

EXHIBIT 3

Carrying Capacity

15 CFS – Small nursery raceways, 20 total. (10 empty sections).

10 raceways could be used. Based on the Flow Index, 9,880 pounds could be raised, but based on the Density Index of 0.3, only 8,492 pounds could be raised.

35 CFS - Small nursery raceways, all 20 could be used.

- Since all raceways could be used merely double the poundage above.

15 CFS --- 8X80 X3 foot raceways--5.5 CFS/RW – 2.4 fish/lb --- O2 9.1 ppm saturation (use 1.1 ppm 1st, 1.0 2nd & 1.0 3rd)

- 3 rows (ponds) with 3 raceways in each row. 9 rows are empty due insufficient water flow
- 1st raceway has inflow of oxygen of 9.1 ppm, the 2nd has an inflowing of O2 of 8.0, & the 3rd an inflowing oxygen of 7.0 ppm.
- Volume of raceway 1920 cubic feet
- Water inflow is 2470 gpm (5.5 /cfs), water temperature is 59 F; Oxygen saturation is 9.1 ppm
- Density index (DI) is 0.3 due to the fact that fish being raised are for Idaho Power Company
- Determine FI & DI

Flow Index

1st Row weight for each raceway – 1st is 8,393; 2nd is 7630; & 3rd is 7630, total pounds 23,653.
Since we have 3 rows with 9 raceways we have 23,653 lbs X 3 = 70,959 total pounds

Density Index

However, the program shows that total pounds allowed by the DI is only 53, 847. Thus, the DI in this case is the limiting factor. These fish are being raised for Idaho Power Co

35 CFS 8X80 X3 – 5.5 CFS/RW – 2.4 fish/lb --- O2 9.1 ppm saturation (use 1.1 ppm 1st, 1.0 2nd & 1.0, 3rd)

Flow Index –oxygen

- Have 7 rows of ponds, 4 used for Idaho Power DI = 0.3 and 3 ponds for Production at DI of 1.0.

- Idaho Power Fish total poundage is 82,796 pounds. Four rows with 3 raceways (7,345; 6,677 & 6,677 pounds = 20,699 pounds X 4 ponds = 82,796 pounds total . Density was somewhat limiting at 5,760.
- Production fish, 3 rows of ponds for processing DI = 1.0. Poundage is the same as above (82,796 lbs) except Density is not limiting at 19,200 lbs.

55 CFS 8X80 X 3 –5.5 CFS/RW – 2.4 fish/lb --- O2 9.1 ppm saturation (use 1.1 ppm 1st, 1.0 2nd & 1.0, 3rd).

Flow Index

- 10 Ponds are loaded the same as with 35 CFS, except each is receiving 5.5 CFS water flow. Now there are 10 rows (ponds) with 3 raceways per pond. We have 4 rows of Idaho Power fish and 6 rows of Production fish each with 3 raceways.
- 8079 - D - **5760**; 7,345- D - **5760**; 7345 -- D -**5760**; 7345 D -**5760** total pounds
 - Idaho power 4 ponds 8079 lbs, 7345 lbs, 57345 lbs & 7345 lbs. Total = 30,114 pounds. Note that density (D) is somewhat limiting.
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 - Production 6 ponds. – poundage is the same in the production raceways (30,114 lbs) except at a Density index of 1.0, density isn't limiting.

Density Index

NOTE: Production fish are usually raised at a Density Index of about 1.0 which would allow about three times the poundage as at a DI of 0.3 as long as sufficient water flow was available to provide needed oxygen. Using a Density Index of 0.3 is a stipulation in place by Idaho Power Company since the fish are used for planting in reservoirs and rivers and not for slaughter.

75 CFS 8X80 X 3 –5.5 CFS/RW – 2.2 fish/lb --- O2 9.1 ppm saturation (use 1.1 ppm 1st, 1.0 2nd & 1.0, 3rd).

Because it is only possible to run 5.5 CFS down each row of the 8 X 80 ft raceways it would require using one of these raceways to run all additional water to the CTR ponds.

CTR Ponds:

15 CFS, 180 X 16 X3 ft , 7800 ft³/RW – 0.9 fish/lb --- O₂ 7ppm. • 3 rows (ponds) with 3 raceways in each row. One row of ponds used for solids removal.

- water has been used through 10 lodge ponds so water flowing to CTR ponds is low in oxygen. 1st raceway has inflow of oxygen of 7.0 ppm, the 2nd has an inflowing of O₂ of 6.0, & the 3rd an inflowing oxygen of 5.5 ppm.
- Volume of raceway 7,800 cubic feet
- Water inflow is 6750 gpm (15 CFS), water temperature is 59 F; Oxygen concentration is 7.0 ppm flowing into the first raceway and 6 ppm flowing into the 2nd one.
- Density index (DI of 1.0 can be used since fish will be processed).
- Determine FI & DI

CTR 1st pond ; 15 CFS – 6,750 gpm

Flow Index

1st Row - raceway 1

28, 031 lbs oxygen limiting

Density Index

54,757

1 st Row, raceway 2 –

Flow Index – Oxygen limiting

28,031 lbs

Density Index 1.0

32,744 lbs

CTR ponds 35 CFS: (15,750 gpm)

1st Row, raceway 1

Flow Index

65,707 lbs

Density Index Used DI 1.0

109,148

CTR 1st pond ; 55 CFS (24,750 gpm) or split into another pond with 3 raceways - used this 12,375 gpm.

1st row, raceway 1

Flow Index

51,393 lbs

Density Index

32,744 lbs

2nd row, raceway 2

Flow Index oxygen

51,393 lbs

Density Index

32,744 lbs

CTR 1st pond ; 75 CFS (33,750 gpm)

Since it is not possible to run more water down through the large raceways (8 X 80 X 3 ft) to get 20 CFS down to the CTR ponds it would be necessary to use the number 1 large raceway to carry 25 CFS to the CTR ponds. This would be unused water and thus be saturated with oxygen. It would be distributed evenly into the 2 CTR ponds having 3 raceway's each. It could also be sent through the first CTR row of ponds and the outflow from the 8 X80X3 foot raceways sent directly to the 3rd pond with 3 raceways. This flow of fresh water would result in a production of 168,191 lbs. 25.5 CFS = 11,475 gpm. All fish in CTR ponds were programmed to be held at a Density Index of 1.0

- Vol. of 2 CTR raceways 7,800 each (15600 gpm)
- Will split production between two raceways
- Oxygen into and from 1st raceway is 9.1 ppm to 7.1 ppm
- Oxygen into and from 2nd raceway is 7.1 to 5.5
- Di – 1.0
- Fish size 0.9/lb

- First raceway can carry 95,305 lbs – Density would allow 109,148 so the pond is loaded pretty good
- Second pond can carry 76,247 pounds - Density would allow 109,148.

Note: 8 X 80 raceways

1. At 35 CFS - 12 ID power & 9 raceways at DI of 1.0 for production (3 empty)
2. At 55 CFS – 12 sections for ID power & 18 sections can be used for production fish (no empty)
3. At 75 CFS – 12 sections for ID power, & 18 sections for production. One row will be used to convey first use water to CTR block (no empty)

CTR raceways

1. At 35 CFS the CTR raceways are not needed for Idaho Power fish. and at 55 & 75 CFS raceways are not needed for Idaho Power fish and the total 9 sections can be used at a DI of 1.0