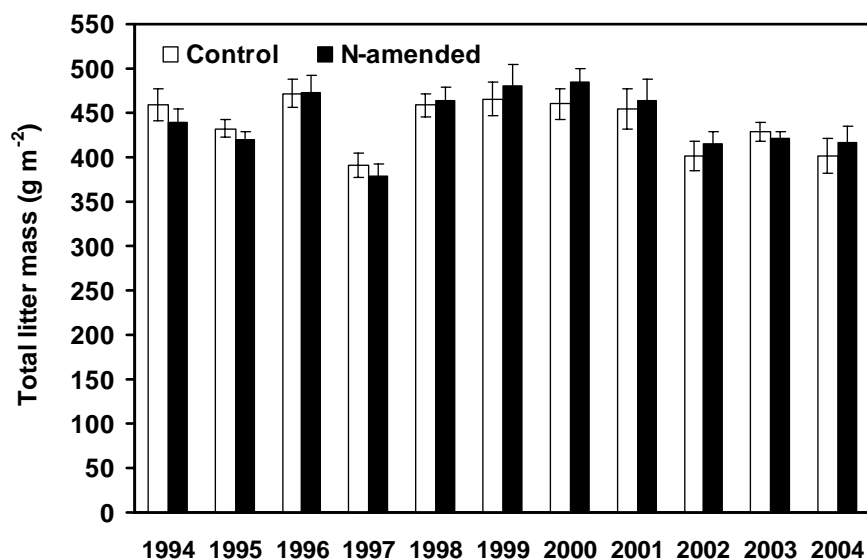
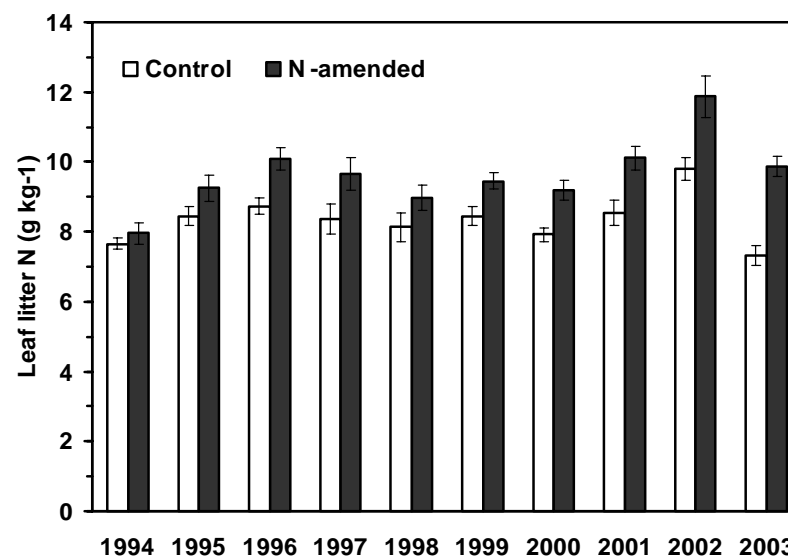


Michigan Gradient Study: Litter data from 1988 through 2004.

Parameters listed below include [total litter mass](#) (g m^{-2}), [woody litter mass](#) (wood < 1 cm diameter) (g m^{-2}), [foliar litter mass](#) (g m^{-2}), foliar litter [N concentration](#) (g N kg^{-1}), foliar litter [C concentration](#) (g C kg^{-1}), [specific leaf area](#) (SLA, $\text{cm}^2 \text{g}^{-1}$) for sugar maple foliage, and stand [leaf area index](#) ($\text{LAI m}^2 \text{m}^{-2}$). Data also are available for insect frass and reproductive litter. Data were collected using the methods outlined in Burton et al. (1991), Pregitzer and Burton (1991), Pregitzer et al. (1992) and Burton et al. (1993). Much of the recent data is the subject of manuscripts in review or in press. Please contact K.S. Pregitzer (kspregit@mtu.edu) for the status of these manuscripts, to enable proper citation of any data used.



