## **PINE BEETLES SURPASS FIRE IN TREE AREAS**

Western pine beetles destroy each year in the pine regions of Ore-gon and Washington eight times as much timber as do forest fires. sive outbreaks have so depleted this particular portion of the Klamath district that in many areas logging has been rendered unprofitable according to the records of th

U. S. forest service on beelle de struction for the five years end ing with 1933. In the same area beetles and windfall together de stroyed annually over one billion board feet, which is considerably more pine timber than is cut by the sawmills. In 1931 bettles killed almost a

More than 6,000 different animal brands are on file with the division of animal industries of the depart-ment of agriculture, reported Di-In 1931 bettles killed almost a billion feet of ponderosa pine tim-ber in Oregon and over one hund-red million feet in Washington; in 1932, one and one half billion feet in Oregon and over a quarter billion feet in Washington. Owing to the intense cold of the winter of 1932-33 insect losses fell off substantially for 1933. For the three years ending with 1933 the beele kill in ponderosa pine has totsied nearly three billion board feet in Oregon which is an anment of agriculture, reported Di-vision Chief W. H. Lytle, whose of-fice keeps track of the methodi used by livestock owners to identify their property.

feet in Oregon which is an an-nual average of almost a billion feet or a loss of roughly 1.2 pe annum against the tota

stand of ponderosa pine timber. In Washington the loss has to-taled over a half billion feet for three years, an average loss of 1.2 per cent per year. The sawmill cut of ponderosa pine in 1933 was 681,000,000 feet for Oregon and 233,000,000 feet for Washington.

233,000,000 feet for Washington. The research program of the Portland office of the U. S. bureau of entomology shows three peaks of bark beelle damage in 13 years in Oregon and indicates that drought periods affecting the vital-ity and growth rate of trees are favorable for insect epidemics. It has also been determined that cold winters are effective in checking winters are effective in checking the spread of the insects.

sufferers.

counties in Oregon, an Yakima, Okanogan and Ferry coun tics in Washington have been chie

seriousness of the beetle problem. Roughly, 5 per cent of the pine tim-ber stand was killed during this period. The second epidemic last-ed during the period of six years. 1924-1929, and killed an additional 10 per cent of the stand. The third wave of bark beetles struck during the four year period from 1930-FOR RESEAU **DIVIDE HONORS** FOR RESEARCH the four year period from 1930 1933, taking an additional 7 pe-cent of the timber. These succes

Cheago (IP)—Europe and America share research honors—trail the United States in utilizing electricity in its homes—but lead us in em-ploying vapor lighting electricity, an American invention.

**8000 BRANDS ON FILE IN STATE** 

ploying vapor lighting electricity.
 an American invention.
 This opinion was expressed by
 Samuel G. Hibben, director of westinghouse Lamp Co., New York, are a recent meeting here before a group of prominent lighting endition \$9.95; A B Our \$7.96; G D Myers \$3.95; A R Westinghouse Lamp Co., New York, are a recent meeting here before a group of prominent lighting endition \$9.95; John Roda \$7.96; Here \$1.96; A Y Myers \$7.96; G D Myers \$3.5.94; are spineers, electrical men, and the Silna Roda \$11.94; Giren Shelton Myers \$7.96; G D Myers \$3.5.94; and Wyers \$7.96; G D Myers \$3.5.94; are spineers, electrical men, and the Silna Roda \$11.94; John Roda \$7.96
 Hibben based his conclusions on observations made during a study to lighting conditions abroad. Alting the Chicage outpartently enjoys william Allis \$11.94; Ward Bueck alght dege over America in num- \$11.94; Wm Crabtre \$11.94; Loe ber of discoveries which led to the practical development of electricity, she lags far behind in its use, even more so in home lighting and converies of a home lighting and converties \$11.94; Joe Schward Stil.94; Joe Schward Stil.94; Joe Schward Stil.94; Joe Schward Stil.94; Joe Schward Burghart

Portions of Kinmath county have been hit by three auc cessive outbreaks of the bark beetly The first period from 1917-1923 [atlon. "That certainly is imposing brought heavy losses on all areas a task on a lot of individuals if it and first called attention to the is followed to the letter." he said

