

**Okanagan Basin Technical Working Group Meeting
February 23, 2010
Penticton Lakeside Resort**

Okanagan Basin 2010 Water Outlook

by

Oleg Ivanov

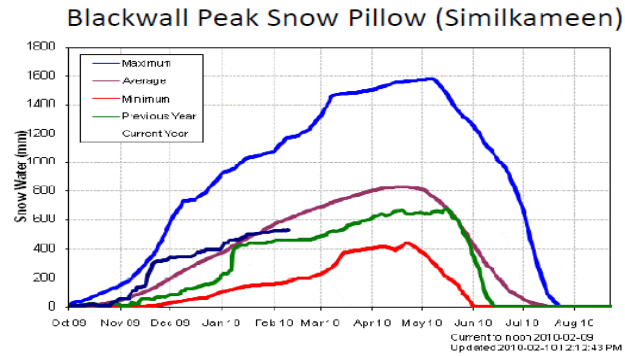
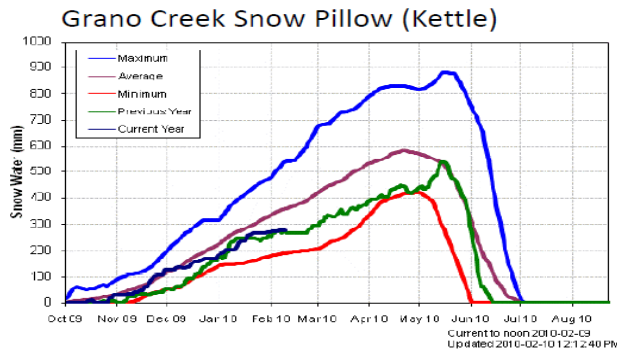
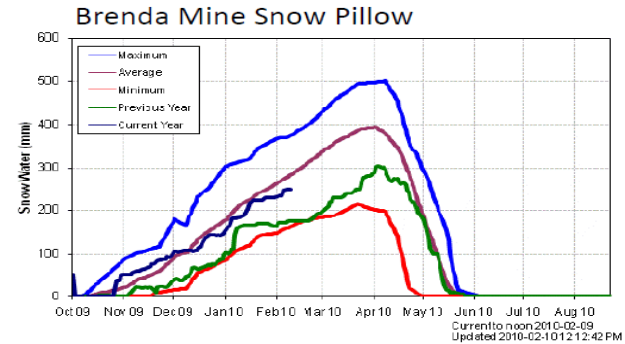
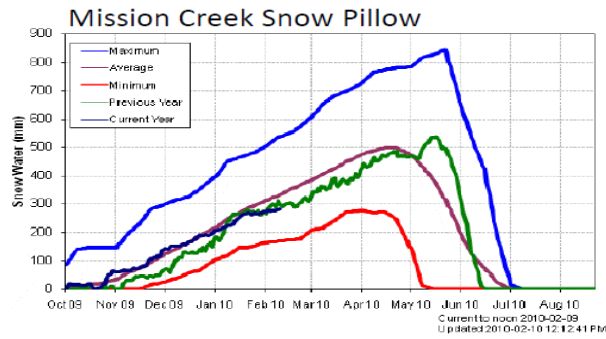
Water Stewardship Division, Ministry of Environment

Penticton

2010 FWMT Status

- 2010 in-season model initiated (Margot Stockwell)
- Feb 1st – July 31st Volume Inflow Forecast
 - 371 million m³ with a standard deviation of 108 million m³
 - Well below normal (about 70% of normal)
 - Follows well below normal inflows in 2009

