0.4	2.0	3.6	1.6	1.4	0.7	0.7	1.2	1.7	0.5	0.4	2.8
Tippecanoe	13.4	0.1	1.8	2.5	1.3	1.4	0.7	0.6	1.1	0.2	0.5	0.4	2.8
Tipton	5.1	-	0.5	1.0	0.4	0.5	0.4	0.2	0.5	0.7	0.1	0.2	0.6
Wabash	17.2	0.2	2.1	3.1	1.6	1.1	1.3	0.5	1.5	1.4	0.6	0.7	3.1
Warren	19.1	-	2.5	3.4	1.9	1.5	1.0	0.7	1.5	1.3	0.7	1.2	3.4
Wayne	16.8	0.1	2.0	3.1	1.4	1.4	0.8	0.6	1.6	0.6	0.6	0.8	3.8
Wells	16.1	-	2.1	2.8	1.5	1.3	1.1	0.6	1.4	1.2	0.4	1.0	2.7
White	9.6	-	2.0	2.4	1.1	0.7	0.4	0.2	0.7	0.1	0.4	0.3	1.3
Whitley	15.7	0.1	2.2	2.9	1.5	1.4	0.8	0.6	1.4	1.0	0.5	0.3	3.0
Total	769.3	4.8	99.4	144.9	69.3	68.8	39.0	28.4	68.4	47.3	23.1	33.9	142.0
STATE TOTAL	3,503.0	60.8	666.4	691.6	441.8	287.6	126.3	132.0	191.3	69.4	183.5	149.8	502.5

See footnotes on page 4.

Table 2. — *Volume of sawtimber[1] on commercial forest land by county and species groups,[2] Indiana, 1967*
(Million board feet)[3]

