



Figure 1. Comparison of forest coverage between 1890 and 1989 for Pool 8 of the Mississippi River located near La Crosse, Wisconsin. The combined effects of agriculture, urbanization and construction of the locks and dams caused an 84% loss in the acreage of bottomland forest in 100 years. Numbers indicate locations of plots used in this activity.

BOTTOMLAND FOREST OVERSTORY INVENTORY

Plot Number: 1	Date 07/14/2004	Pool: 8	Geomorphology: Natural Ridge
	UTM Coord N 4858427	UTM Coord E 638491	NAD27 Zone 15
Pool Elevation 632.76	Ground Elevation 635.22	Basal Area 150	

Tree	Common Name	dbh (inches)	Total Height (feet)	Merchantable Height (logs)	Age (yrs)	Health	Crown Class
1	Silver Maple	5.8	80	0.0		Vigorous	Intermediate
2	Silver Maple	5.9	42	0.0		Vigorous	Suppressed
3	Silver Maple	13.0	81	0.5		Vigorous	Co-dominant
4	Silver Maple	6.4	45	0.0		Vigorous	Intermediate
5	Silver Maple	13.7	74	1.5		Vigorous	Co-dominant
6	River Birch	9.2	8	0.0		Snag	Snag
7	Silver Maple	13.0	80	1.5		Vigorous	Co-dominant
8	Silver Maple	7.8	55	0.0		Vigorous	Co-dominant
9	Silver Maple	13.8	72	1.0		Vigorous	Co-dominant
10	Silver Maple	13.6	78	1.5		Vigorous	Co-dominant
11	Silver Maple	8.1	70	0.0		Vigorous	Intermediate
12	Silver Maple	8.1	65	0.0		Vigorous	Intermediate
13	Silver Maple	12.6	78	0.0		Vigorous	Co-dominant
14	Silver Maple	7.4	62	0.0		Vigorous	Intermediate
15	American Elm	50.0	34	0.0		Vigorous	Suppressed
16	River Birch	11.9	70	1.0		Vigorous	Co-dominant
17	Silver Maple	5.0	34	0.0		Vigorous	Intermediate
18	River Birch	11.8	74	0.5		Vigorous	Co-dominant
19	River Birch	11.7	63	0.0		Snag	Snag
20	Silver Maple	10.9	65	0.5		Vigorous	Co-dominant
21	River Birch	12.0	60	1.5		Vigorous	Co-dominant
22	River Birch	6.8	50	0.0		Vigorous	Co-dominant
23	River Birch	9.8	42	0.0		Snag	Snag
24	River Birch	8.0	56	0.0		Vigorous	Co-dominant
25	River Birch	10.8	68	1.0	52	Vigorous	Co-dominant
26	Silver Maple	7.4	55	0.0		Vigorous	Intermediate
27	Silver Maple	7.0	50	0.0		Vigorous	Intermediate
28	River Birch	13.2	68	1.0		Vigorous	Co-dominant
29	Green Ash	7.0	55	0.0	54	Vigorous	Co-dominant
30	River Birch	10.3	15	0.0		Snag	Snag
31	Silver Maple	7.3	55	0.0		Vigorous	Co-dominant
32	Silver Maple	7.2	48	0.0		Vigorous	Co-dominant
33	River Birch	9.3	20	0.0		Snag	Snag
34	River Birch	11.4	20	0.0		Snag	Snag
35	Silver Maple	5.9	52	0.0		Vigorous	Co-dominant
36	River Birch	10.2	22	0.0		Snag	Snag
37	Silver Maple	15.4	75	0.5		Vigorous	Dominant

Plot Number: 2	Date 08/06/2004	Pool: 8	Geomorphology: Terrace, Streambank
	UTM Coord N 4842384	UTM Coord E 644631	NAD27 Zone 15
Pool Elevation 633.27	Ground Elevation 645.76	Basal Area 140	

Tree	Common Name	dbh (inches)	Total Height (feet)	Merchantable Height (logs)	Age (yrs)	Health	Crown Class
1	Boxelder	5.8	10	0.0		Snag	Snag
2	Boxelder	7.0	11	0.0		Snag	Snag
3	Boxelder	6.1	10	0.0		Snag	Snag
4	Boxelder	10.4	30	0.0		Stressed	Suppressed
5	Boxelder	9.7	27	0.0		Snag	Snag
6	Boxelder	11.0	68	8.0		Vigorous	Co-dominant
7	Boxelder	10.0	46	0.0	29	Vigorous	Intermediate
8	Boxelder	5.7	7	0.0		Snag	Snag
9	Boxelder	10.6	41	0.0		Vigorous	Intermediate
10	Boxelder	7.4	42	0.0		Stressed	Intermediate
11	Boxelder	10.7	43	0.0		Vigorous	Intermediate
12	Boxelder	14.0	59	8.0	43	Vigorous	Co-dominant

