

1961

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Karl Loerch

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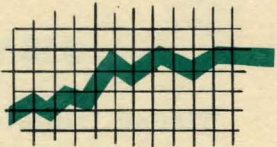
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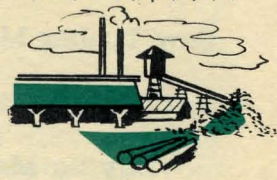
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MARKETS



SAWMILLS



PRODUCTS



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NEBRASKA

Timber

EXTENSION SERVICE
UNIVERSITY OF NEBRASKA COLLEGE OF AGRICULTURE
AND U. S. DEPARTMENT OF AGRICULTURE
COOPERATING
E. F. FROLIK, DEAN E. W. JANIKE, DIRECTOR

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Markets - Sawmills - Products *for* **NEBRASKA TIMBER**

By Karl Loerch
Extension Forester

Market prices, the names of sawmill operators, buyers, and products of the forest are discussed in this publication. The information was obtained from contacts with timber users by Extension Foresters and the U. S. Forest Service in 1960.

Three percent of Nebraska land area, approximately 900,000 acres, is woodland. This segment of Nebraska agriculture has been sadly neglected. With proper management, production from woodlands can double or triple.

Timber offers a supplemental farm income. Sawmills serve farmers by converting their trees to lumber.

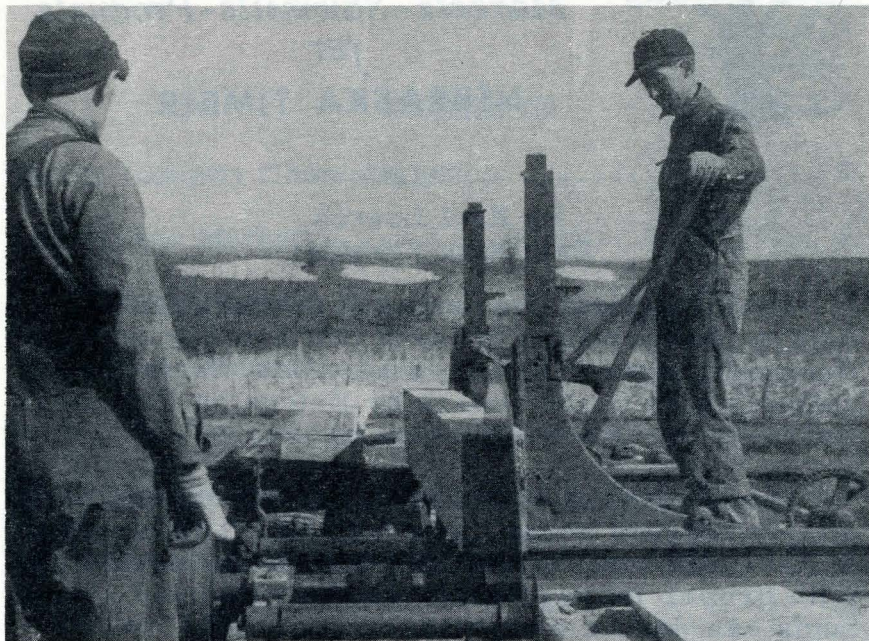
Timber Industry Characteristics

Most forest land is in small woodlots, owned by many small private landowners. Hardwood and cedar follow the major drainage areas across the state, while Ponderosa pine is primarily in the northwest corner of the state, and along the Niobrara River.

Most sawmills are located in the eastern third of the state and in the Pine Ridge area of the northwest. A few sawmills are scattered along the main watersheds across the state.

Most mills are located on farms and operated by farmers on a seasonal basis when farm work is slack. Most of the total lumber production comes from a few non-farm mills which operate the year round.

Farm-operated mills are generally for production of lumber needed on the farm. Custom sawing is done



Typical farm sawmill.

for \$20 - \$40 per thousand board feet (MBF) depending on the species sawed.

Saw Timber Market

Cottonwood makes up most of the saw timber volume, but ash, sycamore, oak, elm, hackberry, soft maple, cedar and pine are also used. Occasionally, honeylocust is also used. Most material goes as rough lumber for farm construction or crating.

Specifications

Logs generally 12" and larger at the small end and 8' and longer in length. Add 2" - 4" to allow for trim. Cedar can be down to 8" at the small end.

Logs should be straight and free of rot, worm holes, and other serious defects.

Buying Methods

Stumpage is purchased on a lump sum, log scale

or mill run tally. Lump sum is a definite price for all sale trees on a certain area, as they stand. Log scale or mill run basis is an agreed price per foot as it is cut.