County	All species	Softwoods	White oak group	Red oak group	Hickory	Hard maple	Soft maple	Beech	Ash	Cottonwood	Yellow poplar	Sycamore	Other Hardwoods
LOWER WABASH UNIT													
Clay	141.0	3.0	19.5	33.8	21.2	5.7	7.2	1.1	6.0	1.9	12.3	9.7	19.6
Daviess	112.4	-	17.5	26.3	18.7	3.8	6.4	1.2	5.1	2.5	8.4	6.7	15.8
Gibson	151.6	5.6	21.8	27.4	18.8	6.7	12.5	1.7	7.2	3.7	10.2	10.1	25.9
Knox	102.1	5.6	13.8	19.7	13.0	4.1	10.1	0.9	3.9	3.4	7.6	6.1	13.9
Martin	335.8	5.8	53.5	88.4	49.2	14.6	14.3	3.7	14.0	2.5	32.0	17.1	40.7
Parke	235.5	5.7	36.0	57.0	32.4	8.7	12.6	2.2	11.3	3.7	23.1	11.9	30.9
Pike	144.0	3.1	19.5	29.6	20.5	5.3	9.5	1.0	7.5	3.3	10.4	11.0	23.3
Posey	137.0	11.3	18.5	26.5	17.2	4.4	7.2	1.4	6.3	3.7	9.6	11.7	19.2
Putnam	212.2	11.4	32.6	48.9	31.5	9.4	10.9	2.1	9.3	2.2	18.6	10.5	24.8
Sullivan	147.0	5.7	20.1	28.6	22.8	5.2	11.9	1.8	6.4	3.6	10.1	8.0	22.8
Vanderburgh	60.0	2.8	8.0	12.2	7.9	3.3	3.8	0.6	2.9	1.6	5.2	3.6	8.1
Vermillion	118.7	14.1	14.9	21.6	14.7	5.0	8.1	1.1	5.0	1.5	7.5	8.6	16.6
Vigo	128.9	5.7	17.1	27.1	19.1	4.6	7.8	1.3	5.9	3.4	9.3	8.3	19.3
Greene	245.3	0.2	39.9	65.1	35.6	9.1	11.9	2.4	11.2	2.9	23.3	11.7	32.0
Total	2,271.5	80.0	332.7	512.2	322.6	89.9	134.2	22.5	102.0	39.9	187.6	135.0	312.9
KNOBS UNIT													
Brown	462.6	3.9	125.8	132.1	51.7	26.8	4.1	25.4	14.1	0.6	27.6	13.9	36.6
Clark	285.3	11.8	73.6	76.8	32.1	16.8	2.6	14.0	8.5	1.1	15.9	8.6	23.5
Crawford	307.1	5.6	81.4	85.8	35.2	16.7	2.4	15.6	8.6	1.8	19.8	10.7	23.5
DuBois	330.2	4.2	76.7	85.4	40.1	20.9	4.0	18.0	11.5	3.7	18.7	14.8	32.2
Floyd	122.9	4.4	31.7	33.8	13.7	7.5	1.0	6.9	3.6	0.4	7.3	3.2	9.4
Harrison	380.8	8.1	95.9	103.0	44.7	21.4	3.1	20.7	12.0	2.6	23.4	15.1	30.8
Jackson	372.1	4.2	91.2	96.0	40.6	24.6	3.9	21.7	12.4	3.6	22.3	17.1	34.5
Lawrence	350.9	2.2	83.2	88.7	41.7	20.9	3.2	20.9	11.1	4.5	23.7	19.9	30.9
Monroe	402.4	4.3	104.9	110.4	45.5	24.1	3.1	19.3	12.5	2.4	27.5	16.3	32.1
Morgan	269.5	3.1	70.2	72.2	29.9	17.5	2.4	11.9	8.4	1.5	16.4	12.8	23.2
Orange	316.4	4.7	73.3	77.1	35.5	21.2	2.4	18.2	9.4	5.8	20.0	21.2	27.6
Owen	347.2	3.6	93.6	96.6	39.2	20.7	2.9	17.1	10.1	1.4	21.0	13.2	27.8
Perry	450.1	11.3	117.6	123.6	50.7	26.7	3.8	23.7	14.0	2.4	26.9	15.0	34.4
Scott	154.2	0.9	38.4	39.8	16.6	9.6	1.2	7.9	4.8	3.0	9.5	10.0	12.5
