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Utah Timber Production and Mill Residue, 1992

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Research Summary

Utah's timber production in 1992 was 13.3 million cubic feet (63.7 million board feet, Scribner rule), up 9 percent from 1974. Sawlog production was 10.2 million cubic feet (52.5 million board feet). House log volume was 1.6 million cubic feet (8.2 million board feet). Lodgepole pine comprised 48 percent, Uintah County 29 percent, and National Forest lands 78 percent of the harvest. Mill residue volume was 7 million cubic feet, 82 percent of which was used, most for fencing, firewood, animal bedding, or industrial plant fuel.

Acknowledgments

We appreciate the cooperation of the owners and operators of Utah's primary wood using industries in supplying data for this report.

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Introduction

This bulletin reports the 1992 estimated timber production and mill residue in Utah, which coincides with the State's most recent forest inventory.

The Bureau of Business and Economic Research at the University of Montana (Missoula) canvassed primary wood processing plants to collect the data for this bulletin (tables 1 through 19; and table 21, 22). Resident mills and nonlocal mills (outside Utah) that consumed industrial roundwood originating in Utah were contacted. Mill operators were asked to supply information about the timber they received during 1992. This information included the volume, species, product type, ownership and county of origin of timber, and an estimate of mill residue volume by type.

Table 22 contains the factors used to convert log volumes reported by mills in board feet, Scribner rule, and other units of measure into the standard Forest Survey units of measure, cubic feet and board feet, International $\frac{1}{4}$ inch rule.

Timber Production

In 1992, Utah's timber production, which does not include fuelwood, was 13.3 million cubic feet, up almost 9 percent from 1974's 12.2 million cubic feet, and 4 percent from 1969's 12.8 million cubic feet, but down almost 5 percent compared to 1966 (fig. 1). Sawlogs, which include mine timbers, continued to be the dominant product (tables 1 through 9), accounting for 76 percent of the volume of all industrial roundwood harvested. The 1992 sawlog harvest volume represents a 7 percent decrease compared to the 1974 level, and an 11 and 16 percent decrease compared to levels of 1969 and 1966, respectively (fig. 1). The reported volume of house logs was 1.6 million cubic feet, of which 1.3 million cubic feet were salvable dead lodgepole pine (*Pinus contorta*). Production of fiberwood logs used for excelsior was 582,000 cubic feet, and posts and poles were 975,000 cubic feet. Lodgepole

pine made up 48 percent of the harvest (tables 1 to 3; 10 to 12; 16 to 18; fig. 2), followed by Engelmann and blue spruce (*Picea engelmannii* and *Picea pungens*) at 33 percent. The remainder of the harvest comprised ponderosa pine (*Pinus ponderosa*), aspen (*Populus tremuloides*), true firs (*Abies lasiocarpa* and *Abies concolor*), and Douglas-fir (*Pseudotsuga menziesii*).

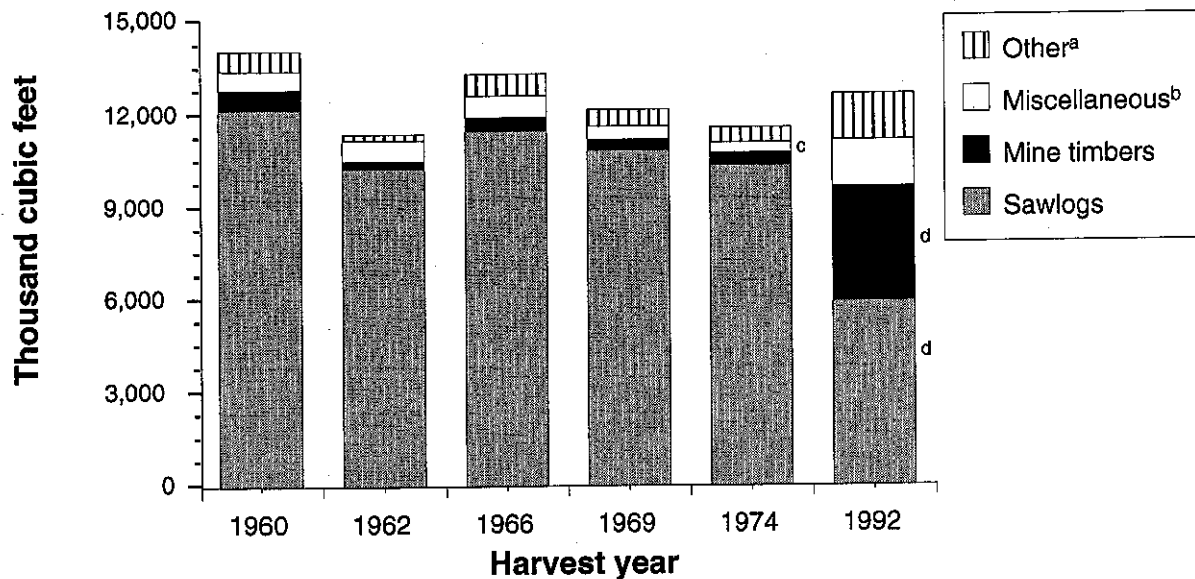
Uintah County provided 29 percent of Utah's harvest, followed by Summit County (14 percent), and Garfield County (10 percent) (tables 7 to 15; fig. 3). With some exceptions, the harvest volumes fluctuated greatly among the counties over the years (table 23).

An estimated 78 percent of the timber products harvested in 1992 were from National Forest lands (tables 4 to 6 and 13 to 18 and fig. 4). Private lands, including Tribal lands, provided 17 percent of the harvest, while other public lands contributed 5 percent. Forty-two percent of the Utah timber harvest (5,646,000 cubic feet) was delivered to 3 mills that received 5 million board feet (Scribner rule) or more of timber products in 1992 (table 19). Just under 3 percent of the harvest (371,000 cubic feet) was delivered to 18 mills, each of which received less than 500,000 board feet (Scribner rule) of timber products.

Harvest Composition and Removals

The following information is provided for use in analyzing the effects of the timber harvest on the timber inventory.

