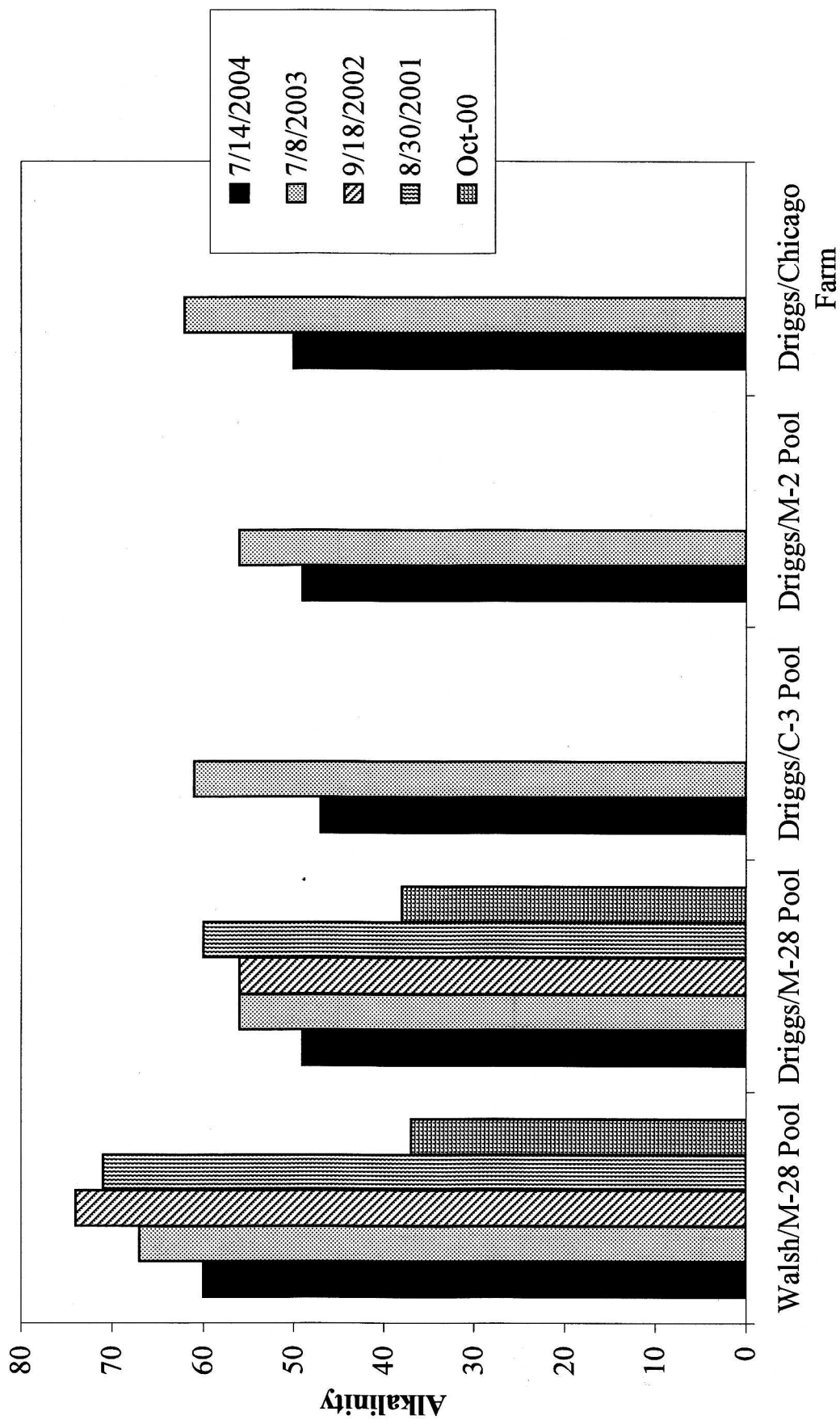
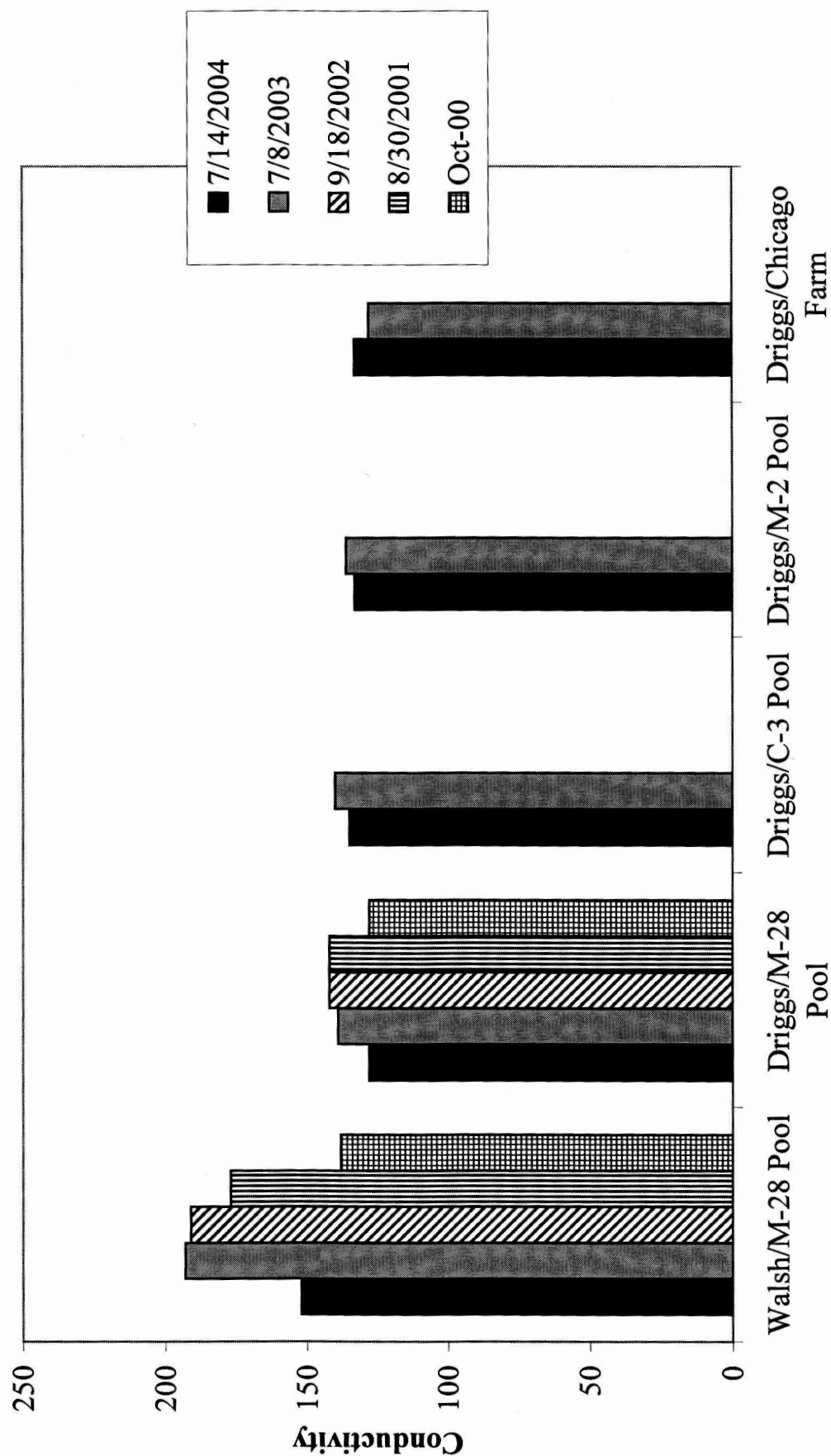


