COAL ON PACIFIC COAST

WASHINGTON RANKS FIRST AS A PRODUCER.

Output of Oregon in 1896 and 1897 Exceeded That of California—The Several Fields.

WASHINGTON, March 30.—Of the three Pacific Coast states, Washington easily ranks first as a coal producer, with California second, although in 1896 and 1897 Oregon's output exceeded that of California. In the San Francisco market the coals of the world compete. Foreign coal enters that port chiefly as ballast in tramp steamers seeking grain cargoes, so that the condition of the wheat export trade has a direct bearing upon the coal imports. The coal supply of California comes from England, Wales, Scotland, Australia and Japan, in addition to British Columbia, always a principal source for imported coal. The imports of coal at the California ports have for many years amounted to about three-fourths of the aggregate coal tonnage imported into the United States. Eastern coals reach the Pacific Coast only in small quantities, and the Rocky Mountain field has not been a source of supply for 20 years. The contribution from the three Pacific states to the San Francisco market is growing greatly. In 1861, it was less than 20,000 tons; in 1900, it was about 850,000 tons out of a total of over 1,800,000 tons.

Washington Coal Fields.

The coal fields of Washington are confined to the western and central parts of the state, as is set forth by George Otis Smith in Part 3 of the 22d annual report of the United States Geological Survey. Four large fields may be mentioned: The northern and the southern Puget Sound coal fields, the Roslyn Basin, and the southwestern field in Lewis and Cowlitz counties. The northern Puget Sound coal field includes the coal mines of Skagit and Whatcom counties, in the northern part of the state. The southern Puget Sound field lies in King and Pierce counties in that portion of the Puget Sound basin directly east of the cities of Seattle and Tacoma. In production, this is the most important field of the state, and it includes the Wilkeson-Carbonado district, in Pierce county, and the Green River, Renton-Cedar River, and Newcastle-Issaquah districts of King county. The other field of Western Washington lies about 40 miles southwest in Lewis and Cowlitz counties. The Roslyn field is in Kittitas County, near the center of the state, and on the eastern slope of the Cascade Mountains.

Extensions of all the coal fields of Western Washington will doubtless be discovered. The number of coal beds in the Puget Sound formation is remarkable, and the workable beds in a single district may vary from five to 10 in number. At Wilkeson four seams of coal are mined; at Carbonado several seams have been mined. In the Green River district there are three seams, from 3 to 6 feet thick; in the eastern extension of this field eight workable seams are reported. At Renton three seams are known, two agout 8 feet thick; at Cedar Mountain two seams, 3½ and 12 feet thick, have been worked. In the Newcastle district four seams from 4 to 12 feet thick, and at Issaquah six beds from 4 to 15 feet thick have been worked. In the northern field the old Bellingham Bay seam was 14 feet thick; the present Cokedale seam is 20 feet thick in places, and the Blue Canyon seam averages 7 feet in thickness. In the Roslyn basin there are three workable beds varying from 4 to 19 feet in thickness. The coals of Washington range from lignite to bituminous coaking coal. In the Newcastle-Issaquah and Renton-Cedar River districts the coal is a hard lignite, well suited for domestic use; in the Green River district it is a friable bituminous coal excellent for steam fuel; in the Wilkeson-Carbonado district it is a very soft bituminous coal good for cokemaking, for gas, and for locomotive use. In the Roslyn field the coal is coaking bituminous, but in good lumps and well adapted for steam and gasmaking. The northern field produces an excellent bituminous coking coal containing much slack. Both lignite and bituminous coal are reported from the southwest field, whose product is little known.

The first discovery of coal in the state was made in 1845, lignite of poor quality being found in Cowlitz Valley at that time. Four years later coal was discovered on Bellingham Bay, in Whatcom county, and shipments began from this, the first mine, in 1860, and continued until 1878, when spontaneous combustion caused fire that closed the mine. Two or more northern mines have been active since 1891. In King county, coal was reported in 1859, and mining began near the present Issaquah mines in 1862. The Newcastle mine was the real pioneer mine in this field. It began to ship coal to Seattle in 1867, and by 1870 the means of transportation was well established by way of Lakes Washington and Union. By 1877 the King county coal had become an important factor in the San Francisco market, the Talbot and Renton mines having become shippers also. Coal was discovered east of the Cascades and the Roslyn mine was opened early in the eighties; and the same coal was reached by the Cle-Ellum shaft in 1894. The mines at Roslyn and Cle-Ellum constitute the largest colliery in the state. Various methods of mining are in use according to the nature of the mines. The miners are both white and colored. No machine mining is done in the state, trials in the larger mines not proving successful. Since 1894 the output of the state has shown a steady increase, and in 1900 King county alone reached the 1,000,000-ton mark. The prospect is for a steady development. The largest market for Washington coal is San Francisco, and the railroads of the Northwest furnish the next largest market. The third important demand is in the local markets of Washington and the adjoining states for fuel for manufactories and gas works. For example, in Spokane fully 80 per cent of the coal supply comes from the Roslyn mines; the remainder comes from Montana and Wyoming, with a few carloads from British Columbia, and 8or 10 carloads of Pennsylvania anthracite, shipped via the Great Lakes and Duluth. The coal used in Washington is of high grade and is consumed by smelters at Tacoma, Everett, Northport, and in California. The Great Northern, the Northern Pacific and the Columbia & Puget Sound railroads afford transportation for the coal, and are interested in the present development of the coal industry.