River Forecast Center





OKANAGAN Drainage Basin

| Snow Course Name and Number | Elev. metres | Feb 2010 | | Historic, Water Equivalent (mm) | | | | Yrs of Record | |
|-----------------------------|-----------------|-----------------------------|----------------|---------------------------------|------------|------------|------------|---------------------|----|
| | | Snow Water Equivalent mm | % of Normal | 2009 mm | 2008 mm | Max. mm | Min. mm | | |
| SUMMERLAND RESERVOIR | 2F02 | 1280 | 148 | 85 | 130 | 146 | 307 | 65 | 45 |
| MC CULLOCH | 2F03 | 1280 | 99 | 79 | 113 | 90 | 196 | 63 | 73 |
| OYAMA LAKE | 2F19 | 1340 | 86 | 67 | 113 | 83 | 193 | 31 | 41 |
| POSTILL LAKE | 2F07 | 1370 | 99 | 67 | 135 | 93 | 243 | 73 | 59 |
| TROUT CREEK (WEST) | 2F01A | 1430 | 147 | 104 | N/A | N/A | N/A | N/A | 23 |
| BRENDA MINE | 2F18 | 1460 | 183 | 83 | | | 386 | 84 | 23 |
| BRENDA MINE | 2F18P | 1460 | 230 | 87 | 162 | 247 | 368 | 148 | 28 |
| ISLAHT LAKE | 2F24 | 1480 | 200 | 85 | 134 | 230 | 364 | 124 | 28 |
| GREYBACK RESERVOIR | 2F08 | 1550 | 173 | 108 | 165 | 114A | 269 | 60 | 39 |
| ISINTOK LAKE | 2F11 | 1680 | 102 | 77 | 90 | 79 | 307 | 26 | 44 |
| MACDONALD LAKE | 2F23 | 1740 | 290 | 91 | | | 411 | 132 | 14 |
| MISSION CREEK | 2F05P | 1780 | 271 | 87 | 266 | 248 | 495 | 152 | 38 |
| GRAYSTOKE LAKE | 2F04 | 1810 | 200 | 87 | | 178Z | 324 | 128 | 10 |
| MOUNT KOBAY | 2F12 | 1810 | 242 | 120 | 121 | 154 | 373 | 43 | 43 |
| SILVER STAR MOUNTAIN | 2F10 | 1840 | 466 | 92 | 448 | 547 | 229 | 721 | 51 |

