

Grand Coulee...

Continued from Page 1

tion during the initial seven-year period of the Grand Coulee project has been only fair at best. It is, however, constantly improving as the many unanticipated problems are being identified and effectively solved by carefully designed and executed research.

The 1942 runs over Rock Island dam contained the first returning mature progeny of transplanted stock — namely, chinook and blueback in their third year. In 1943, transplants dominated the runs and, by 1944, when the hauling was discontinued, the runs were essentially all progeny of relocated stock.

'Exceeds Expectations'

In general, the spring runs of chinook and steelhead have shown a strong tendency to return to the upper stream areas where they were reared or released as fingerlings. The blueback will return to the lakes but have been handicapped by the low water barriers of late summer. Many of the relocated, late-run chinook have shown a tendency to revert to spawning grounds in the lower courses of the streams; areas which, presumably, are best suited to their racial requirements. All available evidence indicates that the relocation of the upper-Columbia salmon and steelhead runs to areas below the Grand Coulee dam was successful to a degree exceeding expectations.

In fact, there is valid evidence for the belief that the Columbia river blueback runs have been materially increased through the various measures

employed in the relocation procedure. The blueback salmon, with very few exceptions, spawn in the area above Rock Island dam. Because of this fact, practically the entire blueback run of the Columbia has been involved in the service's Grand Coulee Fish-Maintenance project. The total blueback run to the Columbia each year can be estimated by adding the Bonneville dam counts for this species and the commercial catch below Bonneville (this dam has an elaborate set of fish ladders and locks which cost 7 million dollars to install which insure the passage of fish over the dam on up the river to Grand Coulee). This data (table 24) shows: the decline in the total run that occurred between 1940 and 1943 (prior to the time when the relocation could have been a factor); the continued and sharp decline during the years of 1944 and 1945 as a consequence of the extremely low spawning escapement of 1941 (when only 949 adult fish entered the Grand Coulee area); and the spectacular recovery in both the commercial fishery and the spawning escapement during 1946 and 1947 (all progeny of relocated parents).

CONCLUSIONS:

One principal objective of the Grand Coulee project — namely, the relocation of the upper-river salmon and steelhead runs from the main stem to the tributaries entering the Columbia below and the Grand Coulee dam site — has been successful and the general level of production during the initial phase of the program has been satisfactory.

The outlook for rehabilitating the salmon populations of the Grand Coulee area through adequate protection, natural spawning, and effective artificial propagation appears possible but difficult. Many of the factors responsible for the original depletion of the Okanogan, Methow, Entiat, and Wenatchee salmon runs must eventually face a series of major multiple purpose water-use projects — one of which is now under construction. Whether the early-running Columbia river salmon races — which are dependent upon a suitable fresh-water environment for a significant fraction of their life-span — successfully can surmount the increasing development of the Columbia river and its tributaries is questionable.

Current Project

(A 1950 report, "The Fishery Development program in the Lower Columbia River," was instigated in 1949 and "consists

of the maximum development and management of the fish runs in tributaries of the lower Columbia river basin. To effectuate this program approximately a 10-year period and 20 million dollars will be required, of which one million dollars have been appropriated for expenditure in fiscal year 1949. Essentially, the program is based on the cooperative efforts of the states of Oregon and Washington and the U.S. fish and wildlife service in (1) removal of obstructions to permit passage of fish, (2) abatement of pollution, (3) screening of water diversions and construction of fishways, (4) transplanting of upriver runs, (5) extension of artificial propagation, and (6) establishments of fish refuges in which conflicting developments would not be permitted. There is sufficient reason to believe that with the effectuation of this program, the populations of salmon and trout in the Columbia river and its tributaries can be maintained." The stated progress and conclusions that follow are quoted from the report.)

CURRENT PROGRESS

During the first year of operation, plans have been drafted and construction begun on Sandy hatchery in Oregon and the Klickitat and Spring creek salmon hatcheries in Washington. Stream gauges and thermographs have been installed on several streams. Fishways are being constructed at three major falls. Various other obstructions are being cleared from tributaries in Oregon and Washington.

CONCLUSIONS

Experience and past studies indicate that the objectives of the Lower Columbia River Fishery Development program can be attained. If continued support, cooperation and collaboration can be assured by state and federal development agencies, as well as by private and public utilities throughout the progress of the program, there is reason to believe the anadromous salmon and steelhead group populations in the Columbia river and its tributaries can be maintained at a satisfactory level.