California Mines.

The coal product of California comes from four counties—Alameda, Contra Costa, Amador and Riverside; and there are now four productive fields. The Mount Diablo field, the oldest, is about 35 miles east of San Francisco, on the northern slope of Mount Diablo, of the Coast Range. The belt is not over 2½ miles long, and Somersville is the principal town. Corral Hollow, 50 miles southeast of San Francisco, on the southeast slope of Mount Diablo, lies on both sides of the divide between Livermore Valley and San Joaquin Valley, and is for the most part in Alameda county. The third, the Ione coal field, is on the foothills of the Sierra Nevada, 90 miles northeast of San Francisco. The fourth field lies in the southern part of the state, in Riverside county, near Elsinore, at the eastern foot of the Sierra da Santa Ana. The field is probably small. The Ione field probably has an extension to the south to Lancha Plana, where coal has been mined. Coal veins have been prospected elsewhere, and Butte, Del Norte, Orange, Fresno, Monterey, San Diego and other counties have been coal producers in the past, the mines now being abandoned. Coal prospects more or less promising are reported from Fresno, Trinity, Mendocino, Placer and Orange counties. These beds may prove of some value as a local supply of fuel. It seems certain, however, that California will never rank much higher than today as a coal-producing state. The Mount Diablo field has three workable beds from 2 to 4 feet thick, the Clark, the Little and the Black Diamond. The Corral Hollow field has two productive seams, the Eureka and the Summit, from 7 to 12 feet thick. The Ione coal comes from a seam from 6 to 24 feet thick extending under the whole valley between Ione and Carbondale. The Elsinore coal seam is from 2 to 10 feet thick. The coals of California are lignites, soft and friable. The Ione coal distinctly shows woody texture, and in the Mount Diablo mines carbonized wood, pyrite and gypsum are found with the coal. The Mount Diablo coal fields were early discovered, and had begun to ship coal in 1861. In 1874, 206,000 tons were mined. The product for the year is reported as 6000 tons mined by the Pittsburg Company. The Corral Hollow field was discovered in 1862. After various experiences, the present development began in 1897, since which time the output has steadily increased. The Ione field, known in 1866, was little worked until 1883, and has since greatly increased the output. Mining operations in the Elsinore field have been on a small scale for local consumption. No coal-mining machines are used, and there are no miners' unions in the state. The consumption of California coal is chiefly local. The railroads consume about 30 per cent, steamboats about as much; manufactories take about 35 per cent, and the remainder is consumed at the mines and for domestic purposes in the colliery towns. The Southern Pacific, the Santa Fe, the Alameda & San Joaquin, and the Pittsburg Company's railroad, deliver the coal to the consumers or to tidewater transportation at low rates for the larger mines.

Oregon Coal.

