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JAN 27 2005

DEPARTMENT OF
WATER RESOURCES

January 23, 2005

Steve Burrell
Water Distribution Section Engineer
Idaho Department of Water Resources
Boise, Idaho 83720

Dear Mr burrell,

Thank you for your December 3 response to my prior letter and the effort you put forth to analyze the information.

I managed to get the actual numerical data and reduced the data to show the thousands acre feet (KAF) per inch of snow water equivalent and calculated the average using 5 year intervals. Attached is a home grown plot of the results. I think the results are significant and show a definite loss of water to the reservoir as a function of the basin precipitation. One definite change that took place during this period was the change in the connect-disconnect numbers in the General Provisions that allowed more water to be taken above the dam. The assumption that none of the water sinking into the ground above the reservoir will never get there I think is wrong. Also there are still numerous allegations of misuse going on above the dam.

It will be interesting to see what the data shows in the next several years.

Sincerely,

A handwritten signature in black ink, appearing to read 'N. Sowards', followed by a long horizontal flourish line.

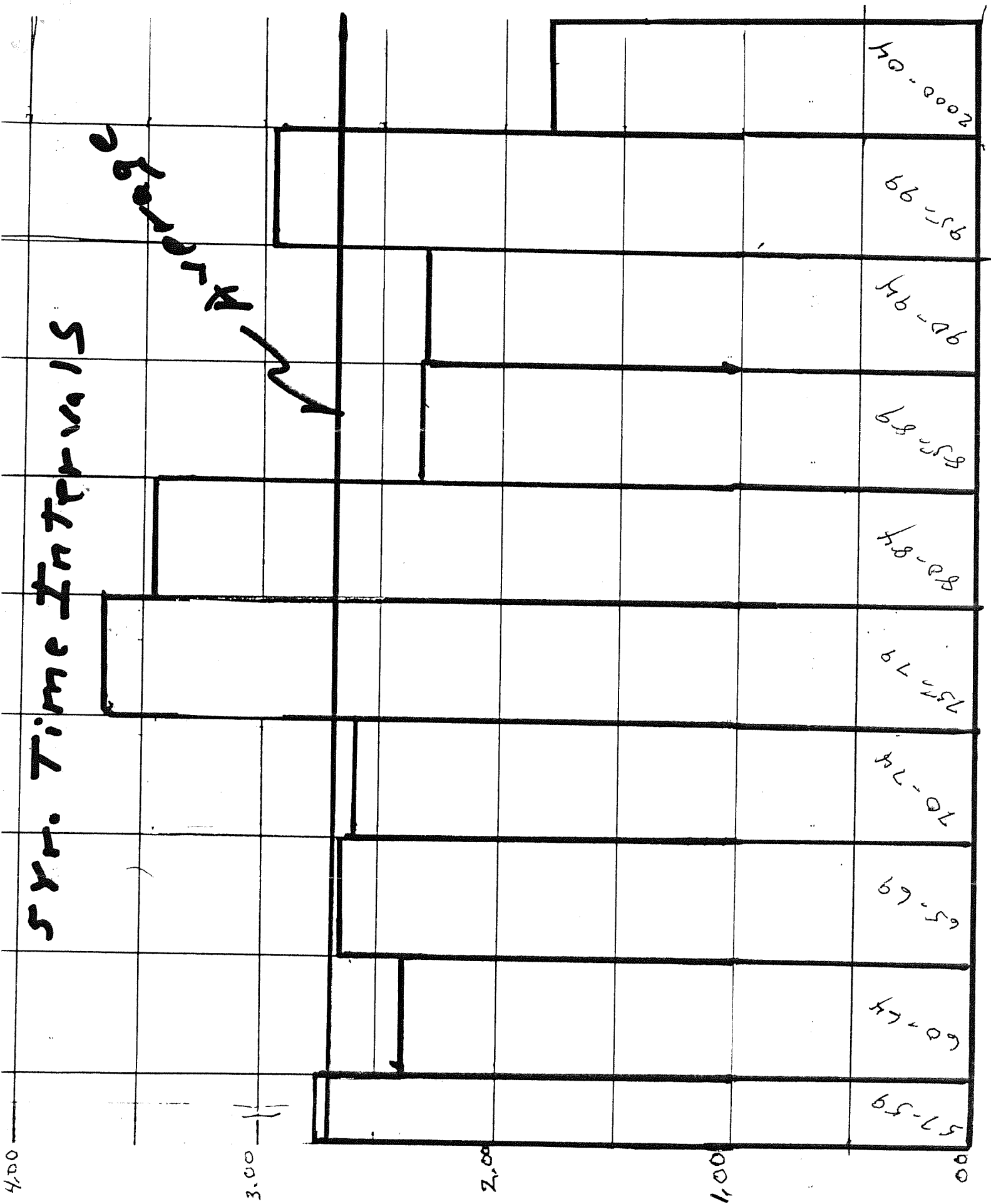
Norman K. Sowards .

c. Gary Spackman

KAF / in ch. SWF.