Spencer	203.2	3.0	39.1	43.8	27.3	15.6	1.9	14.0	7.7	3.2	12.1	13.2	22.3
Warrick	163.0	1.0	34.7	36.5	22.8	11.1	1.7	8.4	4.7	2.3	10.6	11.1	18.1
Washington	465.2	4.6	119.4	123.5	56.1	31.2	4.4	28.0	14.7	1.9	26.2	15.0	40.2
Total	5,383.1	80.9	1,350.7	1,425.1	623.4	333.3	48.1	291.7	168.1	42.2	328.9	231.1	459.6
UPLAND FLATS UNIT													
Dearborn	73.4	-	16.4	13.9	6.6	8.5	5.4	7.5	2.9	-	5.6	0.2	6.4
Fayette	40.1	-	8.5	8.3	3.4	4.6	2.5	3.8	1.3	0.5	3.4	0.3	3.5
Franklin	131.8	-	29.2	27.2	13.3	18.0	6.4	10.6	5.9	0.9	8.5	1.1	10.7
Jefferson	126.2	0.1	27.7	27.5	16.2	13.6	5.5	9.0	6.5	0.1	8.5	0.9	10.6
Jennings	175.5	-	37.2	36.2	21.8	22.5	8.5	15.5	6.8	0.5	11.6	0.9	14.0
Ohio	24.6	-	4.9	5.1	2.7	4.2	1.0	2.3	0.9	-	1.8	-	1.7
Ripley	98.2	-	20.6	20.2	10.3	10.6	5.0	8.0	4.8	0.8	7.4	1.4	9.1
Switzerland	42.9	-	9.8	11.1	3.7	2.6	1.9	4.0	1.6	-	3.9	0.6	3.7
Union	27.4	-	5.5	5.4	2.7	2.8	1.6	2.5	1.2	0.7	1.6	0.6	2.8
Total	740.1	0.1	159.8	154.9	80.7	87.4	37.8	63.2	31.9	3.5	52.3	6.0	62.5
NORTHERN UNIT													
Adams	45.0	-	5.9	9.0	3.0	2.7	1.8	.9	3.2	8.3	1.4	5.7	5.1
Allen	97.4	0.5	12.5	17.7	6.3	6.9	4.7	3.7	6.9	13.1	3.0	9.5	12.6
Bartholomew	114.3	-	16.2	21.5	7.0	14.6	5.0	7.6	8.9	7.2	2.9	6.9	16.5
Benton	1.7	-	0.2	0.7	0.1	0.1	0.3	-	0.1	-	0.1	0.1	-
Blackford	21.5	0.2	2.9	4.5	1.5	2.2	0.7	0.9	1.5	2.9	0.4	0.5	3.3
Boone	18.7	-	3.7	4.9	1.6	1.8	0.8	0.5	1.5	0.1	0.6	0.6	2.6
Carroll	35.4	0.3	7.1	8.3	3.2	2.1	1.5	1.0	2.3	0.2	1.5	1.9	6.0
Cass	56.1	0.3	7.9	12.4	3.7	7.1	2.2	3.2	4.6	2.7	1.5	1.3	9.2
Clinton	22.6	0.2	2.1	3.8	1.2	2.7	1.5	0.8	2.6	0.5	0.6	1.5	5.1
Decatur	71.7	0.3	9.7	14.1	4.1	8.7	3.3	5.1	5.6	4.3	1.8	4.8	9.9
DeKalb	60.8	0.2	5.8	11.3	3.6	4.8	3.0	2.0	4.5	9.7	1.9	5.9	8.1
Delaware	34.0	-	4.3	6.4	1.8	5.7	1.1	3.0	2.5	0.8	1.1	1.6	5.7
Elkhart	60.6	0.2	8.4	13.0	3.6	4.4	3.7	2.6	5.3	5.5	1.6	2.6	9.7
Fountain	84.4	0.5	10.3	15.6	5.8	13.0	3.6	5.1	6.3	5.6	2.1	5.2	11.3
Fulton	47.4	0.3	7.6	11.2	3.5	3.9	2.3	2.3	2.8	4.5	1.6	1.2	6.2
Grant	36.3	-	4.7	7.5	2.3	5.5	1.3	2.9	2.6	2.7	1.1	0.8	4.9
Hamilton	38.4	-	6.4	8.1	2.9	2.9	1.6	1.3	2.7	6.6	0.9	1.2	3.8
Hancock	20.4	0.2	1.8	3.4	1.4	3.5	0.5	0.6	2.4	0.6	0.6	1.0	4.4
Hendricks	38.2	-	5.6	7.6	2.8	1.7	2.2	1.7	2.8	2.3	1.8	4.3	5.4