Oregon has but one productive coal field, the Coos Bay field, in Coos county on the coast, about 200 miles south of the mouth of the Columbia, and between the Coast Range and the Pacific. It is about 30 miles long north and south, with a maximum breadth of 11 miles, and the total area is about 250 square miles. Other fields showing coal of good quality may be mentioned; the upper Nehalem field, in Columbia county, the Lower Nehalem, in Clatsop county and Tillamook county; the Yaquina field, in Lincoln county, and the Eckley and Shasta fields, in Curry county; all west of the Cascade Range. The commercial value of these fields cannot now be foretold. East of the Cascade, coal has been found in the basin of the John Day River, which includes parts of Grant, Crook, Gilliam and Wasco counties; but little is known of this field. Mr. Smith divides the Coos Bay coal field into the Newton, the Beaver Slough, the Coquille and the South Slough basins. In 1855 coal deposits on the shores of Coos Bay had begun to attract attention, and Professor Newberry saw several cargoes from that field at San Francisco and Portland. The Newport mine, in the Newport basin, is the only one that has survived. the Newport basin contains about 3 square miles of coal lands, but the Newport is the only bed that has been worked. Beaver Slough basin, over 20 miles long from near Riverton to the northern limit of Coos Bay, and about 5 miles wide, has seen many mines start, and only die, the Beaver Hill mine, survives, though no shipments are now made. The prospects for enlargement, however, are good. The South Slough basin lies immediately to the west of the two basins just mentioned. The Coquille basin is about 8 miles long and nearly a mile wide. Coal has been prospected at the Seven-Mile or Big Coal bed in the South Slough basin, and at Harklocker Hill along the river south of Coquille, but no mines have been opened. The Coos Bay coal is lignite, and is preferred to other coals for domestic fuel, but does not generally coke, and is not a good steam coal. In 1889, the Pacific Coast field produced about 425,000 tons; in 1890, over 1,435,000 tons; in 1900, over 2,704,000 tons.

DAILY CITY STATISTICS.

Marriage Licenses.

H. W. Sloan, 56, Baker County; Emma Holcomb, 44.

George Spees, 24; Nellie Brown, 19.

J. B. Pape, 43, Pacific County, Washington; Mrs. Nettie S. Rigdon, 32.

Death Returns.

March 26, Elizabeth Schott, Sublimity, 57 years.

March 25, Lee Way Young, 47 years, 63 Second street; apoplexy.

March 28, Walter W. Faulkner, 33 years, Halifax, N. S.; embolism.

March 16, Millard M. Worcha, 1 year, Portsmouth; tuberculosis of bowels.

March 27, Minnie C. Nichols, 295 Twelfth; bronchitis.

March 25, Edwin A. Francis, 52 years, Seattle; chronic nephritis.

March 25, Elizabeth Kilbourn, 61 years, Mendota, Wash.; tuberculosis.

March 27, Nettie E. Graham, 14 years, Sightly, Wash.; meningitis.

Contagious Diseases.

March 28, Charles B. Montague, 11 years, 593 East Ash; diphtheria.

Birth Returns.

March 23, to wife of George B. Miller, 30 North Eighth street; boy.

Building Permits.

March 29, T. B. Foster, southwest corner Hoyt and Eighteenth, apartment building; $9000.

R. B. Lamson, Thurman street and Balch Gulch, two-story dwelling; $3500.

M. Bardie, Front street, between Main and Madison, shed; $600.

Miss Sails, southeast corner Sixteenth and Belmont, 1½-story dwelling; $1600.

Miss Larrabee, Overton, between Twenty-third and Twenty-fourth; two-story dwelling; $3000.

F. Brithauer, East Sixth, between Failing and Shaver, two-story dwelling; $300.

Phil Milger, East Sixth, between Failing and Shaver, two-story dwelling; $300.

Real Estate Transfers.

J. T. Thompson to J. P. and L. Menefee, lots 1, 16, block 3, subdivision Proebstel's Addition to Albina	$ 1
Sheriff (for Arthur F. Miller et al.) to J. C. Locke, lot 9, block 10, Miller's Addition	45
C. J. Winchell et al. to Fred H. Strong, lot 12, block 4, Bartsch Park Addition	1650
A. H. Breyman et al. to Winnie Kleist, lots 6, 7, block 16, Sunnyside	625
W. F. Ryan and wife to Margaret C. Blake, lot 12, block 5, Wilson's Addition	3600
Mary O. Green et al. to John W. Langdon, E. ½ of James Terwilliger and wife's D. L. C., 26.60 acres	5
George A. Brodie and wife to A. Wesenberg, lots 5 and 6, block 5, Kinzel Park	150
A. W. Lambert et al. to Fred Sauftenberg, lot 9, block 5, Crystal Springs Addition	100
Hilda Wilhelm and husband to E. T. Bantam, lot 12, block 11, Multnomah	500
M. J. McGrath to Thomas Medie, 30x50 feet, Fifth and Mead streets	5
Sarah Epperly and husband to George A. Epperly, W. 50 feet of lot 1 and N. 15 feet of lot 2, block 73, Stephens' Addition	1
George A. Brodie and wife to T. DeLano, lot 12, block 5, Kinzel Park	125
Sheriff (for A. F. Miller) to John J. Cole, lot 18, block 12, Miller's Addition to Sellwood	100
Rachel Campbell et al. to J. J. Cole, lots 1, 2, 6, 7, 8, 9, 18, block 12; lots 12, 13, block 9, Miller's Addition to Sellwood	1
Same to Marion E. Cole, lots 4, 5, block 11, Miller's Addition to Sellwood	1
Same to John J. Cole, lots 14, 15, block 4; lots 4, 5, 6, block 10, Miller's Addition to Sellwood	1
Ainsworth National Bank to Henry Heizer, lot 16, block 16, Lincoln Park	200
Sarah Epperly and husband to George A. Epperly, W. 50 feet of lot 1, N. 15x50 feet of lot 2, block 73, Stephens' Addition	1
Sheriff (for A. F. Miller) to John J. Cole, lots 12, 13, 14, block 9; lots 4, 5, 6, block 10; lots 1, 2, 6, 7, 8, 9, block 12 Miller's Addition to Sellwood	767
Same (for A. F. Miller) to Marion E. Cole, lots 4, 5, block 11, Miller's Addition to Sellwood	120
Same (for A. F. Miller) to Minnie F. Cole, lot 9, block 13, Miller's Addition	50