Total litter mass from 1994 through 2004 for the control and simulated NO_3^- deposition treatments. Error bars indicate one standard error of the mean.



Sugar maple litter foliar N concentrations from 1994 through 2004 for the control and simulated NO_3^- deposition treatments. Error bars indicate one standard error of the mean.

Total Litter Mass (g m⁻²) (methodology given in Pregitzer and Burton 1991, Burton et al. 1993)

Site	Plot	Treatment	Litter Type	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
A	1	C	Total	462.1	450.1	351.0	385.5	395.2	395.1	374.2	397.2	419.3	358.9	398.9	395.6	401.2	395.6	408.3	428.8	321.9
A	2	C	Total	479.2	464.8	358.5	389.4	396.5	411.6	399.7	413.4	385.4	364.8	418.0	442.5	404.4	442.5	418.5	417.1	406.6
A	3	C	Total	456.1	451.4	356.7	357.2	456.8	422.4	368.6	451.9	368.6	387.2	416.0	363.0	366.2	363.0	400.7	373.8	330.0
A	4	+N	Total							398.4	422.6	450.7	382.7	456.8	427.7	455.5	427.7	502.6	405.9	393.9
A	5	+N	Total							331.7	355.5	364.9	353.9	388.5	352.8	418.1	352.8	408.1	418.5	366.9
A	6	+N	Total							301.7	319.9	344.3	320.2	364.1	366.7	371.3	366.7	367.4	381.9	359.1
B	1	C	Total	469.3	522.3	368.9	439.5	410.3	374.6	459.7	387.7	497.6	314.8	425.5	403.3	422.6	318.9	292.7	368.5	324.7
B	2	C	Total	501.8	493.1	335.7	397.7	430.5	380.3	414.5	376.1	536.6	337.5	434.7	420.2	421.3	403.6	321.7	403.3	350.1
B	3	C	Total	524.3	514.6	370.2	433.9	441.3	410.7	424.7	415.8	516.4	344.9	436.4	430.7	430.9	385.7	339.5	429.4	370.1
B	4	+N	Total							404.2	394.7	506.6	329.5	493.7	453.6	464.2	427.0	410.1	440.8	422.8
B	5	+N	Total							399.3	423.9	518.4	343.8	437.1	442.7	446.4	379.5	333.9	450.5	369.2
B	6	+N	Total							468.1	346.8	469.1	327.1	430.9	487.5	504.0	400.2	363.3	374.8	355.6
C	1	C	Total	433.2	407.2	499.4	385.5	428.1	479.0	472.0	469.2	503.6	422.3	475.5	482.4	504.4	534.0	435.4	455.8	431.6
C	2	C	Total	423.3	464.7	504.6	389.8	459.9	467.5	519.3	470.2	470.8	411.8	474.9	502.1	504.5	499.4	437.3	484.9	422.7
C	3	C	Total	417.9	454.7	532.6	417.2	325.7	436.2	557.1	433.8	509.1	440.7	481.3	508.1	548.1	523.9	426.3	445.4	443.7
C	4	+N	Total							466.3	483.1	474.5	409.4	490.7	476.5	512.5	469.1	386.4	467.3	438.7
C	5	+N	Total							475.0	506.4	508.5	437.6	505.9	514.1	525.4	547.8	427.4	454.5	457.5
C	6	+N	Total							443.2	420.2	421.2	353.6	475.5	461.2	545.6	504.7	439.9	387.5	343.9
D	1	C	Total	481.3	486.4	469.6	424.3	468.6	472.2	467.6	445.7	436.5	416.6	514.0	535.5	480.6	511.3	408.2	412.3	442.0
D	2	C	Total	534.0	571.9	501.3	487.7	504.4	568.5	544.9	456.5	539.5	463.9	537.6	574.3	546.4	558.7	513.9	469.8	556.4
D	3	C	Total	435.4	473.4	460.1	425.5	492.4	463.5	504.1	470.4	478.7	431.3	488.5	529.7	493.1	511.7	417.1	452.0	424.8
D	4	+N	Total							463.1	443.1	544.1	445.5	483.8	533.7	522.8	568.6	440.8	425.4	497.6
D	5	+N	Total							584.9	485.5	556.5	433.4	549.5	649.9	557.6	587.1	451.1	412.8	514.8
D	6	+N	Total							536.1	428.7	521.0	413.5	486.9	588.4	487.0	535.6	450.3	430.3	483.4