(Next Week: A summary of the preceding six articles and conclusions drawn from the evidence as to the feasibility of "Plan A" for the Rogue river basin.)



CONFERENCE OPENS FRIDAY

Comets Burn Grizzlies Twice

The Ashland Grizzlies, who were rudely two-timed by the Crater Comets last weekend, will open their Southern Oregon conference schedule Friday night when they face Grants Pass on the Caveman court. The same two clubs will play a second game Saturday on the

Junior high floor here.

The double defeat in close games at the hands of the Central Point team wasn't quite so embarrassing for the Grizzlies as would appear on the surface. The Crater coach — Leonard Warren — has developed a top notch basketball squad which currently holds an enviable 8-2 mark for the season.

Duplicate Win

Crater and Ashland battled down to the wire in both games with the Comets winning at home Friday night, 55-46, and then invaded Ashland Saturday night to duplicate the feat, 54-46.

The twin loss left the Ashland team with a 2-4 record to tote into conference play and as a result they'll be handed the underdog role against the Cavemen.

Grants Pass started the season with but one veteran — big John Harbour. But replacements up from the jayvees along with some welcome transfers have been moulded into another strong outfit by Coach Ray Davis.

Last weekend, the Cavemen dropped two close tilts to the Marshfield Pirates, 45-42 and 43-42.

Elect Dawkins...

Continued from Page One

possible a full program of Elizabethan music and offer training to musicians in this period. Besides incidental program music to the plays, a full concert of Elizabethan music is planned for sometime during the festival.

Also in the budget for the coming season, the board will continue for the second year in the granting of 10 room and board scholarships to competent young actors.

Plan Bench Seating

The board also decided to go ahead with a bench seating plan to replace the borrowed chairs of past seasons. A comfortable bench seat was shown the directors by Treasurer Ralph Burgess, Sr., which is backed and will seat several people. Enough of these benches will be constructed to seat over 700 people. Burgess told the group that he has had cooperation from several lumber firms for material to start construction of the benches.

Other capital improvements include two new units to give the ample Elizabethan stage more lighting effects.

The board noted that 30,000 brochures are now being printed and will be used for publicity as soon as they are finished.

by winning 4 from Oak St. Tankers, and O'Brien Motors split 2 and 2 with Peter's Union 76.

Gene Morris rolled high game of 217, and high series of 578. Bob Pritchard picked the 4-5 split; Harley Lane the 5-10; and Lee Crowe, Fritz Koester, Chuck Birchfield, Dick Westerfield, and Bud Curtis the 3-10.

Eatons Open Stock at the News Review.

American League

Liners Sand	3	1
Wiley - Reinholdt	3	1
Mistletoe Lumber	1	3
Phil Bryant's Service	1	3

The second half of the American League started with the 2 teams that finished low the first half taking the lead.

Liners Sand and Gravel took 3 from Mistletoe Lumber Co., and Wiley-Reinholdt won 3 from Phil Bryant's Service.

Frank Laws rolled high game of 221, and Chuck Birchfield had high series of 599.

Harry Melick picked the 4-5-7 and 5-6 splits; Tommy Laird the 4-5-7; Frank Driscoll the 3-6-8-10; Red Waldrup the 5-7-9; Frank Laws the 4-7-9 and 3-10; Chuck Birchfield the 5-8-10, 5-7, and 3-10; and Les Myers the 3-10.

Elks League

Yanks	4	0
Sox	2	2
Dem Bums	2	2
Browns	0	4

The Yanks started off in the lead of the Elks league by winning 4 from the Browns, and the Sox and Dem Bums split 2 and 2.

Harvey Bergstrom rolled high game of 235 and high series of 586.

Buster Forney picked the 5-8-10 split; George Sikes the 3-10; and Rusty Winn the 2-7.

Classic League

Catons Garage	3	1
Royal Crown	3	1
Marshall - Wells	1	3
Tiny's Body Shop	1	3

Catons took 3 from Marshall Wells and Royal Crown won 3 from Tiny's.

Frank Driscoll started his first game with nine strikes to get 278 for high game and also had high series of 625. Wayne Campbell and Dick Westerfield picked the 3-10 split and John Kufner the 4-5.

Major League

Selby's Chevrolet	4	0
O'Brien Motors	2	2
Peter's Union 76	2	2
Oak St. Tankers	0	4

Selby's Chevrolet started off in the lead of the Major League

CLASSIFIED

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