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Best Cure for Anarchy.

New York Evening Post.

Our lawmakers, both at Washington and Albany, have discovered that an effective measure, directed specifically against anarchism, is as hard to frame as a law compelling men to like Summer better than Winter. The root of the trouble is that you cannot legislate against a state of mind. We must remember that courts and prisons, judges and jailers are not, after all, the great securities of our property and lives. In the maintenance of a just government our writs, subpoenas and decisions are dead instruments compared with the force of an active and intelligent public opinion, and although there can be no absolute protection against the vagaries of an anarchist a just government is our strongest safeguard.

THE UGLY DUCKLING.

Among the Powers the United States Fits the Case.

Philadelphia Public Ledger.

England, Russia, Germany, in fact, wellnigh all the powers of the Old World, protest their friendship for the American Republic, and the New-World power cannot help being flattered by these tributes. The eagle is so large, so strong, in such excellent condition, that one is tempted to forget that he was once a very small eaglet, and that the larger birds pecked at him as the barnyard fowls pecked at the ugly duck.

School teachers and patriotic speakers keep alive the memory of the Colonial troubles and the sufferings of the Revolution. There is a curious mixture of the glorious and the horrible about those early days; but it is mortifying to think of the wretchedness that followed the peace of 1783. Nominally, we were independent; actually, the wrangling and poverty-stricken states were so miserable that it seemed more than possible that they would return to their British allegiance. Ragged soldiers, cursing an ungrateful Government; a long seacoast without a protecting navy; a Western frontier constantly exposed to Indian attacks; a credit conspicuous by its absence; practically nothing of what we now call Americanism, but an extreme English faction, which considered the Fourth of July vulgar, and a radical French faction, which excused the worst deeds of the Parisian Revolutionists; these are not things of which to boast. For a time our Mediterranean commerce was protected because Portugal was at war with Algiers, but after Portuguese protection was withdrawn our seamen fared badly. If we urged England to fulfill the conditions of the treaty, we heard unpleasant reminders of debts that were still unpaid. Our French allies insulted us, reproached us, asked for bribes and captured our merchantmen until we were driven to fight. Apparently every power which knew the eaglet pecked him; but some remote powers did not know him. When Bainbridge sailed to Constantinople (ordered thither not by his own Government, but by Algiers), he found that nobody knew the United States of America, and was forced to explain that he came from the New World discovered by Columbus.

So ended the 18th century, and the 19th opened under worse rather than better auspices. An American vessel could scarcely enter a European port without being liable to capture under a British or French decree. If an English cruiser was short of men, she merely stopped an American merchantman and looked for deserters. A good seaman named John Smith was seized as undoubtedly an Englishman; a sailor named Hugh McDonald was claimed as a Scotchman, and James Murphy was necessarily an Irishman. The man's father and grandfather might have been born in America, but that made no difference. During our second war with Great Britain the Indians hoped to secure about half of the South; the Spaniards played into the hands of the British and Indians, and the Algerines resumed their former hostilities. Long after 1812 the South and Middle West were still battle-grounds for the red man and the pale face. For several decades we endured all sorts of ill treatment from the Spanish authorities in the West Indies.

The Republic started without money, without arms, without manufactures and without dignity. It had territory, but it was jeered at as land poor. Now it is surprised at its own size. The scars are still visible, or would be if one lifted the feathers, but the eagle feels no pain because he was mocked or insulted 80 or 90 years ago. While the mythical eagle renews his youth, the American eagle does not desire to do so. He was the victim of the world's barnyard, and now he is receiving compliments on all sides. When Hans Andersen wrote "The Ugly Duck" he never dreamed how admirably he was tracing the history of the United States of America.