Live trees provided 66 percent (8.8 million cubic feet) of timber production; the remainder came from salvable dead timber (table 20). Of the 4.6 million cubic feet of timber products from dead trees, 3.6 million cubic feet (79 percent) were lodgepole pine, while 18 percent were spruce. Ninety-four percent of the dead timber was harvested from National Forest lands. Of the 8.8 million cubic feet of live timber harvested, 3.6 million cubic feet (41 percent) were spruce, followed by lodgepole pine at 2.8 million cubic



- ^aOther
 1960—Converter poles, fuelwood, farm timbers
 1962—Posts, fuelwood, farm timbers
 1966—Posts, commercial poles, fuelwood, farm timbers
 1969—Posts, fuelwood, farm timbers
 1974—Posts, fuelwood, farm timbers
 1992—Posts, small poles, small roundwood for furniture parts, excelsior
- ^bMiscellaneous
 1960—Excelsior
 1962—Charcoal wood, commercial poles, converter poles, excelsior bolts
 1966—Converter poles, excelsior bolts
 1969—Commercial poles, excelsior bolts
 1974—Excelsior bolts
 1992—House logs

^cIn 1974, commercial poles were combined with mine timbers to prevent disclosure of a specific manufacturer.
^dIn 1992, mine timbers and cribbage were reported as sawlogs. The 1992 mine timbers and cribbage volumes were estimated, as was the sawlog volume.

Figure 1—Timber production by product category for selected years, Utah (Keegan and others 1995; Setzer 1971; Setzer and Wilson 1970; Spencer 1964; Wilson 1962).

feet (32 percent). Growing-stock removals associated with the timber harvest were 9.2 million cubic feet, of which 8.7 million cubic feet went into timber production and 0.5 million cubic feet were logging residue, growing-stock volume left in the woods as part of the slash.

The 13.3 million cubic feet of timber production comprised the following:

- 8.7 million cubic feet of growing-stock volume
- 4.6 million cubic feet from salvable dead
- (less than 0.1 million cubic feet) from cull trees, tops, and stumps of growing-stock trees
- 13.3 total

Sawtimber removals were 41.6 million board feet, Scribner rule; 41 million board feet went into products and 0.6 million board feet were logging residue. The 63.7 million board feet, Scribner rule, of timber production comprised the following:

- 41.0 million board feet of sawtimber volume
- 19.6 million board feet from salvable dead
- 3.1 million board feet from cull trees, tops, stumps, and poletimber
- 63.7 total

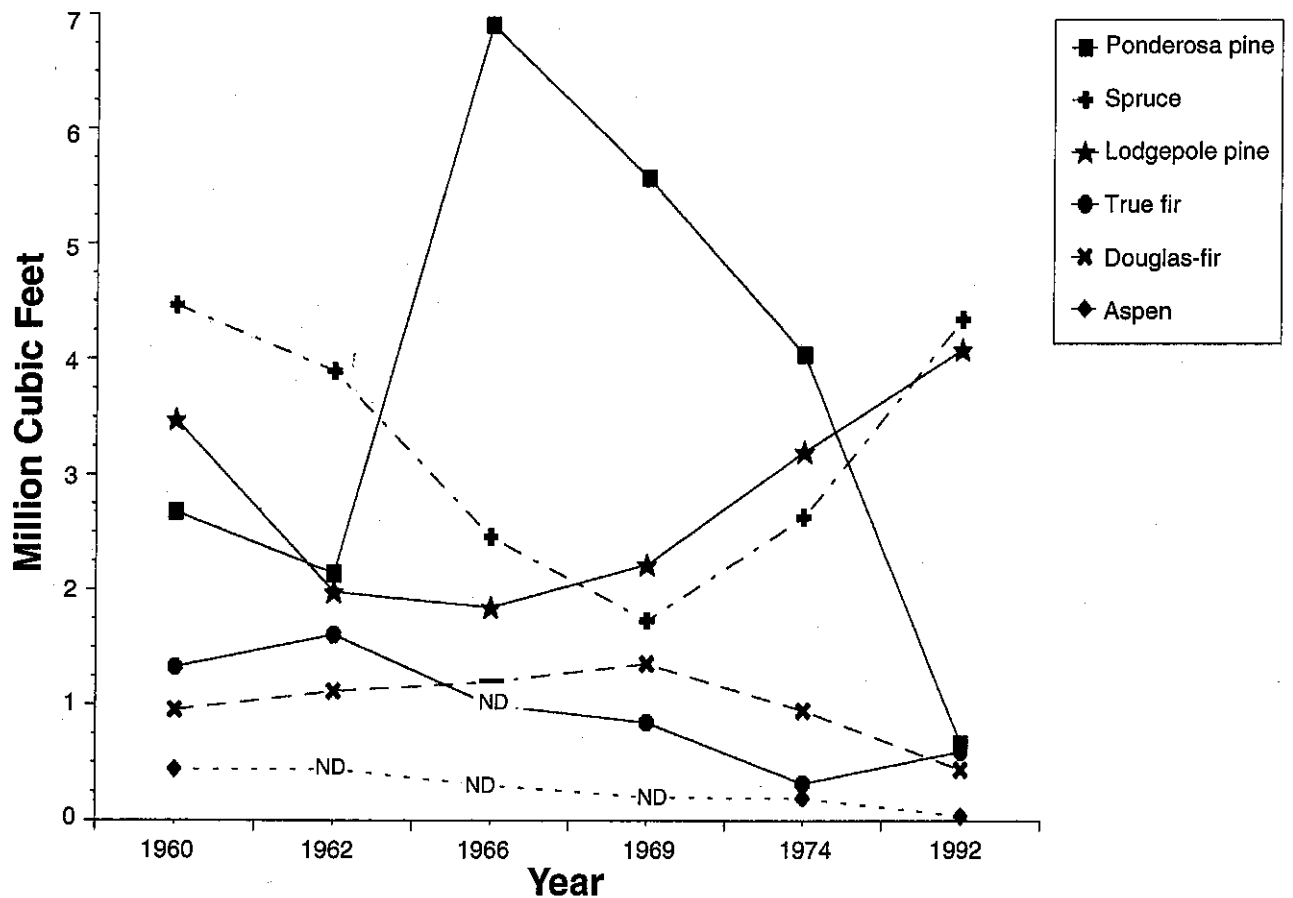


Figure 2—Utah sawlog and round mine timber production by timber species for selected years (Keegan and others 1995; Setzer 1971; Setzer and Wilson 1970; Spencer 1962; Wilson 1962). ND = no data.