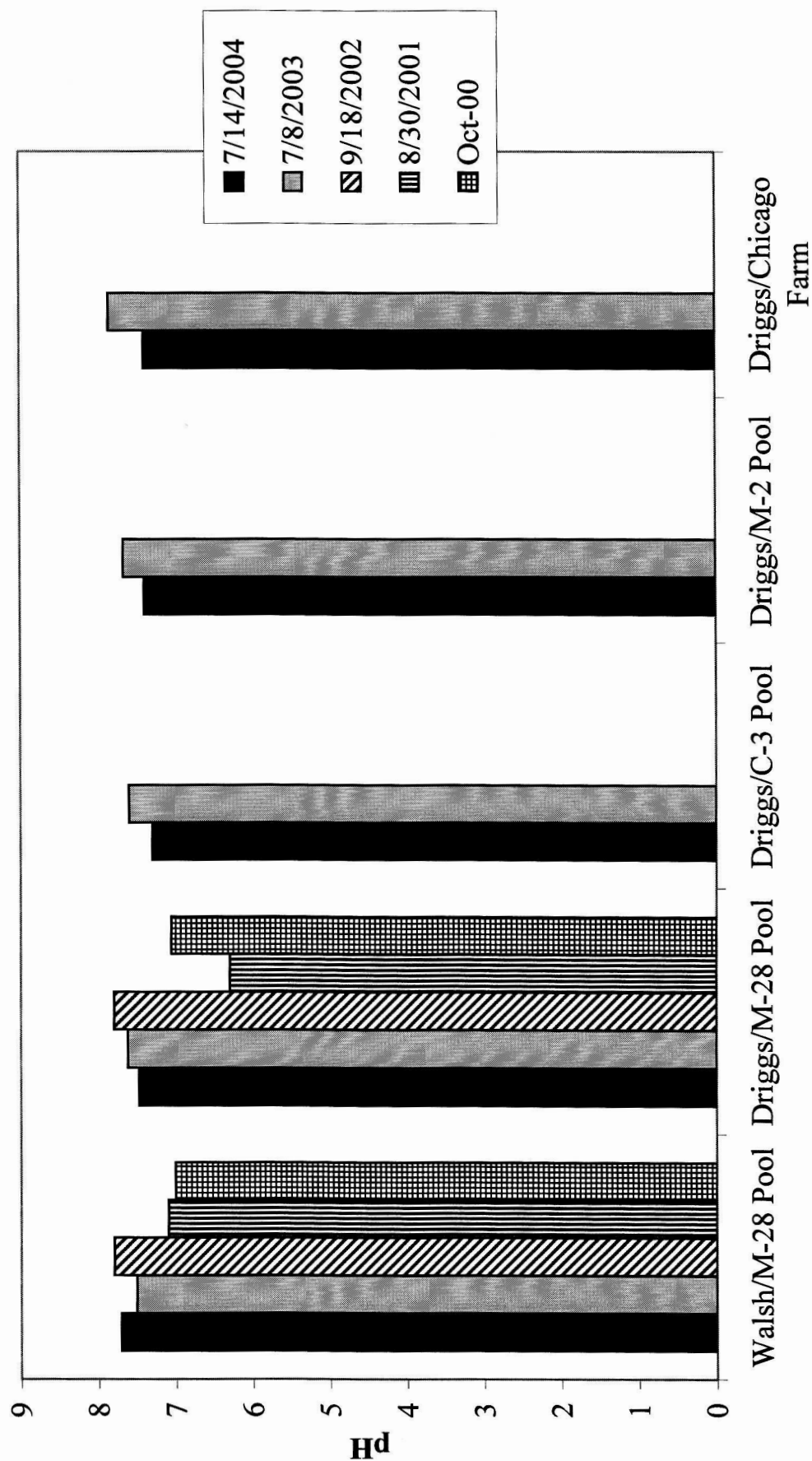
Alkalinity for the Walsh Creek and Driggs River (2000-2004)