The Most Ancient Artists.

London Chronicle.

Professor A. C. Haddon, writing under his initials, has been directing attention to the drawings of primitive man as represented on the walls of the Cave of Canbarelles, near Eyries (Dordogne). We have all been familiarized with the fact that early man could draw, and that, perchance to while away the tedium of the Winter nights in his cave dwellings, he etched pictures of the mammoth on the tusks of that elephant. The gravures of Canbarelles belong to the paleolithic period of man's evolution, or, in other words, to the "stone age." There are 100 engraved figures on the cave walls, and they vary from mere scratched outlines to deeply carved figures. There are given two figures in "A. C. H.'s" account of these primitive artistic attempts. One—that of a running reindeer—is really an outline sketch of much merit. Had I seen that sketch in the notebook of an artist of today, I would have credited it as an impressionist idea of what he saw. The other illustration is that of a mammoth. It is not so artistic as the sketch of the deer, but it is recognizable as a portrait of the elephantine neighbor of the man of the stone age. There are also many sketches of horse-like animals in the Canbarelles caves, some varying from others in such details as to suggest that different breeds or species of these mammals were known to the cave men.

Land Patent Approved.

WASHINGTON, March 30.—The Secretary of the Interior has approved a patent of 50,037 acres in the Seattle, Chehalis, Spokane, North Yakima and Walla Walla land districts, Washington, to the Northern Pacific.

Bank Safe Blown Open.

BAZILE MILLS, Neb., March 30.—The safe of the Bank of Bazile Mills was blown open last night and $1000 in cash and $700 in drafts stolen. The safe was ruined.

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Persons calling for these letters will please state date on which they were advertised, March 31. They will be charged for at the rate of 1 cent each.

WOMEN'S LIST.

Adams, Mrs Florence
Alexander, Mrs J
Albin, Mrs Ed
Archer, Mrs Joseph
Aranstein, Mrs S J
Armstrong, Miss M L
Austin, Miss J
Baitey, Miss Lulu
Ball, Miss Deddie
Barker, Mrs A A
Bates, Mrs Belle
Bellmont, Frankie
Bell, Miss M
Bell, Mrs Grant
Bowles, Miss Elizabeth
Boyd, Miss Margaret
Brydsen, Mrs
Briscoe, Mrs July
Bristow, Mrs Susie
Burrell, Mrs F A M
Burnett, Mrs J J
Burt, Mrs M C
Cerroll, Miss Trilby
Carpenter, Mrs E
Casey, Miss Dolly
Cole, Mrs M
Davidson, Miss Grace
Dunnbeller, Mrs
Egan, Miss Sarah
Elkins, Lou
Faulkner, Miss Nora-2
Fenton, Mrs May
Finch, Mrs M F
Folsom, Mrs W S
Ford, Carla Florence
Frye, Mrs Annie
Friedlander, Mrs M
Getz, Miss Kittie
Gerke, Miss Margaret
Gillette, Miss Mabel
Gilpin, Mrs A Thompson
Gilliland, Mrs Hattie
Glenville, Mrs E
Godfrey, Mrs Albertia
Guilliams, Miss Elva
Haines, Miss Lillian
Hamrich, Miss Bessie
Hanson, Miss Ida
Hardy, Mrs Hannah L
Harringon, Miss Kate
Henderson, Mrs L E
Herr, Miss Ida
Herriman, Miss Winifred
Hill, Miss Ounce
Holsman, Miss Emma
Howard, Miss Katheryne
Hughes, Miss Mary Sibley
Hunter, Mrs H
Joseph, Mrs C
Johnson, Miss Nettie
Koch, Mrs Eugenie
Layton, Mrs Margaret D
Lane, Miss Della
Lane, Mrs Leroy
Lowton, Mrs Mary
Lee, Mrs M F
Levine, Mrs S W-3
Lockwood, Mrs W J
Llewellyn, Miss Lulu
McDermaid, Miss Clair
McFarland, Miss Ina
McGivens, Mrs E
Mackay, Mrs Effie
Mackay, Mrs Bathia
McLeod, Mrs G H
Macneill, Miss Marion
Marshal, Miss Ada
Mayhew, Miss Gertrude
Merwin, Mrs A T
Mackley, Mrs Zitta
Miller, Mrs George
Miller, Mrs Clara
Montijo, Miss Josie
Moore, Mrs Zetta
Moore, Miss Anna
Moore, Mrs W M
Moore, Mrs Gertie
Neely, Miss Belle
Nichols, Miss Esther
Nugent, Miss Grace
O'Neill, Mrs Frankie
Paulsen, Miss Louise
Park, Mrs Ruth
Pederson, Mrs C F
Prinlis, Mrs May
Pratt, Miss Laura
Puckett, Mrs Joe
Randall, Elsie
Reese, Mrs Salome
Redden, Miss Lillian
Reese, Miss Amy-2
Rickey, Miss Minnie
Riggs, Inez
Ricker, Mrs Annie
Rillie, Marie
Rose, Miss F
Row, Miss Clara
Sain, Miss L
Scott, Mrs C
Scott, Miss Della
Scott, Miss Stella
Sexton, Miss Louise
Seney, Miss Alice
Searman, Mrs Annie
Shannon, Mrs J
Shannon, Miss A L
Slimsky, Mrs A
Smith, T M K
Smith, Mrs Tom
Smith, Miss Mary
Solar, Mrs C W
Stanley, Miss Etta
Stanton, Mrs R
Stark, Mrs S
Stone, Mrs F
Stratton, Elizabeth
Straight, Mrs Mary
Swomela, Miss Sophia
Swofford, Mrs B C
Tank, Miss Eva
Taylor, Mrs J
Turner, Miss Ines
Vaughn, Mrs P
Van Zante, Mrs Jennie
Veach, Miss Mattie
Voss, Mrs A B
Warren, Mrs A J
Warren, Mrs M E
Wells, Mrs Sallie T
West, Mrs Dona
West, Miss Lena
Wheelock, Kate Whist Club
Wiggins, Miss Celia
Wilcox, Miss Mary
Willman, Clara
Wilson, Mrs Tilly
Wilson, Mrs K