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Plot Number: 3	Date 08/18/2004	Pool: 8	Geomorphology: Island terrace
	UTM Coord N 4843426	UTM Coord E 641679	NAD27 Zone 15
Pool Elevation 633.00	Ground Elevation 639.20	Basal Area 100	

Tree	Common Name	dbh (inches)	Total Height (feet)	Merchantable Height (logs)	Age (yrs)	Health	Crown Class
1	Silver Maple	5.6	24	0.0		Stressed	Intermediate
2	Silver Maple	6.0	24	0.0		Stressed	Intermediate
3	Silver Maple	43.7	29	0.0		Snag	Intermediate
4	Silver Maple	12.6	5	0.0		Snag	Snag
5	Silver Maple	26.7	60	0.0		Snag	Co-dominant
6	Silver Maple	13.6	35	0.0		Snag	Intermediate
7	Silver Maple	18.5	26	0.0		Snag	Intermediate
8	Silver Maple	6.5	16	0.0		Snag	Intermediate
9	Silver Maple	28.3	35	0.0		Snag	Intermediate
10	Silver Maple	17.7	10	0.0		Snag	Intermediate
11	Silver Maple	49.0	86	1.5		Vigorous	Dominant
12	Swamp White Oak	8.3	10	0.0		Stressed	Intermediate
13	Swamp White Oak	12.9	47	1.0	49	Vigorous	Co-dominant
14	Swamp White Oak	13.0	54	1.5	46	Vigorous	Co-dominant
15	Swamp White Oak	15.4	50	1.0		Vigorous	Co-dominant
16	Swamp White Oak	5.3	30	0.0		Snag	Suppressed
17	Swamp White Oak	12.8	48	0.0		Vigorous	Co-dominant

Plot Number: 4	Date 08/04/2004	Pool: 8	Geomorphology: Terrace
	UTM Coord N 4843214	UTM Coord E 642557	NAD27 Zone 15
Pool Elevation 631.00	Ground Elevation 639.20	Basal Area 110	

Tree	Common Name	dbh (inches)	Total Height (feet)	Merchantable Height (logs)	Age (yrs)	Health	Crown Class
1	Boxelder	5.9	31	0.0		Stressed	Intermediate
2	UNKNOWN	6.4	38	0.0		Snag	Snag
3	Silver Maple	14.9	78	1.0		Vigorous	Dominant
4	Black Walnut	10.9	72	1.5	30	Vigorous	Co-dominant
5	UNKNOWN	5.5	39	0.0		Snag	Snag
6	Black Locust	7.9	65	0.0		Snag	Snag
7	Black Locust	5.4	51	0.0		Vigorous	Co-dominant
8	Black Locust	5.4	51	0.0		Stressed	Intermediate
9	Black Locust	7.9	66	0.0		Vigorous	Co-dominant
10	Black Locust	6.1	61	0.0		Vigorous	Co-dominant
11	Black Locust	6.4	41	0.0		Snag	Snag
12	Black Locust	6.0	57	0.0		Stressed	Intermediate
13	Black Locust	5.6	22	0.0		Vigorous	No Data
14	Black Locust	7.1	66	0.0		Stressed	Co-dominant
15	Silver Maple	11.7	51	1.0		Vigorous	Intermediate
16	Black Locust	9.1	67	0.0	53	Vigorous	Co-dominant
17	Black Locust	8.6	46	0.0		Stressed	Intermediate
18	Black Locust	9.1	69	0.5		Vigorous	Co-dominant
19	Black Walnut	6.3	55	0.0		Vigorous	Intermediate
20	Black Locust	5.0	55	0.0		Vigorous	Intermediate
21	Black Locust	8.3	72	0.5		Vigorous	Co-dominant
22	Black Locust	9.1	71	0.5		Vigorous	Co-dominant
23	Black Locust	9.6	35	0.0		Snag	Snag
24	Black Locust	12.6	73	0.0		Stressed	Co-dominant
25	Black Locust	6.3	58	0.0		Snag	Snag
26	Black Locust	14.0	72	0.0		Stressed	Co-dominant
27	Black Locust	11.1	63	0.0		Stressed	Co-dominant
28	Black Locust	5.7	26	0.0		Snag	Snag
29	Silver Maple	14.2	77	1.0		Vigorous	Dominant
30	Green Ash	16.4	50	2.0	32	Vigorous	Intermediate
31	Silver Maple	7.1	55	0.0		Vigorous	Intermediate
32	River Birch	7.3	52	0.0		Stressed	Intermediate
33	River Birch	7.8	56	0.0		Vigorous	Co-dominant
34	Black Locust	8.5	32	0.0		Stressed	Suppressed
35	Black Locust	6.1	59	0.0		Vigorous	Co-dominant

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Subplot Data

Subplot: Saplings (trees) > or = 1 inch up to less than 5 inches dbh

Subplots 11.8 ft. radius 15 ft. from plot center.

