

EXHIBIT E

THERMAL PLUME SURVEYS ON THE CHICAGO SANITARY AND SHIP CANAL NEAR WILL COUNTY STATION JUNE-SEPTEMBER 2002

Part 3 of 4

Figure B-4c
Surface Temperature along Horizontal Transects at Will County Station, 31 July 2002

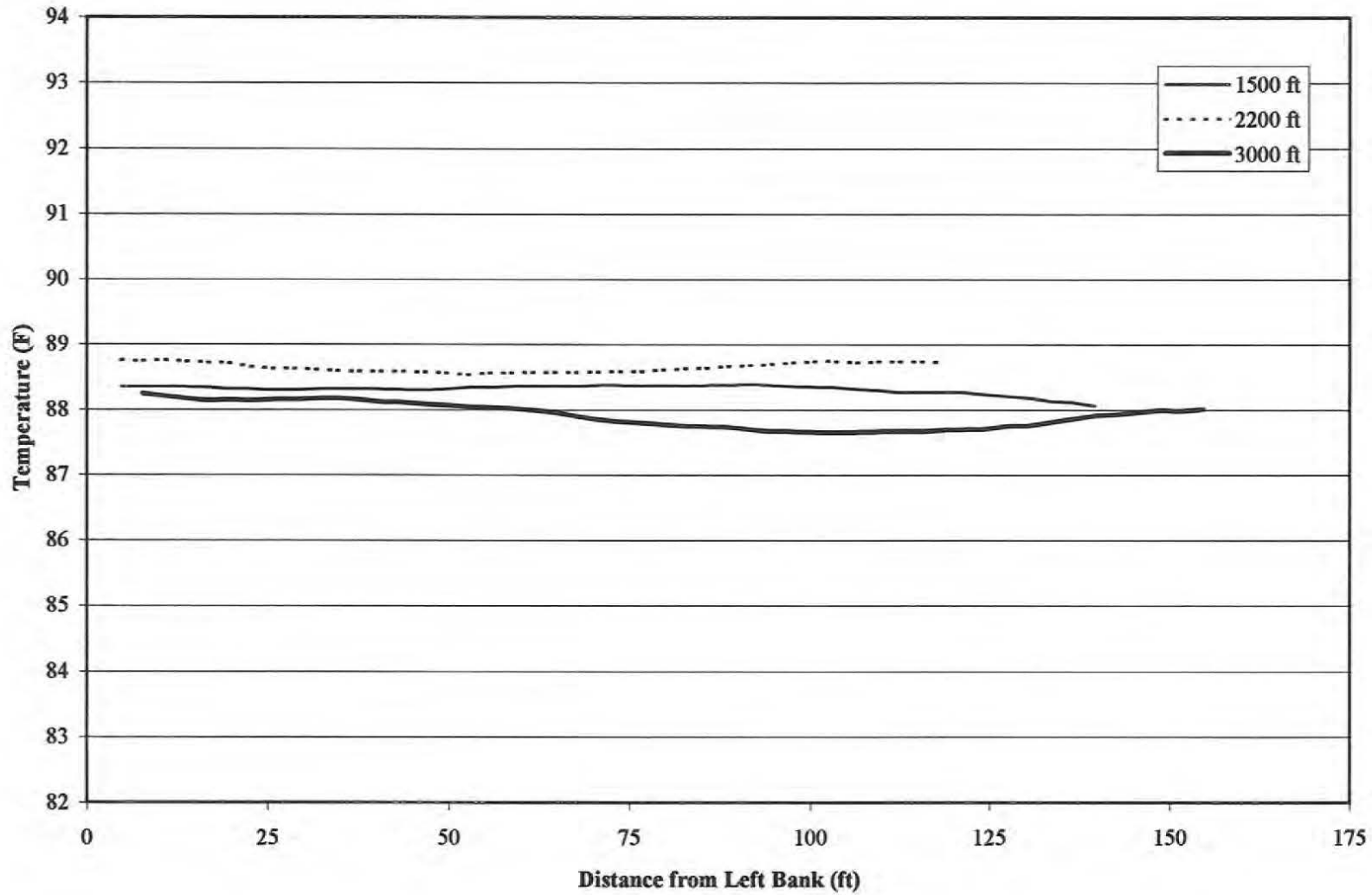


Figure B-4d
Surface Temperature along Horizontal Transects at Will County Station, 31 July 2002

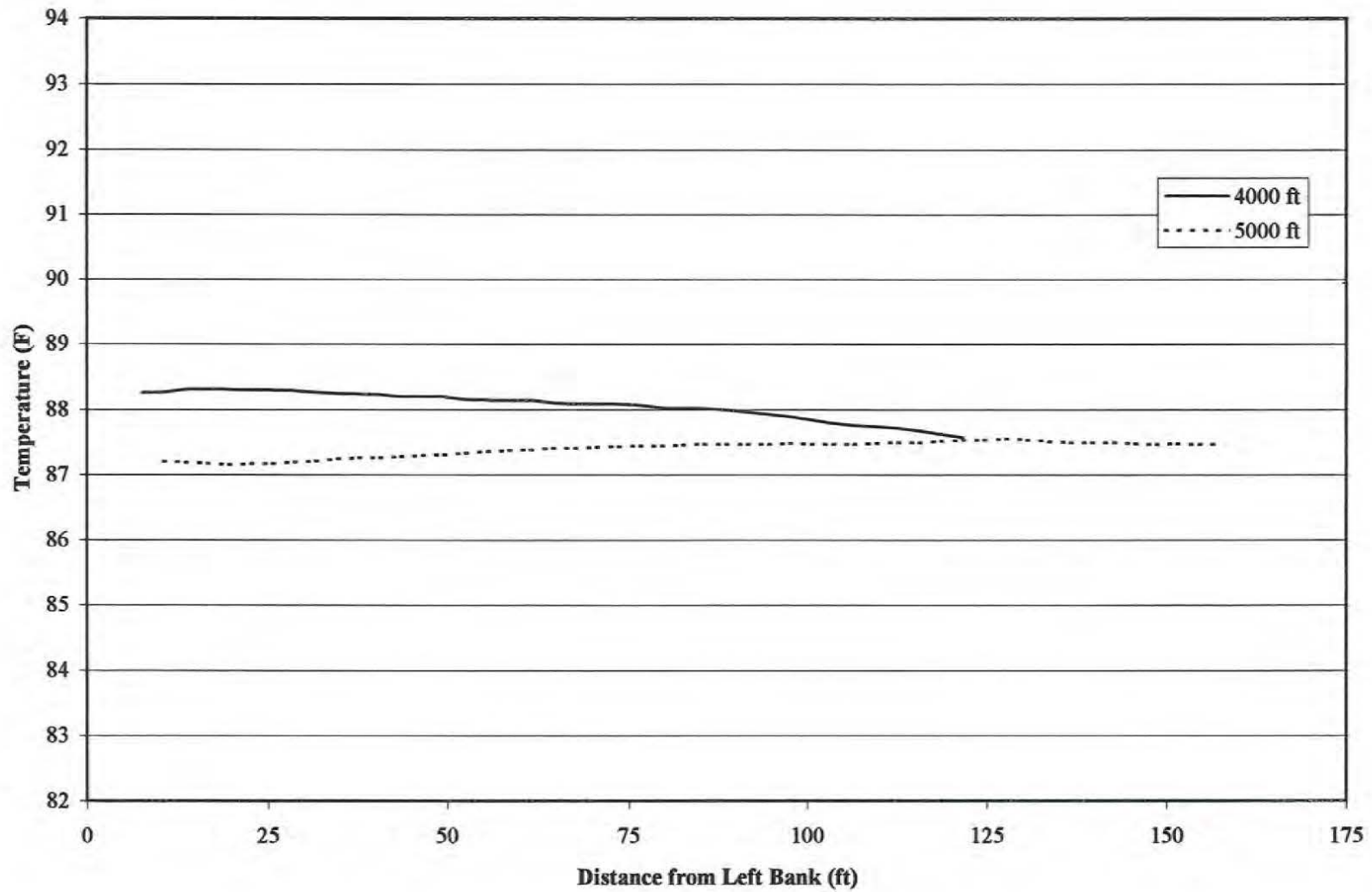


Table B-4 Surface Temperature Data near Will County Station, 31 July 2002

Distance (ft) from Left Bank	Transect										
	UPSTR -250 ft	0 ft	180 ft	525 ft	1000 ft	1500 ft	2200 ft	3000 ft	4000 ft	5000 ft	
1.5	80.6										
4.5	80.6	87.1		88.3		88.4	88.8				
7.5	80.6	87.1		88.3	89.0	88.5	88.4	88.8	88.3	88.3	
10.5	80.6	87.1	87.4	88.3	89.0	88.6	88.4	88.8	88.2	88.3	87.2
13.5	80.6	87.1	87.3	88.2	89.0	88.6	88.4	88.8	88.2	88.3	87.2
16.5	80.6	87.0	87.3	88.2	89.1	88.6	88.3	88.7	88.1	88.3	87.2
19.5	80.6	87.1	87.3	88.2	89.1	88.6	88.3	88.7	88.2	88.3	87.2
22.5	80.6	87.1	87.3	88.2	89.1	88.6	88.3	88.7	88.1	88.3	87.2
25.5	80.6	87.1	87.3	88.3	89.0	88.6	88.3	88.6	88.2	88.3	87.2
28.5	80.6	87.1	87.3	88.3	89.0	88.6	88.3	88.6	88.2	88.3	87.2
31.5	80.6	87.2	87.3	88.3	89.0	88.6	88.3	88.6	88.2	88.3	87.2
34.5	80.6	87.2	87.3	88.4	89.0	88.6	88.3	88.6	88.2	88.3	87.2
37.5	80.6	87.3	87.3	88.4	89.0	88.6	88.3	88.6	88.2	88.2	87.3
40.5	80.6	87.3	87.3	88.4	89.0	88.6	88.3	88.6	88.1	88.2	87.3
43.5	80.6	87.3	87.3	88.5	89.0	88.6	88.3	88.6	88.1	88.2	87.3
46.5	80.6	87.4	87.3	88.5	89.0	88.6	88.3	88.6	88.1	88.2	87.3
49.5	80.6	87.4	87.3	88.5	88.9	88.6	88.3	88.6	88.1	88.2	87.3
52.5	80.6	87.4	87.3	88.5	88.9	88.6	88.3	88.5	88.1	88.2	87.3
55.5	80.6	87.4	87.3	88.5	88.9	88.6	88.3	88.6	88.0	88.2	87.4
58.5	80.6	87.4	87.2	88.5	88.8	88.6	88.4	88.6	88.0	88.1	87.4
61.5	80.6	87.4	87.2	88.5	88.8	88.6	88.4	88.6	88.0	88.2	87.4
64.5	80.6	87.4	87.2	88.6	88.8	88.6	88.4	88.6	88.0	88.1	87.4
67.5	80.6	87.4	87.3	88.7	88.8	88.5	88.4	88.6	87.9	88.1	87.4
70.5	80.6	87.4	87.3	88.8	88.8	88.5	88.4	88.6	87.9	88.1	87.4
73.5	80.6	87.3	87.3	88.9	88.8	88.5	88.4	88.6	87.8	88.1	87.4
76.5	80.6	87.3	87.3	89.0	88.8	88.5	88.4	88.6	87.8	88.1	87.4
79.5	80.6	87.3	87.3	89.1	88.8	88.5	88.4	88.6	87.8	88.0	87.4
82.5	80.6	87.2	87.3	89.2	88.7	88.5	88.4	88.6	87.8	88.0	87.5
85.5	80.6	87.1	87.3	89.2	88.7	88.5	88.4	88.6	87.7	88.0	87.5
88.5	80.6	87.1	87.3	89.2	88.7	88.5	88.4	88.7	87.7	88.0	87.5
91.5	80.6	87.0	87.3	89.2	88.7	88.5	88.4	88.7	87.7	88.0	87.5
94.5	80.6	87.0	87.3	89.5	88.7	88.5	88.4	88.7	87.7	87.9	87.5
97.5	80.6	87.0	87.3	89.7	88.7	88.5	88.4	88.7	87.7	87.9	87.5
100.5	80.6	86.9	87.3	89.8	88.6	88.5	88.4	88.7	87.7	87.8	87.5
103.5	80.6	86.9	87.3	89.9	88.6	88.5	88.3	88.8	87.7	87.8	87.5
106.5	80.6	86.9	87.3	90.1	88.6	88.5	88.3	88.7	87.7	87.8	87.5
109.5	80.6	86.9	87.4	90.1	88.6	88.5	88.3	88.7	87.7	87.7	87.5
112.5	80.6	86.8	87.4	90.2	88.5	88.5	88.3	88.7	87.7	87.7	87.5
115.5	80.6	86.8	87.4	90.3	88.5	88.5	88.3	88.7	87.7	87.7	87.5
118.5	80.6	86.8	87.4	90.3	88.4	88.5	88.3	88.7	87.7	87.6	87.5
121.5	80.6	86.9	87.4	90.4	88.4	88.4	88.3		87.7	87.6	87.5
124.5	80.6	86.8	87.4	90.6	88.4	88.4	88.2		87.7		87.5
127.5	80.6	86.9	87.4	90.8	88.3	88.3	88.2		87.8		87.6
130.5	80.6	86.9	87.5	90.9	88.3	88.3	88.2		87.8		87.5
133.5	80.6	86.9	87.5	90.9	88.3	88.3	88.1		87.8		87.5
136.5	80.6	87.0	87.5	91.1	88.2	88.2	88.1		87.9		87.5
139.5	80.6	87.0	87.6	91.1	88.2	88.2	88.1		87.9		87.5

Figure B-5a
Surface Temperature along Horizontal Transects at Will County Station, 8 August 2002

