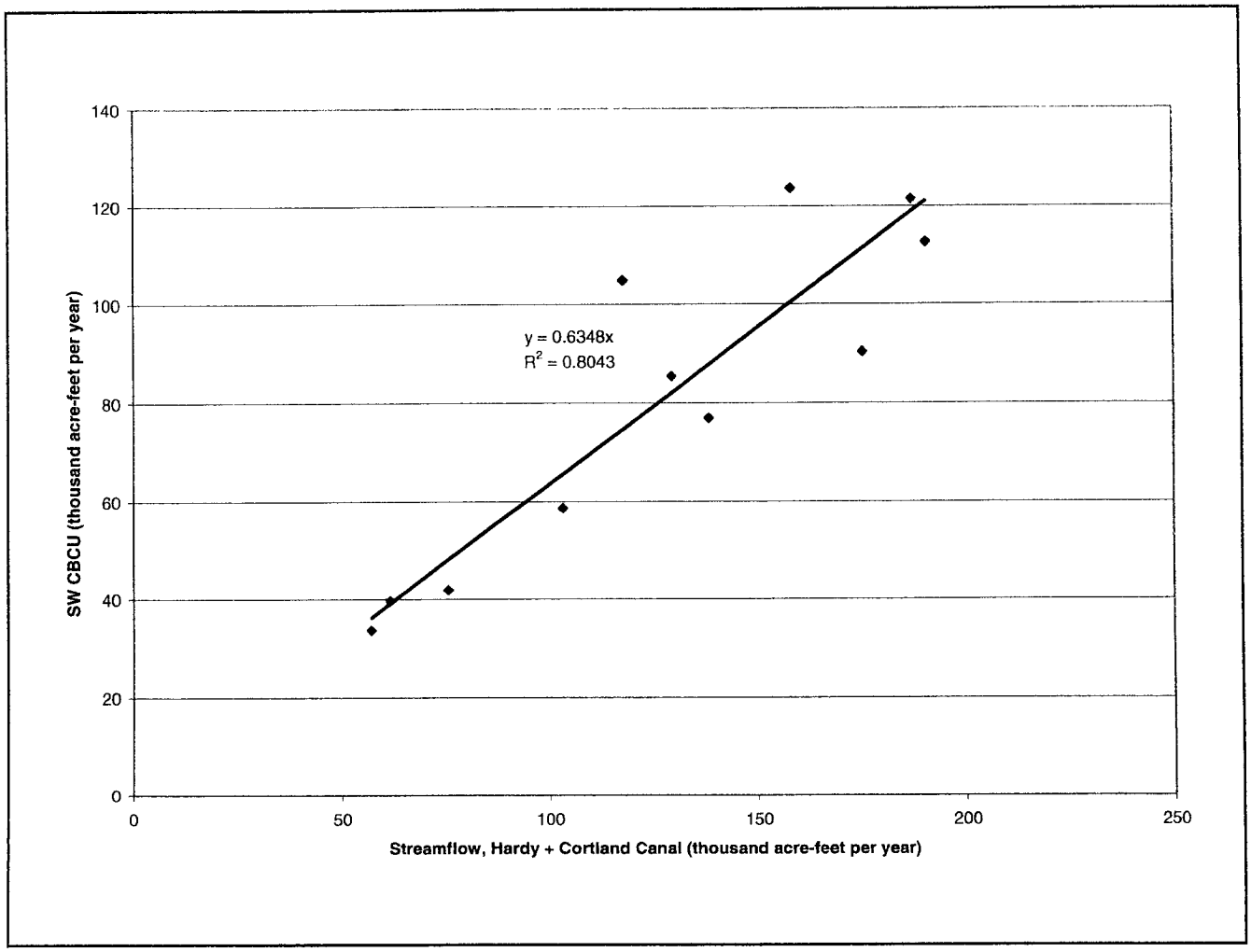

140
120
100
80
60
40
20
0
SW CBCU (thousand acre-feet per year)
y = 0.6348x
R2 = 0.8043
0
50
100
150
200
250
Streamflow, Hardy + Cortland Canal (thousand acre-feet per year)