In International ¼ inch rule, sawtimber removals were 48.3 million board feet; 47.5 million board feet went into products and 0.8 million board feet were logging residue, sawtimber volume left in the woods as part of the slash. The 74.6 million board feet of timber production comprised the following:

- 47.5 million board feet of sawtimber volume
- 23.0 million board feet from salvable dead
- 4.1 million board feet from cull trees, tops, stumps, and poletimber
- 74.6 total

Mill Residue

An estimated 7 million cubic feet of mill residue were produced in 1992 (table 21). Eighty-two percent of this residue was used, most as fencing, firewood, animal bedding, or hog fuel.

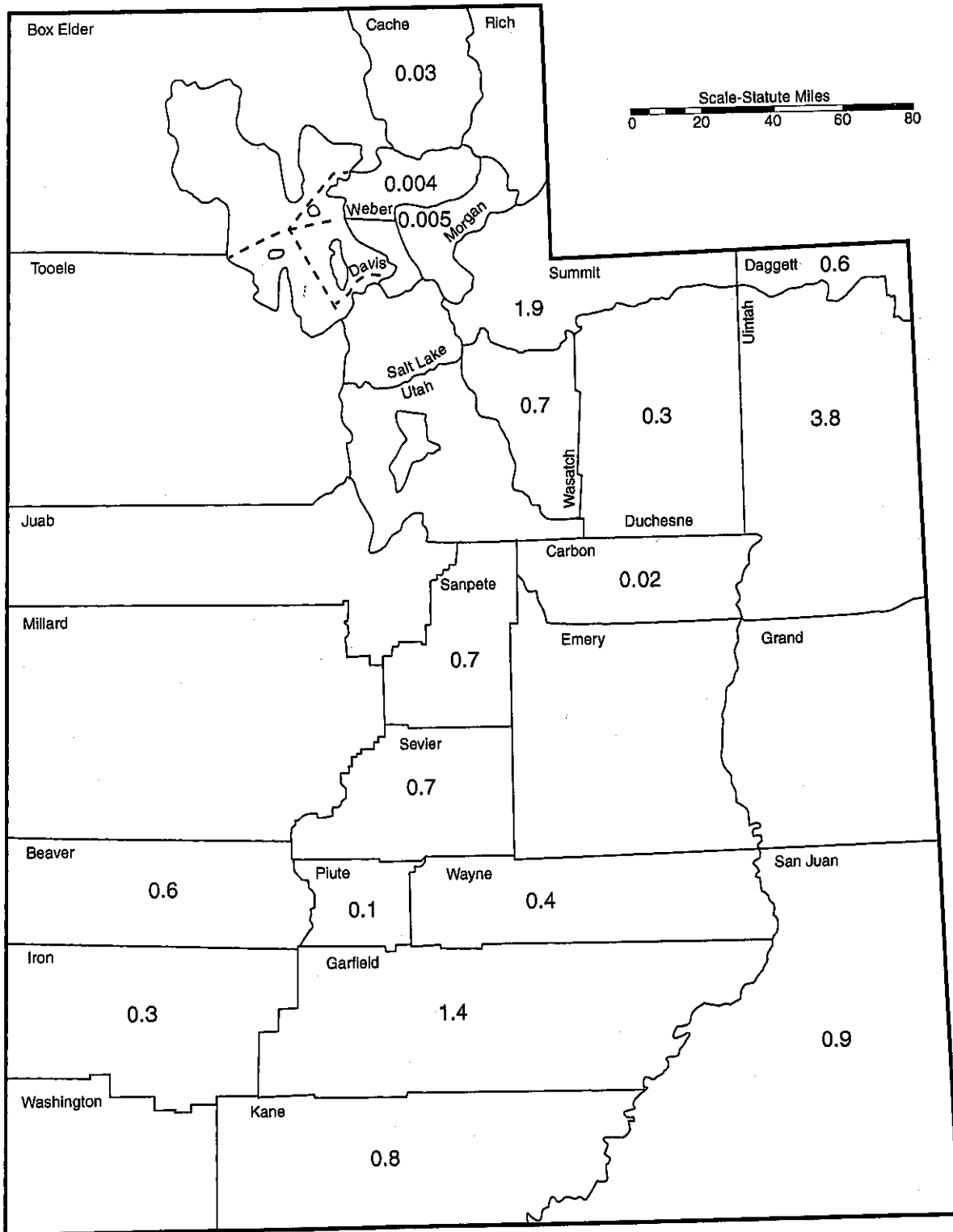
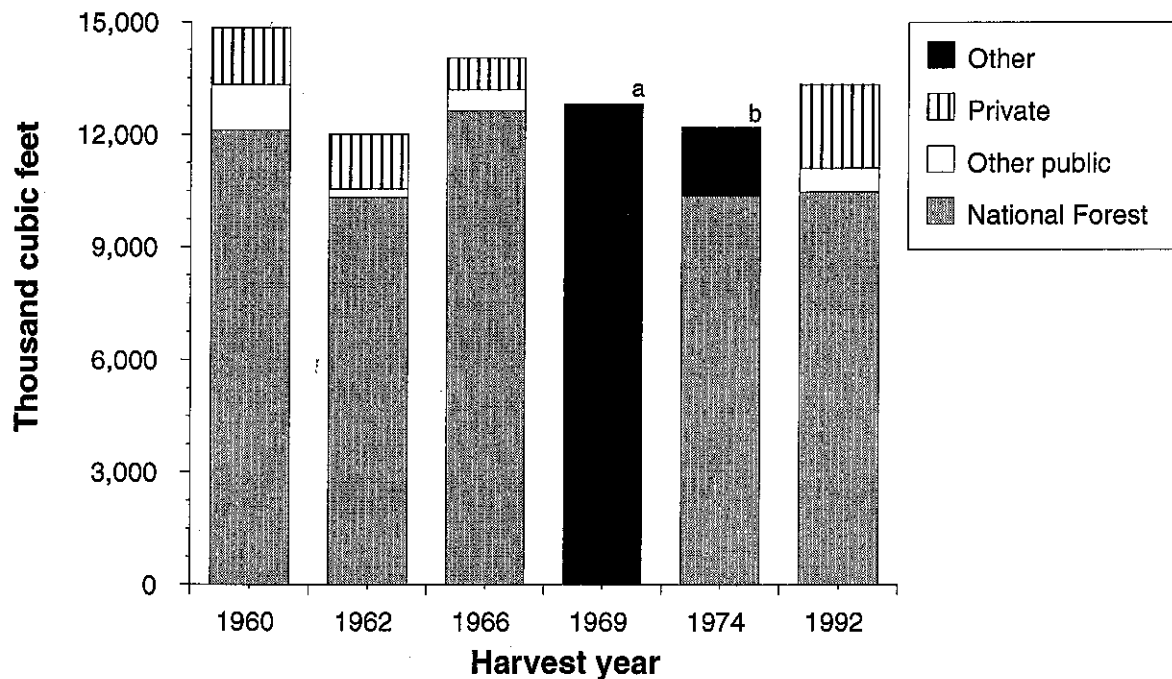