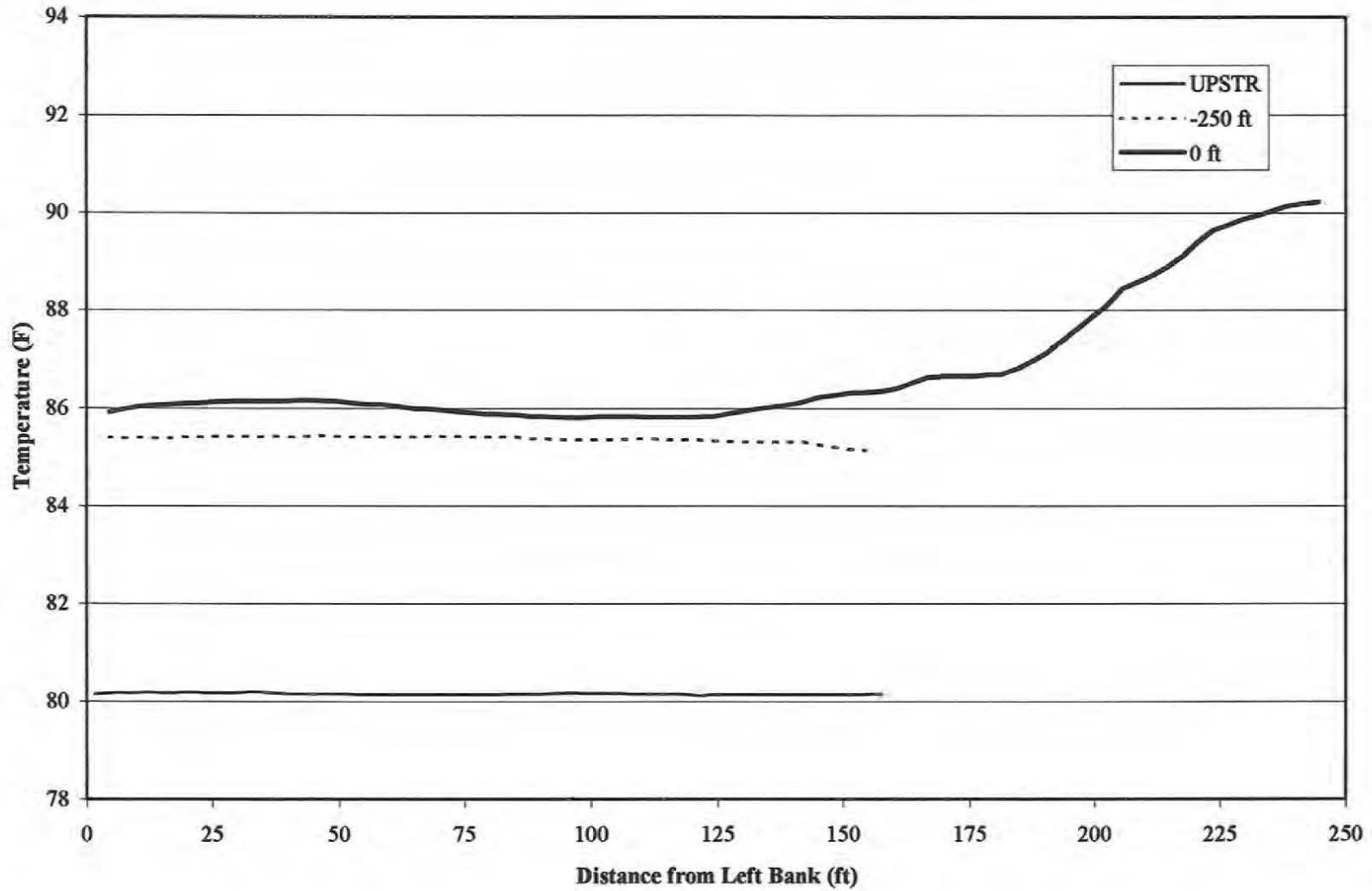


Figure B-5b
Surface Temperature along Horizontal Transects at Will County Station, 8 August 2002

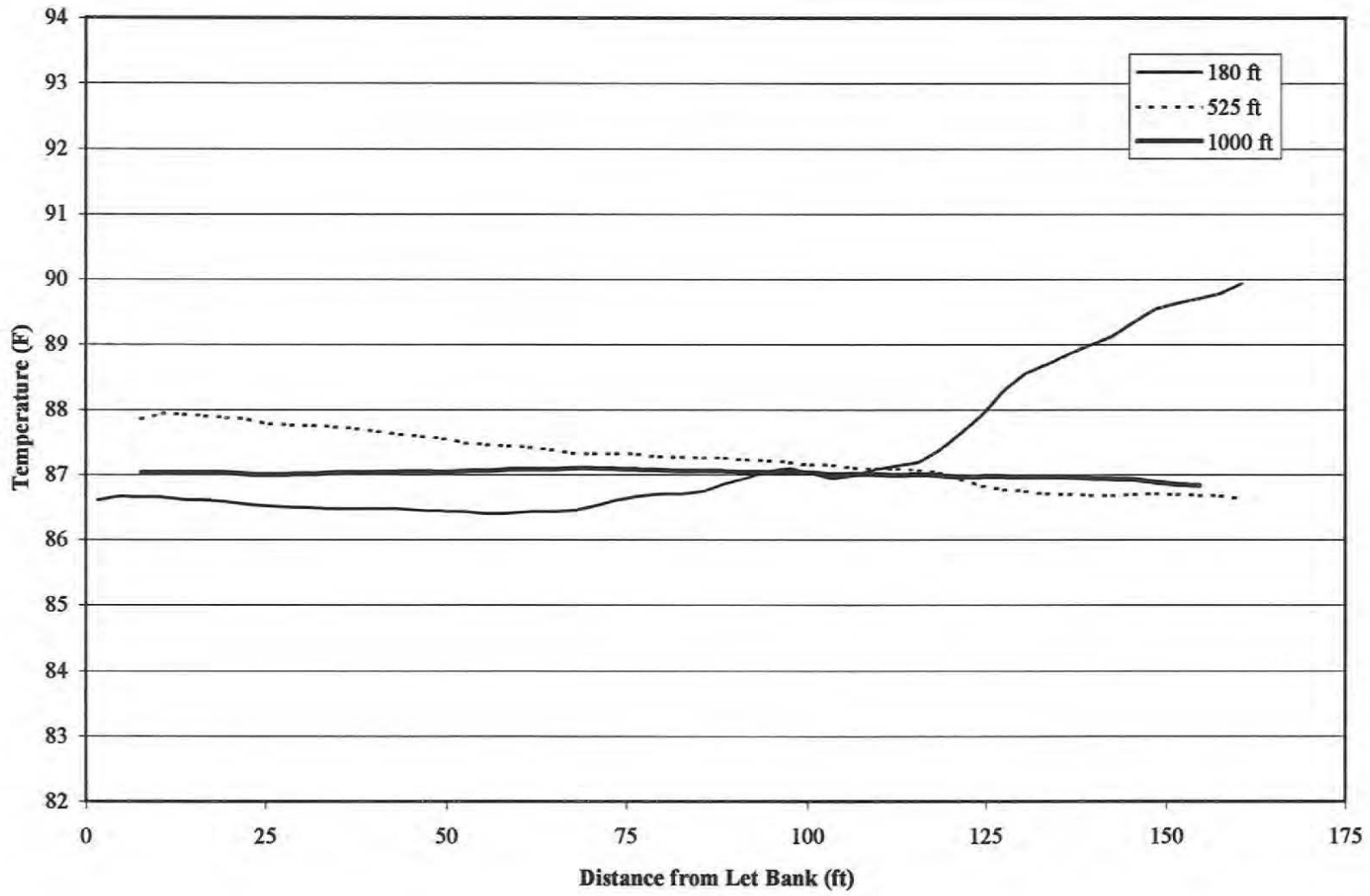


Figure B-5c
Surface Temperature along Horizontal Transects at Will County Station, 8 August 2002

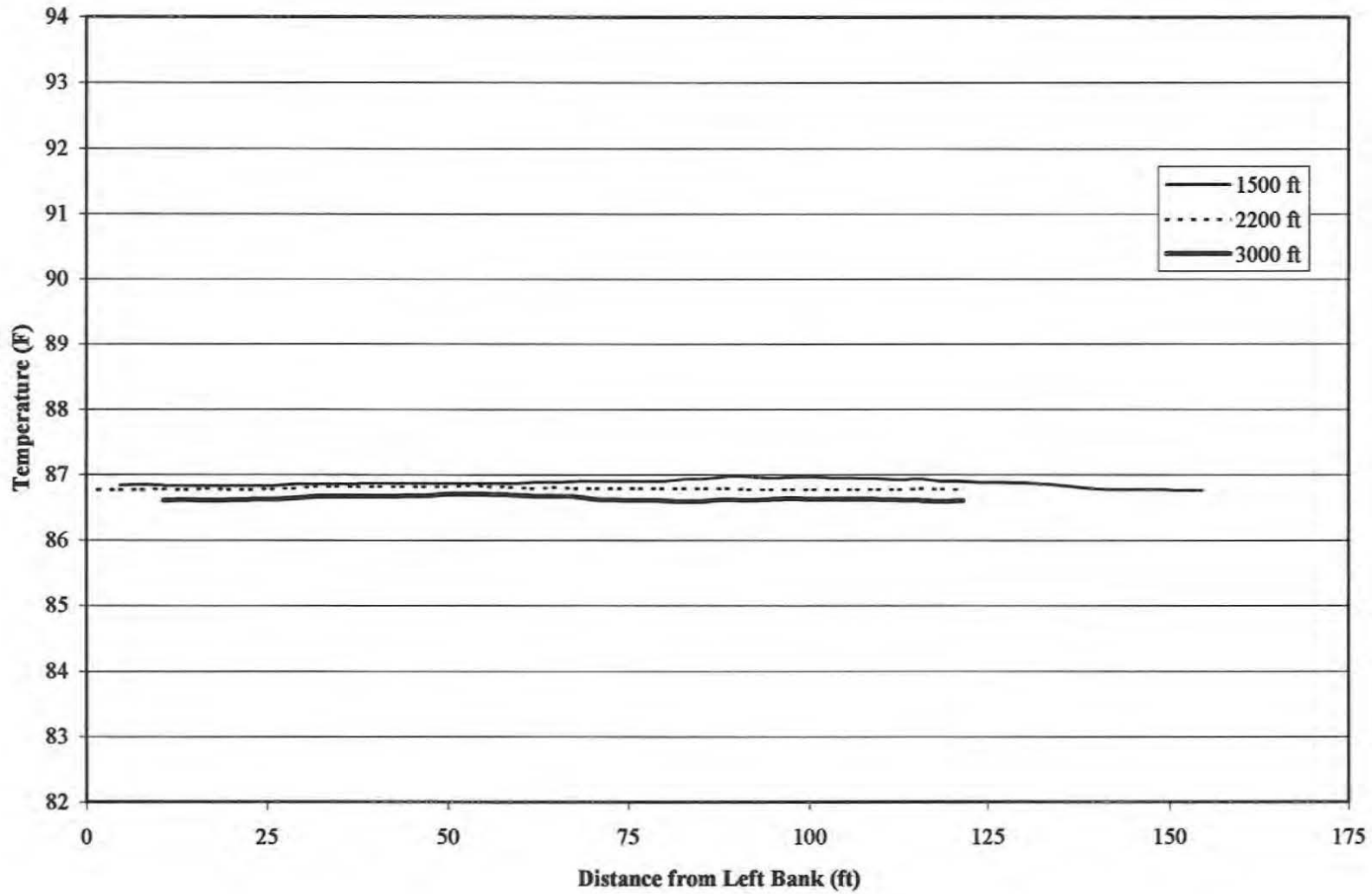


Figure B-5d
Surface Temperature along Horizontal Transects at Will County Station, 8 August 2002