Jim Schneider
7/18/07
RR neg group

2012 - average

CBCU - 25,000 reserve

Allocation Reduction	GW Impact Reduction	GW Impact CWCBCU	Projected SW Hoagland	Projected SW CBCU	Total CBCU	SW Lease Available	SW Lease Needed
None	0	174,000	117,000	74,000	248,000	49,000	4,000
1 Inch	3,500	170,500	120,500	76,500	247,000	51,500	3,000
2 Inch	5,500	168,500	122,500	77,500	246,000	52,500	2,000
3 Inch	9,000	165,000	126,000	80,000	245,000	55,000	1,000
4 Inch	12,000	162,000	129,000	82,000	244,000	57,000	0
5 Inch	15,000	159,000	132,000	84,000 (83,000)*	243,000 (242,000)	59,000 (58,000)	0

SW Allotment = 83,000
GW Allotment = 161,000
Total Allotment = 244,000

* SW Use Capped

Project allocation under X conditions (using a regression on recent years & he gets 55% gallocations.

3w ≈ 5"/ac

2020 - average

Allocation Reduction	GW Impact Reduction	GW Impact	Projected SW	Projected SW CBCU	Total CBCU	SW Lease Available	SW Lease Needed
None	0	178,000	108,500	69,000	247,000	44,000	10,500
1 Inch	4,500	173,500	113,000	71,500	245,000	46,500	8,500
2 Inch	8,000	170,000	116,500	74,000	244,000	49,000	7,500
3 Inch	13,000	165,000	121,500	77,000	242,000	52,000	5,500
4 Inch	17,500	160,500	125,000	79,500	240,000	54,500	3,500
5 Inch	22,500	155,500	130,000	82,500 (80,500)*	238,000 (236,000)	57,500 (55,500)	0

SW Allotment = 80,500
GW Allotment = 156,000
Total Allotment = 236,500

* SW Use Capped

2012 - dry

Allocation Reduction	GW Impact Reduction	GW Impact	Projected SW	Projected SW CBCU	Total CBCU	SW Lease Available	SW Lease Needed
None	0	163,500	78,500	50,000	213,500	25,000	28,000
1 Inch	2,500	161,000	81,000	51,500	212,500	26,500	27,000
2 Inch	5,000	158,500	83,500	53,000	211,500	28,000	26,000
3 Inch	8,500	155,000	87,000	55,000	210,000	30,000	24,500
4 Inch	12,000	151,500	90,500	57,500	209,000	32,500	23,500
5 Inch	14,500	149,000	93,000	59,000	208,000	34,000	22,500