Woody Litter Mass - wood < 1 cm diameter (g m⁻²) (methodology given in Pregitzer and Burton 1991, Burton et al. 1993)

Site	Plot	Treatment	Litter Type	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
A	1	C	Wood	59.6	39.6	28.5	50.3	15.2	12.5	23.1	46.7	30.8	23.1	54.6	66.1	38.8	44.6	40.0	14.7	36.8
A	2	C	Wood	75.9	32.8	30.7	37.6	33.3	15.4	24.3	29.9	20.7	28.8	98.4	117.8	16.1	7.5	51.3	16.7	39.8
A	3	C	Wood	82.5	45.2	23.4	31.1	21.3	25.4	24.6	13.7	22.4	15.3	16.1	14.5	15.2	13.6	48.7	8.0	26.3
A	4	+N	Wood							34.2	42.1	41.5	19.3	89.6	77.2	39.6	50.2	67.4	27.5	48.9
A	5	+N	Wood							15.6	4.9	4.7	17.5	11.9	56.2	66.3	9.3	46.4	4.4	23.7
A	6	+N	Wood							16.7	18.2	10.5	0.4	12.4	46.0	46.0	27.9	41.9	13.4	23.3
B	1	C	Wood	26.2	83.3	42.3	18.8	19.6	16.8	7.0	4.8	4.3	4.8	3.5	4.2	6.4	2.2	3.5	4.3	15.8
B	2	C	Wood	35.5	39.1	50.8	15.9	27.5	15.7	5.2	30.3	12.4	2.3	17.9	0.6	6.0	7.2	5.6	4.7	17.3
B	3	C	Wood	41.2	52.0	16.4	26.8	34.5	12.6	5.1	10.1	2.8	9.3	8.7	2.1	11.7	20.5	2.4	7.3	16.5
B	4	+N	Wood							11.9	25.5	12.5	5.1	10.9	3.1	7.0	17.0	12.1	6.7	11.2
B	5	+N	Wood							7.8	14.3	4.1	7.1	7.8	5.1	1.6	9.0	4.7	3.7	6.5
B	6	+N	Wood							9.3	38.2	1.6	14.9	4.1	2.9	4.8	4.7	6.9	2.0	8.9
C	1	C	Wood	48.6	20.9	60.6	12.2	22.7	36.6	17.7	83.2	22.4	35.1	61.7	12.4	13.2	27.9	5.4	14.2	30.9
C	2	C	Wood	29.9	44.9	53.9	9.2	17.0	46.9	47.5	84.4	32.3	19.3	12.1	3.2	18.2	18.7	14.6	8.0	28.7
C	3	C	Wood	33.3	33.5	27.8	30.3	21.9	29.4	127.3	45.0	25.1	32.3	56.1	38.5	24.9	43.0	13.4	33.4	38.5
C	4	+N	Wood							55.9	66.7	45.0	40.4	22.9	9.3	65.0	29.6	9.9	10.2	35.5
C	5	+N	Wood							38.5	63.1	17.8	29.5	56.0	23.0	22.3	24.8	18.5	7.9	30.1
C	6	+N	Wood							17.1	65.6	14.9	49.2	17.0	18.7	23.2	35.7	17.1	46.0	30.4
D	1	C	Wood	31.1	44.0	75.6	12.8	16.0	31.6	27.9	73.3	15.2	19.3	46.4	32.8	38.9	64.9	8.4	15.7	34.6
D	2	C	Wood	52.8	60.0	65.7	26.0	39.4	45.4	40.5	30.0	26.7	24.1	35.3	22.0	43.6	45.2	42.5	7.8	37.9
D	3	C	Wood	29.6	42.8	45.9	13.0	37.3	33.9	39.5	37.6	25.4	49.4	41.8	11.4	26.6	82.3	47.4	40.9	37.8
D	4	+N	Wood							44.3	81.8	48.7	47.7	39.0	69.1	14.0	94.3	41.1	31.5	51.1
D	5	+N	Wood							54.8	36.6	37.4	56.3	31.0	11.0	16.8	53.5	35.3	13.3	34.6
D	6	+N	Wood							19.2	53.5	21.5	30.9	44.9	14.7	7.8	39.3	16.9	1.0	25.0