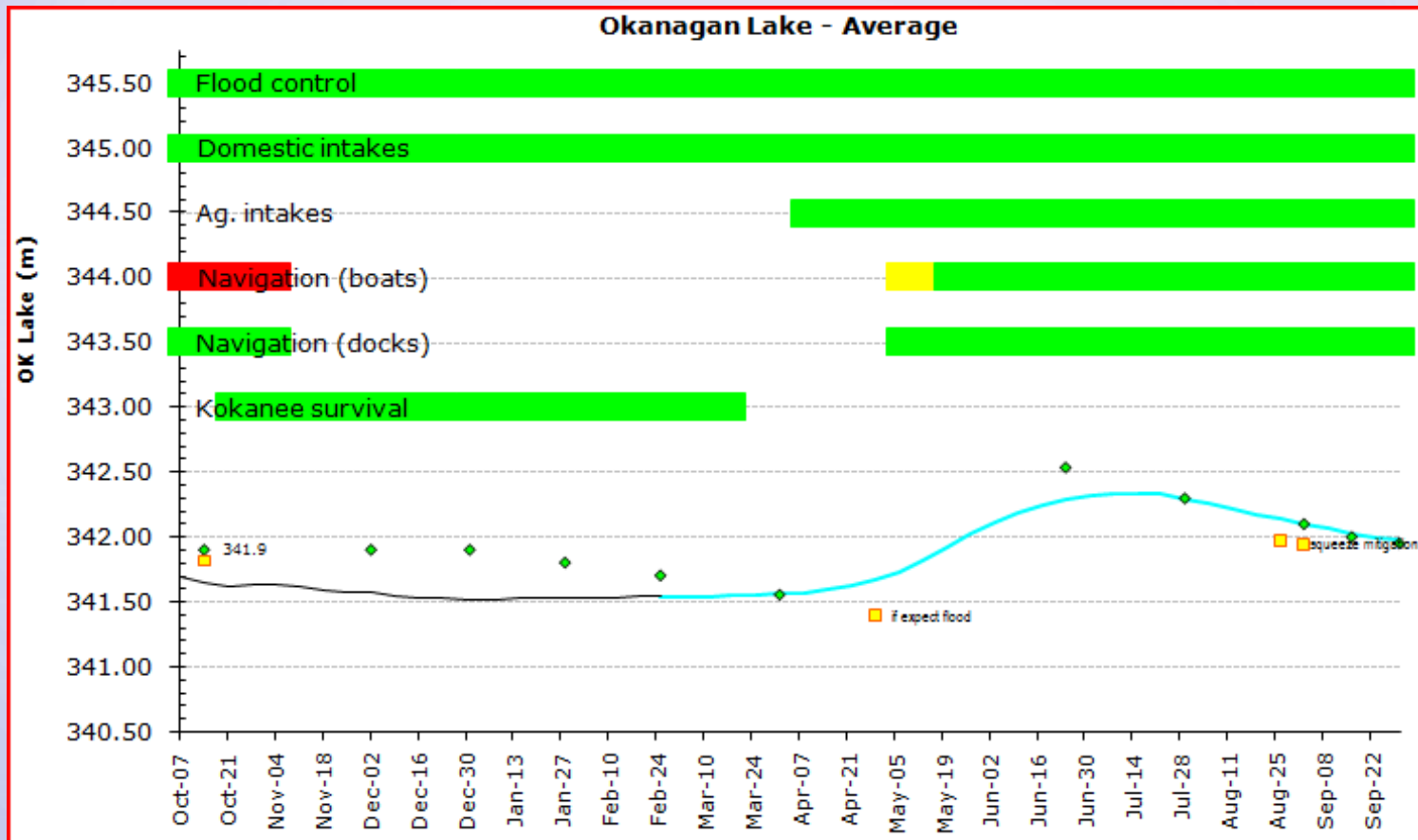
KETTLE Drainage Basin

| Snow Course Name and Number | Elev. metres | Feb 2010 | | Historic, Water Equivalent (mm) | | | | Yrs of Record | |
|-----------------------------|-----------------|-----------------------------|----------------|---------------------------------|------------|------------|------------|---------------------|----|
| | | Snow Water Equivalent mm | % of Normal | 2009 mm | 2008 mm | Max. mm | Min. mm | | |
| FARRON | 2B02A | 1220 | 184 | 79 | 204 | 183 | 346 | 63 | 36 |
| MONASHEE PASS | 2E01 | 1370 | 185 | 76 | 282 | 184 | 364 | 122 | 50 |
| GRAND CREEK | 2E07P | 1860 | 266 | 76 | 251 | 293 | 465 | 180 | 12 |