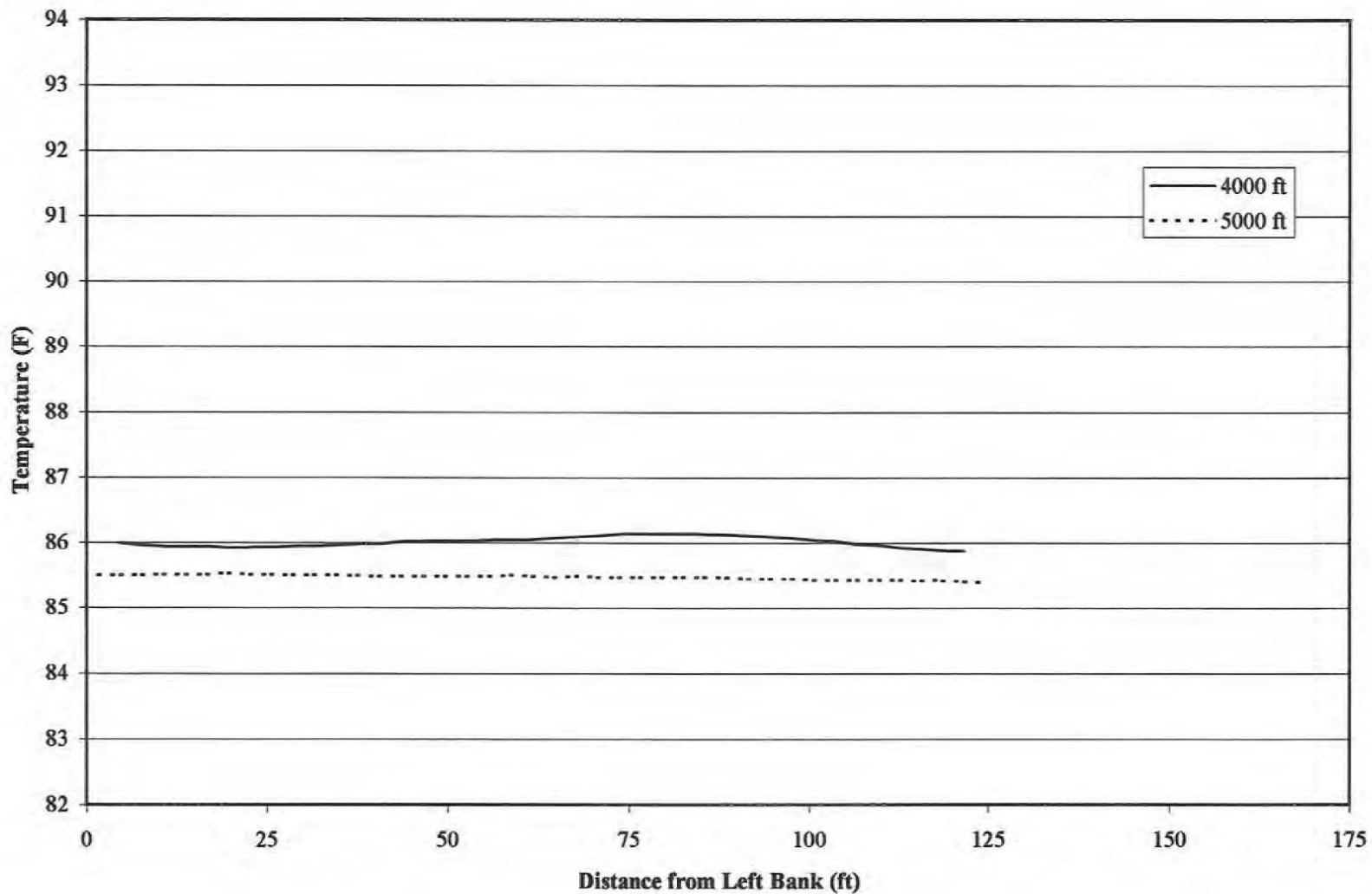


Table B-5 Surface Temperature Data near Will County Station, 8 August 2002

Distance (ft) from Left Bank	Transect										
	UPSTR -250 ft	0 ft	180 ft	525 ft	1000 ft	1500 ft	2200 ft	3000 ft	4000 ft	5000 ft	
1.5	80.1		86.6				86.8			85.5	
4.5	80.2	85.4	85.9	86.7			86.8	86.8		86.0	85.5
7.5	80.2	85.4	86.0	86.7	87.9	87.0	86.9	86.8		86.0	85.5
10.5	80.2	85.4	86.0	86.7	87.9	87.0	86.8	86.8	86.6	86.0	85.5
13.5	80.2	85.4	86.1	86.6	87.9	87.0	86.8	86.8	86.6	85.9	85.5
16.5	80.2	85.4	86.1	86.6	87.9	87.0	86.8	86.8	86.6	86.0	85.5
19.5	80.2	85.4	86.1	86.6	87.9	87.0	86.8	86.8	86.6	85.9	85.5
22.5	80.2	85.4	86.1	86.5	87.9	87.0	86.8	86.8	86.6	85.9	85.5
25.5	80.2	85.4	86.1	86.5	87.8	87.0	86.8	86.8	86.6	85.9	85.5
28.5	80.2	85.4	86.1	86.5	87.8	87.0	86.9	86.8	86.6	86.0	85.5
31.5	80.2	85.4	86.1	86.5	87.8	87.0	86.9	86.8	86.7	86.0	85.5
34.5	80.2	85.4	86.1	86.5	87.7	87.0	86.9	86.8	86.7	86.0	85.5
37.5	80.2	85.4	86.1	86.5	87.7	87.0	86.9	86.8	86.7	86.0	85.5
40.5	80.2	85.4	86.2	86.5	87.7	87.0	86.9	86.8	86.7	86.0	85.5
43.5	80.2	85.4	86.2	86.5	87.6	87.1	86.9	86.8	86.7	86.0	85.5
46.5	80.2	85.4	86.2	86.5	87.6	87.1	86.9	86.8	86.7	86.0	85.5
49.5	80.2	85.4	86.1	86.4	87.6	87.0	86.9	86.8	86.7	86.0	85.5
52.5	80.1	85.4	86.1	86.4	87.5	87.1	86.9	86.8	86.7	86.0	85.5
55.5	80.1	85.4	86.1	86.4	87.5	87.1	86.9	86.8	86.7	86.0	85.5
58.5	80.1	85.4	86.1	86.4	87.4	87.1	86.9	86.8	86.7	86.0	85.5
61.5	80.1	85.4	86.0	86.4	87.4	87.1	86.9	86.8	86.7	86.1	85.5
64.5	80.1	85.4	86.0	86.4	87.4	87.1	86.9	86.8	86.7	86.1	85.5
67.5	80.1	85.4	86.0	86.5	87.3	87.1	86.9	86.8	86.7	86.1	85.5
70.5	80.1	85.4	86.0	86.5	87.3	87.1	86.9	86.8	86.6	86.1	85.5
73.5	80.1	85.4	85.9	86.6	87.3	87.1	86.9	86.8	86.6	86.1	85.5
76.5	80.1	85.4	85.9	86.7	87.3	87.1	86.9	86.8	86.6	86.1	85.5
79.5	80.1	85.4	85.9	86.7	87.3	87.1	86.9	86.8	86.6	86.1	85.5
82.5	80.2	85.4	85.9	86.7	87.3	87.1	86.9	86.8	86.6	86.1	85.5
85.5	80.2	85.4	85.9	86.7	87.3	87.1	86.9	86.8	86.6	86.1	85.5
88.5	80.2	85.4	85.8	86.9	87.3	87.1	87.0	86.8	86.6	86.1	85.5
91.5	80.2	85.4	85.8	87.0	87.2	87.0	87.0	86.8	86.6	86.1	85.4
94.5	80.2	85.4	85.8	87.1	87.2	87.0	87.0	86.8	86.6	86.1	85.4
97.5	80.2	85.4	85.8	87.1	87.2	87.0	87.0	86.8	86.6	86.1	85.4
100.5	80.2	85.4	85.8	87.0	87.2	87.0	87.0	86.8	86.6	86.0	85.4
103.5	80.2	85.4	85.8	86.9	87.2	87.0	87.0	86.8	86.6	86.0	85.4
106.5	80.2	85.4	85.8	87.0	87.1	87.0	87.0	86.8	86.6	86.0	85.4
109.5	80.2	85.4	85.8	87.1	87.1	87.0	86.9	86.8	86.6	86.0	85.4
112.5	80.2	85.4	85.8	87.1	87.1	87.0	86.9	86.8	86.6	85.9	85.4
115.5	80.2	85.4	85.8	87.2	87.1	87.0	86.9	86.8	86.6	85.9	85.4
118.5	80.2	85.4	85.8	87.4	87.0	87.0	86.9	86.8	86.6	85.9	85.4
121.5	80.1	85.4	85.8	87.6	86.9	87.0	86.9	86.8	86.6	85.9	85.4
124.5	80.1	85.3	85.8	87.9	86.8	87.0	86.9				85.4
127.5	80.1	85.3	85.9	88.3	86.8	87.0	86.9				
130.5	80.1	85.3	86.0	88.6	86.7	87.0	86.9				
133.5	80.1	85.3	86.0	88.7	86.7	87.0	86.9				
136.5	80.1	85.3	86.0	88.9	86.7	87.0	86.8				
139.5	80.1	85.3	86.1	89.0	86.7	87.0	86.8				

Table B-5 Surface Temperature Data near Will County Station, 8 August 2002

Distance (ft) from Left Bank	Transect									
	UPSTR -250 ft	0 ft	180 ft	525 ft	1000 ft	1500 ft	2200 ft	3000 ft	4000 ft	5000 ft
142.5	80.1	85.3	86.1	89.1	86.7	86.9	86.8			
145.5	80.1	85.3	86.2	89.4	86.7	86.9	86.8			
148.5	80.1	85.2	86.3	89.6	86.7	86.9	86.8			
151.5	80.1	85.2	86.3	89.6	86.7	86.9	86.8			
154.5	80.1	85.1	86.3	89.7	86.7	86.8	86.8			
157.5	80.1		86.3	89.8	86.7					
160.5			86.4	89.9	86.6					
163.5			86.5							
166.5			86.6							
169.5			86.7							
172.5			86.7							
175.5			86.7							
178.5			86.7							
181.5			86.7							
184.5			86.8							
187.5			87.0							
190.5			87.1							
193.5			87.4							
196.5			87.6							
199.5			87.9							
202.5			88.1							
205.5			88.4							
208.5			88.6							
211.5			88.7							
214.5			88.9							
217.5			89.1							
220.5			89.4							
223.5			89.6							
226.5			89.8							
229.5			89.9							
232.5			90.0							
235.5			90.1							
238.5			90.2							
241.5			90.2							
244.5			90.2							

Figure B-6a
Surface Temperature along Horizontal Transects at Will County Station, 16 August 2002

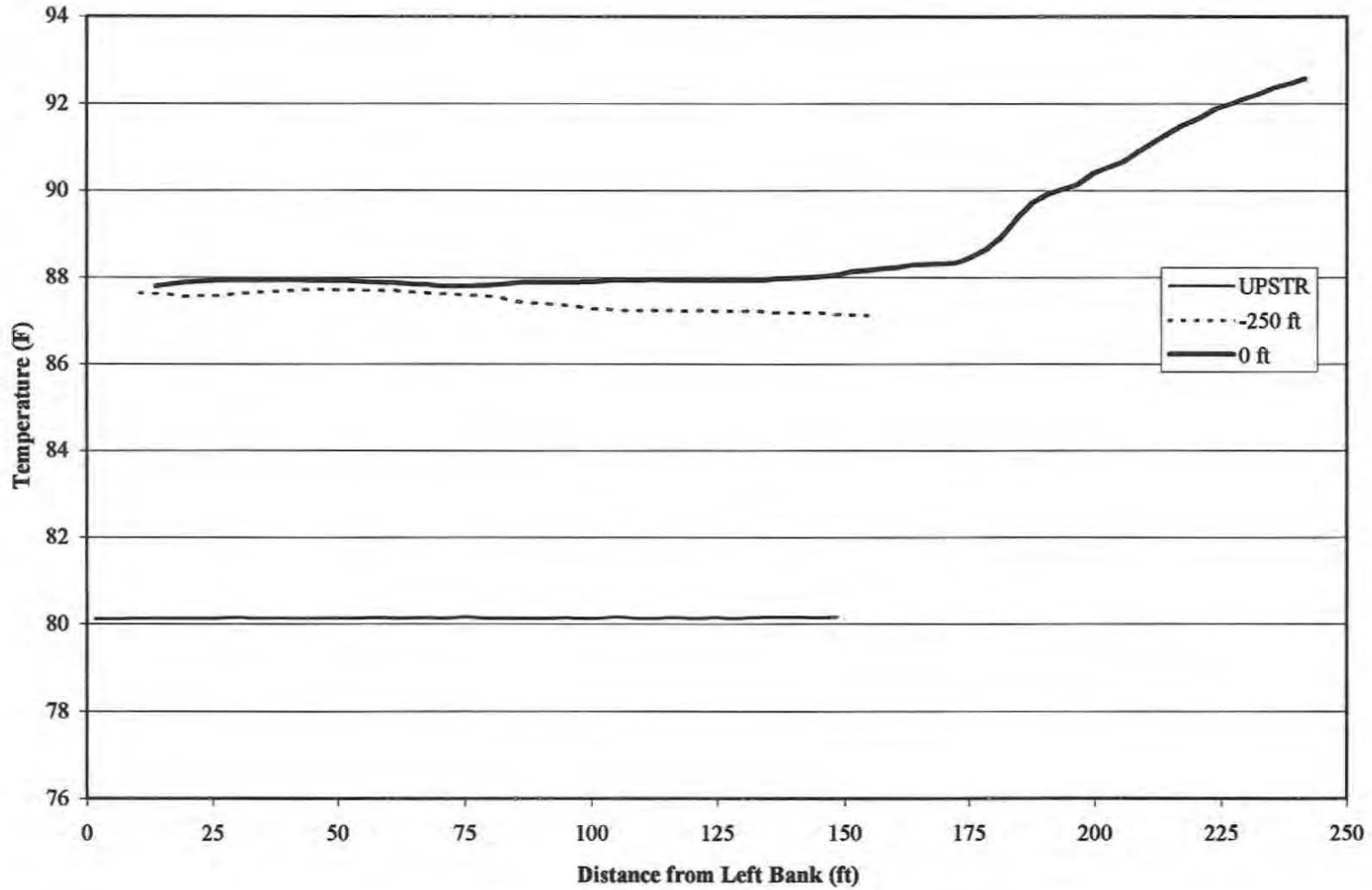


Figure B-6b
Surface Temperature along Horizontal Transects at Will County Station, 16 August 2002

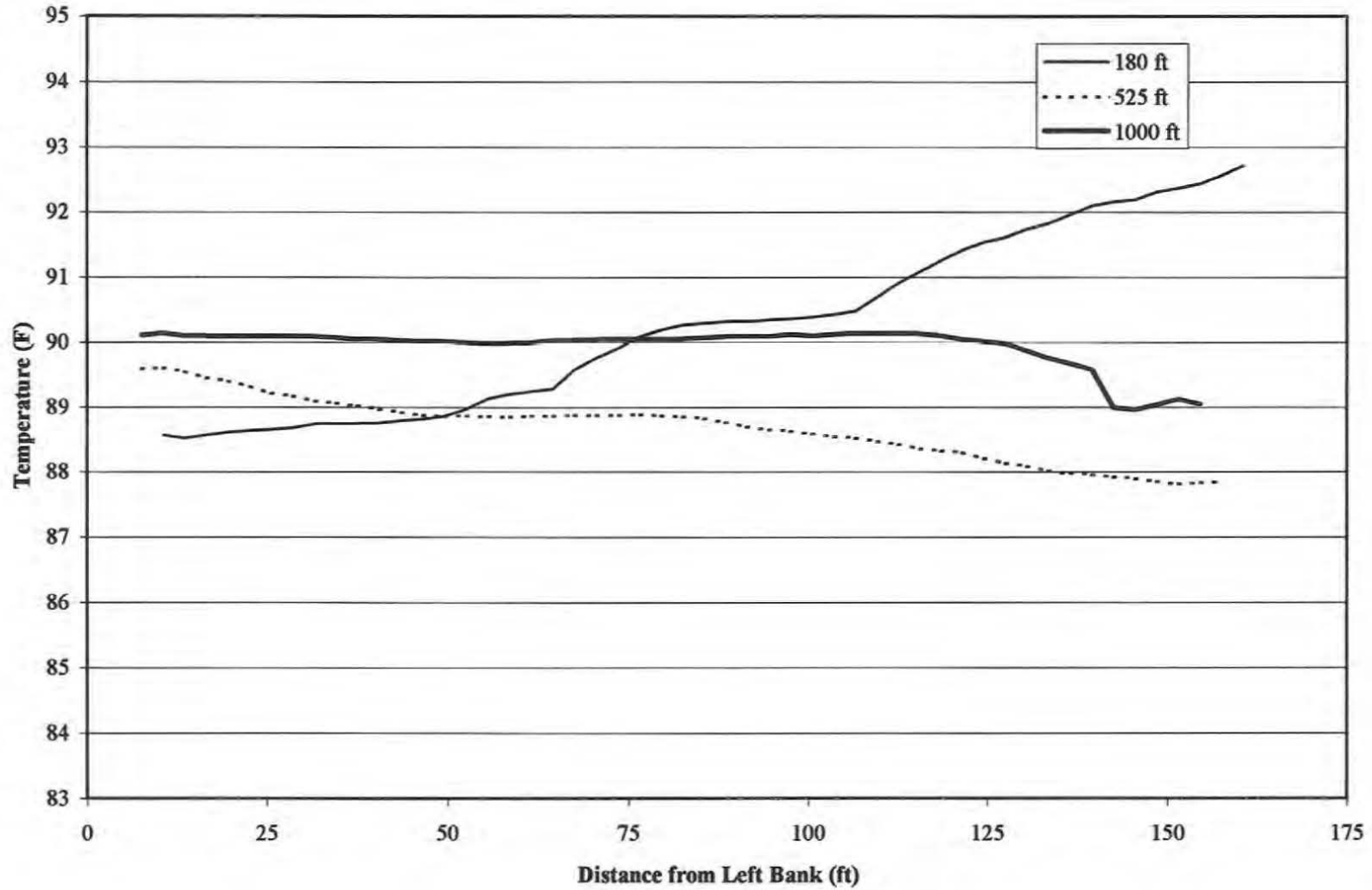


Figure B-6c
Surface Temperature along Horizontal Transects at Will County Station, 16 August 2002