Foliar Litter Mass (g m⁻²) (methodology given in Pregitzer and Burton 1991, Burton et al. 1993)

Site	Plot	Treatment	Litter Type	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
A	1	C	Foliage	366.7	267.2	288.5	323.7	348.7	369.1	324.7	337.3	297.4	324.4	315.2	299.7	345.0	335.2	274.8	389.5	246.3
A	2	C	Foliage	377.1	263.6	297.7	341.6	344.0	380.1	352.0	369.3	289.4	311.4	304.0	298.9	370.5	413.8	286.3	381.6	330.0
A	3	C	Foliage	348.4	256.1	310.9	311.0	401.6	323.8	302.4	427.9	308.5	359.9	377.2	319.7	333.9	340.5	300.0	349.5	268.2
A	4	+N	Foliage							343.8	361.4	326.9	347.2	335.0	303.1	401.0	358.6	316.3	343.1	304.5
A	5	+N	Foliage							302.2	342.6	321.7	327.6	352.5	261.3	334.2	325.7	295.3	389.8	317.7
A	6	+N	Foliage							273.8	292.3	305.1	312.2	333.0	303.8	317.0	320.6	268.8	343.2	315.6
B	1	C	Foliage	365.3	360.6	305.1	402.5	328.6	337.8	439.3	371.2	451.8	302.1	398.7	369.4	408.6	294.5	255.7	348.2	278.7
B	2	C	Foliage	395.3	320.1	263.4	365.2	358.7	348.4	395.8	337.2	483.9	328.9	399.5	368.4	401.5	368.0	285.1	383.3	299.8
B	3	C	Foliage	409.2	343.1	330.9	392.0	358.9	381.9	405.0	390.2	469.4	325.8	408.8	399.1	406.1	341.0	319.8	405.6	322.4
B	4	+N	Foliage							376.9	350.7	420.0	315.6	340.6	412.2	389.1	368.7	261.2	393.3	353.2
B	5	+N	Foliage							377.0	394.8	458.4	325.4	393.1	384.3	430.6	331.3	285.7	413.8	331.1
B	6	+N	Foliage							447.1	292.3	434.8	301.2	396.9	457.5	485.2	363.7	310.5	350.0	322.4
C	1	C	Foliage	325.3	370.0	374.2	392.4	327.7	420.4	432.9	365.9	449.5	361.4	378.6	442.2	459.5	485.0	379.9	428.6	369.5
C	2	C	Foliage	339.7	428.9	418.0	411.5	256.8	399.1	444.4	362.7	415.6	377.8	437.0	468.9	461.0	441.7	370.7	451.2	360.2
C	3	C	Foliage	311.5	395.8	456.9	391.8	242.6	385.3	408.4	367.3	434.9	400.5	407.7	409.5	288.7	378.4	363.3	342.2	351.6
C	4	+N	Foliage							368.6	396.2	378.8	354.5	437.3	424.8	420.0	422.0	337.6	439.2	373.0
C	5	+N	Foliage							394.1	397.8	415.7	372.3	410.4	461.7	478.6	460.7	376.5	432.0	387.2
C	6	+N	Foliage							409.0	336.3	361.0	291.0	441.1	412.4	501.4	457.6	378.6	327.3	290.2
D	1	C	Foliage	359.8	395.8	372.0	357.4	400.3	411.8	400.5	323.7	415.3	367.7	408.7	404.9	423.0	351.1	343.4	380.9	359.8
D	2	C	Foliage	411.9	444.7	412.1	442.6	402.4	504.4	476.2	393.2	478.3	423.9	472.8	488.5	477.4	495.1	437.1	434.4	482.7
D	3	C	Foliage	341.2	367.2	391.5	394.1	416.2	415.3	433.0	399.5	411.5	335.6	399.3	419.3	439.5	393.6	337.5	311.8	342.3
D	4	+N	Foliage							390.1	317.2	448.7	376.2	394.6	419.6	469.8	460.0	363.6	347.0	409.2
D	5	+N	Foliage							480.8	405.7	484.2	361.1	485.0	560.7	492.8	509.2	386.1	370.3	441.6
D	6	+N	Foliage							500.8	357.0	486.7	370.4	420.3	514.1	464.7	477.5	411.4	416.2	437.6