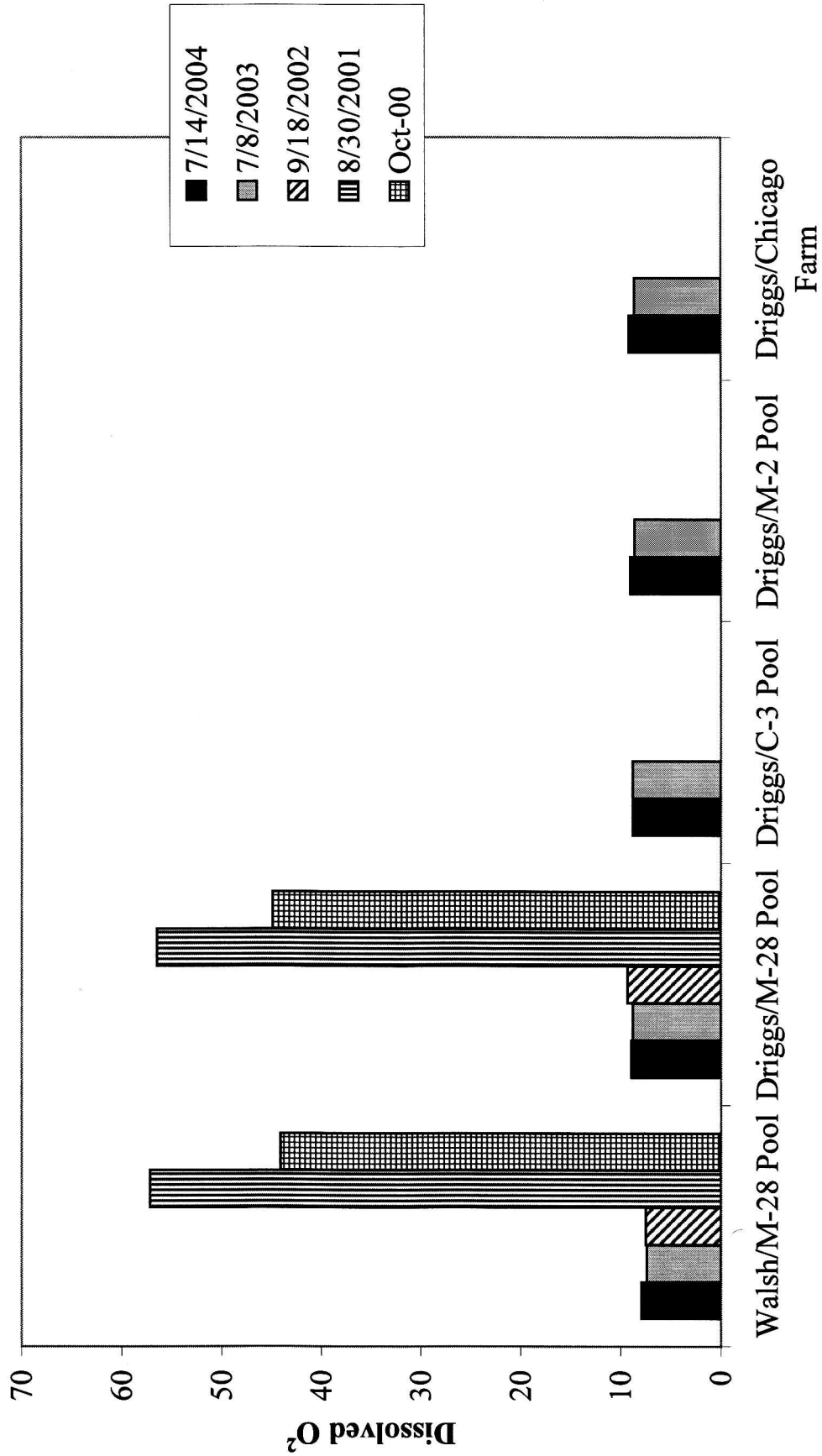
Conductivity for the Walsh Creek and Driggs River (2000-2004)