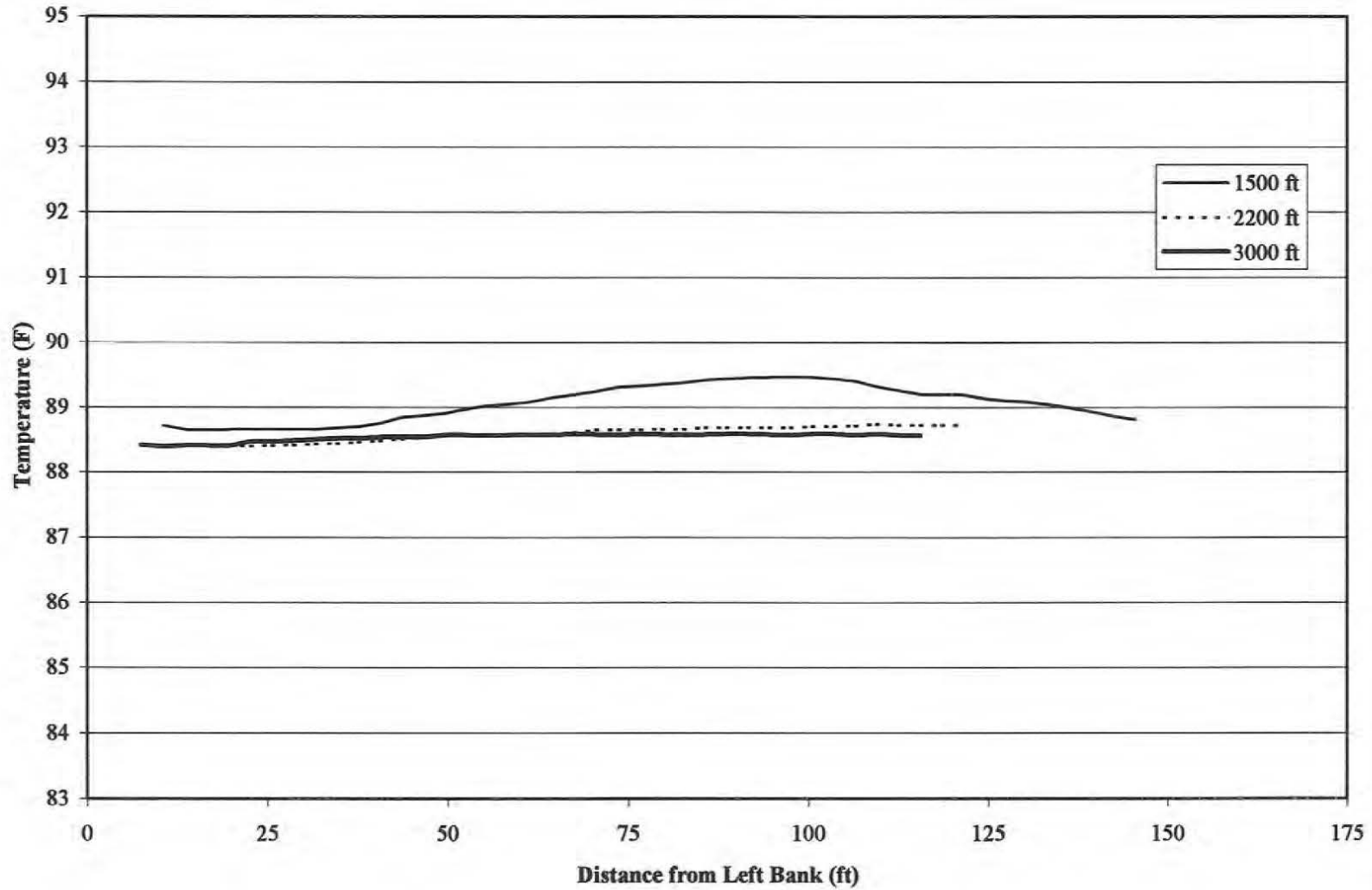


Figure B-6d
Surface Temperature along Horizontal Transects at Will County Station, 16 August 2002

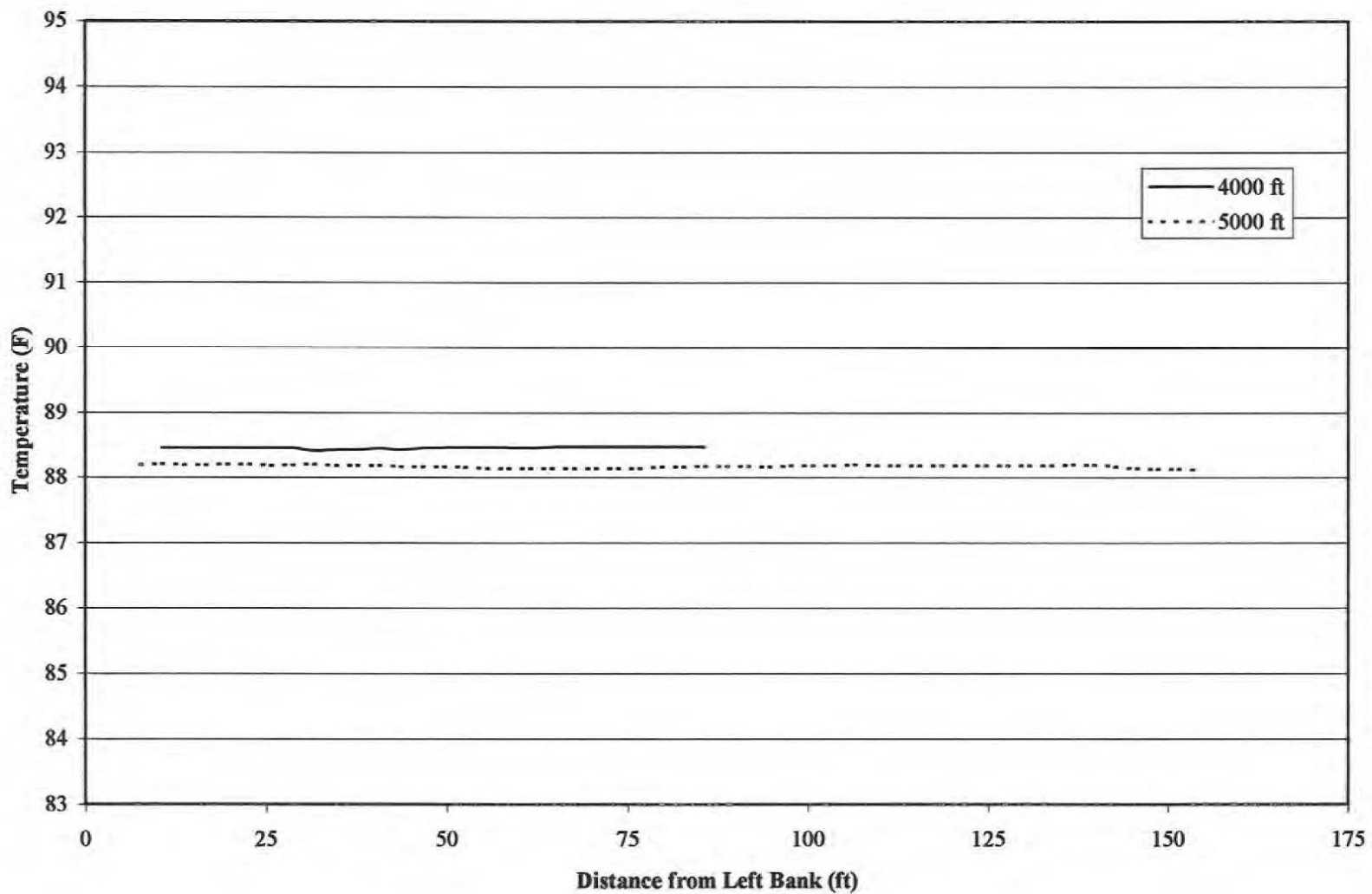


Table B-6 Surface Temperature Data near Will County Station, 16 August 2002

Distance (ft) from Left Bank	Transect										
	UPSTR	-250 ft	0 ft	180 ft	525 ft	1000 ft	1500 ft	2200 ft	3000 ft	4000 ft	5000 ft
1.5	80.1										
4.5	80.1										
7.5	80.1				89.6	90.1			88.4		88.2
10.5	80.1	87.6		88.6	89.6	90.1	88.7	88.4	88.4	88.5	88.2
13.5	80.1	87.6	87.8	88.5	89.6	90.1	88.7	88.4	88.4	88.5	88.2
16.5	80.1	87.6	87.9	88.6	89.5	90.1	88.7	88.4	88.4	88.5	88.2
19.5	80.1	87.6	87.9	88.6	89.4	90.1	88.7	88.4	88.4	88.5	88.2
22.5	80.1	87.6	87.9	88.6	89.3	90.1	88.7	88.4	88.5	88.5	88.2
25.5	80.1	87.6	87.9	88.7	89.2	90.1	88.7	88.4	88.5	88.5	88.2
28.5	80.2	87.6	87.9	88.7	89.2	90.1	88.7	88.4	88.5	88.5	88.2
31.5	80.1	87.6	87.9	88.7	89.1	90.1	88.7	88.4	88.5	88.4	88.2
34.5	80.1	87.7	87.9	88.7	89.1	90.1	88.7	88.4	88.5	88.4	88.2
37.5	80.1	87.7	87.9	88.8	89.0	90.1	88.7	88.5	88.5	88.4	88.2
40.5	80.1	87.7	87.9	88.8	89.0	90.1	88.8	88.5	88.5	88.5	88.2
43.5	80.1	87.7	87.9	88.8	88.9	90.0	88.8	88.5	88.5	88.4	88.2
46.5	80.1	87.7	87.9	88.8	88.9	90.0	88.9	88.5	88.5	88.5	88.2
49.5	80.1	87.7	87.9	88.9	88.9	90.0	88.9	88.6	88.6	88.5	88.2
52.5	80.1	87.7	87.9	89.0	88.9	90.0	89.0	88.6	88.6	88.5	88.2
55.5	80.1	87.7	87.9	89.1	88.9	90.0	89.0	88.6	88.6	88.5	88.1
58.5	80.2	87.7	87.9	89.2	88.8	90.0	89.1	88.6	88.6	88.5	88.1
61.5	80.1	87.7	87.9	89.2	88.9	90.0	89.1	88.6	88.6	88.5	88.1
64.5	80.1	87.7	87.9	89.3	88.9	90.0	89.2	88.6	88.6	88.5	88.1
67.5	80.2	87.6	87.8	89.6	88.9	90.0	89.2	88.6	88.6	88.5	88.1
70.5	80.1	87.6	87.8	89.8	88.9	90.1	89.2	88.7	88.6	88.5	88.1
73.5	80.2	87.6	87.8	89.9	88.9	90.1	89.3	88.7	88.6	88.5	88.1
76.5	80.2	87.6	87.8	90.1	88.9	90.1	89.3	88.7	88.6	88.5	88.1
79.5	80.1	87.6	87.8	90.2	88.9	90.1	89.4	88.7	88.6	88.5	88.2
82.5	80.1	87.5	87.9	90.3	88.9	90.1	89.4	88.7	88.6	88.5	88.2
85.5	80.1	87.4	87.9	90.3	88.8	90.1	89.4	88.7	88.6	88.5	88.2
88.5	80.1	87.4	87.9	90.3	88.8	90.1	89.4	88.7	88.6		88.2
91.5	80.1	87.4	87.9	90.3	88.7	90.1	89.5	88.7	88.6		88.2
94.5	80.2	87.4	87.9	90.3	88.7	90.1	89.5	88.7	88.6		88.2
97.5	80.1	87.3	87.9	90.4	88.6	90.1	89.5	88.7	88.6		88.2
100.5	80.1	87.3	87.9	90.4	88.6	90.1	89.5	88.7	88.6		88.2
103.5	80.2	87.3	87.9	90.4	88.6	90.1	89.4	88.7	88.6		88.2
106.5	80.2	87.2	87.9	90.5	88.5	90.1	89.4	88.7	88.6		88.2
109.5	80.1	87.2	87.9	90.7	88.5	90.1	89.3	88.7	88.6		88.2
112.5	80.1	87.2	88.0	90.9	88.4	90.1	89.3	88.7	88.6		88.2
115.5	80.2	87.2	87.9	91.1	88.4	90.1	89.2	88.7	88.6		88.2
118.5	80.1	87.2	87.9	91.3	88.3	90.1	89.2	88.7			88.2
121.5	80.1	87.2	87.9	91.4	88.3	90.1	89.2	88.7			88.2
124.5	80.2	87.2	87.9	91.5	88.2	90.0	89.1				88.2
127.5	80.1	87.2	87.9	91.6	88.1	90.0	89.1				88.2
130.5	80.1	87.2	87.9	91.7	88.1	89.9	89.1				88.2
133.5	80.2	87.2	87.9	91.8	88.0	89.8	89.0				88.2
136.5	80.2	87.2	88.0	92.0	88.0	89.7	89.0				88.2
139.5	80.2	87.2	88.0	92.1	88.0	89.6	88.9				88.2

Figure B-7a
Surface Temperature along Horizontal Transects at Will County Station, 29 August 2002