Foliar Litter C concentration (g C kg⁻¹)

Site	Plot	Treatment	Litter Type	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
A	1	C	Cgkg							475.1	475.6	485.5	471.1	478.6	470.1	485.1	462.7	465.1	463.2	473.2
A	2	C	Cgkg							471.7	468.9	482.4	470.1	476.2	471.0	482.3	464.2	465.4	461.4	471.4
A	3	C	Cgkg							470.2	468.7	480.5	470.7	481.6	460.0	487.1	485.3	466.6	468.1	473.9
A	4	+N	Cgkg							474.6	475.8	486.0	474.7	486.7	475.0	494.4	471.5	471.8	468.1	477.9
A	5	+N	Cgkg							477.8	479.0	482.8	477.1	487.9	486.0	495.0	473.4	474.1	470.8	480.4
A	6	+N	Cgkg							476.1	479.8	480.0	477.0	489.2	484.1	491.9	452.5	478.5	471.3	478.0
B	1	C	Cgkg							485.7	482.0	481.8	484.8	494.1	479.5	470.5	458.3	456.2	466.9	476.0
B	2	C	Cgkg							473.6	492.5	477.3	483.9	482.4	467.3	466.7	454.2	461.3	466.0	472.5
B	3	C	Cgkg							480.0	482.7	483.8	482.9	489.5	460.8	465.5	458.8	460.5	466.2	473.1
B	4	+N	Cgkg							472.6	469.9	476.3	473.6	475.6	468.9	469.1	451.4	449.5	456.5	466.4
B	5	+N	Cgkg							481.4	478.7	479.3	482.1	485.2	475.6	467.6	456.6	455.6	463.6	472.6
B	6	+N	Cgkg							480.6	480.9	480.4	484.9	488.4	476.2	467.9	454.7	457.8	464.8	473.7
C	1	C	Cgkg							481.0	467.2	485.2	485.3	473.7	477.9	476.7	458.6	453.6	458.5	471.8
C	2	C	Cgkg							476.7	466.9	485.3	473.3	472.8	474.2	469.4	457.9	447.6	453.7	467.8
C	3	C	Cgkg							481.7	470.7	487.2	468.9	480.2	477.0	476.2	460.8	455.4	459.3	471.7
C	4	+N	Cgkg							476.3	461.8	483.5	471.4	471.9	473.1	475.7	460.3	481.6	471.8	472.7
C	5	+N	Cgkg							483.5	473.3	488.3	481.3	481.3	481.5	477.0	471.6	464.4	459.8	476.2
C	6	+N	Cgkg							473.0	478.9	487.2	472.2	478.5	472.9	479.3	467.2	466.0	459.1	473.4
D	1	C	Cgkg							480.7	469.3	469.4	467.7	476.2	481.4	478.0	460.3	462.5	463.8	470.9
D	2	C	Cgkg							486.6	479.6	480.0	467.2	487.7	484.4	477.8	463.7	462.6	466.6	475.6
D	3	C	Cgkg							478.4	474.0	477.3	467.3	473.3	478.2	479.9	459.0	462.1	461.7	471.1
D	4	+N	Cgkg							486.6	480.2	476.3	467.5	467.9	477.1	476.1	459.5	462.9	462.1	471.6
D	5	+N	Cgkg							474.5	474.9	479.6	466.0	473.4	481.2	473.6	462.2	460.2	460.6	470.6
D	6	+N	Cgkg							466.9	481.6	472.0	465.6	478.3	482.3	477.2	464.5	465.7	464.9	471.9

