

8:00 am

Long Lake Soil Respiration Survey

Page 1 of 1Plot # 10Date July 3, 2018Field crew AA ELWeather conditions & plot notes Breezy overcastAmbient CO₂: 370

* Poison Ivy

Subplot 1Distance 2.48Direction 213Distance to tree 1.21

Soil Moisture	<u>25.7</u>	Efflux 1	<u>7.39</u>
Soil Temperature	<u>18.2</u>	Efflux 2	<u>6.63</u>

Notes: _____

 _____Biomass Bags: 1**Subplot 2**Distance 1.47Direction 64Distance to tree 0.4

Soil Moisture	<u>25.2</u>	Efflux 1	<u>8.22</u>
Soil Temperature	<u>18.4</u>	Efflux 2	<u>7.19</u>

Notes: _____

 _____Biomass Bags: 1**Subplot 3**Distance 7.06Direction 326Distance to tree 1.2

Soil Moisture	<u>22.7</u>	Efflux 1	<u>8.53</u>
Soil Temperature	<u>18.4</u>	Efflux 2	<u>8.04</u>

Notes: _____

 _____Biomass Bags: 1

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Plot # 9

Date July 3 2018

Field crew AA EC

Weather conditions & plot notes overcast mosquitoes

Ambient CO₂: 400 410

Subplot 1

Distance 1.65

Direction 250

Distance to tree 1.05

Soil Moisture	<u>57.9</u>	Efflux 1	<u>5.01</u>
Soil Temperature	<u>17.74</u>	Efflux 2	<u>4.16</u>

Notes: _____

Biomass Bags: 1

Subplot 2

Distance 0.48

Direction 235

Distance to tree 1.10

Soil Moisture	<u>59.1</u>	Efflux 1	<u>6.98</u>
Soil Temperature	<u>17.85</u>	Efflux 2	<u>6.28</u>

Notes: * Lots of liverwort

Biomass Bags: 1

Subplot 3

Distance 4.39

Direction 304

Distance to tree 0.9

Soil Moisture	<u>56.1</u>	Efflux 1	<u>2.09</u>
Soil Temperature	<u>18.14</u>	Efflux 2	<u>2.25</u>

Notes: Started raining

Biomass Bags: 1

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Plot # 08Date 06Field crew EC, JNWeather conditions & plot notes poison ivyAmbient CO₂: 400**Subplot 1**Distance 4.57Direction 49Distance to tree 0.005

Soil Moisture	52.0 52.0	Efflux 1	5.09
Soil Temperature	16.4	Efflux 2	4.55

Notes: poison ivy ↑Biomass Bags: 1**Subplot 2**Distance 3.76Direction 264Distance to tree 2.9

Soil Moisture	41.7	Efflux 1	5.31
Soil Temperature	16.7	Efflux 2	4.46

Notes: _____

Biomass Bags: 1**Subplot 3**Distance 1.24Direction 163Distance to tree 1.5

Soil Moisture	44.8	Efflux 1	5
Soil Temperature	17.6	Efflux 2	3.82

Notes: _____

Biomass Bags: 1

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Plot # 05

Date July 6

Field crew EC W

Weather conditions & plot notes giant, busy anthill (near sub 1)

Ambient CO₂: 330

Subplot 1

Distance 2.42

Direction 219

Distance to tree NA

Soil Moisture	<u>18.6</u>	Efflux 1	<u>5.25</u>
Soil Temperature	<u>19.2</u>	Efflux 2	<u>5.39</u>

Notes: higher up on the hill

Biomass Bags: _____

Subplot 2

Distance 3.94

Direction 55

Distance to tree NA

Soil Moisture	<u>14.0</u>	Efflux 1	<u>9.48</u>
Soil Temperature	<u>17.5</u>	Efflux 2	<u>12.2 10.1</u>

Notes: bottom of the hill
- closer to a bunch of milkweed + goldenrod

Biomass Bags: _____

Subplot 3

Distance 2.29

Direction 305

Distance to tree NA

Soil Moisture	<u>15.1</u>	Efflux 1	<u>7.85 (7.85)</u>
Soil Temperature	<u>18.9</u>	Efflux 2	<u>8.26</u>

Notes: side of the hill

Biomass Bags: _____

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Plot # 012

Date July 6

Field crew EC, JN

Weather conditions & plot notes _____

Ambient CO₂: 330

Subplot 1

Distance 0.59

Direction 122

Distance to tree 3.88

Soil Moisture	<u>9.7</u>	Efflux 1	<u>13.3</u>
Soil Temperature	<u>19.6</u>	Efflux 2	<u>10.5</u>

Notes: _____

Biomass Bags: 1

Subplot 2

Distance 4.00

Direction 117

Distance to tree 2.77

Soil Moisture	<u>12.0</u>	Efflux 1	<u>7.84</u>
Soil Temperature	<u>19.4</u>	Efflux 2	<u>8.03</u>

Notes: large branch, ~~on~~ on edge of subplot, too large for biomass bag

Biomass Bags: 1

Subplot 3

Distance 2.40

Direction 72.8

Distance to tree 1.6

Soil Moisture	<u>9.0</u>	Efflux 1	<u>7.24</u>
Soil Temperature	<u>19.1</u>	Efflux 2	<u>7.21</u>

Notes: _____

Biomass Bags: 1

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Plot # 13Date July 6Field crew EC, JN

Weather conditions & plot notes _____

Ambient CO₂: 330**Subplot 1**Distance 4.71Direction 27Distance to tree 2.52

Soil Moisture	<u>24.2</u>	Efflux 1	<u>0.81</u>
Soil Temperature	<u>17.8</u>	Efflux 2	<u>0.44</u>

Notes: Poison ivy! 6+5!

_____Biomass Bags: 1**Subplot 2**Distance 0.93Direction 132Distance to tree 1.05

Soil Moisture	<u>17.4</u>	Efflux 1	<u>0.17</u>
Soil Temperature	<u>18.3</u>	Efflux 2	<u>5.94</u>

Notes: _____

_____Biomass Bags: 1**Subplot 3**Distance 4.69Direction 15.41Distance to tree 2.70

Soil Moisture	<u>22.2</u>	Efflux 1	<u>7.79</u>
Soil Temperature	<u>18.2</u>	Efflux 2	<u>7.52</u>

Notes: poison ivy!

_____Biomass Bags: 1

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Plot # 07

Date July 4

Field crew EC, SN

Weather conditions & plot notes _____

Ambient CO₂: 340

Subplot 1

Distance 1.98

Direction 297

Distance to tree 1.75

Soil Moisture	<u>20.4</u>	Efflux 1	<u>8.11</u>
Soil Temperature	<u>18.2</u>	Efflux 2	<u>8.25</u>

Notes: 3-leafed plant, not sure if poison ivy

Biomass Bags: 1

Subplot 2

Distance 4.46

Direction 17

Distance to tree 1.1

Soil Moisture	<u>21.9</u>	Efflux 1	<u>11</u>
Soil Temperature	<u>18.4</u>	Efflux 2	<u>9.82</u>

Notes: _____

Biomass Bags: 1

Subplot 3

Distance 1.19

Direction 95.7

Distance to tree .8

Soil Moisture	<u>23.5</u>	Efflux 1	<u>8.17</u>
Soil Temperature	<u>17.0</u>	Efflux 2	<u>7.6</u>

Notes: _____

Biomass Bags: 1