Figure 3—Timber production by county in million cubic feet, Utah, 1992.



^a1969 volume is for all owners. Harvest volume by owner category is unavailable.
^b1974 volume for private and other public is combined.

Figure 4—Timber production by owner category for selected years, Utah (Setzer 1971; Setzer and Wilson 1970; Spencer 1961; Wilson 1962).

Terminology

Bone dry unit—A quantity of wood residue that would weigh 2,400 pounds at 0 percent moisture content.

Coarse residue—That part of sawmill or mill residue suitable for chipping, such as slabs, edgings, trimmings, peeler cores, and pieces of veneer not suitable for making plywood.

Fine residue—That part of sawmill or mill residue finer than coarse residue, consisting of sawdust, shavings, and sander dust.

Growing-stock removals (in this publication)—The growing-stock volume removed from inventory by harvesting. Consists of logging residue and the growing-stock volume of products.

Growing-stock trees (in this publication)—Sawtimber trees and poletimber trees. These are live trees of timber species that meet specified standards of size, quality, and vigor; excludes cull trees, nontimber tree species, and dead trees. See sawtimber trees and poletimber trees.

Growing-stock volume—Net cubic-foot volume in growing-stock trees (poletimber and sawtimber) from a 1 foot stump to a minimum 4 inch top (of central stem) diameter outside bark (d.o.b.) or to the point where the central stem breaks into limbs.

Industrial wood products—All timber products except fuelwood.

Logging residue—The unused growing-stock or sawtimber volume of trees cut or killed by logging and left in the woods as part of the slash.

Noninventory product volume—The cubic volume of timber products that came from the upper stems (beyond the 4 inch top d.o.b.) or below the 1 foot high stumps of growing-stock product trees; the board-foot volume in timber products that came from poletimber trees, and from the upper stems (beyond the 7 inch or 9 inch top d.o.b.) and below the 1 foot high stumps of sawtimber trees; the product volume from cull trees.

Mill residue—Wood material from primary manufacturing plants not utilized for the mill's primary

product. Includes bark, slabs, edgings, trimmings, miscuts, sawdust, and shavings.

Poletimber trees—Live trees of timber species, at least 5 inches diameter at breast height (d.b.h.) but smaller than sawtimber size, containing at least one 8 foot bolt, and more than one-third sound.

Removals (in this publication)—The growing-stock and sawtimber volume removed from the inventory by harvesting. Consists of logging residue and the growing-stock and sawtimber volume of products.

Sawlog portion—That part of the bole of sawtimber trees between a 1 foot stump and the sawlog top.

Sawlog top—The portion on the bole of sawtimber trees above which a sawlog cannot be produced. The minimum sawlog top is 7 inches diameter outside bark (d.o.b.) for softwoods and 9 inches d.o.b. for hardwoods.

Sawtimber product volume—The sawtimber volume in timber products.

Sawtimber removals (in this publication)—The sawtimber volume removed from inventory by harvesting. Consists of logging residue and the sawtimber volume of products.

Sawtimber trees—Live trees of timber species meeting regional size and defect specifications. Softwood trees must be at least 9 inches d.b.h. and hardwood trees at least 11 inches d.b.h.

Sawtimber volume—Net volume in board feet of the sawlog portion of live sawtimber trees.

Timber production—The harvested volume of timber products. Also called industrial roundwood production or industrial wood production. Timber products

or industrial roundwood (products) refer to logs, bolts, or other round sections cut from trees for industrial or consumer use and delivered "in the round" as logs or bolts to sawmills, plants, or yards. In this report, the term "timber products" does not include fuelwood. Included are sawlogs, veneer logs, pulpwood, utility poles, corral poles and posts, house logs, and fiber logs. Mine timbers and landscaping timbers would have been included if they had been reported as harvested.

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Table 1—Cubic volume of timber products harvested by species and product, Utah, 1992.

Species	Product				All products ^a	Percent
	Sawlogs	Fiberwood	Posts and poles	House logs		
----- <i>Thousand cubic feet</i> -----						
True fir	598	—	—	—	598	4.5
Engelmann spruce	4,345	—	62	60	4,467	33.5
Lodgepole pine	4,087	—	913	1,462	6,462	48.5
Ponderosa pine	665	—	—	21	686	5.2
Douglas-fir	439	—	—	45	484	3.6
Aspen	40	582	—	—	622	4.7
All species ^a	10,174	582	975	1,588	13,319	100.0
Percent of total	76.4	4.4	7.3	11.9	100.0	

^aData may not sum to totals due to rounding or truncating.

Table 2—Board-foot (Scribner rule) volume of timber products harvested by species and product, Utah, 1992.