Foliar Litter N concentration (g N kg⁻¹) (methodology given in Pregitzer and Burton 1992)

Site	Plot	Treatment	Litter Type	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
A	1	C	Ngkg							8.02	7.00	7.76	6.27	6.15	7.84	7.71	6.40	8.76	6.30	
A	2	C	Ngkg							7.32	7.98	8.93	6.39	6.73	8.90	7.78	7.37	8.81	6.54	
A	3	C	Ngkg							7.58	7.29	8.16	6.33	6.73	7.79	7.39	8.30	8.26	6.54	
A	4	+N	Ngkg							7.92	8.63	9.89	7.67	7.48	10.69	10.30	8.74	10.78	8.30	
A	5	+N	Ngkg							7.82	7.97	10.04	6.82	7.24	10.47	8.52	8.57	10.51	8.63	
A	6	+N	Ngkg							8.03	8.21	9.45	7.53	7.45	10.21	9.17	8.51	10.84	9.42	
B	1	C	Ngkg							7.35	7.81	9.02	8.44	8.17	9.10	7.41	8.37	11.60	6.97	
B	2	C	Ngkg							7.80	9.15	9.51	8.87	7.87	7.56	8.70	7.96	10.40	7.18	
B	3	C	Ngkg							6.95	8.82	8.56	7.38	7.46	7.45	6.76	8.42	10.76	6.34	
B	4	+N	Ngkg							7.61	9.42	10.26	9.36	8.97	9.36	10.71	11.96	16.17	9.98	
B	5	+N	Ngkg							8.21	9.01	10.56	10.09	10.18	9.71	8.93	11.60	13.47	9.88	
B	6	+N	Ngkg							6.52	8.64	9.06	9.52	8.19	9.37	9.76	11.23	14.98	10.35	
C	1	C	Ngkg							8.19	8.88	9.67	10.08	8.96	8.03	7.66	8.81	9.81	8.58	
C	2	C	Ngkg							8.20	9.34	8.84	10.84	9.32	8.73	7.53	9.15	10.35	8.47	
C	3	C	Ngkg							7.95	9.58	9.93	8.83	10.80	9.04	7.71	9.16	10.16	8.59	
C	4	+N	Ngkg							8.26	10.13	11.27	11.13	9.58	9.79	9.00	10.23	12.82	10.64	
C	5	+N	Ngkg							9.63	11.72	11.70	11.63	11.28	9.48	10.00	10.67	11.80	10.65	
C	6	+N	Ngkg							9.18	11.20	11.60	11.58	10.34	8.94	7.89	9.83	10.68	11.64	
D	1	C	Ngkg							6.45	7.27	6.98	8.25	7.10	7.44	8.85	7.67	7.91	6.03	
D	2	C	Ngkg							8.25	9.24	9.12	9.38	9.70	9.24	8.10	10.86	10.01	7.87	
D	3	C	Ngkg							7.74	8.99	8.38	9.36	8.66	10.31	9.42	10.11	10.70	8.42	
D	4	+N	Ngkg							7.55	9.05	8.23	10.39	8.98	8.94	8.19	9.66	10.28	9.43	
D	5	+N	Ngkg							8.83	9.89	10.42	10.23	9.42	8.48	10.23	10.70	10.73	10.74	
D	6	+N	Ngkg							5.95	7.20	8.45	9.93	8.52	8.02	7.64	9.62	9.51	8.65	