Saw timber is measured and paid for by the board foot. A board foot is a section of wood one foot square and 1" in thickness. The Doyle or Doyle Scribner log rules are most common.

There should be an understanding between buyer and seller as to which trees are to be cut either by marking the trees or setting a diameter limit.

Board Foot Volume - Doyle Log Rule

Diameter (inches)	Length in Feet					
	6	8	10	12	14	16
6	2	2	3	3	4	4
7	3	5	6	7	8	9
8	6	8	10	12	14	16
9	9	13	16	19	22	25
10	14	18	23	27	32	36
11	18	25	31	37	43	49
12	24	32	40	48	56	64
13	30	41	51	61	71	81
14	38	50	63	75	88	100
15	45	61	76	91	106	121
16	54	72	90	108	126	144
17	63	85	106	127	148	169
18	74	98	123	147	172	196
19	84	113	141	169	197	225
20	96	128	160	192	224	256
21	108	145	181	217	253	289
22	122	162	203	243	284	324
23	135	181	226	271	316	361
24	150	200	250	300	350	400
25	165	221	276	331	386	441
26	182	242	303	363	424	484
27	198	265	331	397	463	529
28	216	288	360	432	504	576
29	234	313	391	469	547	625
30	254	338	423	507	592	676

Walnut Market

Most walnut logs harvested in Nebraska go to Midwest Walnut Company of Council Bluffs, Iowa, or Iowa-Missouri Walnut Company of St. Joseph, Missouri. These companies have buyers in the state. A number of smaller sawmills also buy walnut. Walnut is generally used for gunstocks, paneling, and furniture. Stumpage prices vary from \$50 to \$400 per thousand board feet depending on the quality.

Specifications

Trees should be at least 16" diameter breast height.

Diameters are measured inside the bark at small end of each log.

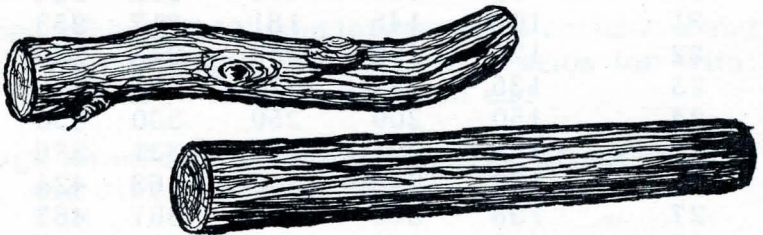
Each one-fourth of the circumference of a tree is called a face. A clear log has no defect on any face.

Logs are down-graded because a face contains knots, limbs, or other defects.

Prime Logs

a. Butt logs only, fresh cut from live timber, sound, straight, and free of all defects and excessive sapwood. Logs are to be 12" and larger at the small end; must run 8' and longer.

b. Clear butt logs 6' and 7' long, if 16" and larger in diameter.



Good, clear prime log compared with other.

Select Logs

a. Butt logs 16" and up, 8' and longer, must have 3 clear faces; no unsound defects.

b. Second cuts 16" and up, 8' and longer, clear of all defects.

c. Logs prime except for slight crook.

A log showing iron or other extraneous metal shall in no case be graded higher than select.

Number 2 Logs

a. Logs 12" and up, 8' and longer. Must have 2 clear faces or better.

b. Clear logs 12" to 15" and 6' to 7'.

c. Any log 6' to 7', 16" and up with 3 clear faces or better.

Cull logs are logs which will not meet above specifications. Logs with worm holes, ring shake, bird pock, or ingrown bark have no classification.

Veneer

Some buyers grade logs which are clear and 18" to 20" or over at the small end as veneer.

Buying Method

Sale price is based on a board foot unit, Doyle Log Scale. Because walnut is a high value product and it is desired to get the most valued cuts from a tree, walnut buyers would rather buy the standing tree and do their own logging. Walnut buyers will go several hundred miles for high valued trees. Most companies are not interested unless at least a truckload of logs are available in an area. A truckload can often be made up if neighboring farmers with but a few trees each offer their trees for sale at the same time.



Loading walnut logs .

Because of the value variance and grades involved it is wise for the seller to seek assistance from a for-ester before selling walnut.