Species	Product			All products ^a
	Sawlogs	Fiberwood	House logs	
----- <i>Thousand board feet</i> -----				
True fir	3,087	—	—	3,087
Engelmann spruce	22,427	—	319	22,746
Lodgepole pine	21,107	—	7,542	28,649
Pinyon	2	—	—	2
Ponderosa pine	3,419	—	109	3,528
Douglas-fir	2,266	—	219	2,485
Aspen	22	3,000	—	3,202
All species ^a	52,510	3,000	8,189	63,699

^aData may not sum to totals due to rounding or truncating.

Table 3—Board-foot (International 1/4 inch rule) volume of timber products harvested by species and product, Utah, 1992.

Species	Product			All products ^a
	Sawlogs	Fiberwood	House logs	
----- <i>Thousand board feet</i> -----				
True fir	3,615	—	—	3,615
Engelmann spruce	26,262	—	374	26,636
Lodgepole pine	24,716	—	8,832	33,548
Pinyon	2	—	—	2
Ponderosa pine	4,004	—	128	4,131
Douglas-fir	2,653	—	256	2,910
Aspen	237	3,513	—	3,750
All species ^a	61,489	3,513	9,589	74,592

^aData may not sum to totals due to rounding or truncating.

Table 4—Cubic volume of timber products harvested by owner and product, Utah, 1992.

Owner	Product				All products ^a	Percent
	Sawlogs	Fiberwood	Posts and poles	House logs		
	-----Thousand cubic feet-----					
National Forest Bureau of Land Management	8,021	—	965	1,476	10,462	78.5
State	6	—	—	21	27	0.2
Tribal	30	582	—	—	612	4.6
Other private	101	—	—	26	127	1.0
All owners ^a	2,016	—	10	65	2,091	15.7
Percent of total	10,174	582	975	1,588	13,319	100.0
	76.4	4.3	7.3	11.9	100.0	

^aData may not sum to totals due to rounding or truncating.

Table 5—Board-foot (Scribner rule) volume of timber products harvested by owner and product, Utah, 1992.

Owner	Product			All products ^a
	Sawlogs	Fiberwood	House logs	
	-----Thousand board feet-----			
National Forest Bureau of Land Management	41,426	—	7,607	49,033
State	28	—	113	141
Tribal	151	3,000	—	3,151
Other private	520	—	130	650
All owners ^a	10,385	—	339	10,724
	52,510	3,000	8,189	63,699

^aData may not sum to totals due to rounding or truncating.

Table 6—Board-foot (International 1/4 inch rule) volume of timber products harvested by owner and product, Utah, 1992.

Owner	Product			All products ^a
	Sawlogs	Fiberwood	House logs	
	-----Thousand board feet-----			
National Forest Bureau of Land Management	48,510	—	8,907	57,418
State	33	—	132	165
Tribal	177	3,513	—	3,690
Other private	609	—	152	761
All owners ^a	12,161	—	397	12,558
	61,489	3,513	9,589	74,592

^aData may not sum to totals due to rounding or truncating.

Table 7—Cubic volume of timber products harvested by county and product, Utah, 1992.

County	Product				All products ^a	Percent ^a
	Sawlogs	Fiberwood	Posts and poles	House logs		
-----Thousand cubic feet-----						
Beaver	572	—	—	—	572	4.3
Cache	10	—	—	24	34	.2
Carbon	20	—	—	—	20	.1
Daggett	400	—	103	133	636	4.7
Duchesne	258	—	—	85	343	2.6
Garfield	1,362	—	—	2	1,364	10.2
Iron	276	—	—	2	278	2.1
Kane	793	—	—	2	795	6.0
Morgan	—	—	—	5	5	(b)
Piute	120	—	—	—	120	.9
San Juan	292	582	—	—	874	6.6
Sanpete	728	—	—	—	728	5.5
Sevier	712	—	—	—	712	5.3
Summit	1,795	—	—	141	1,936	14.5
Uintah	1,935	—	748	1,144	3,827	28.7
Wasatch	510	—	124	29	663	5.0
Wayne	391	—	—	17	408	3.1
Weber	—	—	—	4	4	(b)
All counties ^a	10,174	582	975	1,588	13,319	100.0
Percent of total ^a	76.4	4.4	7.3	11.9	100.0	

^aData may not sum to totals due to rounding or truncating.
^bLess than 0.1 percent.

Table 8—Board-foot (Scribner rule) volume of timber products harvested by county and product, Utah, 1992.

County	Product			All products ^a
	Sawlogs	Fiberwood	House logs	
-----Thousand board feet-----				
Beaver	2,952	—	—	2,952
Cache	55	—	120	175
Carbon	100	—	—	100
Daggett	2,070	—	680	2,750
Duchesne	1,337	—	430	1,767
Garfield	7,033	—	14	7,047
Iron	1,421	—	14	1,435
Kane	4,104	—	13	4,117
Morgan	—	—	25	25
Piute	620	—	—	620
San Juan	1,503	3,000	—	4,503
Sanpete	3,750	—	—	3,750
Sevier	3,663	—	—	3,663
Summit	9,265	—	735	10,000
Uintah	9,985	—	5,899	15,884
Wasatch	2,632	—	149	2,781
Wayne	2,020	—	90	2,110
Weber	—	—	20	20
All counties ^a	52,510	3,000	8,189	63,699

^aData may not sum to totals due to rounding or truncating.

Table 9—Board-foot (International ¼ inch rule) volume of timber products harvested by county and product, Utah, 1992.

County	Product			All products ^a
	Sawlogs	Fiberwood	House logs	
-----Thousand board feet-----				
Beaver	3,457	—	—	3,457
Cache	64	—	141	205
Carbon	117	—	—	117
Daggett	2,424	—	796	3,220
Duchesne	1,566	—	504	2,069
Garfield	8,236	—	16	8,252
Iron	1,664	—	16	1,680
Kane	4,806	—	15	4,821
Morgan	—	—	29	29
Piute	726	—	—	726
San Juan	1,760	3,513	—	5,273
Sanpete	4,391	—	—	4,391
Sevier	4,289	—	—	4,289
Summit	10,849	—	861	11,710
Uintah	11,692	—	6,908	18,600
Wasatch	3,082	—	174	3,257
Wayne	2,365	—	105	2,471
Weber	—	—	23	23
All counties ^a	61,489	3,513	9,589	74,592

^aData may not sum to totals due to rounding or truncating.