**Commissioners' Court** The following is the official McIlwain \$74.75; E W Cannop Oil Acct-publication of the record of \$19.88; William Nool \$25.87; Vernon Powder A

publication of the record of claims before the Marion county commissioners' court for the January term, 1935.
 with the amount aflowed, bills continued, etc., according to the records in the office of the records in the office of the county clerk.
 ROADS AND HIGHWAYS FUND January Term 1935.
 Road District No. 12-Glen Haynes 10.09; Yoler \$3.98; Char Charles 1.99; Charles 1.99; Yoler \$3.98; Charles 1.99; Yoler \$3.98; Charles 1.99; Yoler \$3.98; Charles 1.99; Yoler \$3.98; Charles 1.99; Yoler \$3.99; Yo

ker, labor, \$4.97; Chus Van Handel, labor, \$1.99. Road District No. 25-Harry Prunk Indor, \$3.98. Road District No. 34-Mac Scan-Ian, labor, \$1.99. Miscellaneous Accts.-E Z Kauf-man, labor, \$6.46; O G Shepherd, Neal Scale Construction of the State Stat lan, labor, \$1.99. Miscellaneous Accts.—E Z Kauf-man, labor, \$6.46; O G Shepherd, labor, \$23.02

labor, \$23.92. Road District No. 2014—Owen Crane, labor, \$7.95; L M Van Cleave, foreman, \$83.79.

Foreinan, \$53.79.
Road District No. 2715—Labor— Tom Berry \$29.92.
Geo Heckert,
\$47.88; Ray Heckert, \$1.98; Clyde Larsen, \$1.98; John Neuenschwan-der, \$1.89; R & Piper, \$1.99.
Fred Smith, \$37.89; Wm Webster \$1.99;
O D Needham, foreman, \$65.78.
Road District No. 34—Labor—A G Myers, \$8.45; Eldon Myers, \$2.98; G
D Myers, \$208 Selas Roda, \$1.99; D Myers, \$.00; Selas Roda, \$1.09; L F Myers, foreman, \$8.22; Dick Berry, \$7.96; Wm Berry, \$9.95; John Blanchard, \$7.96; Mac Schanlor \$7.96; Albert R Myers, foreman \$22.01

\$22.91.
Read District No. 36-Hill Top Garage, oil etc. \$14.12; W M Booker, labor. \$59.76; Harry Christian, labor, \$59.76; Jack Dale, labor, \$5.97; Em-mett Dorothy, labor, \$9.95; J F Bew-ley, foreman, \$74.74.
Read District No. 49-O A Albin, labor. \$1.99; S F Ogden, labor, \$1.99; P. W. Owre, foreman, \$7.47.
Read District No. 67-Labor-H M Crane. \$5.98; Vernon, Smith. \$5.46;

ê

 J Beedigheimer \$2.60; John Allen
 \$4.97; Norval Carter \$4.97; E A Tay-lor \$1.99; W H Carter \$8.97; W W
 Carter \$11.96 Merle Beckner \$7.68;
 R L Beckner \$19.95; Herman Biers
 \$3.96; Walter Coonse \$3.96; F T
 Diem \$7.98; F W Diem \$3.98; Geo
 Ector \$2.98; Ed Martin \$5.97; Chas
 L Medis \$3.98; W Paniher \$3.58; La Medis \$3.96; EM Marchi \$3.95; Charles \$3.86; C W Prickett \$3.96; W Panther \$3.86; C W Prickett \$3.96; A J Punzel \$3.98 Fred Stolk \$1.99; Robi Cole \$88.77; Lester E Case \$14.92; Victor Duffy \$9.95; John Gearin \$11.97; Arthur Jette Jr \$9.95; Joe Larson \$7.96; Bernard McNamee \$7.96; H P Myers ans saue Emile \$12.93. Floyd The Jr \$13.93; J L Cook Van Damme Jr \$13.93; J L Cook \$76.24; G C Ennis \$11.94; G A En-nis \$0.95; Fred Hasitins \$14.92; Low-ell Herizel \$5.56; Levi Kellis \$17.94; Almond Rich \$4.49; Hubert Wiabel \$13.93; James Cully \$72.28; Albert Albin \$11.94; Chas Gilles \$5.96; John Gilles \$5.97; Spencer Ogden \$1.94; Barthol Schath \$11.94; E J Burbee \$3.98; Gottlob Fritz \$7.98; Lester Heman \$8.97; J T McKillop \$1.99; Chas Fournal \$1.99; Burley Loveti \$19.90; Ellis McDoucall \$.49; Geo Chus Fournal \$1.99; Burley Lovett \$19.90; Ellis McDougall \$4.9; Geo Ramp \$5.9; Joe Zellner \$1.49; P E Jensen \$99.75; Harry Becker \$95.84; Grant Jones \$95.76; R O Amort, lumber, \$.96; Labor-R O Amort, 10, Jones \$95.76; R O Amort, 10, Jones \$95.76; R O Amort, 11, Jones \$95.76; R O Amort, 11, Jones \$9.96; John Say, Say, Say, 11, Jones \$19, John Beinhart \$1.98; Jones \$1.99; John Beinhart \$1.98; hurst \$1.99; John Reinhart \$3.98 Al Schafer \$2.99; Al Tippner \$7.98; E Kimsey \$75.79; Bert Butterfield \$15.53; C J Crosby \$1.99; Grant