Cooperage Market

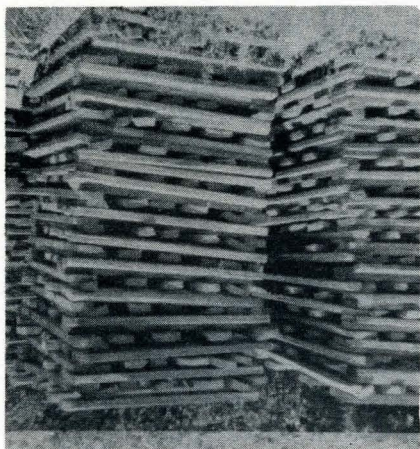
Cooperage refers to the barrel making industry. In recent years this industry has moved into Nebraska to supply the demand for tight (watertight) cooperage .

Stave bolts are sawn on a barrel saw to make staves (barrel sides) and heading bolts are sawn on a large circle saw to make heading (barrel ends) .

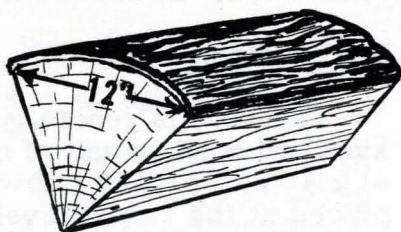
The cooperage industry has always been similar to the hog market, that is, the market suffers great fluctuations. Careful attention should be given to this market before a cooperage sale is made.

Specifications

Tight cooperage is made only from the White oak family. Practically all the cooperage stock in Nebraska is cut from Bur oak. Very minor amounts are cut from White oak or Chinquapin oak.



Stave yard.



Chord foot.

Stave and header bolts are split from a round bolt and must be straight, free from knots, rot, worm holes, stain, and other defects. Stave bolts are generally 38" to 41" long and header bolts are 18" to 27" long. Check with buyer to see what he wants. Bolts should be cut from trees at least 16" diameter breast height so that the bolts will split out 12" or larger bark to bark.

Buying Method

Bolts are bought by lump sum in the standing tree or by scale after cutting or on mill delivery. Timber is purchased on the basis of chord foot as illustrated. Measurement across the chord or end of the split bolt is in inches, 12" being a chord foot.

Fuelwood Markets

Fuelwood is sold for commercial use, home heating, outdoor cooking, and in the fireplace. Although the fuelwood market has been declining because of low cost and convenience of oil and electricity, fuelwood has become a luxury item and commands a high price for fireplace use in the larger cities.

Specifications

Hardwood species are preferred such as the oaks,

hickories, locust, hackberry, and ash. Cedar is often requested because of the aromatic smoke. The wood should be cut from live timber reasonably sound and cut 16" to 22" in length with a mixture of round and split wood. Seasoned wood is preferred.

Buying Method

Fuelwood is generally bought by wholesalers by the standard cord, a unit of measurement which is a stack 4' x 4' x 8' or 128 cubic feet. Fuelwood is usually priced at the retail level on a delivered basis. The terms "rick" or "face cord" are often used by retailers and refer to one-fourth to one-third of a cord.

Miscellaneous Markets

Fence Posts

Osage orange, catalpa, black locust, cedar and preservative treated pine and other soft woods.

Poles

Ponderosa pine

Christmas Trees

Pine, fir, juniper

Markets Needing an Introduction

Charcoal

Pulpwood

Wood chips for bedding, lanes, and feed lots.



Wood chipping machine makes good bedding material.