Sugar maple specific leaf area (SLA, cm² g⁻¹) (methodology given in Burton et al. 1991)

Site	Plot	Treatment	Litter Type	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
A	1	C	SLA-HM		183.4	229.9	209.8	205.6	193.7	197.1	197.1	178.9	194.6	186.9	149.7	134.1	165.3	189.1	179.0	
A	2	C	SLA-HM		169.2	221.2	240.7	196.4	187.8	196.0	169.5	194.8	213.0	191.3	168.3	164.9	181.1	209.4	180.6	
A	3	C	SLA-HM		202.6	215.5	217.0	222.7	180.6	214.1	193.7	206.8	205.1	184.5	178.6	186.0	157.9	206.9	193.9	
A	4	+N	SLA-HM							194.9	161.9	178.1	203.4	183.9	191.6	181.4	178.0	195.6	176.8	
A	5	+N	SLA-HM							201.1	193.3	195.4	203.8	187.2	154.4	177.8	174.3	195.2	167.3	
A	6	+N	SLA-HM							193.4	197.5	206.0	213.6	184.7	165.2	191.9	192.5	201.6	183.8	
B	1	C	SLA-HM		199.0	163.7	224.5	203.4	177.3	216.2	204.9	195.2	171.8	171.2	186.7	198.3	173.8	171.7	205.0	
B	2	C	SLA-HM		194.5	157.5	224.9	202.5	164.5	228.4	184.1	187.0	161.4	178.5	193.9	185.1	177.4	144.3	181.6	
B	3	C	SLA-HM		193.6	171.0	233.6	213.6	194.6	204.3	192.5	198.8	167.4	175.1	189.7	180.2	186.0	182.0	207.2	
B	4	+N	SLA-HM							225.5	195.4	206.1	170.6	193.8	159.1	206.3	193.4	172.8	202.2	
B	5	+N	SLA-HM							225.3	222.2	209.5	183.3	189.1	194.8	201.9	191.7	156.6	195.9	
B	6	+N	SLA-HM							198.7	188.6	183.0	166.9	177.5	186.6	170.8	191.1	166.2	174.7	
C	1	C	SLA-HM		178.2	201.0	249.0	211.5	184.6	202.2	199.7	211.6	189.2	211.7	206.6	163.7	185.8	176.3	221.5	
C	2	C	SLA-HM		196.9	187.4	223.8	157.5	199.0	217.0	199.0	185.0	199.6	185.1	192.1	189.6	186.2	170.7	239.2	
C	3	C	SLA-HM		188.5	182.9	235.9	182.0	191.4	213.4	216.5	206.0	190.0	220.0	184.6	185.9	227.0	223.9	218.1	
C	4	+N	SLA-HM							208.6	199.0	187.1	178.7	179.1	198.6	177.3	175.4	167.0	204.5	
C	5	+N	SLA-HM							231.5	227.0	228.3	214.3	210.1	199.0	210.1	174.8	171.7	235.3	
C	6	+N	SLA-HM							207.1	211.1	197.7	196.3	204.0	194.2	191.4	166.7	155.0	215.2	
D	1	C	SLA-HM		200.6	197.4	216.2	210.0	195.0	205.9	201.6	216.9	216.6	206.1	179.9	215.5	206.1	168.1	227.6	
D	2	C	SLA-HM		184.2	192.1	229.8	213.5	184.9	209.1	190.5	199.5	225.7	193.9	171.2	203.8	191.8	150.2	198.3	
D	3	C	SLA-HM		198.0	184.3	220.3	219.1	182.5	226.6	202.2	215.3	207.0	224.7	172.0	233.0	203.8	185.0	212.0	
D	4	+N	SLA-HM							204.1	181.8	193.6	203.9	212.1	193.2	224.7	193.9	169.1	213.5	
D	5	+N	SLA-HM							213.3	210.6	214.9	198.3	202.9	184.3	227.1	193.3	149.5	203.2	
D	6	+N	SLA-HM							201.4	183.0	206.4	183.4	182.9	184.0	185.1	207.3	145.8	187.2	

