

PP&L Crew Studies Snow Survey Results

On the high shoulders of the Cascade mountains, far up in the headwaters of the Klamath, Umpqua and Rogue river watersheds, crews of Pacific Power and Light company probed into the deep snow to complete a survey of snow depth and moisture content that is made each month of the winter.

Bit by bit, as the data is compiled, it will be studied during the next few weeks by PP&L's hydrologists and power supply engineers.

The results will help the power company get estimates

of how much water will flow in the three rivers this spring and summer. The data is important to the men responsible for scheduling hydroelectric production at Pacific Power's 22 powerhouses located along the streams.

Knowing how much water may be coming in the weeks ahead helps assure conservation of the supply so every drop can be used and not wasted. If there is more than enough to supply customers, some can be sold or exchanged with neighboring utilities. One alternative plan

would put the power into a reserve account with other power companies. It then can be called back when needed in the future in a dry year.

The aim is to get the most efficient output from the more than 400,000 kilowatts of generating capacity on the three rivers, the company's engineers explain.

The snow surveys, and why they are made and how they are used, are little-known phases of a power company's hydroelectric system operations. The data help convert rainfall and snow into elec-

tricity that can be used at the flip of a switch miles away in the homes of customers or their places of work.

Given Odd Names

The locations of the snow course markers include spots with such interesting identifying names as Whaleback, Windigo Pass and Trap Creek on the Umpqua watershed; Annie Springs, Rye Spring Spur and Silver Burn on the Rogue, and familiar Klamath spots such as Bly 101 Ranch, Billie Creek Divide and Fort Klamath.

Compiling the data on moisture stored in the snow at these sites is only part of the chore.

Months ago, the company's hydraulic engineers at Portland put on electronic data processing tape the data re-

presenting average flow patterns of past years for the Klamath river. From this a schedule of operation for each powerhouse is prepared. Each month, beginning in January, a new river flow forecast is calculated for each stream.

Recalculate Charts

Once the first moisture data from the current season's work were available, new operating schedules were computed. These were based on whether the latest forecast indicated a flow of above or below normal.

Later, if it rains twice as much as normal in June on the Klamath watershed, the utility's engineers can plan to get more power from its plants on that river. With more water in reserve, the generators can run longer each day.

Actual river flow is also measured daily at many gauges, according to PP&L's power superintendent, Phil Humphreys, former Medford resident. Changes in production schedules can be made again within a few hours.

Work Reduces Costs

If July and August are unusually dry, the engineers again recalculate their programs, and arrange to obtain power from other sources.

"All of these calculations are based on formulae that are endlessly complex, but they mean that our hydroelectric system can be operated more efficiently, with each plant being used to best advantage to help hold down the cost of providing power service to our customers," Humphreys noted.



MEASURE CONTENT—Measuring the water content of snowfields in the high Cascades at 36 isolated locations is the job of Pacific Power and Light company's crews, now completing their last survey of the season. Joe Rupp, left, and Neil Mayfield wear bearpaw snowshoes when out of the snow tractor. Hollow aluminum tube takes sample that adds to data PP&L needs to calculate flows of Umpqua, Rogue and Klamath, where it operates 22 powerhouses.

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STUB
To be torn off by the Chairman

SAMPLE BALLOT

JUDICIARY BALLOT

JACKSON COUNTY, OREGON

At the Primary Nominating Election to be held on the 18th day of May A.D., 1962

- Make a cross (X) or a check mark (✓) inside a voting square between the number and the name of each candidate voted for.
- CANDIDATES FOR NOMINATION FOR NONPARTISAN JUDICIAL OFFICES.**
- FOR JUDGE OF THE SUPREME COURT, Position No. 6 Vote for One**
- 42 ARNO H. DENECKE. "Maintain integrity in our Supreme Court. Elect Judge Denecke."
- 43 LYLE R. WOLFF. "Continue justice under law. Elect Baker County's experienced Circuit Judge."
- FOR JUDGE OF THE OREGON TAX COURT, Vote for One**
- 44 PETER GUNNAR. "Incumbent."
- 45 RAYMOND L. JONES.