Nebraska Average Stumpage and Delivered Price
Paid for Timber 1960

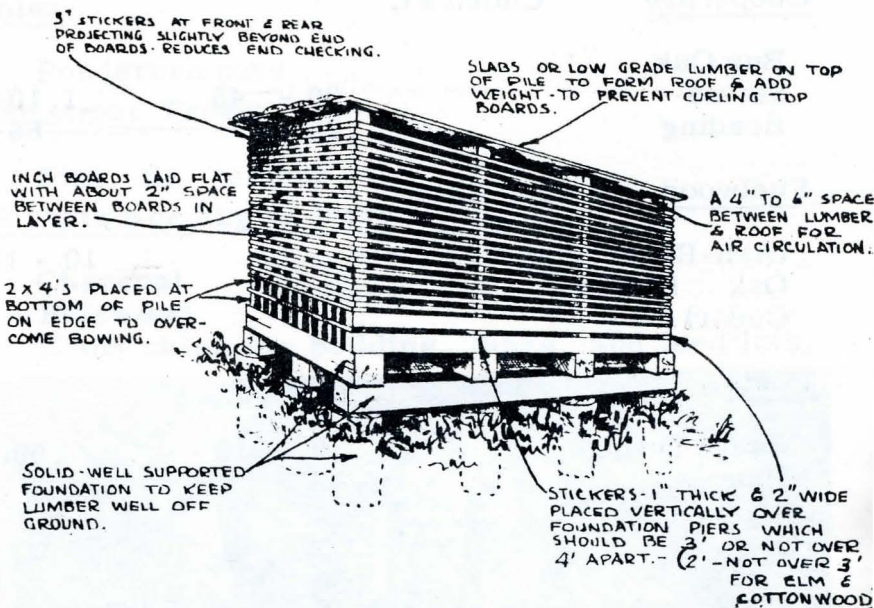
<u>Product</u>	<u>Unit</u>	<u>Stumpage</u>	<u>Delivered</u>
<u>Sawlogs</u>	MBF*		
Ash		\$ 8.50 (\$5-\$10)	25.00
Cottonwood-			
Sycamore		9.25 (\$5-\$20)	20.50
Elm-Hackberry		6.50 (\$5-\$20)	22.50
Soft Maple		11.25 (\$5-\$20)	40.00
Red Oak		16.50 (\$8-\$25)	35.00
White Oak		12.00 (\$8-\$25)	35.00
Ponderosa Pine		10.00	
Cedar		20.00	40 - 110
<u>Walnut</u>	MBF	30 - 400	60 - 450
<u>Cooperage</u>	Chord Ft.		
Bur Oak			
Staves		.30 - .45	1.10
Heading		.25	.65
<u>Fuelwood</u>	St. Cord		
(Ash-Hackberry			10 - 15
Oak Hickory			
Cedar)			
<u>Posts</u>	Piece		
Osage Orange		.10 - .15	.50
Pine		.03	
<u>Poles</u>			
Pine	Lin. Ft.	.10	.45 (20-30 Ft.)

*MBF - Thousand board feet.

Native Timber Used On the Farm

Most species of trees are suitable for farm construction and even more important, can save the farmer considerable cost for the building material.

<u>Uses</u>	<u>Native Timber</u>
Sills	Oak, Elm
Studs and Joists	Ash, Maple, Oak, Elm, Hackberry Sycamore, Cottonwood, Hickory.
Sheathing	Soft Maple, Ash, Oak, Cottonwood, Sycamore.
Fence Boards	Oak, Red Elm
Flooring	Oak, Maple, Ash, Sycamore, Elm, Hickory.
Heavy Timbers	Oak, Elm
Roof Boards	Cottonwood, Maple, Elm, Oak, Hackberry



Plan proper air seasoning to reduce losses .

Free Marketing and Management Assistance

Karl Loerch	Extension Forester College of Agriculture University of Nebraska Lincoln, Nebraska
E. H. Benson	Assistant Extension Forester College of Agriculture University of Nebraska Lincoln, Nebraska
Richard Gavit	District Extension Forester Court House Pierce, Nebraska
Joseph Range	District Extension Forester Court House Grand Island, Nebraska
Charles Stavely	U. S. Forest Service Post Office Building Chadron, Nebraska

List of Nebraska Sawmill Operators By Counties

<u>Antelope</u>		<u>Dakota</u>	
Fuller, Byron	Neligh	Bennett, Jesse	Jackson
Galyen, Gwyn	Tilden	Gaynor, Lbr. Co.	So. Sioux City
Reinke, F. F.	Neligh	Laird, Henry	Dakota City
		Rohde, Edward	Emerson
		Saunders, Gene	Jackson
<u>Boyd</u>			
Anderson, Vance	Butte	<u>Dawes</u>	
Mashino, Clay	Lynch		
		Dodd, William	Crawford
<u>Brown</u>		Lindegan, Jack	Chadron
		Mann, Edwin	Chadron
Bejot, J. V.	Ainsworth	<u>Dawson</u>	
<u>Buffalo</u>		McCance, Ed.	Cozad
Dawny, Lawrence	Pleasanton	Peterson, Bill	Gothenburg
McClemens, M. R.	Kearney		
		<u>Dixon</u>	
<u>Burt</u>		Schram, Les	Ponca
Bowman, Alfred	Craig		
		<u>Dodge</u>	
<u>Butler</u>		Beebe, Henry	North Bend
Pabian, Bernard	Bruno	Betzinger, Otto	Fremont
		Dvorak, Wencil	Dodge
<u>Cass</u>		Woolf, Louis	Hooper
Adkins, Gene	Nehawka	<u>Douglas</u>	
Becker, Henry	Union		
Lloyd, Oliver	Murray	Busse Box & Crate Co.	
		2222 Washington	Omaha
<u>Cedar</u>		Dryer, John	Waterloo
		Phillips Basket Co.	
Bruening, Otto	St. Helena	2821 Grebe	Omaha
Feiner, Frank	St. Helena		
Hausmann, Carl	St. Helena	<u>Franklin</u>	
Lammers,			
Ludwig	Hartington	Adams, Art	Franklin
Pick, W. H., Jr.	Hartington	Bach, W. J.	Riverton
Schulte, Alphonse	Fordyce	Churchill, Orville	Bloomington.
<u>Cuming</u>		<u>Furnas</u>	
Behling, Henry	Beemer	Harding, Vern	Cambridge
Miserez, Vernon	West Point		
Rabe, Dale	Wisner	<u>Gage</u>	
Sharp, Grover	Beemer		
		Trump, Dudley	Blue Springs
<u>Custer</u>		Wasserman, Melvin	Wilber
Reiter, Maurice	Mason City		

