

Long Lake Soil Respiration Survey

Page 1 of 1Plot # 11Date June 27 2018Field crew AM ECWeather conditions & plot notes Sunny breezyAmbient CO₂: 320**Subplot 1**Distance 3.93Direction 139Distance to tree NA

Soil Moisture	<u>12.4</u>	Efflux 1	<u>6.83</u>
Soil Temperature	<u>17.4</u>	Efflux 2	<u>6.85</u>

Notes: _____

Biomass Bags: 1**Subplot 2**Distance 4.76Direction 314Distance to tree NA

Soil Moisture	<u>14.1</u>	Efflux 1	<u>5.49</u>
Soil Temperature	<u>16.8</u>	Efflux 2	<u>5.48</u>

Notes: _____

Biomass Bags: 1**Subplot 3**Distance 2.54Direction 56Distance to tree NA

Soil Moisture	<u>18.2</u>	Efflux 1	<u>6.63</u>
Soil Temperature	<u>17.0</u>	Efflux 2	<u>6.71</u>

Notes: _____

Biomass Bags: 1

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Page 1 of 1Plot # 14Date June 27, 2018Field crew AA ELWeather conditions & plot notes SunnyAmbient CO₂: 380 Δ10**Subplot 1**Distance 1.32Direction 289°Distance to tree NA

Soil Moisture	<u>12.1</u>	Efflux 1	<u>6.21</u>
Soil Temperature	<u>18.99</u>	Efflux 2	<u>5.79</u>

Notes: picked bluegrass to get bare groundBiomass Bags: 1**Subplot 2**Distance 4.9Direction 40°Distance to tree ~~NA~~ 2.01

Soil Moisture	<u>6.3</u>	Efflux 1	<u>5.64</u>
Soil Temperature	<u>18.5</u>	Efflux 2	<u>5.42</u>

Notes: picked blue grass to make bare ground
also worked old birch bark / discarded
logBiomass Bags: 1**Subplot 3**Distance 4.79Direction 296°Distance to tree ~~2~~ 3.06

Soil Moisture	<u>12.5</u>	Efflux 1	
Soil Temperature	<u>19.8</u>	Efflux 2	<u>4.38</u>

Notes: No need to pick grass - there was
bare groundBiomass Bags: 1

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Page 1 of 1Plot # 16 Date June 27 2018 Field crew AA ELWeather conditions & plot notes Sunny breezyAmbient CO₂: 320 Δ10**Subplot 1**Distance 0.67 Direction 236 Distance to tree NA

Soil Moisture	<u>14.1</u>	Efflux 1	<u>5.33</u>
Soil Temperature	<u>17.9</u>	Efflux 2	<u>5.36</u>

Notes: _____

Biomass Bags: 1**Subplot 2**Distance 1.26 Direction 50 Distance to tree NA

Soil Moisture	<u>21.5</u>	Efflux 1	<u>7.45</u>
Soil Temperature	<u>18.8</u>	Efflux 2	<u>7.33</u>

Notes: _____

Biomass Bags: 1**Subplot 3**Distance 1.84 Direction 14 Distance to tree NA

Soil Moisture	<u>14.1</u>	Efflux 1	<u>4.13</u>
Soil Temperature		Efflux 2	<u>4.44</u>

Notes: _____

Biomass Bags: 1

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Page 1 of 1Plot # 17 Date June 27 2018 Field crew AA ECWeather conditions & plot notes Sunny breezyAmbient CO₂: 320 Δ10**Subplot 1**Distance 4.82 Direction 60 Distance to tree 3.2 m

Soil Moisture	<u>3.3</u>	Efflux 1	<u>5.0</u>
Soil Temperature		Efflux 2	<u>4.99</u>

Notes: _____

_____Biomass Bags: 1**Subplot 2**Distance 3.03 Direction 109 Distance to tree NA

Soil Moisture	<u>4.6</u>	Efflux 1	<u>7.86</u>
Soil Temperature	<u>18.08</u>	Efflux 2	<u>7.47</u>

Notes: clipped blue grass to get bare ground

_____Biomass Bags: 1**Subplot 3**Distance 4.87 Direction 274 Distance to tree ~~3.8~~ 1.6 m

Soil Moisture	<u>3.8</u>	Efflux 1	<u>4.7</u>
Soil Temperature	<u>18.7</u>	Efflux 2	<u>5.01</u>

Notes: _____

_____Biomass Bags: 1

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Plot # 18

Date June 27 2018

Field crew AA EC

Weather conditions & plot notes Partly cloudy

Ambient CO₂: 360 Δ10

Subplot 1

Distance 2.17

Direction 2

Distance to tree NA

Soil Moisture	<u>12.6</u>	Efflux 1	<u>5.11</u>
Soil Temperature	<u>20.4</u>	Efflux 2	<u>4.84</u>