Table 10—Cubic volume of timber products harvested by county and species, Utah, 1992.

County	Species							All species ^a	Percent
	True fir	Engelmann spruce	Lodgepole pine	Pinyon	Ponderosa pine	Douglas-fir	Aspen		
-----Thousand cubic feet-----									
Beaver	97	341	—	—	60	72	2	572	4.3
Cache	—	—	23	—	—	11	—	34	.3
Carbon	2	16	—	—	—	2	—	20	.2
Daggett	—	—	625	—	—	11	—	636	4.8
Duchesne	—	70	225	—	29	19	—	343	2.6
Garfield	146	752	269	—	99	94	4	1,364	10.2
Iron	44	179	1	(b)	25	28	1	278	2.1
Kane	148	447	1	—	101	95	3	795	6.0
Morgan	—	—	5	—	—	—	—	5	(c)
Piute	22	68	—	—	15	14	1	120	.9
San Juan	—	58	—	—	234	—	582	874	6.6
Sanpete	8	387	310	—	—	23	—	728	5.5
Sevier	111	421	—	—	76	81	23	712	5.3
Summit	—	837	1,099	—	—	—	—	1,936	14.5
Uintah	—	76	3,677	—	43	31	—	3,827	28.7
Wasatch	20	500	136	—	—	1	6	663	5.0
Wayne	—	313	89	—	4	2	—	408	3.1
Weber	—	2	2	—	—	—	—	4	(c)
All counties ^a	598	4,467	6,462	(b)	686	484	622	13,319	100.0
Percent of total ^a	4.5	33.5	48.5	—	5.2	3.6	4.7	100.0	

^aData may not sum to totals due to rounding or truncating.

^bLess than 500 cubic feet.

^cLess than 0.1 percent.

Table 11—Board-foot (Scribner rule) volume of timber products harvested by county and species, Utah, 1992.

County	Species							All species ^a
	True fir	Engelmann spruce	Lodgepole pine	Pinyon	Ponderosa pine	Douglas-fir	Aspen	
-----Thousand board feet-----								
Beaver	507	1,755	—	—	311	368	11	2,952
Cache	—	—	117	—	—	58	—	175
Carbon	10	80	—	—	—	10	—	100
Daggett	—	—	2,696	—	—	54	—	2,750
Duchesne	—	362	1,160	—	150	95	—	1,767
Garfield	751	3,897	1,386	—	511	483	19	7,047
Iron	226	918	8	2	127	150	4	1,435
Kane	763	2,314	7	—	521	492	20	4,117
Morgan	—	—	25	—	—	—	—	25
Piute	115	349	—	—	79	74	3	620
San Juan	—	302	—	—	1,201	—	3,000	4,503
Sanpete	40	1,995	1,600	—	—	115	—	3,750
Sevier	570	2,172	—	—	388	418	115	3,663
Summit	—	4,318	5,682	—	—	—	—	10,000
Uintah	—	336	15,172	—	222	154	—	15,884
Wasatch	105	2,315	326	—	—	5	30	2,781
Wayne	—	1,623	460	—	18	9	—	2,110
Weber	—	10	10	—	—	—	—	20
All counties ^a	3,087	22,746	28,649	2	3,528	2,485	3,202	63,699

^aData may not sum to totals due to rounding or truncating.

Table 12—Board-foot (International 1/4 inch rule) volume of timber products harvested by county and species, Utah, 1992.

County	Species							All species ^a
	True fir	Engelmann spruce	Lodgepole pine	Pinyon	Ponderosa pine	Douglas-fir	Aspen	
-----Thousand board feet-----								
Beaver	594	2,055	—	—	364	431	13	3,457
Cache	—	—	137	—	—	68	—	205
Carbon	12	94	—	—	—	12	—	117
Daggett	—	—	3,157	—	—	63	—	3,220
Duchesne	—	424	1,358	—	176	111	—	2,069
Garfield	879	4,563	1,623	—	598	566	22	8,252
Iron	265	1,075	9	2	149	176	5	1,680
Kane	893	2,710	8	—	610	576	23	4,821
Morgan	—	—	29	—	—	—	—	29
Piute	135	409	—	—	93	87	4	726
San Juan	—	354	—	—	1,406	—	3,513	5,273
Sanpete	47	2,336	1,874	—	—	135	—	4,391
Sevier	667	2,543	—	—	454	489	135	4,289
Summit	—	5,056	6,654	—	—	—	—	11,710
Uintah	—	393	17,766	—	260	180	—	18,600
Wasatch	123	2,711	382	—	—	6	35	3,257
Wayne	—	1,901	539	—	21	11	—	2,471
Weber	—	12	12	—	—	—	—	23
All counties ^a	3,615	26,636	33,548	2	4,131	2,910	3,750	74,592

^aData may not sum to totals due to rounding or truncating.

Table 13—Cubic volume of timber products harvested by county and owner, Utah, 1992.

County	Owner						Percent
	National Forest	Bureau of Land Management	State	Tribal	Other private	All owners ^a	
-----Thousand cubic feet-----							
Beaver	194	—	—	—	378	572	4.3
Cache	34	—	—	—	—	34	.3
Carbon	—	—	—	—	20	20	.2
Daggett	636	—	—	—	—	636	4.8
Duchesne	151	—	—	117	75	343	2.6
Garfield	1,317	—	—	—	47	1,364	10.2
Iron	168	—	—	—	110	278	2.1
Kane	709	—	—	—	86	795	6.0
Morgan	—	—	—	—	5	5	^(b)
Piute	—	—	—	—	120	120	.9
San Juan	32	—	602	—	240	874	6.6
Sanpete	728	—	—	—	—	728	5.5
Sevier	224	—	10	—	478	712	5.3
Summit	1,436	—	—	—	500	1,936	14.5
Uintah	3,776	27	—	10	14	3,827	28.7
Wasatch	651	—	—	—	12	663	5.0
Wayne	402	—	—	—	6	408	3.1
Weber	4	—	—	—	—	4	^(b)
All counties ^a	10,462	27	612	127	2,091	13,319	100.0
Percent of total	78.5	.2	4.6	1.0	15.7	100.0	

^aData may not sum to totals due to rounding or truncating.