SW Allotment = 63,000
GW Allotment = 122,500
Total Allotment = 185,500

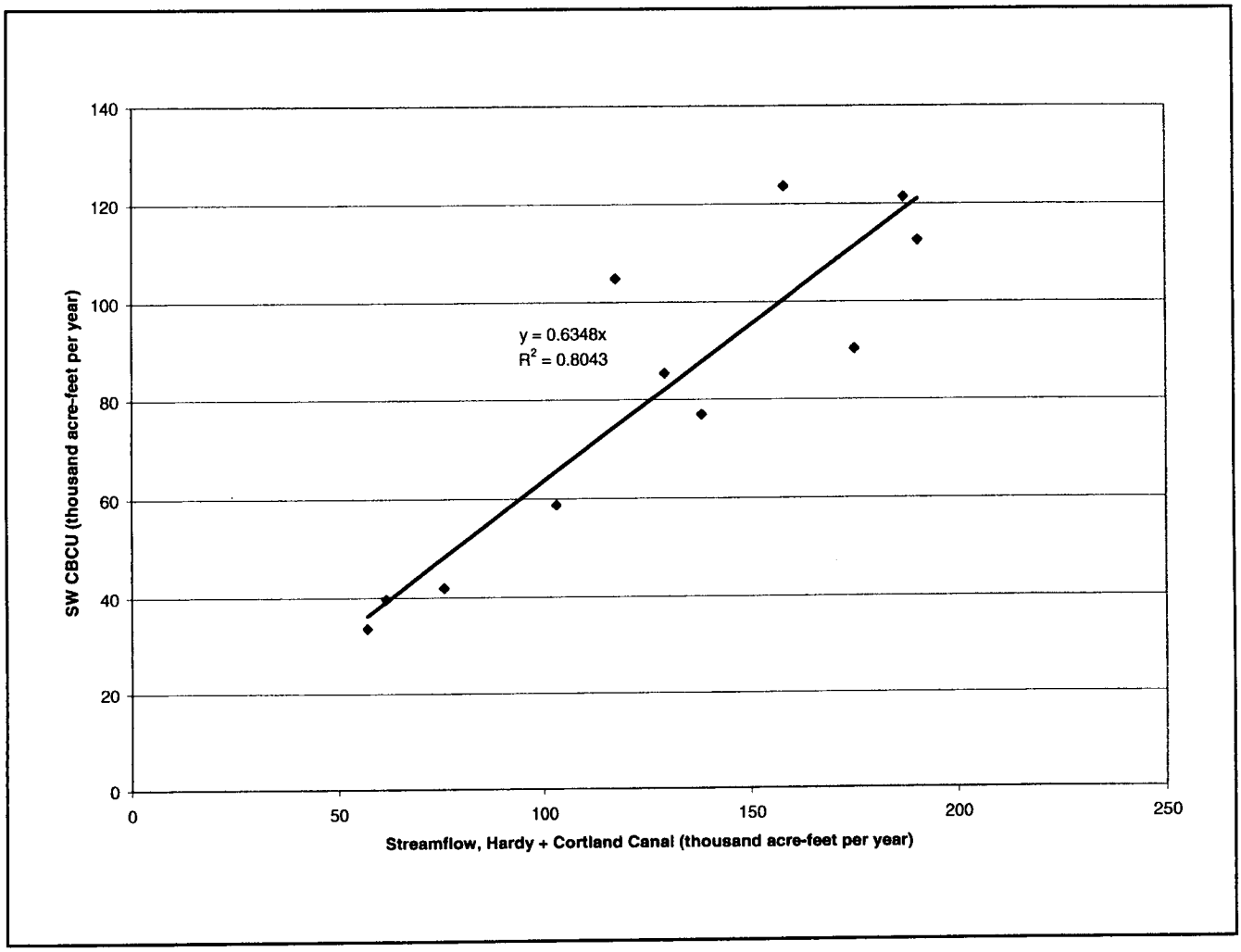
2020 - dry

Allocation Reduction	GW Impact Reduction	GW Impact	Projected SW	Projected SW CBCU	Total CBCU	SW Lease Available	SW Lease Needed
None	0	159,500	70,500	45,000	204,500	20,000	27,500
1 Inch	4,000	155,500	74,500	47,500	203,000	22,500	26,500
2 Inch	8,000	151,500	78,500	50,000	201,500	25,000	25,000
3 Inch	12,500	147,000	83,000	52,500	199,500	27,500	23,000
4 Inch	17,500	142,000	88,000	56,000	198,000	31,000	21,500
5 Inch	21,500	138,000	92,000	58,500	196,500	33,500	20,000

SW Allotment = 60,000
GW Allotment = 117,000
Total Allotment = 177,000

Description of Columns

- Allocation Reduction – Equal reduction in allocations across basin by listed amout
- GW Impact Reduction – The reduction in total GW impacts due to the Allocation Reduction
- GW Impact – The total GW CBCU, factoring in any impact reductions
- Projected SW – Projected Hardy + Cortland Canal Annual Flows, taking into account modeled trends in baseflow
- Projected SW CBCU – Based on recent relationship between gaged flows and SW CBCU, ~63.5% of Projected SW (see next slide)
- Total CBCU – Sum of GW Impacts and Projected SW CBCU
- SW Lease Available – The Projected SW CBCU minus 25 kAF to account for reservoir evap.
- SW Lease Needed – The difference between the Total CBCU and the Total Allotment (listed at bottom of each slide)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