Subplot locations are at following directions: Subplot 1 - 0°, 2 - 120°, 3 - 240°

Plot	Subplot	Common Name	dbh (inches)	Total Height (feet)	Health
1	1	Silver Maple	3.4	28	Vigorous
	1	Silver Maple	3.4	30	Vigorous
	2	Silver Maple	2.6	18	Vigorous
	2	Silver Maple	4.2	25	Vigorous
	2	Silver Maple	4.7	36	Vigorous
	2	Silver Maple	4.3	35	Vigorous
	2	Silver Maple	3.6	30	Vigorous
	2	Silver Maple	4.6	33	Vigorous
	2	Silver Maple	1.4	10	Vigorous
	2	Silver Maple	2.3	22	Snag
	3	None Found	0	0	No trees
2	1	None Found	0	0	No trees
	2	None Found	0	0	No trees
	3	None Found	0	0	No trees
3	1	None Found	0	0	No trees
	2	None Found	0	0	No trees
	3	None Found	0	0	No trees
4	1	Black Locust	4.7	38	Snag
	2	Black Locust	3.9	46	Vigorous
	2	Boxelder	3	25	Vigorous
	2	Green Ash	1.4	13	Vigorous
	2	UNKNOWN	1.5	25	Snag
	2	UNKNOWN	1.8	25	Snag
	2	UNKNOWN	1.9	26	Snag
	2	UNKNOWN	1.2	20	Snag
	2	UNKNOWN	2.4	27	Snag
	2	UNKNOWN	1.7	13	Snag
	2	Black Locust	2.5	35	Stressed
	3	Black Cherry	2.4	12	Vigorous
	3	UNKNOWN	4	40	Snag
	3	UNKNOWN	2.3	33	Snag
	3	UNKNOWN	3	35	Snag
3	UNKNOWN	2.4	30	Snag	
3	Swamp White Oak	1.5	13	Stressed	

Microplot Data

Microplot Data: < 1 inch dbh, 6.8 ft plot radius (if < 1 foot tall, use % cover+).

Microplots are at following locations from Plot center: Microplot A - 0°, B - 120°, C - 240°

Plot Number	Common Name	Height (feet)	Percent Cover of Microplot A	Percent Cover of Microplot B	Percent Cover of Microplot C
1					
Seedlings					
	Silver Maple	<1	0-10%	0-10%	0-10%
	Common Hackberry	<1	0-10%		
	Green Ash	1-2			0-10%
	Green Ash	2-4			0-10%
	White Mulberry	1-2			0-10%
	Silver Maple	4-6			0-10%
Non tree species					
	Poison Ivy		10-20%		0-10%
	Virginia Creeper		0-10%		0-10%
	Greenbrier				0-10%
	Sedge				0-10%
	Violet				0-10%
	Wood Sorel				0-10%
	Fern sp.				0-10%
2					
Seedlings					
	Green Ash	<1	0-10%	0-10%	0-10%
	Bitternut Hickory	<1	0-10%		
	Red Oak	<1		0-10%	
	Northern Red Oak	<1		0-10%	
Non tree species					
	Canadian Clearweed		0-10%	0-10%	0-10%
	Foxtail		20-30%	0-10%	0-10%
	Creeping Charlie		60-70%	70-80%	70-80%
	Interrupted Fern		0-10%	0-10%	0-10%
	Woodnettle		0-10%	0-10%	
	Virginia Creeper		0-10%	0-10%	0-10%
	Reed Canarygrass		0-10%	0-10%	
	Violet		0-10%		
	Nettle			0-10%	
	Poison Ivy			0-10%	0-10%
	Lesser Burdock			0-10%	
3					
Seedlings					
	Silver Maple		0-10%		0-10%
Non tree species					
	Black Raspberry		0-10%		
	False Nettle		0-10%	0-10%	0-10%
	Reed Canarygrass		90-100%	90-100%	90-100%
4					
Seedlings					
	Green Ash		0-10%		
	Black Locust		0-10%		0-10%
	Red Oak	>6		0-10%	
	Northern Red Oak	>6		0-10%	
Non tree species					
	Foxtail		50-60%	20-30%	60-70%
	White Grass		0-10%	10-20%	20-30%
	Smartweed		0-10%	20-30%	0-10%
	Grass		10-20%	0-10%	0-10%
	Canadian Clearweed		0-10%		
	Ragweed			0-10%	
	False Nettle			0-10%	0-10%

Plot #1 photo from plot center.



Plot #2 photo from plot center.





Plot #3 photo from plot center.



Plot #4 photo from plot center.