^bLess than 0.1 percent.

Table 14—Board-foot (Scribner rule) volume of timber products harvested by county and owner, Utah, 1992.

County	Owner						All owners ^a
	National Forest	Bureau of Land Management	State	Tribal	Other private	All owners ^a	
-----Thousand board feet-----							
Beaver	1,004	—	—	—	1,948	2,952	
Cache	175	—	—	—	—	175	
Carbon	—	—	—	—	100	100	
Daggett	2,750	—	—	—	—	2,750	
Duchesne	787	—	—	600	380	1,767	
Garfield	6,797	—	—	—	250	7,047	
Iron	870	—	—	—	565	1,435	
Kane	3,660	—	—	—	457	4,117	
Morgan	—	—	—	—	25	25	
Piute	—	—	—	—	620	620	
San Juan	169	—	3,101	—	1,233	4,503	
Sanpete	3,750	—	—	—	—	3,750	
Sevier	1,152	—	50	—	2,461	3,663	
Summit	7,425	—	—	—	2,575	10,000	
Uintah	15,663	141	—	50	30	15,884	
Wasatch	2,731	—	—	—	50	2,781	
Wayne	2,080	—	—	—	30	2,110	
Weber	20	—	—	—	—	20	
All counties ^a	49,033	141	3,151	650	10,724	63,699	

^aData may not sum to totals due to rounding or truncating.

Table 15—Board-foot (International ¼ inch rule) volume of timber products harvested by county and owner, Utah, 1992.

County	Owner					All owners ^a
	National Forest	Bureau of Land Management	State	Tribal	Other private	
----- <i>Thousand board feet</i> -----						
Beaver	1,176	—	—	—	2,281	3,457
Cache	205	—	—	—	—	205
Carbon	—	—	—	—	117	117
Daggett	3,220	—	—	—	—	3,220
Duchesne	922	—	—	703	445	2,069
Garfield	7,959	—	—	—	293	8,252
Iron	1,019	—	—	—	662	1,680
Kane	4,286	—	—	—	535	4,821
Morgan	—	—	—	—	29	29
Piute	—	—	—	—	726	726
San Juan	198	—	3,631	—	1,444	5,273
Sanpete	4,391	—	—	—	—	4,391
Sevier	1,349	—	59	—	2,882	4,289
Summit	8,695	—	—	—	3,015	11,710
Uintah	18,341	165	—	59	35	18,600
Wasatch	3,198	—	—	—	59	3,257
Wayne	2,436	—	—	—	35	2,471
Weber	23	—	—	—	—	23
All counties ^a	57,418	165	3,690	762	12,558	74,592

^aData may not sum to totals due to rounding or truncating.

Table 16—Cubic volume of timber products harvested by species and owner, Utah, 1992.

Species	Owner					All owners ^a	Percent
	National Forest	Bureau of Land Management	State	Tribal	Other private		
----- <i>Thousand cubic feet</i> -----							
True fir	377	—	—	—	221	598	4.5
Engelmann spruce	3,379	—	9	17	1,062	4,467	33.5
Lodgepole pine	6,059	23	—	102	278	6,462	48.5
Pinyon	—	—	—	—	^(b)	^(b)	^(c)
Ponderosa pine	304	—	16	—	366	686	5.2
Douglas-fir	308	4	5	8	159	484	3.6
Aspen	35	—	582	—	5	622	4.7
All species ^a	10,462	27	612	127	2,091	13,319	100.0
Percent of total	78.5	0.2	4.6	1.0	15.7	100.0	

^aData may not sum to totals due to rounding or truncating.

^bLess than 500 cubic feet.

^cLess than 0.1 percent.

Table 17—Board-foot (Scribner rule) volume of timber products harvested by species and owner, Utah, 1992.

Species	Owner					All owners ^a
	National Forest	Bureau of Land Management	State	Tribal	Other private	
----- <i>Thousand board feet</i> -----						
True fir	1,951	—	—	—	1,136	3,087
Engelmann spruce	17,145	—	46	85	5,470	22,746
Lodgepole pine	26,622	119	—	527	1,381	28,649
Pinyon	—	—	—	—	2	2
Ponderosa pine	1,570	—	80	—	1,878	3,528
Douglas-fir	1,570	22	25	38	830	2,485
Aspen	175	—	3,000	—	27	3,202
All species ^a	49,033	141	3,151	650	10,724	63,699

^aData may not sum to totals due to rounding or truncating.

Table 18—Board-foot (International 1/4 inch rule) volume of timber products harvested by species and owner, Utah, 1992.

Species	Owner					All owners ^a
	National Forest	Bureau of Land Management	State	Tribal	Other private	
----- <i>Thousand board feet</i> -----						
True fir	2,285	—	—	—	1,330	3,615
Engelmann spruce	20,077	—	54	100	6,405	26,636
Lodgepole pine	31,174	139	—	617	1,617	33,548
Pinyon	—	—	—	—	2	2
Ponderosa pine	1,838	—	94	—	2,199	4,131
Douglas-fir	1,838	26	29	44	972	2,910
Aspen	205	—	3,513	—	32	3,750
All species ^a	57,418	165	3,690	761	12,558	74,592

^aData may not sum to totals due to rounding or truncating.

Table 19—Distribution of cubic-volume production and number of mills by mill size class, Utah, 1992.

Mill size class ^a	Production		Number of mills
	<i>Thousand cubic feet</i>	<i>Percent</i>	
5 million plus	5,646	42.4	3
1 million to 4.9 million	4,808	36.1	8
0.5 million to 1 million	1,636	12.3	13
Less than 0.5 million	371	2.8	18
Out-of-State ^b	858	6.4	(b)
Total	13,319	100.0 ^c	42

^aMill size class is based on mill receipts in Scribner rule.