Stand leaf area index (LAI, m² m⁻²) (methodology given in Burton et al. 1991)

Site	Plot	Treatment	Litter Type	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
A	1	C	LAI	6.6	4.7	6.5	6.8	7.0	7.1	6.3	6.6	5.4	6.3	5.9	4.6	4.8	6.1	5.3	6.4
A	2	C	LAI	6.8	4.4	6.2	7.9	6.8	7.2	6.8	6.2	5.3	6.4	5.7	5.0	6.0	7.5	5.9	5.9
A	3	C	LAI	6.3	5.0	6.5	6.5	8.6	5.8	6.4	8.2	6.3	7.2	6.7	5.7	6.1	5.3	6.1	5.3
A	4	+N	LAI							6.7	5.9	5.8	7.0	6.2	5.8	7.3	6.4	6.2	5.5
A	5	+N	LAI							6.0	6.6	6.2	6.6	6.4	4.1	5.8	5.7	5.7	5.9
A	6	+N	LAI							5.3	5.7	6.1	6.6	6.1	5.0	6.0	6.1	5.4	5.0
B	1	C	LAI	7.1	7.1	5.4	8.8	6.7	6.1	9.5	7.6	9.1	5.2	6.9	6.7	7.9	4.2	4.6	6.7
B	2	C	LAI	7.7	6.2	4.2	8.2	7.4	5.9	9.0	6.2	9.2	5.6	7.3	6.5	7.3	5.9	4.4	6.7
B	3	C	LAI	8.0	6.6	5.6	8.7	7.6	7.4	8.1	7.3	9.1	5.6	7.3	6.9	7.2	5.7	5.6	7.6
B	4	+N	LAI							8.6	7.0	9.0	5.6	6.4	10.0	8.0	6.5	5.0	6.3
B	5	+N	LAI							8.9	8.7	9.9	6.1	7.6	7.2	8.5	5.7	4.8	7.9
B	6	+N	LAI							9.3	5.6	8.2	5.2	7.2	8.8	8.6	5.5	5.8	5.7
C	1	C	LAI	6.0	5.9	7.0	8.7	6.5	7.3	8.2	7.1	9.1	6.7	7.3	7.7	7.2	8.3	6.5	8.1
C	2	C	LAI	6.2	7.6	7.4	8.6	4.0	7.7	9.2	7.1	7.8	7.5	7.8	8.9	7.9	7.4	6.4	9.3
C	3	C	LAI	5.7	6.7	7.9	8.6	4.3	7.1	8.2	7.5	9.0	7.5	7.8	6.9	5.0	7.0	7.7	6.6
C	4	+N	LAI							7.7	8.1	7.5	6.6	8.5	7.1	8.0	7.2	5.7	8.5
C	5	+N	LAI							7.5	7.7	8.3	7.0	7.0	6.8	8.4	7.1	5.9	7.6
C	6	+N	LAI							8.1	7.0	6.9	5.6	8.4	7.4	9.1	7.1	5.9	6.1
D	1	C	LAI	6.7	7.4	6.9	7.2	8.1	7.6	7.7	6.0	8.4	7.2	7.6	7.3	8.2	6.5	5.5	7.6
D	2	C	LAI	7.7	7.8	7.7	9.6	8.5	9.2	9.8	7.2	9.1	8.8	8.6	8.9	9.2	9.4	6.3	7.8
D	3	C	LAI	6.4	7.2	7.3	8.3	9.2	7.6	9.5	7.7	8.6	6.7	8.4	7.6	9.2	7.6	5.7	6.0
D	4	+N	LAI							7.9	5.8	8.6	7.7	8.0	8.5	10.0	9.0	6.0	7.0
D	5	+N	LAI							9.5	7.6	9.1	6.6	9.1	9.6	10.3	8.9	5.7	6.4
D	6	+N	LAI							10.0	6.9	10.4	6.8	7.9	10.7	8.9	9.9	5.9	7.4

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