MEN'S LIST.

Achelpohl, Frank
Abbott, Irving-2
Abbott, Irving A
Adams, H K
Adams, A L
Allen, Dr T J
Amsbary, Arthur D-2
American Voltaic Co-5
Baeder, Rev Andrew
Balleroy, J J
Behrenz, Arthur
Betz, Carl
Bigham, Harry
Billingen, M J
Bissonette, J T
Blanker, A M
Boynton, C W Saw Co
Brimble, Mr
Bropy, J W
Brown, J R
Brown, W B
Brunell, Victor
Bunworth, William
Burgess, A N
Bush, V A
Cagewin, Alb E
Cumb, R E-2
Carroll, Philip
Charles, Edward
Christensen, J
Christy, Charles
Cloquet, E R
Colt, Joseph
Cole, Jules F
Copeland, Arthur
Cone, Dart
Crandall, G T, Jr
Dabney, J B
Daac, H A
Dampeer, J H
Davis, H W
Davis, Merton
Dixon, Dehomer Co
Doyle, G T
Donohue, Patrick
Draper, A S
Dunlap, William
Dunn, James
Edgar, James V
Ellis, Mr
Elliott, J N
Erimen, William
Erb, L J
Evans, A P
Farrell, B H
Farber, F W
Fellowa, D A
Fitzwater, Mr
Flory, S Mfg Co
Forrest Seed Co
Foster, Jay
Freshour, Robt A
Gallagher, Merton
Gaillard, Wm L
Gering, Frank
Germershausen, Albert
Glaser, G
Gorman, John L
Graff, Charlie A
Grogg, Fred
Halsey, Joe
Hanson, H
Harding, W D
Harness, Joe
Harmon, S F
Harris, G A
Hawkins, L B
Hawman, Chas
Headington, C F
Henderson, E R
Hewitt, Dixwell
Holesler, Dr
Holmes, Gust
Hoult, J F
Howell, D H
Howard, L M
Hunt, James A
Hunt, Prof, Trained Dog Show
Jackson, D D
Johnson, H
Jones, A
Jones, Tom
Klappenburg, Eli
Keinstein, Mr
Kennedy, Harry
Kersey, M B-3
McAdams, James
McClure, S
McCarron, Pat
McCoy, J F
MacDonald, Rod
McGregor, Prof P G
McGregor, Donald
McKay, Mr
McLeod, Geo H-3
Manning, Frank G
Marshall, John
Martin, A C-5
Martin, J E
Mason, James
Mason, Robert
Mason, James
Matteson, Dr A L
McMichler, R
Miller, Chas E
Miller, Wm
Moore, S C
Morton, Harry M, M D
Moran, M R
Murphy, James
Murphy, E W
Meyger, G W
Nilon, John
Niernhoff, Frans
Noel, Theodore
Northwest Purchasing Co
Norberg, John
Nugent, James
Olaffey, W L
Ormsby, R E
Osborn, C E
O'Donell, Martin
O'Brien, Larry
Oglesby, S J
Owiatt, Omar W
Ohle, Chas
Palm Whitman Co
Partridge, W J
Paterson, W V
Patterson, P C
Pennypacker, I R
Peterson, Charles P
Phelan, Chas
Piggott, J F
Potter, T B
Priestly, C A
Pratt, Marion S
Rally, Fred
Ralston, S D
Refenbereck, H J
Reeves, A P
Redsecker, Frank
Riedle, L W
Ripley, Henry G
Ricker, F L
Richards, H
Richards, O B
Robinson, Geo
Robertson, Bunce
Rodgers, E I
Ruffner, C H
Savage, Erle B
Schwartz, Karl
Scott, Z D-2
Scott, Walter P
Seitz, E
Seeb, Chas W
Shaffer, S M
Showell, Fred-2
Silver, Chester G
Small, Jacob E S
Smith, Frank
Smith, Perry W
Smith, Wayne P
Soderback, M J
Statler, B
Stern, Oly
Stewart, Charlie
Strouse, Lehman
Straight, John
Thebo, Arthur
Thatcher, R H
Truesdell, I B
Trumbell, Mr and Mrs B T
Trist Whist Club
Tripp, J W
Vallala George
Van Kuran, E R-2
Wade, R L
Wallace, Frank
Walkins, Chas
Kersey, M
Knight, R P
Knapp, J B
Lapp & Flishem
Larson, Wm
Lee, W A
Leitch, Geo
Lewis, Geo
Lewis, D M
Livingstone, R R
Lichtenstedt, Henry
Livingstone Chemical Co
Loyal, M K
Long, F M
Long, C W
Lowman, Charley
Lowe, Wm F
Ludwig, Allen
McIntyre, Hugh
Watson, Edwin
Wetzel, Julius
Welch, J S
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Wood, J S
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Word, Arthur
Zeinther, Joe