Haugen \$1.99; E Z Kauman \$16.41; P Mouer \$1.99; Bryan Potter \$1.99; W N Sjovangen \$7.96; Flyod Stai-ger \$4.97; Bertrand Iversen \$01.76; C M Arney \$12.83; Gerald Butter-field \$11.94; R E Chretien \$14.92; Dan P Connelly \$13.93; James Coop-er \$11.94; Earl Feller \$16.91; A J Fescler \$14.92; Pete Jones \$16.65; John Kinns \$15.91; A J Lortz \$7.66; C W Penrod \$14.92; Paul Perkett \$16.91; Allen Peterson \$13.92; James Platz \$15.91; Fred Richardson \$5.97; Ray Stratton \$10.94; Joe Welter \$16.91; W G Wolfe \$13.92; Oscar Baker \$0.95; Waldo Crabb \$7.96; A R Dart \$7.96; A Grobbi \$8.95; James Shaw \$9.56; A Speblick \$15.96; Joe C O Sipes \$15; Mrs W R Slyter \$15; Mrs Eleanor Steward \$10; Mrs Mary R Steward \$20; Hulda Stripling \$8; Murtis M Syphert \$10; Joseph M Terry \$12.50; Alle Tupper \$15; Sa-villa Waldron \$15; Fern A Wengen-roth \$20; Mrs Anna L Wheeler \$10; Mrs. W H Williams \$10; Mary Wirts \$15; Mrs June Woodward \$20; Per-ry Wright, rel of Wrn Wright, \$30; Andew Yost, rel, \$15; Alleda Zuber, rel, \$12.50; Alma Zuercher, rel, \$30; Lucinda Emerick, rel, \$15; H F War-ren, Co Coms, maint free employ Haugen \$1.99; E Z Kauman \$16.41; C O Sines \$15; Mrs W R Sivter \$15;

ren, Co Coms, maint free employ off, \$100; Dr Verden E Hockett, Co

physician, \$65. Assessor's Office Acct.—R Shelton deputy, \$115; A W Jones, deputy, \$115; Eva Roberts, clerk, \$100; Alma

R Weathers \$3.99; W J Ditter \$1.73; J Haedisheimer \$2.60; John Allen

operative Pub Co, books, \$10; West, Publishing Co, Pacific reporter, \$5.
 Poor Act.--Arme Auto & Trk Wreckers, rim, \$4.50; Ames Hard-ware, pipe etc, \$7.13; Aurora Drug Store, medicine, \$3.85; E L Baker, store, medicine, \$3.85; E L Baker, store, medicine, \$3.85; E L Baker, store, bacebine Baumgariner, rent, tent, \$40; Jacob Bartnik, labor etc, store, incomparent and the store of the store of the store store, medicine, \$3.85; E L Baker, store, needicine, \$3.85; E L Baker, store, need, \$41.50; Capital Verger, sti; Jake Biersack, cut wood for ipj 85; E M Rieger \$11; G H Toelle Mrs Berkner, \$5.97; Capital Journal, k Stor, med, \$43.05; Capital Journal, store, store, \$5.93; Capital Journal, gorcery, groe, \$3.93; Carson Pharm-ig, publ notice, \$2.70; Capitan's Cash \$10; contral Pharmacy, med, \$57.35;