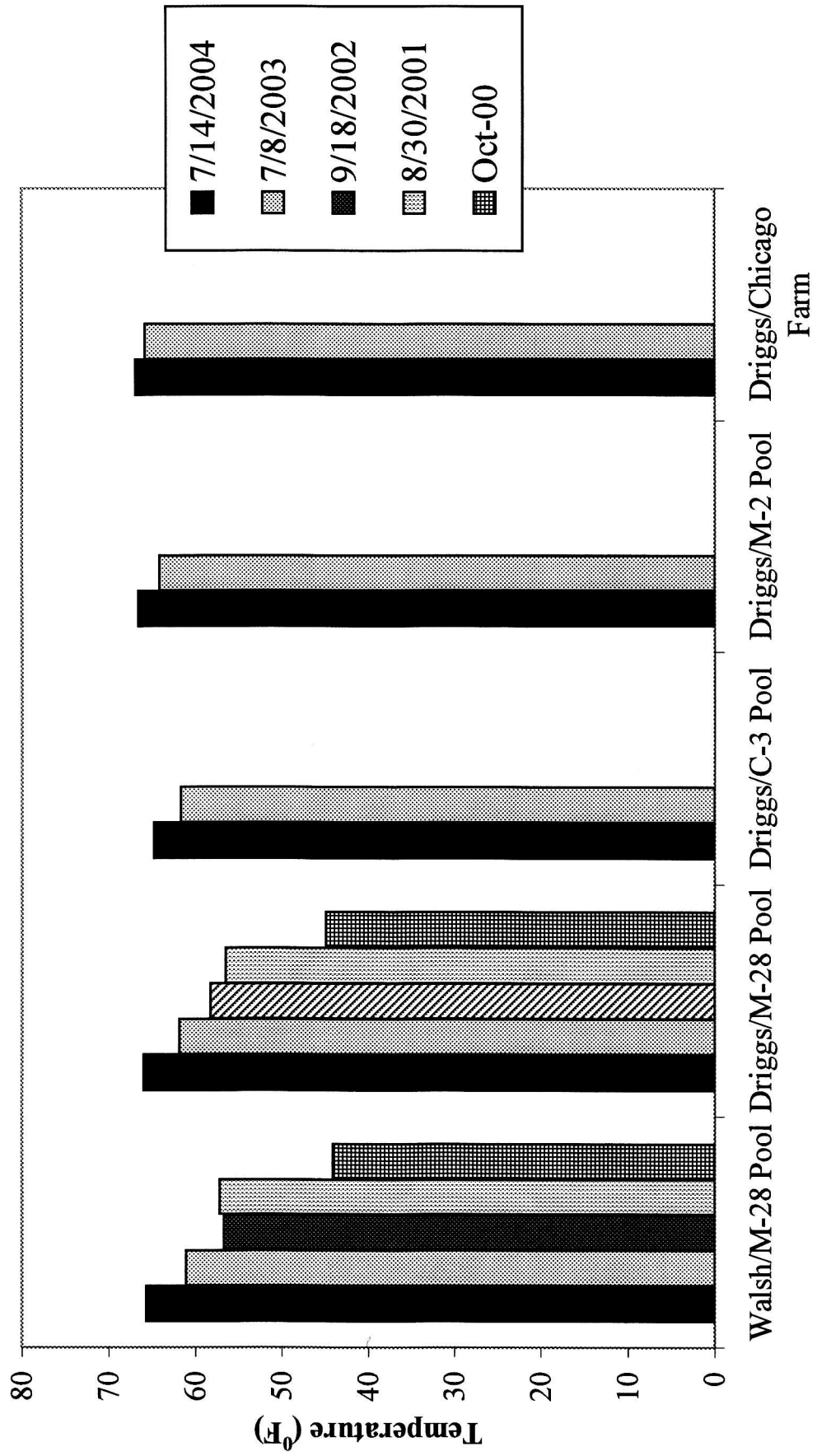
pH for Walsh Creek and Driggs River (2000-2004)