Facsimile of the Primary Ballots Published Pursuant to Provisions of ORS 249-356

STUB
To be torn off by the Chairman

SAMPLE BALLOT

Official Primary Nominating Election Ballot for the Democratic Party for 56A—Medford Precinct JACKSON COUNTY, OREGON AT THE PRIMARY NOMINATING ELECTION TO BE HELD ON THE 18th DAY OF MAY A.D., 1962

- Make a cross (X) or a check mark (✓) inside a voting square between the number and the name of each candidate voted for.
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| <p>FEDERAL, STATE AND DISTRICT</p> <p>FOR UNITED STATES SENATOR, Vote for One</p> <p>13 <input type="checkbox"/> WAYNE MORSE. "As always, principle above politics."</p> <p>12 <input type="checkbox"/> CHARLES E. GILBERT. "Veteran, honest unionism, promote Oregon industry. Public office is a public trust."</p> <p>FOR REPRESENTATIVE IN CONGRESS, FOURTH CONGRESSIONAL DISTRICT, Coos, Curry, Douglas, Jackson, Josephine, Lane and Linn Counties. Vote for One</p> <p>16 <input type="checkbox"/> CHARLES O. PORTER. "Your Congressman for four years. Ready to serve you again."</p> <p>17 <input type="checkbox"/> ROBERT W. STRAUB. "Democrat, Oregon Senator; back Kennedy-Roosevelt programs; more jobs - payrolls - social security!"</p> <p>14 <input type="checkbox"/> ROBERT B. DUNCAN. "A Democratic fighter for human rights. Against new taxes. Works for you."</p> <p>15 <input type="checkbox"/> PATRICK M. FLYNN. "To insure political growth and prestige, your support should be invested judiciously."</p> <p>FOR GOVERNOR, Vote for One</p> <p>20 <input type="checkbox"/> ROBERT Y. THORNTON. "Democrat, present Attorney General. Supports Roosevelt-Kennedy programs, medicare, Opposes sales tax."</p> <p>21 <input type="checkbox"/> M. A. (Cap) YEGGE. "But many that are first shall be last; and the last first."</p> <p>18 <input type="checkbox"/> DAN H. COX. "If my safety program prevents one accident I shall feel successful."</p> <p>19 <input type="checkbox"/> WALTER J. PEARSON. "Qualified by experience - Liberal regarding people's rights - Conservative with taxpayers' dollars."</p> <p>FOR COMMISSIONER OF THE BUREAU OF LABOR, Vote for One</p> <p>23 <input type="checkbox"/> NORMAN O. NILSEN. "Your present Commissioner; experienced, dedicated to serving Oregon's working people and employers."</p> <p>22 <input type="checkbox"/> VIC DAVIS. "Energetic - Efficient - Economical - My best efforts for all the people in Oregon."</p> <p>FOR STATE SENATOR, FIFTH SENATORIAL DISTRICT, Jackson County, Vote for One</p> <p>24 <input type="checkbox"/> HENRY F. PADGHAM, Jr. "For realistic solutions to problems of the Oregon country."</p> <p>FOR STATE REPRESENTATIVE, NINETEENTH REPRESENTATIVE DISTRICT, Jackson County, Vote for Three</p> <p>26 <input type="checkbox"/> CHARLES W. CRARY. "Will fight to protect the public interest."</p> <p>27 <input type="checkbox"/> JAMES A. REDDEN. "Be ready with Redden."</p> <p>25 <input type="checkbox"/> ALVA N. (AJ) BRADFORD. "Responsible decisions on the issues facing our growing, changing state."</p> | <p style="text-align: center;">COUNTY</p> <p>DEMOCRATIC CANDIDATES FOR NOMINATION FOR COUNTY OFFICES.</p> <p>FOR COUNTY ASSESSOR, Vote for One</p> <p>28 <input type="checkbox"/> THAD W. HATTEN. "Present office holder, seeking reelection on his record."</p> <p>FOR COUNTY CLERK, Vote for One</p> <p>29 <input type="checkbox"/> E. M. MADDEN. "Continued courtesy, economy and efficiency."</p> <p>FOR COUNTY COMMISSIONER, Vote for One</p> <p>31 <input type="checkbox"/> LARRY SHEEHAN. "If elected, I will do the job to the best of my ability."</p> <p>30 <input type="checkbox"/> EDWARD "Old Gunner" KRON. "KRON will CARE for the COUNTY."</p> <p>FOR COUNTY JUDGE, Vote for One</p> <p>34 <input type="checkbox"/> EVAN E. RASMUSSEN. "YOUNG ENOUGH TO BE PROGRESSIVE-OLD ENOUGH TO BE QUALIFIED."</p> <p>35 <input type="checkbox"/> K. C. "Swee" WERNMARK. "FOR: Freedom to Voters, NOT Bureaucratic Control, Home Rule, Zoning-NOT YET!"</p> <p>32 <input type="checkbox"/> JOHN L. GREGORY. "The right man for County Judge."</p> <p>33 <input type="checkbox"/> RALPH A. JAMES. "You can be sure, Experience, Efficient Faithful Impartial majority rule administration."</p> <p>FOR COUNTY SHERIFF, Vote for One</p> <p>37 <input type="checkbox"/> BERLE E. "Sevs" STEPHENS. "Experienced and trained in all requirements for the office of Sheriff."</p> <p>36 <input type="checkbox"/> HAROLD DONALD OTTOSEN. "For impartial, effective and economical administration, based on extensive experience."</p> <p style="text-align: center;">PRECINCT</p> <p>DEMOCRATIC CANDIDATES FOR ELECTION FOR PRECINCT COMMITTEEMAN AND WOMAN.</p> <p>FOR DEMOCRATIC PRECINCT COMMITTEEMAN, Vote for One</p> <p>FOR DEMOCRATIC PRECINCT COMMITTEEWOMAN, Vote for One</p> |
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STUB
To be torn off by the Chairman