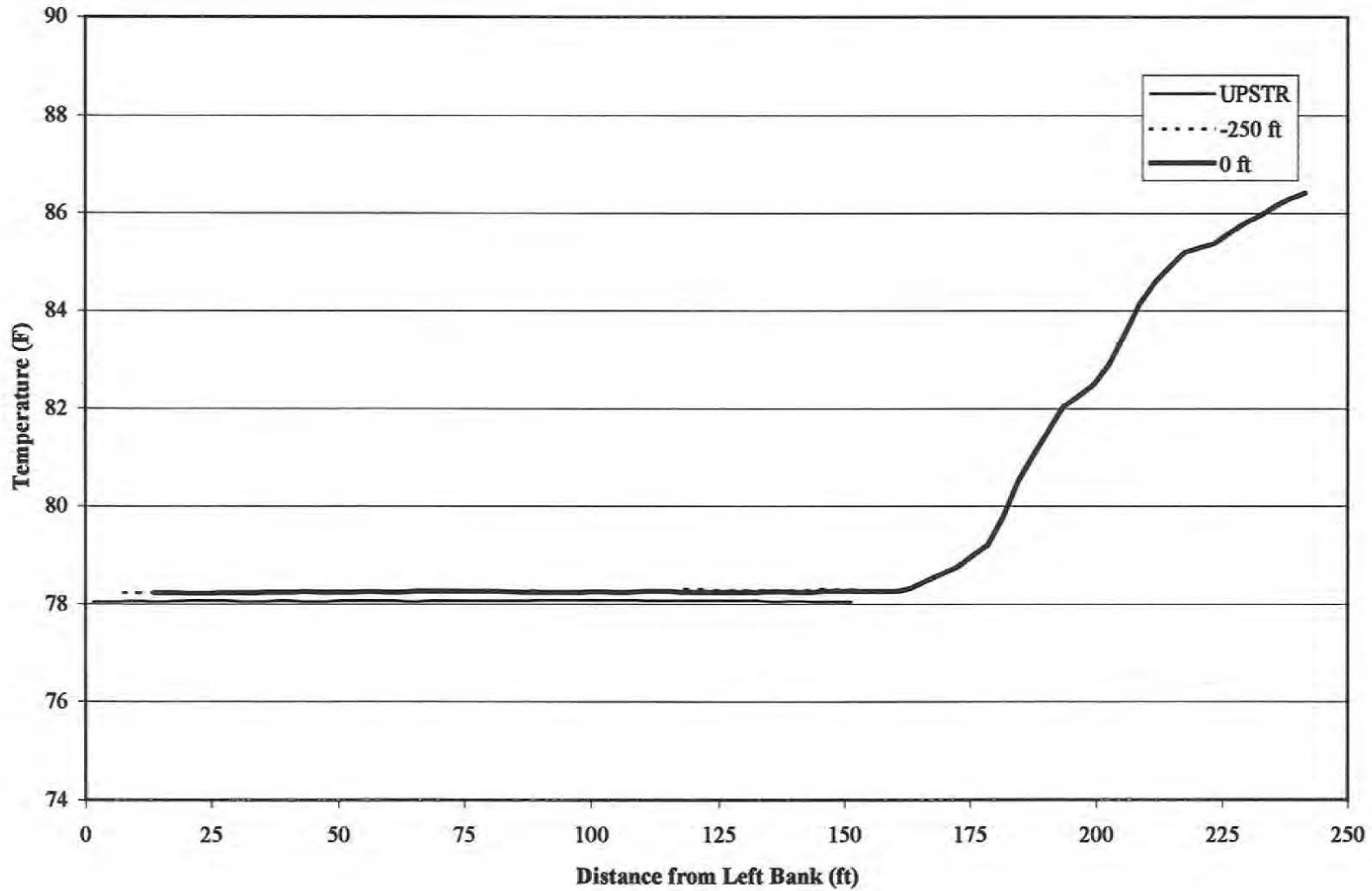


Figure B-7b
Surface Temperature along Horizontal Transects at Will County Station, 29 August 2002

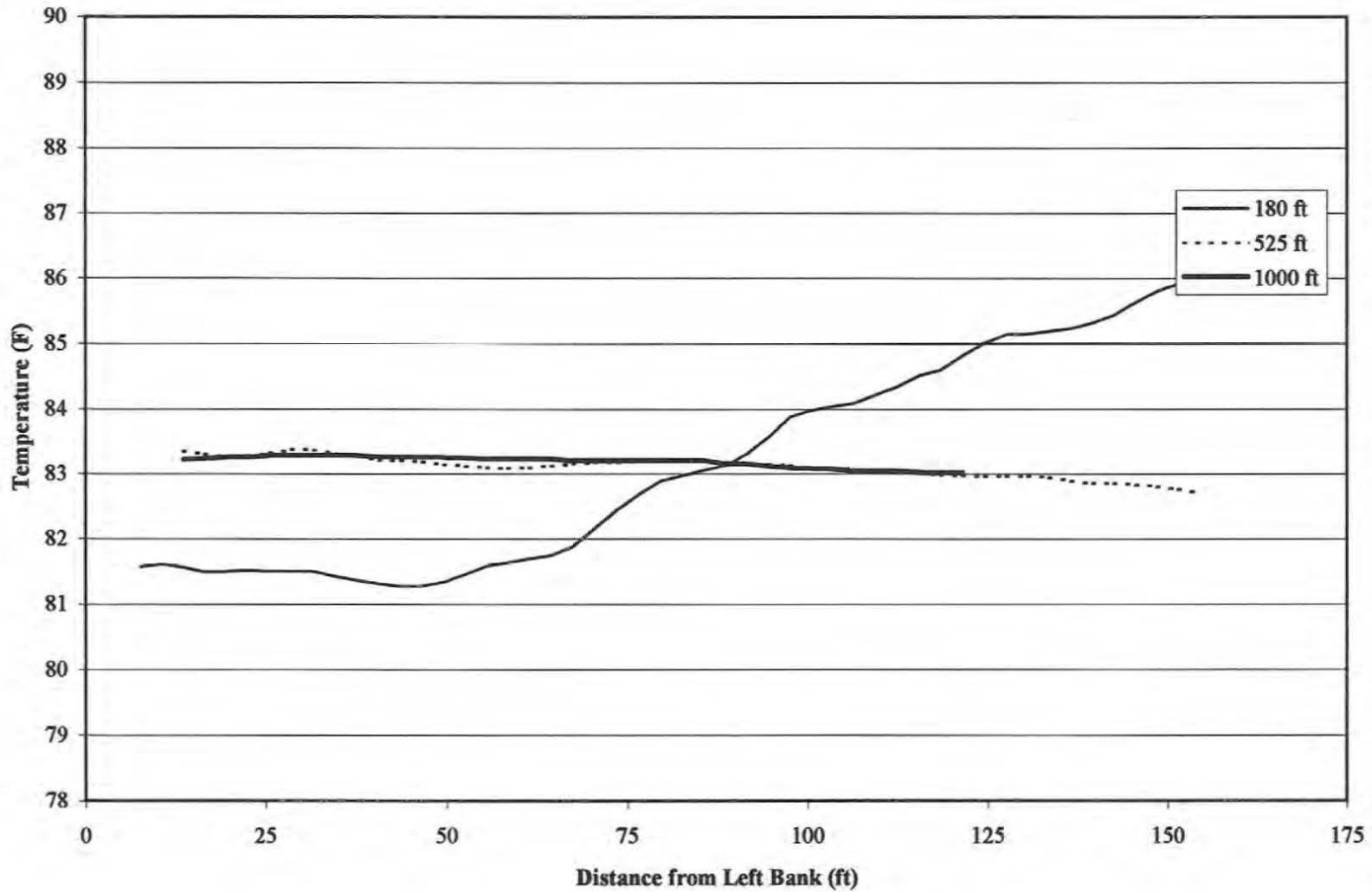


Figure B-7c
Surface Temperature along Horizontal Transects at Will County Station, 29 August 2002

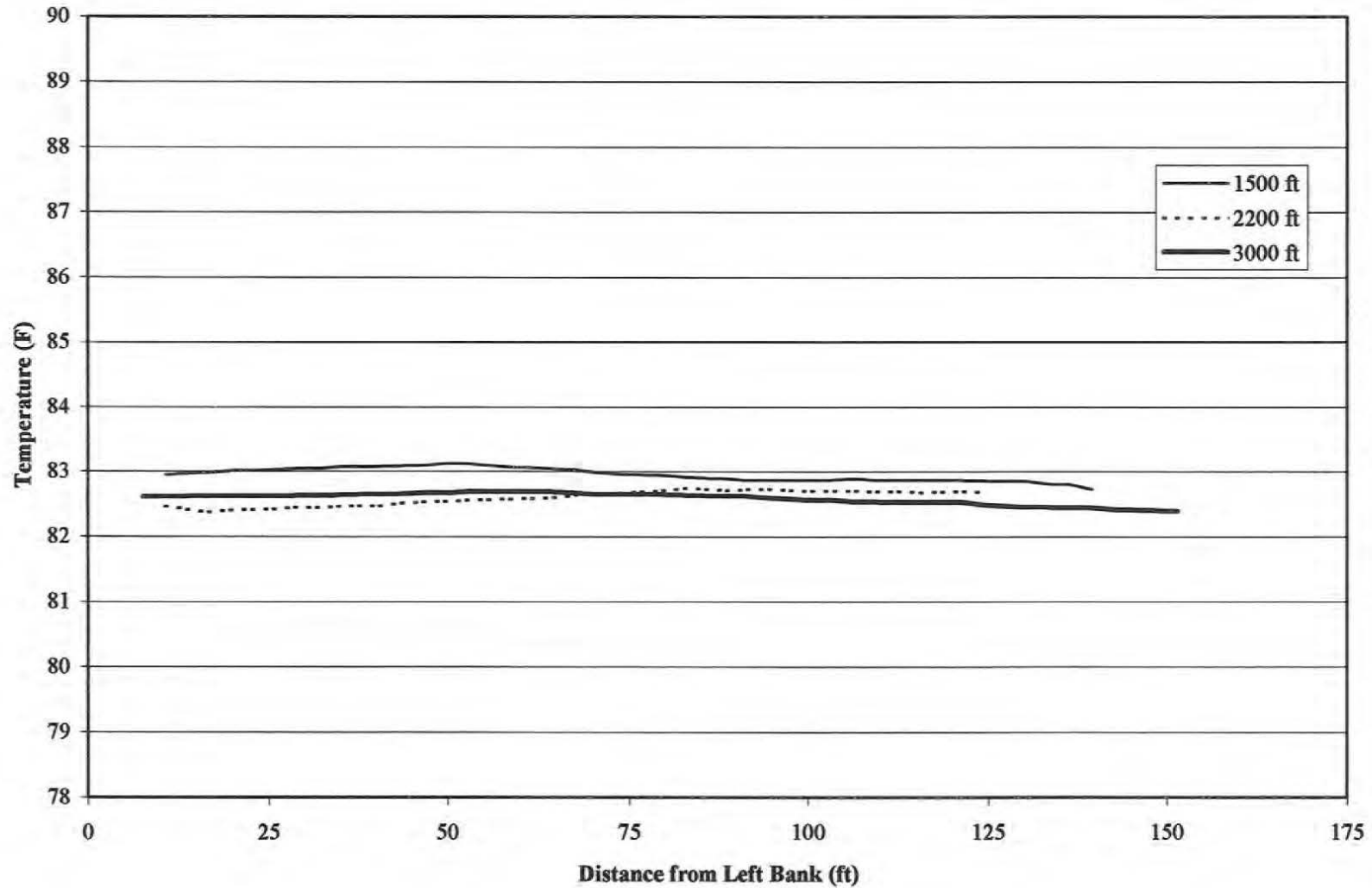


Figure B-7d
Surface Temperature along Horizontal Transects at Will County Station, 29 August 2002