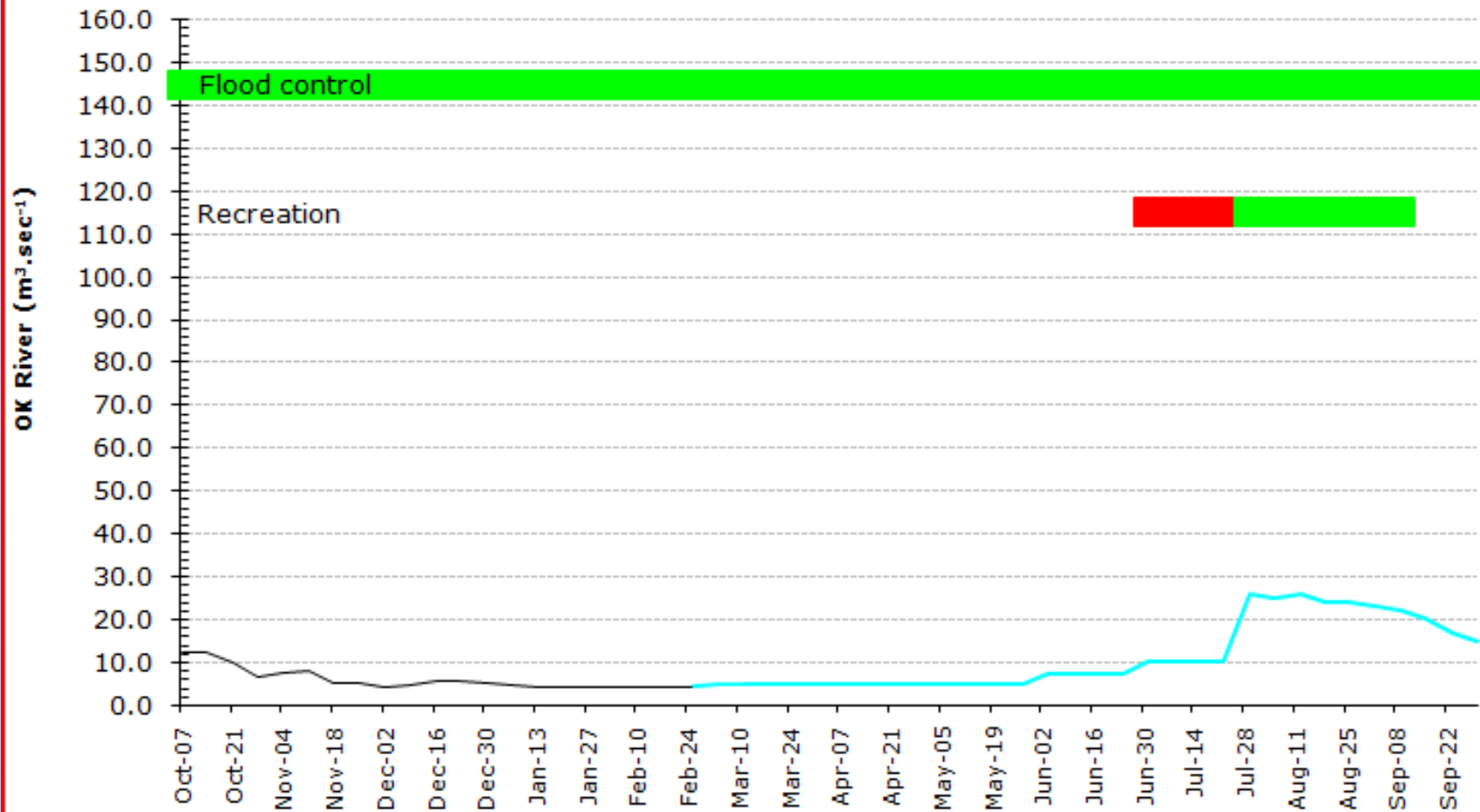
SIMILKAMEEN Drainage Basin

| Snow Course Name and Number | Elev. metres | Feb 2010 | | Historic, Water Equivalent (mm) | | | | Yrs of Record | |
|-----------------------------|-----------------|-----------------------------|----------------|---------------------------------|------------|------------|------------|---------------------|----|
| | | Snow Water Equivalent mm | % of Normal | 2009 mm | 2008 mm | Max. mm | Min. mm | | |
| FREEZEOUT CREEK TRAIL | VVA11 | 1070 | 152 | 68 | 251 | 274 | 462 | 13 | 39 |
| HAMILTON HILL | 2G06 | 1490 | 158 | 61 | 108 | 167 | 411 | 91 | 46 |
| MISSEZULA MOUNTAIN | 2G05 | 1550 | 110 | 63 | 65 | 120 | 284 | 60 | 43 |
| ISINTOK LAKE | 2F11 | 1680 | 102 | 77 | 90 | 79 | 307 | 26 | 44 |
| LOST HORSE MOUNTAIN | 2G04 | 1920 | 122 | 74 | | 76A | 335 | 70 | 48 |
| BLACKWALL PEAK | 2G03P | 1940 | 525 | 88 | 454 | 563 | 1076 | 159 | 42 |