\$.90; Central Pharmacy, med. \$57.35 Book Store, pencils etc, \$21.65; The Pacific Tel & Tel Co, telephone, \$137.65; Western Union Tel Co, tele-Mrs Dora Chiles, care of Eulalia Sarty, \$5.81; City of Silverton, elecdeputy, \$115; A W Jones, deputy, \$115; Eva Roberts, clerk, \$100; Alma Ackerman, clerk, \$100. Clerk's Office Acct.—C C Ward, deputy, \$115; W S Lamkh, deputy, \$15; J H Ward, deputy, \$10; A M etc, \$3.04; Evenden Drug Store, med, Presnull. deputy, \$100; H C Matt-\$1.5; J H Ward, deputy, \$110; A M etc, \$3.04; Evenden Drug Co, med, Presnull. deputy, \$100; H C Matt-\$1.7; W E Gardner, slingling, son, deputy, \$50; H A Judd, dep-Judd, clerk, \$50. Court House Acct.—A H Wyatt, Janitor, \$70; L H Hobson, janitor, \$570; W Hill, janitor, \$70; J H 346.50, Clice Oxtel \$46.50, Jacob Stirsch, elev oper, \$35; Allee Dahlen, elev oper, \$35. Dist, Atty's, Office Acct.—Lyle J Mark T Ray \$46.50, Eur-tree, termer \$50. grams, \$11.19; State Ind Acc Con grams, \$11.16; State Ind Acc Com, ins, \$76.78; Genevieve foster, relief, \$10; Mrs Maude Kime, relief, \$17.50; Mabel Lily Ross, relief, \$17.50; Glad-ys F Hamel, relief, \$7.50; James B Cox, scalp bounty, \$1.25; John Roda, scalp bounty, \$1.35; John Roda, scalp bounty, \$1.50; Commercial Book Store, steel cases, \$108.10; Kubil Howell Co, Acme frames etc, \$358.20; Verden Hockett, exams, \$30; R D Byrd, exam, \$5; Dr L A Sieeves, \$10.

<text><text><text><text><text><text><text><text><text><text><text><text><text>

<text><text><text><text><text><text><text><text> Crane, \$2.58; Vernon Smith. \$5.46; Milton Brown, \$15.65; W J Stitt, \$12.18; Ira Hyzer, \$6.71; S G God-den \$108.63; M L Salchenberg \$19.95;

man, \$27.39; W G Nichol, foreman, \$99.72.
Bog Lleense Fund Acct.--U G John Hybner \$10; George R Hurd \$10; Boyer, stamps, \$13; Paul Marnach, stamps, \$13; Paul Marnach, called lie, \$78.15; Sheep killed by Jackson \$12.50; Minnie Jackson \$5; dogs.--T W Beamish, \$4; C C Can-hon, \$3; Olen Cannoy, \$3; R E Chit-henden \$24; P T Etzel \$4; J C Jones \$6; J R Linn \$4; R S Monigomery \$6; Elmer S Jhilippi \$35; E S Phil-jopi \$3; E M Rieger \$11; G H Toelle \$76; Fred Wourns, \$4.
Miscellaneous Accis.--U G Boyer, stamps, \$68.19; Bulding Supply Co Inc, plaster ete, \$4421; A C Burk, use of cars, \$170; Commercial Book Store, staples ete \$14.60; Needhan's Book Store, penells ete, \$21.65; The Book Store, penells ete, \$21.65; The Back Store, staples ete \$14.60; Needhan's Book Store, penells ete, \$21.65; The Back Store, staples ete \$16.60; Needhan's Book Store, penells ete, \$21.65; The Back Store, Store, Store, Staples ete \$16.60; Needhan's Book Store, penells ete, \$21.65; The Back Store, Sto

Johnson \$5; Peter J ohnson \$5; Thomas E Johnson \$12.50; William M Johnson \$10; Anna B Jones \$10; Hans Korgenson \$5; Clarence G Jory \$10; C Ela Kavanaugh \$5; Humphrey J Kavanaugh \$5; Leon-tora Kempton \$12.50; Eliza A Kep-plnger \$10; Rose H Kimball \$5; Re-becca Kimsey \$10; Nazaire Kitison \$17.50; Peter Klein \$12.50; Ferdinand Klutke \$5; Jacob A Kosch \$10; Jo-seph Komyate \$10; Elizabeth Krae-mer \$10; August G Kufner \$7.50; Louis La Bunte \$12.50; Gorge J Langenberg \$5; John E Larson \$1.50 George Lawton \$10; Adelaide Lawier \$10; Margrite LaFontaine \$12.50; George J Langenberg \$5; John E Larson \$1.50 George Lawton \$10; Adelaide Lawier \$10; David Ledgerwood \$10; Paulins Ledike \$5; Mary E Ledward \$10; Anna Lewis, \$10; Mary Lightfot \$5; John W Limbaugh \$7.50; Willam B Linday \$5; Elizabeth V Lisne \$10; William A Liston \$10; Mary J Littler \$7.50; William J Loffer \$7.50; Martin Loken \$12.50; Eli B Lowo \$10; Janes E Lytle \$8.75; Susannah Lytle \$3.76; Mary MacLachian \$7.50; William Marcho \$10; Georgie \$10; Janes E Lytle \$3.75; Susannah Lytle \$3.76; Mary MacLachian \$7.50; William Marcho \$10; George \$10; Jones E Lytle \$10; Jones E Lytle \$10; Jones E Lytle \$10; Mary J Littler \$7.50; William J Loffer \$7.50; Martin Loken \$12.50; Eli B Lowo