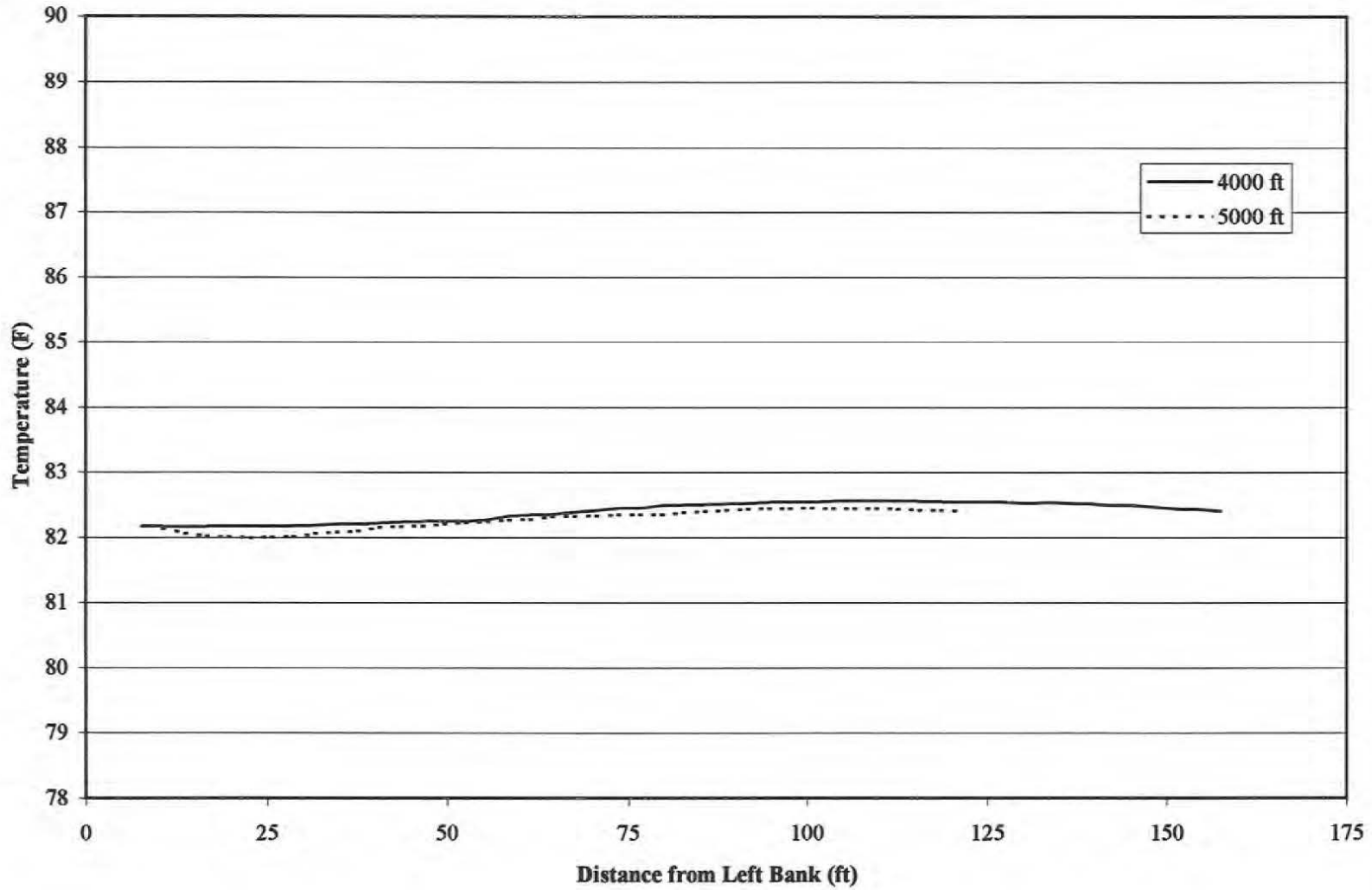


Table B-7 Surface Temperature Data near Will County Station, 29 August 2002

Distance (ft) from Left Bank	Transect										
	UPSTR	-250 ft	0 ft	180 ft	525 ft	1000 ft	1500 ft	2200 ft	3000 ft	4000 ft	5000 ft
1.5	78.0										
4.5	78.0										
7.5	78.1	78.2		81.6					82.6	82.2	
10.5	78.1	78.2		81.6			83.0	82.5	82.6	82.2	82.1
13.5	78.0	78.2	78.2	81.6	83.4	83.2	83.0	82.4	82.6	82.2	82.1
16.5	78.1	78.2	78.2	81.5	83.3	83.2	83.0	82.4	82.6	82.2	82.0
19.5	78.1	78.2	78.2	81.5	83.3	83.3	83.0	82.4	82.6	82.2	82.0
22.5	78.1	78.2	78.2	81.5	83.3	83.3	83.0	82.4	82.6	82.2	82.0
25.5	78.1	78.2	78.2	81.5	83.3	83.3	83.0	82.4	82.6	82.2	82.0
28.5	78.1	78.2	78.2	81.5	83.4	83.3	83.1	82.4	82.6	82.2	82.0
31.5	78.0	78.2	78.2	81.5	83.4	83.3	83.1	82.4	82.6	82.2	82.1
34.5	78.0	78.2	78.2	81.4	83.3	83.3	83.1	82.5	82.6	82.2	82.1
37.5	78.1	78.2	78.2	81.4	83.3	83.3	83.1	82.5	82.7	82.2	82.1
40.5	78.1	78.2	78.2	81.3	83.2	83.3	83.1	82.5	82.7	82.2	82.2
43.5	78.0	78.2	78.3	81.3	83.2	83.3	83.1	82.5	82.7	82.2	82.2
46.5	78.0	78.2	78.2	81.3	83.2	83.3	83.1	82.5	82.7	82.3	82.2
49.5	78.1	78.2	78.2	81.3	83.1	83.3	83.1	82.5	82.7	82.3	82.2
52.5	78.1	78.3	78.2	81.5	83.1	83.3	83.1	82.6	82.7	82.3	82.2
55.5	78.1	78.3	78.3	81.6	83.1	83.2	83.1	82.6	82.7	82.3	82.2
58.5	78.1	78.3	78.3	81.6	83.1	83.2	83.1	82.6	82.7	82.3	82.3
61.5	78.1	78.3	78.2	81.7	83.1	83.2	83.1	82.6	82.7	82.4	82.3
64.5	78.0	78.3	78.3	81.8	83.1	83.2	83.1	82.6	82.7	82.4	82.3
67.5	78.1	78.3	78.3	81.9	83.2	83.2	83.0	82.6	82.7	82.4	82.3
70.5	78.1	78.3	78.3	82.2	83.2	83.2	83.0	82.7	82.7	82.4	82.3
73.5	78.1	78.3	78.3	82.5	83.2	83.2	83.0	82.7	82.7	82.5	82.4
76.5	78.1	78.3	78.3	82.7	83.2	83.2	83.0	82.7	82.7	82.5	82.4
79.5	78.1	78.3	78.3	82.9	83.2	83.2	82.9	82.7	82.7	82.5	82.4
82.5	78.1	78.3	78.3	83.0	83.2	83.2	82.9	82.7	82.6	82.5	82.4
85.5	78.1	78.3	78.3	83.1	83.2	83.2	82.9	82.7	82.6	82.5	82.4
88.5	78.1	78.3	78.2	83.1	83.2	83.2	82.9	82.7	82.6	82.5	82.4
91.5	78.1	78.3	78.2	83.3	83.2	83.2	82.9	82.7	82.6	82.5	82.4
94.5	78.1	78.3	78.2	83.6	83.2	83.1	82.9	82.7	82.6	82.5	82.4
97.5	78.1	78.3	78.2	83.9	83.1	83.1	82.9	82.7	82.6	82.5	82.4
100.5	78.1	78.3	78.3	84.0	83.1	83.1	82.9	82.7	82.6	82.5	82.5
103.5	78.1	78.3	78.3	84.0	83.1	83.1	82.9	82.7	82.6	82.6	82.4
106.5	78.1	78.3	78.2	84.1	83.1	83.1	82.9	82.7	82.5	82.6	82.4
109.5	78.1	78.3	78.3	84.2	83.1	83.1	82.9	82.7	82.5	82.6	82.4
112.5	78.1	78.3	78.3	84.3	83.0	83.1	82.9	82.7	82.5	82.6	82.4
115.5	78.1	78.3	78.3	84.5	83.0	83.0	82.9	82.7	82.5	82.6	82.4
118.5	78.1	78.3	78.2	84.6	83.0	83.0	82.9	82.7	82.5	82.6	82.4
121.5	78.1	78.3	78.2	84.8	83.0	83.0	82.9	82.7	82.5	82.5	82.4
124.5	78.1	78.3	78.2	85.0	83.0		82.9	82.7	82.5	82.5	
127.5	78.1	78.3	78.2	85.1	83.0		82.9		82.5	82.5	
130.5	78.1	78.3	78.2	85.2	83.0		82.9		82.5	82.5	
133.5	78.1	78.3	78.3	85.2	82.9		82.8		82.5	82.5	
136.5	78.0	78.3	78.3	85.2	82.9		82.8		82.4	82.5	
139.5	78.1	78.3	78.3	85.3	82.9		82.7		82.4	82.5	

Figure B-8a
Surface Temperature along Horizontal Transects at Will County Station, 4 September 2002

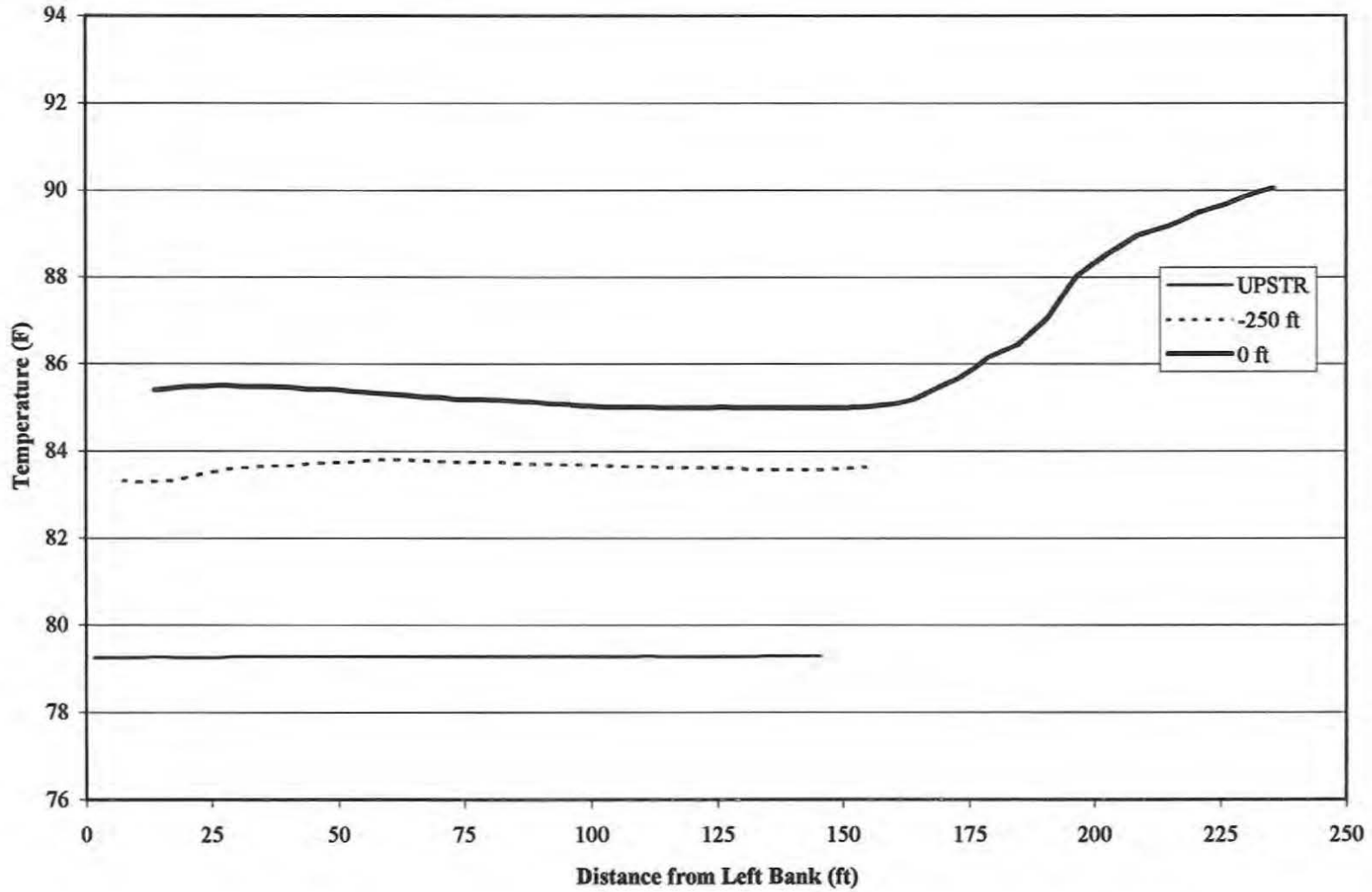


Figure B-8b
Surface Temperature along Horizontal Transects at Will County Station, 4 September 2002

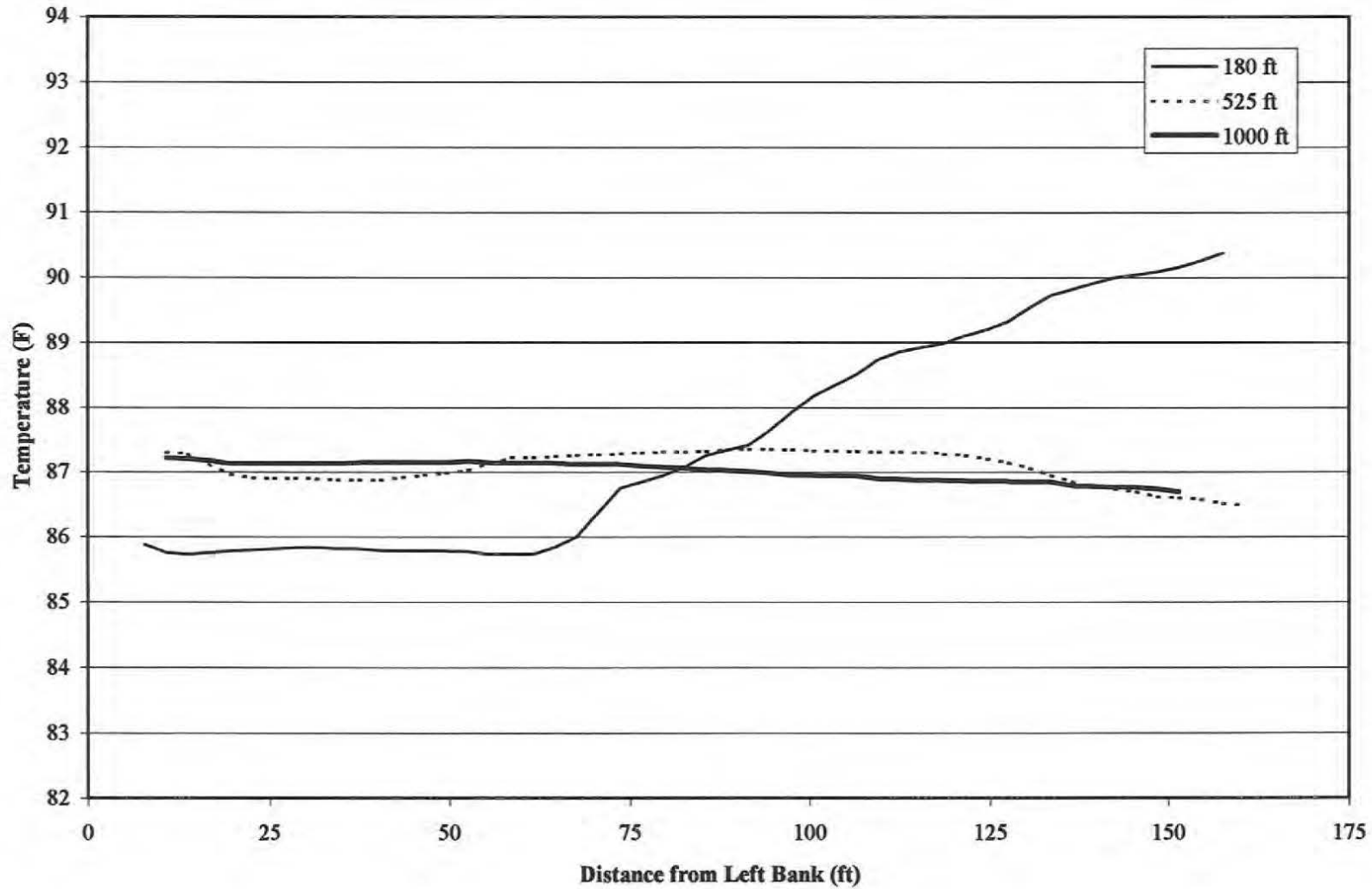


Figure B-8c
Surface Temperature along Horizontal Transects at Will County Station, 4 September 2002