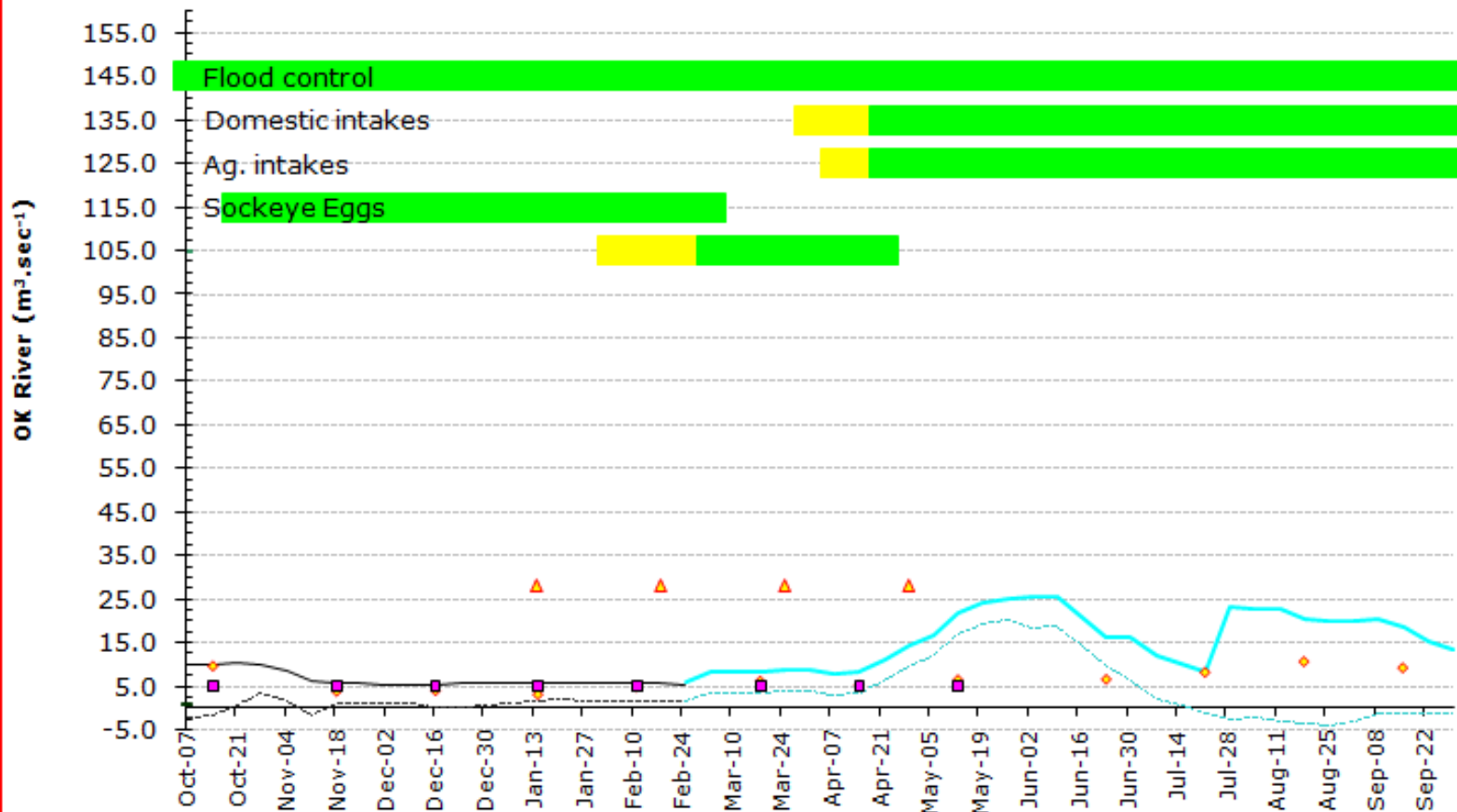
FWMT 2009-2010



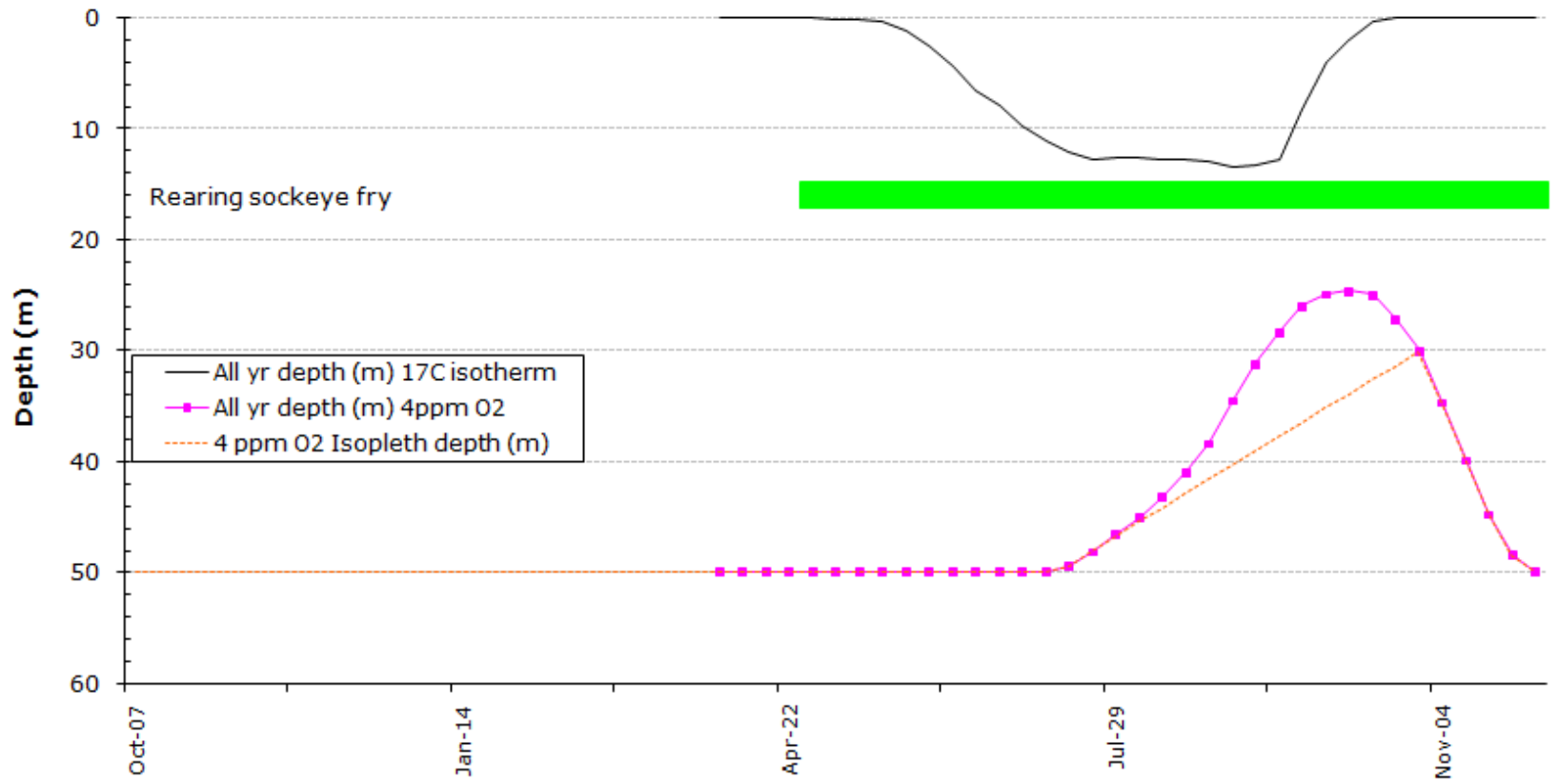
Okanagan River at Penticton - Average



