

Table 3. Mean coefficients of variation (among replicate samplers) for water volume and chloride and herbicide concentrations. For each sampler type, the sampling event CV was determined from the mean and standard deviation of the measured water or solute mass among replicate samplers (n=2 wick samplers, n=5-6 cups) at every sampling event. The mean CV reported here was the mean of all sampling event CVs for each sampler type. Gravity pan CV's were calculated from variability among the four bottles within the single sampler at each site.

Sampler	CV (%)			
	Water	Chloride	Atrazine	2,4-D
<b>Hudson</b>				
Wick	32.1	37.2	53.6	70.5
Gravity	-	-	69.5	82.9
Cup	63.4	117	135	204
<b>Arkport</b>				
Wick	83.5	102	43.6	121
Gravity	-	-	40.2	123
Cup	175	76.1	104	130

Table 4. Percolate chloride, atrazine and 2,4-D: volume-weighted mean concentration, peak concentration, and mass represented in peak sampling interval (as mass and fraction of applied (M/M<sub>0</sub>)).

Site and sampler	Chloride				Atrazine				2,4-D			
	Mean (mg L <sup>-1</sup> )	Peak (mg L <sup>-1</sup> )	Mass of Peak (g) (M/M <sub>0</sub> )		Mean (µg L <sup>-1</sup> )	Peak (µg L <sup>-1</sup> )	Mass of Peak (mg) (M/M <sub>0</sub> )		Mean (µg L <sup>-1</sup> )	Peak (µg L <sup>-1</sup> )	Mass of Peak (mg) M/M <sub>0</sub>	
<b>Hudson</b>												
Wick 1 (W1)	81	190	0.43	0.09	95.8	181	0.31	0.01	55.54	255	0.44	0.02
Wick 2 (W2)	70	503	1.40	0.29	223	1214	3.38	0.14	78.43	533	1.48	0.06
Gravity (G)	84	156	0.44	0.09	181	285	0.78	0.03	53.79	194	0.53	0.02
<b>Arkport</b>												
Wick 1 (W1)	48	86	0.67	0.29	13.8	26.6	0.21	0.01	0.54	0.85	0.01	0.00
Wick 2 (W2)	35	30*	0.38	0.17	7.42	9.61	0.12	0.01	1.66	1.92	0.02	0.00
Gravity (G)	36	48	0.07	0.03	21.6	27.6	0.42	0.02	2.8	3.44	0.05	0.00

\*initial Arkport W2 peak; later peaks had greater concentrations but represented less Cl mass due to low sample volumes.

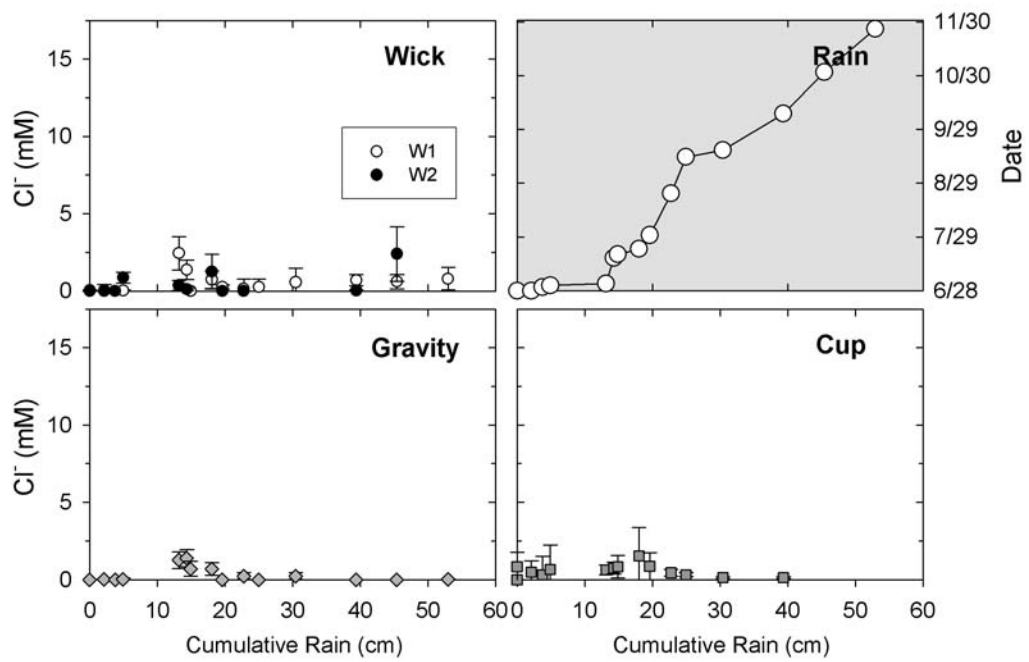


Figure 4