SAMPLE BALLOT

Official Primary Nominating Election Ballot for the Republican Party for 56A—Medford Precinct JACKSON COUNTY, OREGON AT THE PRIMARY NOMINATING ELECTION TO BE HELD ON THE 18th DAY OF MAY A.D., 1962

- Make a cross (X) or a check mark (✓) inside a voting square between the number and the name of each candidate voted for.
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| <p>FEDERAL, STATE AND DISTRICT</p> <p>FOR UNITED STATES SENATOR, Vote for One</p> <p>15 <input type="checkbox"/> EDWIN R. DURNO. "Everything needed for defense; elsewhere, less Federal spending; less Federal dictation."</p> <p>16 <input type="checkbox"/> HAROLD M. LIVINGSTON. "Which Republican can win in November? 'Dr. Livingston, I presume.'"</p> <p>17 <input type="checkbox"/> SIG UNANDER. "Less talk - more work for better job and business opportunities in Oregon."</p> <p>12 <input type="checkbox"/> J. BACALOFF. "Large corporations must be responsible and obey Federal monopoly and securities laws."</p> <p>13 <input type="checkbox"/> GLENN E. BRIXEY. "End red ink, red tape, red threats; rush realistic defenses."</p> <p>14 <input type="checkbox"/> R. F. COOK. "A Goldwater Conservative."</p> <p>FOR REPRESENTATIVE IN CONGRESS, FOURTH CONGRESSIONAL DISTRICT, Coos, Curry, Douglas, Jackson, Josephine, Lane and Linn Counties. Vote for One</p> <p>18 <input type="checkbox"/> CARL FISHER. "Legislative experience . . . Energetic . . . Firm . . . Fair."</p> <p>FOR GOVERNOR, Vote for One</p> <p>20 <input type="checkbox"/> MARK HATFIELD. "A working Governor, a seasoned, trusted administrator who practices good clean government."</p> <p>19 <input type="checkbox"/> H. G. ALTVATER. "Opposed to the stealing of water from river basins of Oregon."</p> <p>FOR COMMISSIONER OF THE BUREAU OF LABOR, Vote for One</p> <p>21 <input type="checkbox"/> ALFRED (Pat) BLAIR. "Make this a Department of Labor and Industry as it should be."</p> <p>FOR STATE SENATOR, FIFTH SENATORIAL DISTRICT, Jackson County, Vote for One</p> <p>23 <input type="checkbox"/> DONALD L. STATROS. "Has the ability, the character, and the experience Oregon needs."</p> <p>22 <input type="checkbox"/> L. W. (Lynn) NEWBRY. "Farmer, businessman, veteran who stands for sound, economical government."</p> <p>FOR STATE REPRESENTATIVE, NINETEENTH REPRESENTATIVE DISTRICT, Jackson County, Vote for Three</p> <p>25 <input type="checkbox"/> JOHN R. DELLENBACK. "Re-elect an honest, capable, experienced legislator."</p> <p>26 <input type="checkbox"/> ALEXANDER A. DUMAS. "To serve the best interests of our people of Jackson County."