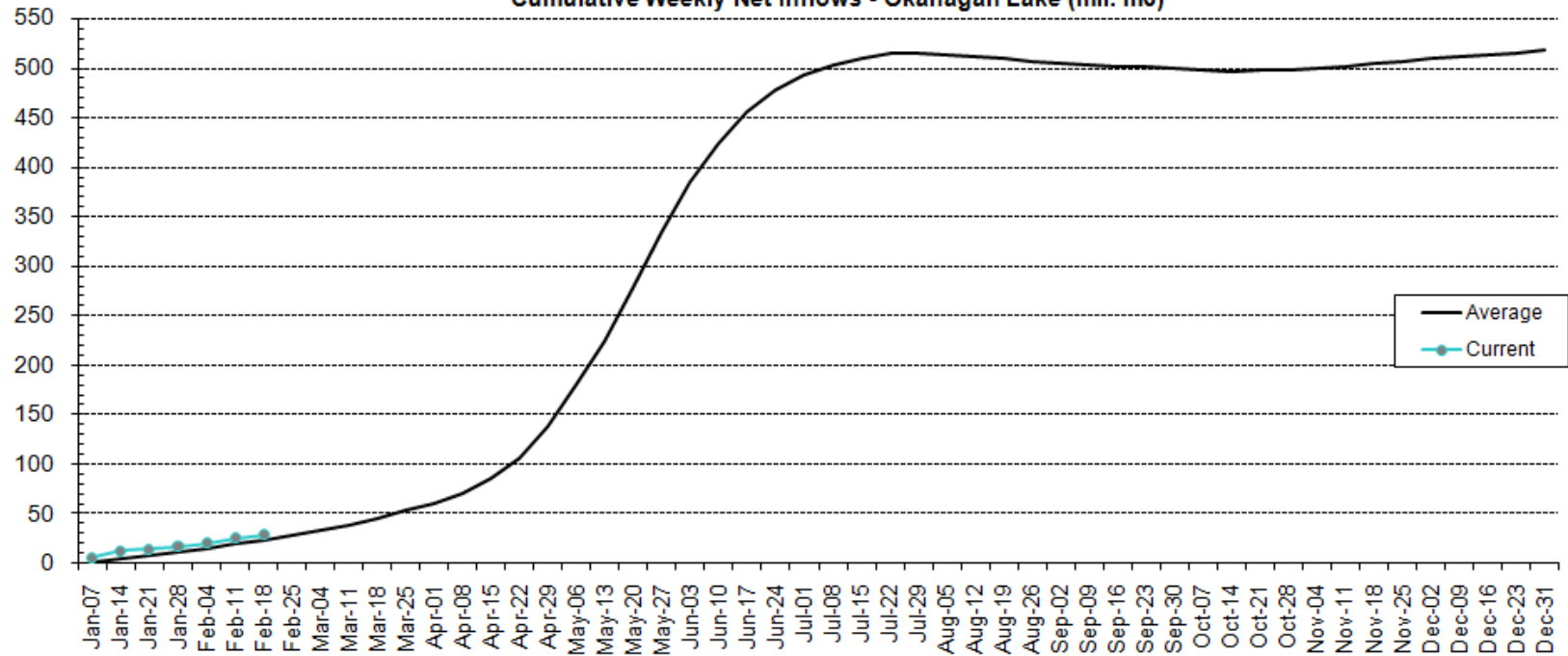
Okanagan River at Oliver - Average



Osoyoos Lake - Average



Cumulative Weekly Net Inflows - Okanagan Lake (mil. m3)





Next Steps

- RFC Mar 1st – July 31st inflow forecast ~ March 7th
- Conserve!