"Hen Commission becard XICAPPENDIX Bushed difficulty in rehabili-

Obstructions on the Fraser River watershed, the investigation and improvement of which is recommended by the International Pacific Salmon Fisheries Commission.

| Stream | Name of Obstruction and Location | Description and Importance | Remedial Measures |
|---|---|--|--|
| 1. Fraser River | Hell's Gate Canyon | Impassable obstruction at certain water levels. Principal spawning grounds of the Fraser system are controlled largely by conditions at this point. | at post |
| suspensional ages of dayadite and witness of disc | nowing (4 is the control of | point. Two rapids 900 ft. apart. Both serious obstructions to salmon migration below 20 ft. level.* Over 34 of available spawning area above this point. Formerly bulk of escapement spawned above this obstruction. | river. |
| 32,000,000 cac- | to aditainging a la | escapement spawned above this obstruction. Rapids in constricted, canyon-bound channel. Records of sockeye delayed from 1 to 21 days. Blockade forms above 1ft. level on gauge. Commonly inflicts heavy mortality on important Birkenhead run. | water and |
| 4. Chilcotin River | Farwell Canyon. 11 miles from mouth. | on important Birkenhead run. Constricted, bedrock channel with fall of 4 to 6 ft. at obstruction. Blockade above 3 ft. level on gauge. Over 15% of Chilko ** run normally lost at this obstacle. | tuntions. |
| 5. Chilko River | Keighley Holes 7 miles above confluence of Chilcotin River. | ft. level on gauge. Over 15% of Chilko ** run normally lost at this obstacle. Channel between high dirt banks. Large boulders in bed cause fall of 5 ft. at obstruction. Chilko run ** layed at all common water levels. | Remove boulders and the control of t |
| 6. Quesnel River | Rapids 4 miles below Likely. | obstruction. Chilko run layed at all common water levels. Obstruction caused by tailings from Boullion mine. Present channel is constricted by dumped rock so that velocity of flow is too great for normal passage of salmon. | channel and reservant conditions. |
| 7. Stellako River] | Falls 4 miles above Fraser Lake. | dumped rock so that velocity of flow is too great for normal passage of salmon. A 3 ft. falls located in spawning area is ascended with difficulty. Elimination of obstruction would encourage extension of spawning area to desirable streams above. | Reduce II. |
| 8. Bowron River | Gravel bars, mouth of Bowron River. | difficulty. Elimination of obstruction would encourage extension of spawning area to desirable streams above. At low water stages there is I not sufficient water on gravel bars to allow salmon to ascend. | Oredge one main change for entire flow of river. Concentrate flow into one main channel. |
| | Shallow channel. Mouth of Morris Creek. | Similar to above. At low of water channel nearly dry near caused by seepage near mouth. Run commonly demouth. Run commonly debelore able to enter. | oncent channel main channel |

^{*}Hell's Gate gauge.
**Chilko run composes over 80% total escapement, 1940-1941.