Hall

Lilly, Ed
Lockwood, C. W.
Opp, Wm.

Holt

Durre, Lloyd
Haugen, Francis
Kolina, Joe
Lane, Herbert
Weatherwax,
Robert

Howard

Deertz, Carl

Jefferson

Scheuler, Omer

Johnson

Poppe, Walter
Werman, Fred

Keya Paha

Bates, Harry
Jansen, Rudy
Kaup Bros.
Sherman, Harold

Knox

Ruzicka, Henry
Snowden, Kirk
Sukup, Paul

Lincoln

Middleton, Cecil
Tracy, A. J.

Loup

Goos, Ted

Madison

Duhacek, Harry
Schwede, G.

Wood
River
Kenesaw
Wood
River

Ewing
Newport
Inman
Ewing
Spencer

Palmer

Thompson

Cook
Tecumseh

Meadville
Spring-
view
Gregory, S. D.
Norden

Verdel
Niobrara
Verdigre

North
Platte
North
Platte

Taylor

Meadow
Grove
Norfolk

Merrick

Ferris, Rex & Elwin
Leichy, Norris
Pollock, Harold
Schmidt, Arthur
Shipman, Ed.
Tyler, Leslie

Nance

Horning, John

Nemaha

Biere, Herman
Brownville Sawmill
Rowell, Chancie
Spittler, Gerald

Otoe

Mortimore, John
Rink, Charles

Pawnee

Bredemeier, Fred
Huntzeker, Rudy
Mosier, Bob
Pettinger, Leonard
Pfister, Edwin &
Chas.
Rueter, Arthur
Pierce

Reikofski, Richard

Platte

Barcel, Don
L B M Lbr. Co.

Polk

Finecy, Cedric

Richardson

Barker, Jess
Huntzeker, Elmer
Lock, Boyd
Mishler, Floyd
Roberts and Stice

Central City
Grand Island
Grand Island
Central City
St. Libory
Clarks

Genoa

Brock
Brownville
Nemaha
Peru

Palmyra
Nebraska City

DuBois
Humboldt
Pawnee City
Burchard

Steinauer
Table Rock

Foster

Columbus
Monroe

Silver Creek

Shubert
Rulo
Rulo
Sabetha, Kans.
Rulo

Rock

Leonard, Raymond	Bassett
McCullough, Cecil	Bassett
Lamb, Earl	Bassett

Saline

Kvasnicka, Milo	Crete
Synovec, J. C.	Western

Sarpy

Allberry, Lee	Gretna
Barr, Carl	Spring- field
Lienemann, Geo.	Bellevue
Snodgrass, Ted	Spring- field

Scotts Bluff

Schooler, Claude	Melbeta
------------------	---------

Sheridan

DeWolf, Harvey	Gordon
Sager, Clifford	Hay Springs
Schmidt, John	Hay Springs

Sioux

Bell, Perry	Crawford
Doyle, Tom	Harrison
Engebretson, John	Harrison
McCoy, Lorenzo	Crawford
Raum, Ross	Crawford

Thayer

Lamb, Vernon	Hubbell
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Valley

Bresley, Harry	Ord
Sell, Bert	Arcadia

Washington

Cook, Lawrence	Arlington
Miller, W. H.	Blair
Spanton, Dwaine	Blair

Wayne

Beiermann, Armin	Wayne
------------------	-------

Webster

Crowell, Cecil	Red Cloud
Smith, Carroll	Guide Rock

Wheeler

Dahlsten, Pete	Ericson
Mignery, Melvin	Bartlett

York

Murphy, Claude	York
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