</p> <p>24 <input type="checkbox"/> EDWARD BRANCHFIELD. "Interested in and understands problems of the people of Jackson County."</p> | <p style="text-align: center;">COUNTY</p> <p>REPUBLICAN CANDIDATES FOR NOMINATION FOR COUNTY OFFICES.</p> <p>FOR COUNTY ASSESSOR, Vote for One</p> <p>27 <input type="checkbox"/> HERB HUNTER. "Your problems will be my opportunity to Serve You."</p> <p>FOR COUNTY CLERK, Vote for One</p> <p>28 <input type="checkbox"/> BERTH P. HOPKINS. "Dedicated to Honest, Effective Public Service."</p> <p>FOR COUNTY COMMISSIONER, Vote for One</p> <p>31 <input type="checkbox"/> MELVIN J. LATTIE. "Less Taxes, Better roads, Equal Treatment for all in Jackson County."</p> <p>32 <input type="checkbox"/> FLOYD R. McCABE. "I will Work for Good Roads."</p> <p>33 <input type="checkbox"/> FRED L. WALKER. "To bring a businessman's approach to the big business of Jackson County."</p> <p>29 <input type="checkbox"/> DAVID S. BLAIR. "To Keep Government and Voting Rights in The Hands of The People."</p> <p>30 <input type="checkbox"/> DONALD E. "Don" FABER. "Fair, efficient, economical County Government, against Home Rule under present form."</p> <p>FOR COUNTY JUDGE, Vote for One</p> <p>35 <input type="checkbox"/> HARRY E. HAWK. "For progressive administration."</p> <p>36 <input type="checkbox"/> EARL M. MILLER. "Continued progressive County Government."</p> <p>34 <input type="checkbox"/> HOMER A. CONGER. "Efficient, economical and decisive administration with minimum restriction of individual rights."</p> <p>FOR COUNTY SHERIFF, Vote for One</p> <p>39 <input type="checkbox"/> WILLIAM H. MANNING. "Constable, Jackson County, Educated, Experienced, Tried and Proven in Sheriff's Responsibilities."</p> <p>40 <input type="checkbox"/> ARTHUR M. SAYARD. "Economy, Integrity of Service with an extensive Background of Experience."</p> <p>41 <input type="checkbox"/> JACK REY SIDES. "Enforcement according to the laws, 24 hours a day."</p> <p>37 <input type="checkbox"/> TIM J. HORN. "Sincere Respect For The Individual's Dignity-Devotion only to Duty and Country."</p> <p>38 <input type="checkbox"/> 'DE' A. LEIGH. "BEST QUALIFIED-8 yrs. Businessman, 7 yrs. Chief Deputy Sheriff, War Veteran."</p> <p style="text-align: center;">PRECINCT</p> <p>REPUBLICAN CANDIDATES FOR ELECTION FOR PRECINCT COMMITTEEMAN AND WOMAN.</p> <p>FOR REPUBLICAN PRECINCT COMMITTEEMAN, Vote for One</p> <p>FOR REPUBLICAN PRECINCT COMMITTEEWOMAN, Vote for One</p> |
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