Potential Conversion Projects Map Key

Map Identification Number and Site Name and/or Location	Canal Company that Could Serve Site	Number of Possible Acres [1]	Rate Requirement Based on 3/4 Inch Per Acre (cfs) [2]	Canal Capacity Availability for Project	Ratio of Average Depth to Water Compared to Highest Lift (RATIO)	WORKING GROUP NOTES	Range of Average Depth to Water In Wells (Based on ESPA Model) (ft)	Estimated Lift from Canal to Highest Point of Irrigated Ground per Quadrangle Mapping (ft)	Excess Capacity Details	Comments
1 - Hazelton Butte	Milner Gooding, North Side, or Directly from Milner Pool	8627	129.40	Year Round	287 / 270 **(1.06)**		261 to 313	0 to 270	150 cfs additional capacity possible on average year from Milner Gooding Canal. Additional capacity available May 1 to early June and after Aug 20th. 400 - 500 cfs capacity available after September 1st. **If Milner Gooding Canal or North Side Is used they could supply water to H & P, but not the East End A & B Project.**	Milner Gooding and North Side canals can supply water to this site. Representatives from both companies indicated this is the best possible site on their system. Water can also be accessed from the Milner Pool.
2 - H & P Farms	Milner Gooding	1261	18.91	Year Round	314 / 90 **(3.48)**		312 to 315	0 to 90	150 cfs additional capacity possible on average year from Milner Gooding Canal. Additional capacity available May 1 to early June and after Aug 20th. 400 - 500 cfs capacity available after September 1st. **This site could not be fully serviced if both the West End A & B and Hazelton Butte sites are serviced from the Milner Gooding Canal.**	Milner Gooding can supply water to this system. They claim this is a good site location.
3 - East Declo	Burley Irrigation District (BID)	9192	137.88	Seasonal	130 / 240 **(0.54)**		95 to 165	10 to 240	Approximately 140 to 200 cfs available except during critical flow periods. Critical flows generally occur between June 15th and July 15th.	Representatives from the Burley Irrigation District (BID) state that this site has high potential for conversion to surface water use. **However, there are some legal issues involved with the Snake River Basin Adjudication that will need to be resolved first before the project can be initiated.**
4 - East End A & B Project	None	5232	78.48	Year Round	154 / 53 **(2.91)**		128 to 180	20 to 53	Project will be limited by water availability in Lake Walcott and the infrastructure required for the project. Dependent on system capacity and water availability out of Lake Walcott	This project proposes to divert directly out of Lake Walcott.

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5 - West End A & B Project	Milner Gooding	6434	96.50	Year Round	264 / 190 **(1.38)**		234 to 294	10 to 190	Possible year round use with some work to system. 150 cfs additional capacity possible on average year. Additional capacity possible May 1 - early June, and after Aug 20th. 400 - 500 cfs available after September 1st. **Year Round availability is dependent on whether the Hazelton Butte site diverts from the Milner Canal or directly out of the Milner Pool.**	Milner Gooding can supply water to this system. Representatives indicate this project is a good site location.
6 - Gooding Butte	Milner Gooding	1544	23.16	Partial Year Round and Partial Seasonal	133 / 240 **(0.55)**		116 to 150	0 to 240	Very limited capacity. Possible excess capacity between May 1 and early June, and additional capacity after August 20th.	Milner Gooding Canal system is very limited below Shoshone. This project would require some work on the existing canal system to be successful.
7 - Malad Gorge	Milner Gooding	2216	33.23	Partial Year Round and Partial Seasonal	160 / 100 **(1.60)**		134 to 186	-80 to 100	Very limited capacity, possible excess capacity between May 1 and early June, and additional capacity after August 20th.	Milner Gooding Canal system is very limited below Shoshone. This project would require some work on the existing canal system to be successful.
8 - South Wendell	North Side	20816	312.23	Partial Year Round and Partial Seasonal	129 / 50 **(2.57)**		58 to 199	0 to 50	10 to 15 additional cfs can be delivered through most laterals. System capacity is limited between July and August. 30% to 40% may be available April through June and 20% to 30% available from September through October. **There may not be enough capacity in the system to deliver to South Wendell, East Wendell, and Flat Top Butte. Various small projects within these three sites will need to be considered.**	The North Side Canal system is capacity limited at this point. There is potential to accommodate smaller conversion projects throughout the system, but they should be considered on a case by case basis. Small individual conversion projects only.

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9 - East Wendell	North Side	5749	86.24	Partial Year Round and Partial Seasonal	183 / 0 **(183.00)**		157 to 210	-267 to 0	10 to 15 additional cfs can be delivered through most laterals. System capacity is limited between July and August. 30% to 40% may be available April through June and 20% to 30% available from September through October. **There may not be enough capacity in the system to deliver to South Wendell, East Wendell, and Flat Top Butte. Various small projects within these three sites will need to be considered.**	The North Side Canal system is capacity limited at this point. There is potential to accommodate smaller conversion projects throughout the system, but they should be considered on a case by case basis. Small individual conversion projects only.
10 - Flat Top Butte	North side	11170	167.56	Partial Year Round and Partial Seasonal	302 / 140 **(2.16)**		205 to 398	0 to 140	10 to 15 additional cfs can be delivered through most laterals. System capacity is limited between July and August. 30% to 40% may be available April through June and 20% to 30% available from September through October. **There may not be enough capacity in the system to deliver to South Wendell, East Wendell, and Flat Top Butte. Various small projects within these three sites will need to be considered.**	The North Side Canal system is capacity limited at this point. There is potential to accommodate smaller conversion projects throughout the system, but they should be considered on a case by case basis. Small individual conversion projects only.
11 - Pleasant Valley	Aberdeen Springfield	28181	422.71	Partial Year Round or Partial Seasonal	180 / 200 **(0.90)**		68 to 291	0 to 200	Based on normal years, 150 cfs of capacity is available all year. Approximately 420 cfs of capacity available April 1 to May 5th, 560 cfs available after August 26th. Available capacity increases from August to September. **The capacity of this system is dependent on the development of Pleasant Valley, Big Bend, Rockford Canal, or East Shelley projects.**	Aberdeen Springfield may have some excess capacity on normal or wet years in their canals. However, current users would maintain priority. Some minor work on canal banks could provide additional capacity to system. All three sites have possibilities.