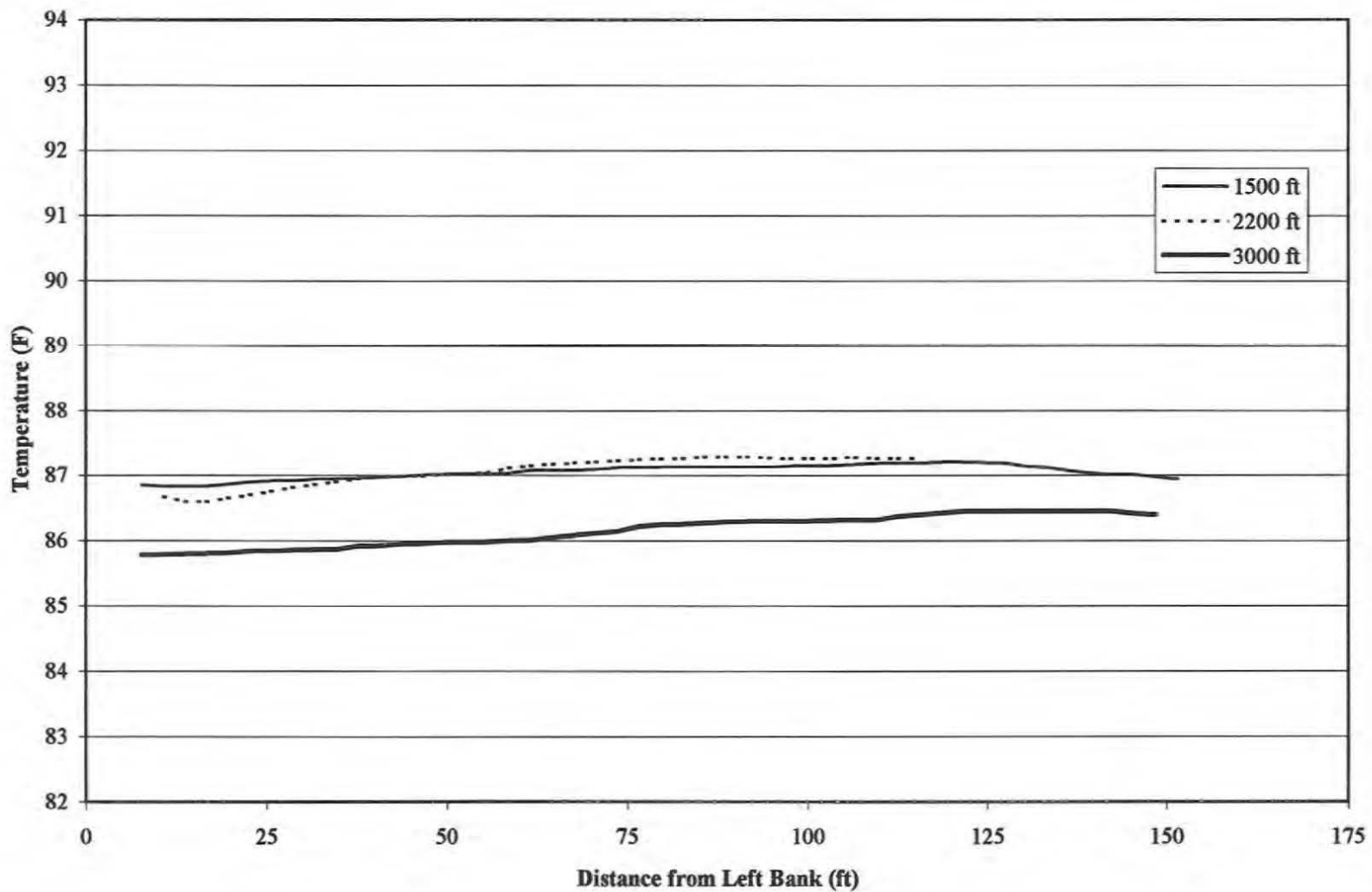


Figure B-8d
Surface Temperature along Horizontal Transects at Will County Station, 4 September 2002

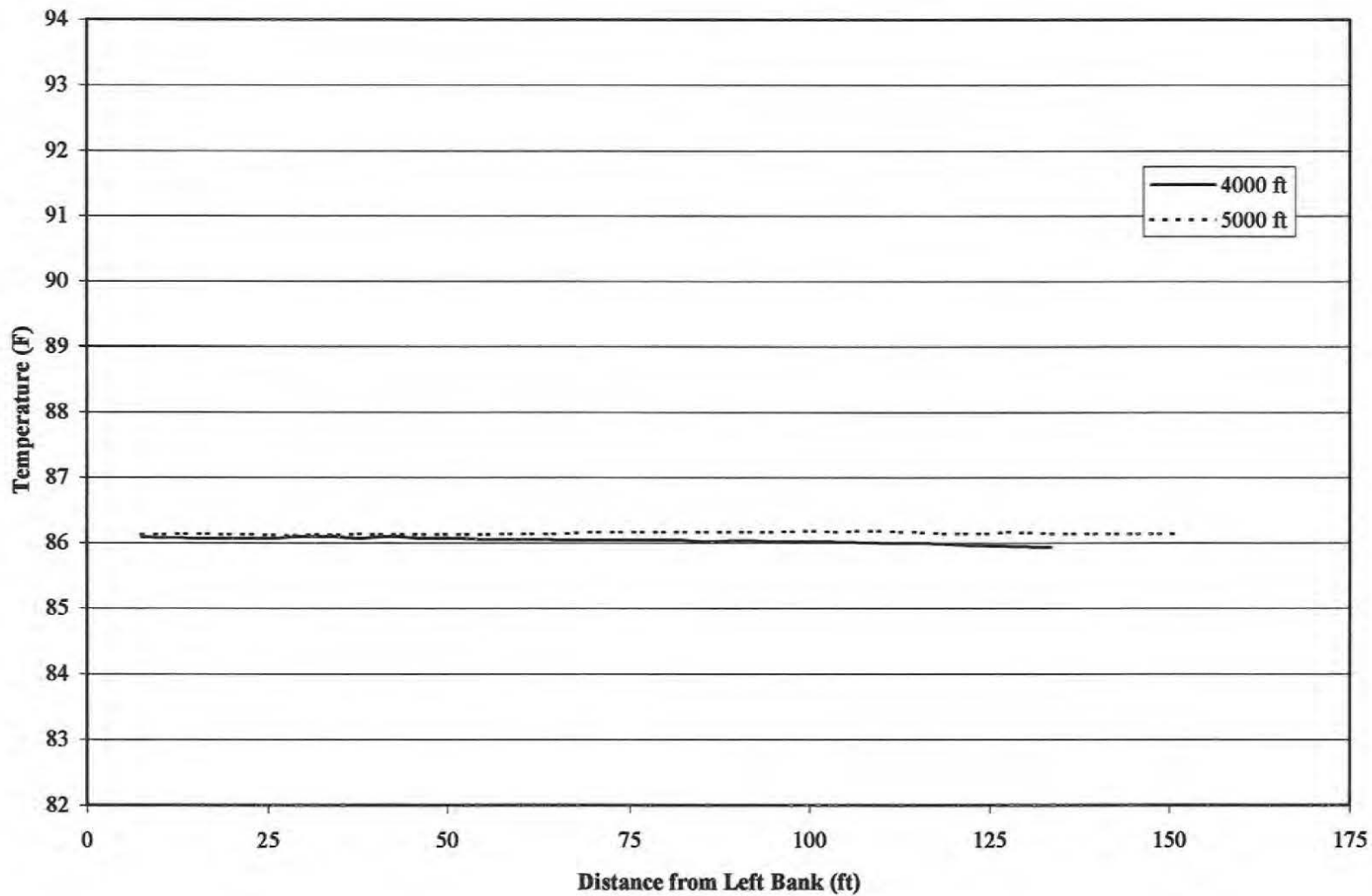


Table B-8 Surface Temperature Data near Will County Station, 4 September 2002

Distance (ft) from Left Bank	Transect										
	UPSTR	-250 ft	0 ft	180 ft	525 ft	1000 ft	1500 ft	2200 ft	3000 ft	4000 ft	5000 ft
1.5	79.3										
4.5	79.3										
7.5	79.3	83.3		85.9			86.9		85.8	86.1	86.1
10.5	79.3	83.3		85.8	87.3	87.2	86.8	86.7	85.8	86.1	86.1
13.5	79.3	83.3	85.4	85.7	87.3	87.2	86.8	86.6	85.8	86.1	86.1
16.5	79.3	83.3	85.4	85.8	87.1	87.2	86.8	86.6	85.8	86.1	86.1
19.5	79.3	83.4	85.5	85.8	87.0	87.1	86.9	86.7	85.8	86.1	86.1
22.5	79.3	83.5	85.5	85.8	86.9	87.1	86.9	86.7	85.8	86.1	86.1
25.5	79.3	83.5	85.5	85.8	86.9	87.1	86.9	86.8	85.8	86.1	86.1
28.5	79.3	83.6	85.5	85.8	86.9	87.1	86.9	86.8	85.9	86.1	86.1
31.5	79.3	83.6	85.5	85.8	86.9	87.1	86.9	86.9	85.9	86.1	86.1
34.5	79.3	83.6	85.5	85.8	86.9	87.1	87.0	86.9	85.9	86.1	86.1
37.5	79.3	83.7	85.5	85.8	86.9	87.2	87.0	86.9	85.9	86.1	86.1
40.5	79.3	83.7	85.5	85.8	86.9	87.2	87.0	87.0	85.9	86.1	86.1
43.5	79.3	83.7	85.4	85.8	86.9	87.2	87.0	87.0	86.0	86.1	86.1
46.5	79.3	83.7	85.4	85.8	87.0	87.2	87.0	87.0	86.0	86.1	86.1
49.5	79.3	83.7	85.4	85.8	87.0	87.2	87.0	87.0	86.0	86.1	86.1
52.5	79.3	83.8	85.4	85.8	87.0	87.2	87.0	87.0	86.0	86.1	86.1
55.5	79.3	83.8	85.4	85.7	87.1	87.2	87.0	87.0	86.0	86.1	86.1
58.5	79.3	83.8	85.3	85.7	87.2	87.1	87.0	87.1	86.0	86.1	86.1
61.5	79.3	83.8	85.3	85.7	87.2	87.1	87.1	87.2	86.0	86.1	86.1
64.5	79.3	83.8	85.3	85.8	87.2	87.1	87.1	87.2	86.1	86.1	86.1
67.5	79.3	83.8	85.2	86.0	87.3	87.1	87.1	87.2	86.1	86.0	86.2
70.5	79.3	83.8	85.2	86.4	87.3	87.1	87.1	87.2	86.1	86.0	86.2
73.5	79.3	83.8	85.2	86.8	87.3	87.1	87.1	87.2	86.2	86.0	86.2
76.5	79.3	83.7	85.2	86.9	87.3	87.1	87.1	87.2	86.2	86.0	86.2
79.5	79.3	83.7	85.2	86.9	87.3	87.1	87.1	87.3	86.3	86.1	86.2
82.5	79.3	83.7	85.2	87.1	87.3	87.1	87.1	87.3	86.3	86.0	86.2
85.5	79.3	83.7	85.2	87.3	87.3	87.0	87.1	87.3	86.3	86.0	86.2
88.5	79.3	83.7	85.1	87.3	87.3	87.0	87.1	87.3	86.3	86.0	86.2
91.5	79.3	83.7	85.1	87.4	87.4	87.0	87.1	87.3	86.3	86.0	86.2
94.5	79.3	83.7	85.1	87.7	87.4	87.0	87.1	87.3	86.3	86.0	86.2
97.5	79.3	83.7	85.1	87.9	87.3	87.0	87.2	87.3	86.3	86.0	86.2
100.5	79.3	83.7	85.0	88.2	87.3	87.0	87.2	87.3	86.3	86.0	86.2
103.5	79.3	83.7	85.0	88.3	87.3	86.9	87.2	87.3	86.3	86.0	86.2
106.5	79.3	83.6	85.0	88.5	87.3	86.9	87.2	87.3	86.3	86.0	86.2
109.5	79.3	83.6	85.0	88.7	87.3	86.9	87.2	87.3	86.3	86.0	86.2
112.5	79.3	83.6	85.0	88.9	87.3	86.9	87.2	87.3	86.4	86.0	86.2
115.5	79.3	83.6	85.0	88.9	87.3	86.9	87.2	87.3	86.4	86.0	86.2
118.5	79.3	83.6	85.0	89.0	87.3	86.9	87.2		86.4	86.0	86.1
121.5	79.3	83.6	85.0	89.1	87.3	86.9	87.2		86.5	86.0	86.1
124.5	79.3	83.6	85.0	89.2	87.2	86.9	87.2		86.5	86.0	86.1
127.5	79.3	83.6	85.0	89.3	87.2	86.9	87.2		86.5	86.0	86.2
130.5	79.3	83.6	85.0	89.5	87.1	86.9	87.1		86.5	85.9	86.2
133.5	79.3	83.6	85.0	89.7	87.0	86.9	87.1		86.5	85.9	86.1
136.5	79.3	83.6	85.0	89.8	86.9	86.8	87.1		86.5		86.1
139.5	79.3	83.6	85.0	89.9	86.8	86.8	87.0		86.5		86.1