^bBoard-foot volumes delivered to individual out-of-State mills is unavailable.

^cData may not sum to 100.0 due to rounding.

Table 20—Timber production and timber removals by source of material and product, Utah, 1992.

Products and additional removals	Product volume				Growing-stock removals
	Total	From live trees	From salvable dead trees	Noninventory product volume	
-----Thousand cubic feet-----					
Sawlogs	10,174	7,763	2,411	16	7,747
Posts and poles	975	211	763	—	211
House logs	1,588	204	1,384	—	204
Fiberwood	582	582	—	1	581
Total	13,319	8,761	4,558	17	8,743
Logging residue	—	—	—	—	494
Total	13,319	8,761	4,558	17	9,237
Sawtimber removals					
-----Thousand board feet (Scribner rule)-----					
Sawlogs	52,510	40,052	12,458	2,844	37,208
Posts and poles	—	—	—	—	—
House logs	8,189	1,048	7,141	74	974
Fiberwood	3,000	3,000	—	213	2,787
Total	63,699	44,100	19,599	3,131	40,969
Logging residue	—	—	—	—	651
Total	63,699	44,100	19,599	3,131	41,620
-----Thousand board feet (International 1/4 inch rule)-----					
Sawlogs	61,489	46,901	14,588	3,752	43,149
Posts and poles	—	—	—	—	—
House logs	9,589	1,227	8,362	98	1,129
Fiberwood	3,513	3,513	—	281	3,232
Total	74,591	51,641	22,950	4,131	47,510
Logging residue	—	—	—	—	763
Total	74,591	51,641	22,950	4,131	48,273

Table 21—Estimated volume of used and unused residue from mills.

Residue	Product			Total used	Unused	Total produced
	Fencing and firewood	Animal bedding	Other			
-----Thousand cubic feet-----						
Bark	635	—	681	1,316	477	1,793
Coarse ^a	2,468	—	346	2,814	788	3,601
Fine ^b	—	989	591	1,580	17	1,597
Total	3,103	989	1,618	5,710	1,282	6,991

^aMaterial suitable for chipping, such as slabs, edgings, and trim.

^bSawdust and planer shavings.

Table 22—Conversion factors used in preparing volume statistics for this report.

Product	Piece	Cubic feet	Board feet	
			Scribner rule	International ¼ inch rule
Sawlogs, house logs, fiberwood ^a	—	1 ^b	5.157	6.041
Sawlogs, house logs, fiberwood	—	—	1	1.171
Posts and small poles ^c	1	0.354	—	—
Posts and small poles	2.823	1	—	—

^aFiberwood—excelsior.

^bConversion factors for sawlogs, house logs, and fiberwood were derived from logging utilization data collected on active logging operations in Utah in 1993 (McLain, in preparation).

^cPosts and small poles were reported in number of pieces and their respective dimensions. The cubic volume per piece was calculated. Posts and poles with small-end diameters less than 6 inches have zero board feet.

Table 23—A comparison of harvest volumes by selected counties for selected years, in thousand board feet, International ¼ inch rule, Utah.

County	Year		
	1969 ^a	1974 ^b	1992
	-----Thousand board feet-----		
Beaver	—	174	3,457
Cache	4,669	1,556	205
Carbon	—	291	117
Daggett	3,381	3,576	3,220
Duchesne	5,527	2,843	2,069
Garfield	23,940	9,522	8,252
Grand	287	5,600	—
Iron	333	—	1,680
Kane	7,490	—	4,821
Morgan	—	12	29
Piute	—	493	726
Rich	—	2,418	—
San Juan	10,068	5,600	5,273
Sanpete	647	582	4,391
Sevier	296	801	4,289
Summit	5,800	6,261	11,710
Uintah	2,947	16,410	18,600
Utah	562	22	—
Wasatch	1,721	1,798	3,257
Wayne	1,660	4,374	7,471
Weber	—	56	23

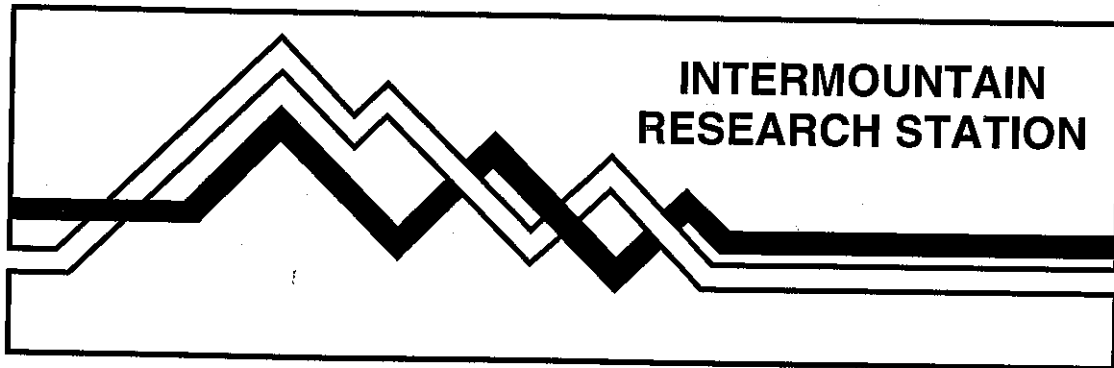
^a1969 volumes, Setzer 1971.

^b1974 volumes, Setzer and Throssell 1977.

McLain, William H.; Keegan, Charles E., III; Wichman, Daniel P. 1997. Utah timber production and mill residue, 1992. Resour. Bull. INT-RB-92. Ogden, UT: U.S. Department of Agriculture, Forest Service, Intermountain Research Station. 16 p.

Reports 1992 timber production estimates for Utah by county, species, owner, and product. Also reports estimates of mill residue by use. Data were obtained by canvassing primary wood processors in Utah and out-of-State mills receiving logs harvested in Utah.

Keywords: timber products output, sawlog production, industrial roundwood, primary wood products, timber harvest, growing-stock removals



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