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12 - Big Bend	Aberdeen Springfield	19104	286.56	Partial Year Round or Partial Seasonal	195 / 520 **(0.37)**		54 to 335	0 to 520	Based on normal years, 150 cfs of capacity is available all year. Approximately 420 cfs of capacity available April 1 to May 5th, 560 cfs available after August 26th. Available capacity increases from August to September. **The capacity of this system is dependent on the development of Pleasant Valley, Big Bend, Rockford Canal, or East Shelley projects.**	Aberdeen Springfield may have some excess capacity on normal or wet years in their canals. However, current users would maintain priority. Some minor work on canal banks could provide additional capacity to system. All three sites have possibilities.
13 - Rockford Canal	Aberdeen Springfield	6990	104.85	Year Round or Seasonal	92 /40 **(2.30)**		57 to 127	20 to 40	Based on normal years, 150 cfs of capacity is available all year. Approximately 420 cfs of capacity available April 1 to May 5th, 560 cfs available after August 26th. Available capacity increases from August to September. **The capacity of this system is dependent on the development of Pleasant Valley, Big Bend, Rockford Canal, or East Shelley projects.**	Aberdeen Springfield may have some excess capacity on normal or wet years in their canals. However, current users would maintain priority. Some minor work on canal banks could provide additional capacity to system. All three sites have possibilities.
14 - East Shelley	Peoples or Aberdeen Springfield	23605	354.07	Partial Year Round or Partial Seasonal	120 / 150 **(0.80)**		49 to 191	10 to 150	Peoples Canal runs at full capacity in June and July, but may have 200 cfs capacity available before June 1st, 80 cfs in August, and 120 cfs in September. On normal water years, Aberdeen Springfield has 150 cfs excess capacity. This capacity might be available all year, and more might be possible between April-May and after Mid-August. **The capacity of this system is dependent of the development of Pleasant Valley, Big Bend, Rockford Canal, or East Shelley projects.**	This area is generally supplied by Peoples Canal, but Aberdeen Springfield could supply some water for this system if needed. Peoples Canal only delivers water from the canal to Lateral Water User Associations, so several entities may be involved in the process.

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15 - End of New Sweden	New Sweden	3573	53.59	Variable	94.5 / 60 **(1.58)**		57 to 132	0 to 60	Water delivery is very difficult at this location on the system due in part to numerous sink holes. This project is at the end of the New Sweden system. Project viability **is also dependent on development of Martin Canal Site and Oakland Canal Site.**	This part of the canal system receives water from the Porter canal which can only operate when the Snake River is at specific flows. Only small conversions are possible on this part of the system.
16 - Martin Canal Site	New Sweden	2219	33.29	Partial Seasonal	217 / 100 **(2.17)**		147 to 287	-30 to 100	Approximately 24 cfs capacity available until mid-May and possibly 21 cfs from mid-August through the end of the season. Canal capacity is **dependent on the development of End of New Sweden and Oakland Canal Sites.**	This site is feasible, but is limited by the capacity of a flume and the canals on the system. Minor work can be done to increase system capacity. However, the western edge of the canal system has several sink holes, so delivery could be a problem without lining canals.
17 - Oakland Canal Site	New Sweden	7889	118.34	Partial Seasonal	282 / 220 **(1.28)**		218 to 345	20 to 220	There could be approximately 20 cfs excess capacity available year round on good water years only. During good water years, 80 cfs additional capacity is possible through mid-May and 70 cfs possible after mid-August. **Additional canal capacity is dependent on the development of End of New Sweden and Martin Canal sites.**	This is the best site for the New Sweden system. However, the western edge of the canal system has several sink holes, so delivery could be a problem without lining canals.
18 - Osgood Canal Site	Osgood Canal	7887	118.30	Partial Year Round and Partial Seasonal	301 / 150 **(1.50)**		261 to 340	25 to 150	Approximately 50 cfs additional capacity is available in May, and 30 cfs is available through June. In July, the capacity is limited to approximately 10 cfs. The excess capacity increases to 40 cfs in August through September, and 80 cfs in October.	Water is pumped into the Osgood Canal, so the pumping costs should be included in the conversion costs. To total capacity of the canal is 120 cfs.
19 - Butte Market Lake Site	Butte Market Lake	27919	418.79	unknown	276 / 380 **(0.73)**		137 to 415	20 to 380	Unknown	Contact has been made with Butte Market Lake Canal Company, but a response to capacities of the system has not been returned at this time.

[1] The number of potential acres associated with each site were determined using aerial photography and estimated maximum reasonable lift capabilities for several of the associated lands. Actual acres will need to be determined by field verification and owner participation.

[2] The Rate Requirement is the maximum diversion rate required to deliver water to several users in a piped delivery system for sprinkler irrigation. It was calculated based on 3/4 of an inch per acre in accordance with information provided from Randy Bingham of Burley Irrigation District.