APPENDIX C

**VERTICAL PROFILE TEMPERATURE DATA FOR EACH TRANSECT
AND SAMPLING DATE**

Table C-1a
 Vertical Temperature Profiles at Will County Station, 27 June 2002

Depth (ft)	UPSTR-1/2 1031	W-250-1/2 1024	W0-1/5 1022	W0-4/5 1020	W180-1/2 1017	W525-1/2 1015
0.25	79.0	86.0	87.2	91.5	89.1	88.2
1	79.0	86.3	87.1	91.4	89.0	88.5
2	79.0	86.2	87.2	91.1	89.0	88.6
3	79.0	86.1	87.2	91.0	88.9	88.6
4	78.9	86.1	87.1	91.3	88.8	88.6
5	78.9	86.0	87.0	91.5	88.8	88.6
6	78.9	85.9	87.0	91.5	88.7	88.6
7	78.9	85.7	86.9	91.5	88.7	88.6
8	78.9	85.6	86.9	91.5	88.4	88.6
9	78.9	85.3	86.8	91.6	88.0	88.6
10	78.9	85.0	86.8	91.6	87.7	88.6
11	78.9	84.7	86.8	91.6	87.5	88.6
12	78.9	84.3	86.5	91.6	87.5	88.5
13	78.9	84.0	86.0		87.4	88.5
14	78.9	83.6	85.6		87.4	88.5
15	78.9	83.2	85.1		87.3	88.5
16	78.9	82.9	84.6		87.2	88.5
17	78.9	82.4	84.3		87.1	88.5
18	78.9	82.0	84.0		86.8	88.5
19	78.9	81.7	83.5		86.3	88.5
20	78.9	81.5	82.9		85.9	88.4
21	78.9	81.3	82.5		85.6	88.3
22	78.9	81.0	82.3		85.7	88.1
23	78.9	80.8	81.9		85.9	87.9
24	78.9	80.6	81.5		84.4	87.7
25	78.8	80.4	81.0		82.7	87.3
26	79.0	81.1	81.6		83.5	87.1

Table C-1b
 Vertical Temperature Profiles at Will County Station, 27 June 2002

Depth (ft)	W1000-1/2 1003	W1500-1/2 0959	W2200-1/2 0956	W3000-1/2 0953	W4000-1/2 0949	W5000-1/2 0943
0.25	88.1		85.8	85.9	86.5	86.9
1	88.1	86.3	85.9	86.0	86.5	86.9
2	88.1	86.4	86.1	86.0	86.6	86.9
3	88.0	86.3	85.9	86.0	86.6	86.9
4	87.9	86.2	85.8	86.1	86.6	86.9
5	87.9	86.2	85.9	86.1	86.6	86.9
6	87.8	86.3	86.0	86.1	86.6	86.9
7	87.7	86.3	86.0	86.0	86.6	86.9
8	87.5	86.3	86.0	86.0	86.6	86.9
9	87.4	86.4	86.0	86.0	86.6	86.9
10	87.3	86.4	86.0	86.0	86.6	86.9
11	87.2	86.3	86.0	86.1	86.6	86.8
12	87.2	86.2	86.0	86.1	86.6	86.8
13	87.1	86.3	86.0	86.1	86.6	86.8
14	87.1	86.4	86.0	86.1	86.6	86.8
15	87.0	86.4	86.0	86.1	86.7	86.8
16	87.0	86.5	85.9	86.1	86.7	86.7
17	86.9	86.5	86.0	86.0	86.7	86.8
18	86.9	86.5	86.0	86.0	86.7	86.8
19	86.9	86.5	86.0	86.0	86.7	86.8
20	86.9	86.5	86.0	86.0	86.7	86.7
21	86.8	86.3	86.0	85.9	86.7	86.7
22	86.8		86.0	85.9	86.7	86.7
23	86.8		85.9	85.9	86.6	86.6
24	86.8		85.9	85.9	86.6	86.7
25	86.6		85.9	85.8	86.6	
26	86.7		85.9	85.7	86.5	

Table C-2a
 Vertical Temperature Profiles at Will County Station, 10 July 2002

Depth (ft)	UPSTR-1/4 1356	UPSTR-1/2 1354	UPSTR-3/4 1359	W-250-1/4 1342	W-250-1/2 1344	W-250-3/4 1346
0.25	80.3		80.3	82.4	80.2	79.8
1	80.2	80.6	80.2	83.0	79.9	79.8
2	80.1	80.2	80.0	82.2	79.8	79.7
3	80.1	80.0	79.9	81.7	79.7	79.7
4	80.0	80.0	79.9	81.2	79.7	79.7
5	79.9	80.0	79.8	80.6	79.7	79.6
6	79.9	79.9	79.8	80.2	79.7	79.6
7	79.8	79.9	79.8	80.0	79.7	79.6
8	79.8	79.8	79.8	79.8	79.6	79.6
9	79.8	79.8	79.8	79.8	79.6	79.6
10	79.8	79.8	79.8	79.8	79.6	79.6
11	79.8	79.8	79.8	79.8	79.6	79.6
12	79.7	79.8	79.7	79.8	79.6	79.6
13	79.8	79.8	79.8	79.7	79.6	79.6
14	79.8	79.8	79.8	79.7	79.5	79.6
15	79.8	79.7	79.8	79.7	79.5	79.6
16	79.8	79.7	79.7	79.7	79.5	79.5
17	79.7	79.7	79.7	79.7	79.5	79.5
18	79.7	79.7	79.7	79.7	79.5	79.5
19	79.7	79.7	79.7	79.6	79.5	79.5
20	79.7	79.7	79.7	79.6	79.5	79.5
21	79.7	79.7	79.7	79.5	79.5	79.5
22	79.7	79.7	79.7	79.5	79.5	79.5
23	79.7	79.7	79.7	79.5	79.5	79.5
24	79.7	79.7	79.7	79.5	79.5	79.5
25	79.7	79.7	79.7	79.5	79.5	79.5
26	79.7	79.7	79.7	79.5	79.5	79.5
27	79.7		79.7			

Table C-2b
 Vertical Temperature Profiles at Will County Station, 10 July 2002

Depth (ft)	W0-1/5 1332	W0-2/5 1334	W0-3/5 1336	W0-4/5 1339
0.25	85.1	84.2	84.8	90.6
1	85.1	84.7	84.8	91.8
2	85.1	84.9	85.4	91.7
3	85.0	84.8	85.4	91.8
4	84.7	84.7	84.9	91.9
5	84.2	84.6	84.3	91.9
6	83.6	84.5	83.4	91.9
7	82.7	84.3	83.0	91.9
8	82.5	83.5	82.5	91.8
9	82.7	82.6	82.2	91.8
10	82.1	82.2	81.9	91.4
11	81.9	82.0	81.6	90.9
12	81.0	81.9	81.4	90.7
13	80.6	81.5	81.3	90.5
14	80.4	81.6	81.2	90.9
15	80.2	81.2	81.2	
16	80.0	81.0	81.2	
17	80.0	80.6	80.9	
18	80.0	80.8	80.9	
19	80.5	80.7	80.8	
20	80.1	80.4	80.4	
21	80.0	80.2	80.0	
22	79.8	80.0	79.7	
23	79.7	79.9	79.7	
24	79.7	80.1	79.6	
25	79.7	80.1	79.6	
26	79.9	80.0	79.8	
27				

Table C-2c
 Vertical Temperature Profiles at Will County Station, 10 July 2002

Depth (ft)	W180-1/4 1326	W180-1/2 1327	W180-3/4 1330	W525-1/4 1314	W525-1/2 1316	W525-3/4 1318
0.25	86.9	86.6	90.0	87.5	87.1	86.5
1	86.4	86.2	91.3	87.7	87.3	86.5
2	86.1	86.0	91.7	87.6	87.2	86.4
3	86.1	86.0	91.8	87.5	87.1	86.4
4	86.3	85.9	91.8	87.5	87.1	86.3
5	85.8	85.7	91.4	87.6	87.1	86.3
6	85.7	85.2	91.1	87.6	87.3	86.3
7	85.8	84.8	90.8	87.7	87.3	86.4
8	85.6	84.5	90.7	87.9	87.3	86.3
9	85.6	84.7	91.1	87.9	87.2	86.0
10	85.6	84.7	90.9	87.8	87.1	85.8
11	85.7	84.7	90.0	87.6	87.1	85.7
12	85.7	84.7	89.5	87.3	87.1	85.4
13	85.7	84.6	89.4	87.0	87.1	85.1
14	85.6	84.6	89.1	86.8	87.0	84.7
15	85.6	84.2	87.5	86.6	86.9	84.4
16	85.7	83.8	87.4	86.5	86.8	84.3
17	85.5	82.8	88.3	86.4	86.6	84.1
18	85.4	81.5	87.8	86.1	86.5	84.1
19	85.7	80.9	87.6	85.7	86.3	84.0
20	85.5	80.3	84.3	84.8	86.1	84.0
21	85.3	80.0	82.1	83.5	86.0	84.0
22	85.1	79.8	80.3	82.2	85.8	84.1
23	85.0	79.7	79.9	81.9	85.8	84.1
24	85.0	79.6	79.8	81.6	85.4	84.2
25	84.8	79.6	79.8	81.1	85.0	
26	84.6	79.6	79.8	80.9	83.0	
27		79.6	79.7	81.7		

Table C-2d
 Vertical Temperature Profiles at Will County Station, 10 July 2002

Depth (ft)	W1000-1/4 1306	W1000-1/2 1308	W1000-3/4 1310	W1500-1/4 1259	W1500-1/2 1301	W1500-3/4 1303
0.25	88.0	87.0	86.1		86.6	86.7
1	88.4	87.5	86.1	87.2	86.9	86.7
2	88.2	87.5	86.1	87.2	86.9	86.7
3	88.2	87.5	86.1	87.2	86.9	86.8
4	88.2	87.5	86.1	87.1	86.8	86.7
5	88.1	87.3	86.1	86.7	86.6	86.7
6	88.1	87.1	86.0	86.4	86.3	86.6
7	87.9	87.0	85.9	86.3	86.2	86.4
8	87.8	87.0	85.8	86.2	86.1	86.3
9	87.5	86.9	85.7	86.0	86.0	86.3
10	87.1	86.7	85.5	85.6	85.9	86.2
11	86.8	86.5	85.4	85.3	85.8	86.2
12	86.7	86.4	85.3	85.1	85.6	86.1
13	86.6	86.3	85.4	84.9	85.4	86.0
14	86.6	86.2	85.3	84.7	85.3	85.9
15	86.5	86.2	85.2	84.6	85.2	85.8
16	86.5	86.0	85.2	84.5	85.0	85.8
17	86.5	85.8	85.3	84.4	84.7	85.8
18	86.3	85.6	85.3	84.0	84.4	85.7
19	86.0	85.3	85.3	83.6	84.0	85.7
20	85.6	85.0	85.0	83.3	83.4	85.6
21	85.3	84.5	84.6	83.0	83.0	85.1
22	85.1	83.8	84.5	82.6	82.7	83.8
23	84.9	83.5	84.0	82.0	82.4	82.6
24	84.4	83.4	83.3	81.4	82.2	82.1
25	83.9	83.4	82.8	81.2	81.9	
26	83.3	83.5	82.3	81.0	81.5	
27	83.1			81.1		

Table C-2e
Vertical Temperature Profiles at Will County Station, 10 July 2002

Depth (ft)	W2200-1/4 1251	W2200-1/2 1252	W2200-3/4 1255	W3000-1/4 1232	W3000-1/2 1240	W3000-3/4 1242
0.25	86.4	87.1	86.9	87.3		86.0
1	87.1	87.3	87.2	87.4	85.4	86.2
2	87.2	87.2	87.1	87.5	85.2	86.3
3	87.3	87.3	87.1	87.4	85.2	86.2
4	87.3	87.3	87.1	87.3	85.2	86.0
5	87.2	87.3	87.1	87.2	85.2	85.8
6	87.2	87.2	87.0	87.0	85.2	85.6
7	87.1	87.2	87.0	86.8	85.1	85.5
8	87.0	87.1	86.7	86.7	85.1	85.6
9	86.9	87.0	86.4	86.5	85.1	85.6
10	86.8	86.9	86.3	86.4	85.1	85.7
11	86.7	86.7	86.2	86.3	85.1	85.7
12	86.7	86.5	86.1	86.1	85.2	85.7
13	86.6	86.6	86.1	86.1	85.2	85.7
14	86.6	86.4	85.9	86.0	85.1	85.7
15	86.5	86.2	85.7	85.7	85.1	85.5
16	86.4	86.1	85.7	85.4	85.1	85.4
17	86.2	86.0	85.6	85.3	85.1	85.2
18	85.9	85.9	85.4	85.3	84.9	85.1
19	85.0	85.7	85.6	85.2	84.6	84.9
20	84.3	85.4	85.3	84.9	84.3	84.6
21	84.6	85.3	85.1	84.3	84.0	84.4
22	84.0	84.9	85.4	83.9	83.8	84.0
23	83.4	84.3	85.3	83.7	83.9	83.6
24	83.0	84.0	85.1	83.4	83.6	83.4
25	83.5	83.8		83.9	83.1	83.0
26		84.2		84.2	83.0	82.8
27						

Table C-2f
 Vertical Temperature Profiles at Will County Station, 10 July 2002

Depth (ft)	W4000-1/4 1222	W4000-1/2 1225	W4000-3/4 1228	W5000-1/4 1213	W5000-1/2 1216	W5000-3/4 1218
0.25	86.7	86.6	86.6	85.7	86.1	85.3
1	86.8	86.9	87.1	85.8	86.1	85.3
2	86.8	86.9	87.1	85.8	86.1	85.3
3	86.8	86.9	87.0	85.7	86.0	85.3
4	86.7	86.9	87.0	85.7	86.0	85.2
5	86.6	86.8	86.8	85.6	86.0	85.2
6	86.5	86.6	86.7	85.6	85.9	85.2
7	86.3	86.4	86.5	85.6	85.9	85.2
8	86.0	86.2	86.3	85.6	85.8	85.3
9	85.8	86.0	86.2	85.6	85.8	85.2
10	85.7	86.0	86.1	85.6	85.7	85.2
11	85.7	85.9	86.0	85.6	85.6	85.2
12	85.6	85.8	85.9	85.5	85.6	85.1
13	85.6	85.7	85.7	85.3	85.6	85.1
14	85.6	85.6	85.7	85.3	85.6	85.1
15	85.5	85.5	85.7	85.4	85.6	85.1
16	85.4	85.3	85.5	85.4	85.6	85.1
17	85.2	85.2	85.3	85.4	85.5	
18	85.0	85.1	85.1	85.4	85.4	
19	84.7	85.0	85.2	85.4	85.4	
20	84.6	84.9	85.8	85.3	85.3	
21	84.4	84.7	86.0	85.2	85.3	
22	84.4	84.6	85.0	85.1	85.2	
23	83.8	84.4	83.8	85.2	85.2	
24	83.2	84.1	83.4	85.4	85.2	
25	82.9	84.0	83.5	85.4	85.1	
26	82.9	83.7		85.4	85.0	
27					85.0	