PACKAGES.

Hamrich, Miss Bessie (photo)
Meyers, Chris
Smith, Jack
Wing, Mrs Lillian

A. B. CROASMAN, P. M.

What Did the Electricity Cost?

New York Journal of Commerce.

Massachusetts is the source of most of the information accessible to the public regarding gas and electric lighting. The report of the Gas and Electric Lighting Commission of that state has just been issued, and shows among many other things, that the average price paid by consumers for coal gas to companies selling annually more than 30,000,000 feet each is $1 06. Omitting the large companies of Boston and Brookline the average is only $1 08. This includes many gas works of very moderate capacity. The average price paid for coal gas to other companies, concerns in small towns where the sales of each company are less than 30,000,000 feet in a year, is $1 65, but the average of all the coal gas companies in the state is $1 08. Of the electric light companies three did not earn their expenses last year and 26 others paid no dividends. Seventy-five companies supplied electricity only, 48 gas only and 23 both gas and electricity. The board investigates all accidents, and the report gives the particulars in 78 instances of escaping gas, which resulted in 36 deaths and 64 injuries, and of 12 fatal accidents from electricity.

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TRAVELERS' GUIDE.

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8:00 A. M.	For Maygers, Rainier, Clatskanie, Westport, Clifton, Astoria, Warrenton, Flavel, Hammond, Fort Stevens, Gearhart Pk., Seaside, Astoria and Seashore Express, Daily.	11:10 A. M.
7:00 P. M.	Astoria Express, Daily.	9:40 P. M.

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TRAVELERS' GUIDE.

O.R.&N.

OREGON SHORT LINE AND UNION PACIFIC

THREE TRAINS DAILY FOR ALL POINTS EAST

UNION DEPOT.	Leave.	Arrive.
CHICAGO-PORTLAND SPECIAL. For the East via Huntington.	9:00 A. M. Daily.	4:30 P. M. Daily.
SPOKANE FLYER. For Eastern Washington, Walla Walla, Lewiston, Coeur d'Alene and Gt. Northern Points.	6:15 P. M. Daily.	7:00 A. M. Daily.
ATLANTIC EXPRESS. For the East via Huntington.	8:50 P. M. Daily.	8:10 A. M. Daily.

OCEAN AND RIVER SCHEDULE.