Dissolved O₂ for the Walsh Creek and Driggs River (2000-2004)



Temperature for the Walsh Creek and Driggs River (2000-2004)



Nov.9,

2004
Greg,

The monitor in the Driggs River does indeed indicate temperature less than 68 degrees F down to the C-2 location except for brief periods from late June to early July. (during 2003). Some spot checks during the first half of July 2003 and 2004, also shows temperature less than 68 degrees F and near saturation levels of dissolved oxygen from M-28 to the Chicago Farm bridge. This data (tables 1 & 2 attached) was collected using a dissolved oxygen meter suspended from the bridge to midstream.

If there is a continuing interest in this project, perhaps we should again monitor the temperature and spot check dissolved oxygen for a 75 day period from early June through middle August. If this confirms our present impressions we can then consider an appropriate next step. For example, look at the USGS data on stream flow on the Driggs, which I understand was collected at the Driggs C-3 bridge in the recent past. Then review the data with the Fishery Division and develop a plan to improve the habitat for trout.

Enclosed is a table of data that I have collected on water quality along Walsh Creek and Driggs River. (table 1 & 2)

Temperature measurements and degrees F and dissolved oxygen are in parts/million by O2 meter.

pH meter on a grab sample, conductivity in micro siemens/cm by conductivity meter and alkalinity by titration with acid to pH of 4.5 endpoint.

See you next spring.

Er Collier

WATER QUALITY DATA - WALSH CREEK * DRIGGS RIVER

Table 1

sample date	Temp				
6/2/2003	58.8	59.7	57.2	56.7	56.1
7/8/2003	61.1	61.9	61.7	64.2	65.8
7/14/2004	65.7	66	64.8	66.6	66.9
Dissolved O2					
6/2/2003	9.3	9.8	9.5	10.2	10
7/8/2003	7.4	8.8	8.8	8.6	8.6
7/14/2004	7.1	8.2	8.1	8.3	8.8
pH					
6/2/2003	6.98	7.43	7.15	7.32	7.4
7/8/2003	7.51	7.62	7.6	7.67	7.85
7/14/2004	7.71	7.48	7.3	7.4	7.4
Conductivity					
6/2/2003	102	124	130	121	117
7/8/2003	193	139	140	136	128
7/14/2004	152	128	135	133	133
Alkalinity					
6/2/2003	51	56	60	45	50
7/8/2003	67	56	61	56	62
7/14/2004	60	49	47	49	50

8.02 4.04 7.81 5.57 6.93



WATER QUALITY-Table2 Walsh Creek @ M-28 Driggs River @ M-28

Sample Date	Temp	
Oct-00 ①	44.1	44.9
8/30/2001 ②	57.2	56.5
9/18/2002 ③	56.7	58.3
		Dissolved O2
Oct-00	11	13.6
8/30/2001	7.1	6.3
9/18/2002	7.5	9.3
		pH
Oct-00	7.01	7.06
8/30/2001	7	7.9
9/18/2002	7.8	7.8
		Conductivity
Oct-00	138	128
8/30/2001	177	142
9/18/2002	191	142
		Alkalinity
Oct-00	37	38
8/30/2001	71	60
9/18/2002	74	56