Henry	38.6	0.2	6.0	8.4	3.1	4.9	1.1	2.3	2.7	0.2	1.6	1.1	7.0
Howard	18.6	-	2.1	3.6	1.0	1.3	1.1	0.4	1.5	2.7	0.4	2.6	1.9
Huntington	50.1	0.2	8.7	10.7	3.4	4.4	2.5	1.7	3.6	4.5	1.8	2.3	6.3
Jasper	55.7	0.2	9.5	14.8	4.3	3.5	2.3	2.3	3.6	4.1	2.2	1.9	7.0
Jay	63.0	-	6.6	12.4	3.8	9.3	2.5	3.6	5.2	6.6	1.4	2.6	9.0
Johnson	35.4	-	4.9	8.5	2.5	3.1	2.1	1.7	2.5	2.2	1.2	1.5	5.2
Kosciusko	74.0	0.2	10.7	14.8	4.6	8.6	2.5	3.2	5.8	4.4	2.5	5.3	11.4
LaGrange	45.2	0.2	8.0	10.2	3.6	3.2	1.8	1.4	3.0	1.9	1.5	4.5	5.9
Lake	29.4	-	5.9	7.0	2.3	1.0	0.9	0.7	1.4	6.0	0.5	1.1	2.6
LaPorte	67.8	-	12.2	18.9	5.0	4.1	2.5	2.0	3.7	6.5	2.7	1.9	8.3
Madison	27.8	0.4	1.5	3.9	1.2	6.5	1.0	2.8	2.8	1.0	0.7	1.4	4.6
Marion	36.8	0.1	4.8	7.8	2.4	4.1	1.7	2.6	3.3	1.5	1.1	1.4	6.0
Marshall	71.0	0.2	11.5	17.0	5.7	6.1	2.8	3.0	5.0	2.4	2.1	5.2	10.0
Miami	49.5	-	7.9	10.8	3.8	5.6	2.3	2.5	3.8	2.2	1.7	3.1	5.8
Montgomery	52.6	-	9.6	14.0	4.6	3.2	2.2	1.8	3.3	2.1	2.9	1.8	7.1
Newton	36.1	-	6.0	9.2	2.7	2.0	1.8	0.7	3.3	1.1	1.3	2.1	5.9
Noble	58.9	0.1	10.2	14.9	4.8	5.0	2.3	2.7	3.8	5.3	1.9	1.1	6.8
Porter	64.0	-	10.6	14.8	5.4	4.5	3.4	2.7	4.9	2.1	2.7	2.4	10.5
Pulaski	59.3	-	10.3	12.6	4.6	7.1	2.2	2.2	4.5	2.6	2.4	2.6	8.2
Randolph	42.2	-	6.1	10.3	2.7	5.0	2.0	2.2	3.1	3.3	1.3	1.3	4.9
Rush	35.7	-	4.4	5.3	2.2	4.9	1.7	1.8	3.0	3.4	1.0	1.9	6.1
St. Joseph	58.0	0.2	9.9	13.7	4.1	3.6	3.1	2.2	4.6	4.2	1.9	2.5	8.0
Shelby	28.5	0.5	1.5	4.0	1.7	4.0	1.2	1.5	3.1	3.0	0.6	1.3	6.1
Starke	68.4	0.1	9.5	16.1	4.8	5.7	2.3	2.2	3.9	11.3	2.7	1.6	8.2
Steuben	54.1	0.4	6.9	13.2	4.2	4.8	2.1	2.8	3.5	7.3	1.7	1.1	6.1
Tippecanoe	40.4	0.2	6.8	8.7	3.1	4.6	2.0	2.2	2.8	0.4	1.7	1.3	6.6
Tipton	17.3	-	1.9	3.6	1.2	1.9	1.3	0.7	1.1	2.7	0.3	0.9	1.7
Wabash	56.0	0.2	7.6	11.3	3.9	3.8	3.1	2.0	4.4	6.1	2.1	3.2	8.3
Warren	62.0	0.1	8.9	12.7	4.7	5.2	2.7	2.8	3.8	5.4	2.7	5.4	7.6
Wayne	53.0	0.2	7.6	11.9	3.6	4.6	1.8	2.3	4.3	2.3	2.1	2.9	9.4
Wells	54.4	-	7.6	10.7	3.9	4.3	3.5	2.4	3.9	5.0	1.7	4.8	6.6
White	31.2	-	7.4	9.3	3.0	2.3	0.9	0.6	1.7	0.2	1.4	0.9	3.5
Whitley	50.8	-	8.2	11.3	3.6	4.4	2.6	2.3	3.9	4.0	1.7	1.2	7.6
Total	2,490.7	6.9	364.4	537.4	174.9	240.9	110.4	113.5	183.9	193.6	82.0	132.8	350.0
STATE TOTAL	10,885.4	167.9	2,207.6	2,629.6	1,201.6	751.5	330.5	490.9	485.9	279.2	650.8	504.9	1,185.0