5 Yr. Time Intervals

Bar



<!--[if supportMisalignedColumns]-->
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Big Lost April 1 Snow Index

apr-sep avg kaf

13F03S, BEAR CANYON

174

13E27S, HILTS CREEK SNOTEL

14F03S, LOST-WOOD DIVIDE SNOTEL

14F02S, STICKNEY MILL

1971-2000 15.5
avg

0 MinMax 1 Mi
Wood and Stick
1.343276977539
Solid Narrow N
0 'Big Lost Apr'
"Inches of Snow
Average = 15.5
False False <!--|

Year	April 1 SWE Total	Index	SWE Percent of Average	3 Year Moving Average	3 Year Moving Average as % of Average	Mackay Reservoir Inflow Apr-Sep KAF	Mackay Reservoir Inflow Apr-Sep % of Avg
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<!--[endif]-->

Mackay inflow

2.26 SWE 2.82 57

3.35 58

2.12 59

2.53 60

1.54 61

2.40 1.94 62

3.8 63

2.7 64

2.9 1 65

64.3

16.1

104

181.4

104

66.2

16.6

107

222.0

128

41.3

10.3

67

14.3

92

87.9

51

32.8

8.2

53

11.7

75

83.1

48

46.0

11.5

74

10.0

65

70.9

41

67.6

16.9

109

12.2

79

131.5

76

45.6

11.4

74

13.3

86

173.2

100

60.1

15.0

97

14.4

93

162.3

93

114.8

28.7

185

18.4

119

334.2

192

Inches of Snow
Water

30

25

20

15

10

5

0

<!--[endif]-->

<!--[endif]-->

mime://0x004C6AF4/

1/17/2005

SWC
↓

McKee
↓

2.64

2.58

3.66

3.46

2.53

1.66	66	55.4	13.9	89	19.2	124	92.5	53
3.16	67	90.1	22.5	145	21.7	140	285.0	164
3.03	68	49.3	12.3	80	16.2	105	149.4	86
2.45	69	113.1	28.3	182	21.0	136	276.8	159
3.11	70	64.8	16.2	105	18.9	122	201.8	116
2.49	71	96.7	24.2	156	22.9	148	241.0	139
2.36	72	74.7	18.7	120	19.7	127	176.6	101
2.41	73	50.6	12.7	82	18.5	119	121.9	70
2.52	74	102.2	25.6	165	19.0	122	257.9	148
3.55	75	67.4	16.9	109	18.4	118	239.2	137
3.12	76	59.3	14.8	96	19.1	123	185.0	106
5.94	77	13.9	3.5	22	11.7	76	82.6	470 MinMax 1 Mi
3.08	78	57.8	14.5	93	10.9	70	178.0	Hilts Creek, Los
2.61	79	44.0	11.0	71	9.6	62	114.9	1378.11656799:
2.95	80	68.0	17.0	110	14.2	91	200.4	514.424652099:
2.97	81	59.0	14.8	95	14.3	92	175.5	10 Column Clus
2.90	82	93.8	23.5	151	18.4	119	272.4	66Lost Apr!\$D\$1
2.98	83	99.1	24.8	160	21.0	135	295.8	40 Solid Wide P
5.50	84	58.3	14.6	94	20.9	135	320.8	115Category Left 1
2.52	85	55.3	13.8	89	17.7	114	139.2	4 Category Left
2.96	86	80.7	20.2	130	16.2	104	238.7	993.856915283:
3.08	87	32.8	8.2	53	14.1	91	101.2	
1.86	88	39.6	9.9	64	12.8	82	73.6	

<!--[endif]-->

		505 ↓						weekly inflow			
1.18	89	66.5	16.6	107	11.6	75	78.4	45			
2.29	90	38.5	9.6	62	12.1	78	88.1	51			
2.72	91	38.9	9.7	63	12.0	77	105.8	61			
2.3	1.55	92	41.1	10.3	66	9.9	64	63.7	37		
2.58	93	65.5	16.4	106	12.1	78	168.9	97			
2.35	94	29.3	7.3	47	11.3	73	69.0	40			
3.17	95	85.8	21.5	138	15.1	97	272.0	156			
2.5	96	65.7	16.4	106	15.1	97	171.3	98			
2.52	97	95.6	23.9	154	20.6	133	244.6	141			
2.94	3.69	98	53.7	13.4	87	17.9	116	198	114		
2.56	99	73.5	18.4	119	18.6	120	195.6	112			
00	1.77	50.2	12.6	81	14.8	95	89	51			
01	2.28	30.0	7.5	48	12.8	83	68.3	39			
02	1.46	47.0	11.8	76	10.6	68	68.8	40			
0.65	03	1.99	52.4	13.1	85	10.8	70	107.47	62		
1.80	04	1.50	45.1	11.3	73	12.0	78	67.9	39		
1971-2000		61.9	15.5								
avg											
max		114.8	28.7								
min		13.9	3.5								

Bear C

200

180

160

140

120

100

80

60

40

20

0

Percent of Average

<!--[endif]-->

Bear C

200

180

160

140

120

100

80

60

40

20

0

Percent of Average

>[endif]<!--

<!--[endif]>

ave of all years 2009

90.22