FOR SAN FRANCISCO. SS. Columbia—Mar. 8, 18, 28. SS. Geo. W. Elder—Mar. 3, 13, 23.	From Ainsworth Dock. 8:00 P. M.	5:00 P. M.
FOR ASTORIA and way points, connecting with str. for Ilwaco and North Beach, str. Hassalo, Ash-street Dock.	8:00 P. M. Daily ex. Sunday. Sat. 10 P. M.	5:00 P. M. Daily, ex. Sun.
FOR CORVALLIS and way points, steamer Ruth, Ash-street Dock. (Water permitting.)	6:45 A. M. Mon., Wed., Fri.	6:00 P. M. Tues., Thurs., Sat.
FOR DAYTON, Oregon City and Yamhill River points, str. Modoc, Ash-street Dock. (Water permitting.)	7:00 A. M. Tues., Thurs., Sat.	3:00 P. M. Mon., Wed., Fri.

TICKET OFFICE, Third and Washington. Telephone, Main 712.

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EAST VIA SOUTH

SOUTHERN PACIFIC COMPANY — SUNSET OGDEN & SHASTA ROUTES

Leave	Depot Fifth and I Streets.	Arrive
*8:30 P. M. *8:30 A. M.	OVERLAND EXPRESS TRAINS, for Salem, Roseburg, Ashland, Sacramento, Ogden, San Francisco, Mojave, Los Angeles, El Paso, New Orleans and the East. At Woodburn (daily except Sunday), morning train connects with train for Mt. Angel, Silverton, Brownsville, Springfield, and Natron, and Albany Local for Mt. Angel and Silverton.	*7:45 A. M. *7:00 P. M.
*4:00 P. M.	Albany passenger ...	*10:10 A. M.
*7:30 A. M.	Corvallis passenger.	*5:50 P. M.
‖4:50 P. M.	Sheridan passenger.	‖8:25 A. M.

*Daily. ‖Daily except Sunday.

Rebate tickets on sale between Portland, Sacramento and San Francisco. Net rates $17.50 first class and $14 second class. Second class includes sleeper; first class does not.

Rates and tickets to Eastern points and Europe. Also JAPAN, CHINA, HONOLULU and AUSTRALIA. Can be obtained at Ticket Office, No. 254, cor. Washington and Third.

YAMHILL DIVISION.

Passenger Depot, foot of Jefferson street. Leave Portland daily 7:20 A. M., 12:30, 1:55, 3:25, 4:40, 6:25, 8:30 P. M. Daily except Sunday, 8:30, 9:40 A. M., 5:05, 11:30 P. M. Sunday only, 9 A. M.

Arrive Portland daily, 8:30, 10:50 A. M., 1:35, 3:10, 4:30, 6:15, 7:40, 10 P. M. Daily except Sunday, 6:35, 9:30, 10:50 A. M.; except Monday, 12:40 A. M.; Sunday only, 10:05 A. M.

Leave for Dallas daily except Sunday, 5:05 P. M. Arrive Portland 9:30 A. M. Passenger train leaves Dallas for Airlie Mondays, Wednesdays and Fridays at 3:50 P. M. Returns Tuesdays and Saturdays.

*Except Sunday.

V. A. SCHILLING, City Tkt. Agt. R. B. MILLER, Gen. Frt. & Pass. Agt.

NORTHERN PACIFIC

TIME CARD OF TRAINS

PORTLAND

	Leaves.	Arrives.
Overland Express	2:00 P. M.	7:00 A. M.
Twin City, St. Louis & Kan. City Special	11:30 P. M.	7:45 P. M.
Puget Sound Limited, for South Bend, Gray's Harbor, Olympia, Tacoma and Seattle	8:35 A. M.	5:20 P. M.

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For South-Eastern Alaska

Leave Seattle at 9 P. M.

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For further information, obtain folder. Right is reserved to change steamers or sailing dates.

AGENTS—N. POSTON, 249 Washington st., Portland; F. W. CARLETON, N. P. R. R. Dock, Tacoma; Ticket Office, 113 James st., Seattle. M. TALBOT, Comm'l Agt.; C. W. MILLER, Asst. Gen'l Agt., Ocean Dock, Seattle; GOODALL, PERKINS & CO., Gen'l Agts., San Francisco.

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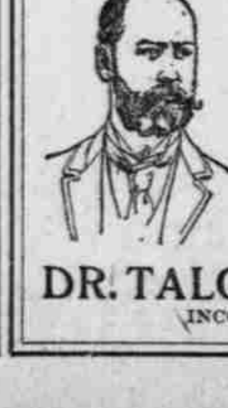

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