See footnotes on page 4.

White oak, black oak, hickory, northern red oak, and hard maple are the most abundant sawtimber-size trees in Indiana, comprising over half the total board-foot volume. All these species increased in volume since the last survey in 1950.

The sampling error for the State's growing-stock volume of 3.5 billion cubic feet is ± 3.1 percent at one standard error (the 67-percent confidence limit). Sampling error increases as volume decreases; for 20 million cubic feet the probable error would be within ± 40.8 percent (± 8 million cubic feet).

These volume statistics are from the Second Forest Survey of Indiana made between September 1966 and June 1967 by the North Central Forest Experiment Station and the Indiana Department of Natural Resources, Division of Forestry.

ARNOLD J. OSTROM
Associate Mensurationist

1968
Revised 1969

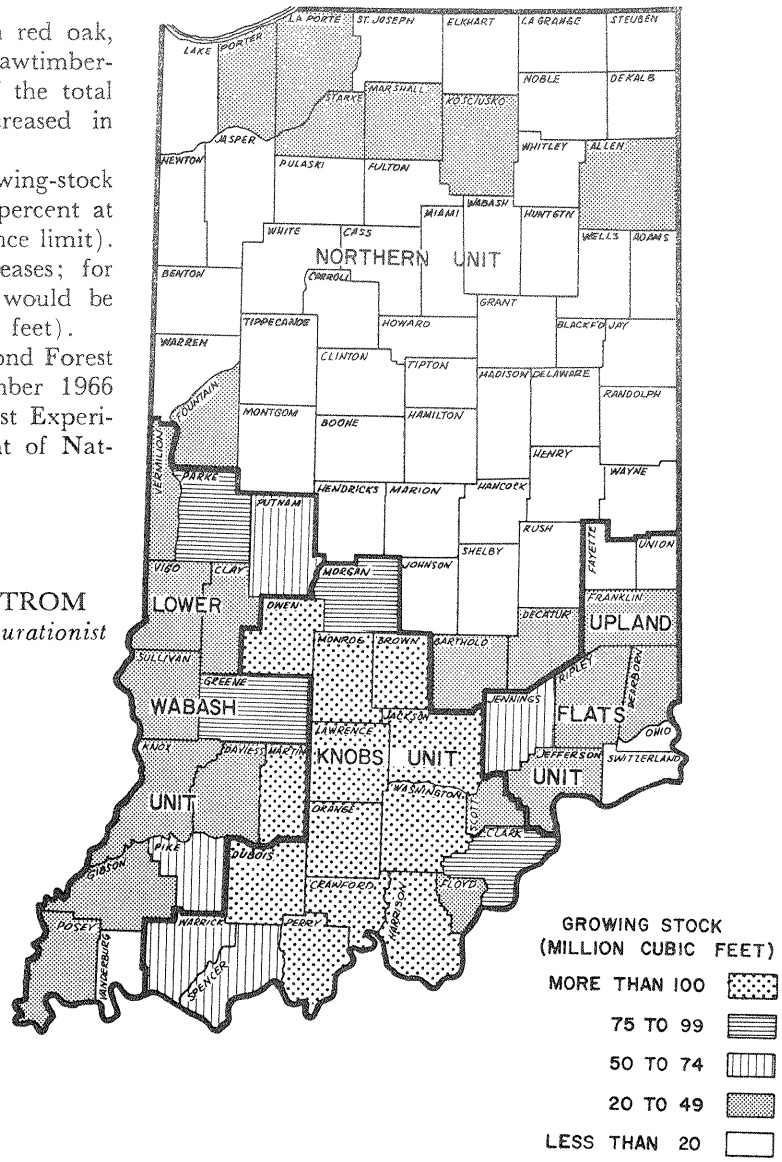

Figure 1. — Growing stock volume in Indiana counties, 1967.

FOOTNOTES: Table 1.

1 *Net volume of live merchantable sawtimber and poletimber trees from the stump to a variable 4-inch top diameter outside bark of the central stem. Does not include limbs or cull tree volume.*

2 *Species: Softwoods — Primarily eastern redcedar, tamarack, jack pine, shortleaf pine, red pine, white pine, Scotch pine, Virginia pine, and baldcypress. White oak group — white oak, swamp white oak, bur oak, swamp chestnut oak, chinkapin oak, chestnut oak, and post oak. Red oak group — northern red oak, cherrybark oak, Shumard oak, black oak, scarlet oak, southern red oak, shingle oak, and pin oak. Other hardwoods — primarily sweetgum, blackgum, aspen, basswood, black walnut, black cherry, and elm.*

FOOTNOTES: Table 2.

1 *Net volume of live merchantable sawtimber trees (softwoods 9.0 inches d.b.h. or larger and hardwoods 11.0 inches d.b.h. and larger) from the stump to a point in the central stem at which utilization for sawn products is limited by large branches, forks, or other defects, or by a diameter outside bark of 7.0 inches for softwoods and 9.0 inches for hardwoods.*

2 *See footnote 2 for table 1.*

3 *International ¼-inch rule.*