Notes: _____

Biomass Bags: 1

Subplot 2

Distance 0.93

Direction 65

Distance to tree NA

Soil Moisture	<u>10.7</u>	Efflux 1	<u>4.51</u>
Soil Temperature	<u>20.9</u>	Efflux 2	<u>4.55</u>

Notes: _____

Biomass Bags: 1

Subplot 3

Distance 1.72

Direction 184

Distance to tree NA

Soil Moisture	<u>11.2</u>	Efflux 1	<u>3.71</u>
Soil Temperature	<u>19.9</u>	Efflux 2	<u>3.84</u>

Notes: _____

Biomass Bags: 1

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Page 1 of 1Plot # 19 Date June 27 2018 Field crew AA ECWeather conditions & plot notes partly sunnyAmbient CO₂: 380 Δ10**Subplot 1**Distance 4.50 Direction 202° Distance to tree NA

Soil Moisture	<u>8.6</u>	Efflux 1	<u>6.77</u>
Soil Temperature	<u>19.6</u>	Efflux 2	<u>6.45</u>

Notes Cut/Plucked grass to get bare ground
and lots of antsBiomass Bags: 1**Subplot 2**Distance 2.88 Direction 154° Distance to tree NA

Soil Moisture	<u>5.7</u>	Efflux 1	<u>6.69</u>
Soil Temperature	<u>19.5</u>	Efflux 2	<u>6.61</u>

Notes: Cut/Plucked grass to get to bare groundBiomass Bags: 1**Subplot 3**Distance 1.88 Direction 332° Distance to tree NA

Soil Moisture	<u>7.3</u>	Efflux 1	<u>5.09</u>
Soil Temperature	<u>19.8</u>	Efflux 2	<u>5.07</u>

Notes: Cut/Plucked grass to get to bare groundBiomass Bags: 1

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Page 1 of 1Plot # 21Date June 29, 2018Field crew AA Ec

Weather conditions & plot notes

Sunny, breezyAmbient CO₂: 320 Δ10**Subplot 1**Distance 0.79Direction 135Distance to tree NA

Soil Moisture	<u>15.9</u>	Efflux 1	<u>5.66</u>
Soil Temperature	<u>21.2</u>	Efflux 2	<u>5.54</u>

Notes: _____

Biomass Bags: 1**Subplot 2**Distance 0.94Direction 95Distance to tree NA

Soil Moisture	<u>15.9</u>	Efflux 1	<u>6.39</u>
Soil Temperature	<u>21.4</u>	Efflux 2	<u>6.86</u>

Notes: _____

Biomass Bags: 1**Subplot 3**Distance 4.0Direction 219Distance to tree NA

Soil Moisture	<u>11.5</u>	Efflux 1	<u>4.54</u>
Soil Temperature	<u>20.8</u>	Efflux 2	<u>4.69</u>

Notes: _____

Biomass Bags: 1

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Plot # 24

Date June 27 2018

Field crew AA EC

Weather conditions & plot notes Overcast

Ambient CO₂: 380 010

Subplot 1

Distance 4.89

Direction 14

Distance to tree NA

Soil Moisture	<u>9.0</u>	Efflux 1	<u>3.92</u>
Soil Temperature	<u>21.15</u>	Efflux 2	<u>4.02</u>

Notes: _____

Biomass Bags: 1

Subplot 2

Distance 2.75

Direction 34

Distance to tree NA

Soil Moisture	<u>11.6</u>	Efflux 1	<u>3.75</u>
Soil Temperature	<u>20.8</u>	Efflux 2	<u>3.91</u>

Notes: _____

Biomass Bags: 1

Subplot 3

Distance 1.80

Direction 307

Distance to tree NA

Soil Moisture	<u>11.4</u>	Efflux 1	<u>3.75</u>
Soil Temperature	<u>20.9</u>	Efflux 2	<u>3.65</u>

Notes: _____

Biomass Bags: 1

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Page 1 of 1Plot # 25Date June 27, 2018Field crew AA ECWeather conditions & plot notes overcastAmbient CO₂: 390 210

Subplot 1

Distance 2.92Direction 243Distance to tree NA

Soil Moisture	<u>9.2</u>	Efflux 1	<u>5.5</u>
Soil Temperature	<u>20.7</u>	Efflux 2	<u>5.49</u>

Notes: * accidentally put 24 subplot run 1
when should be
plot 25 subplot run 1

Biomass Bags: 2 1

Subplot 2

Distance 3.39Direction 347Distance to tree NA

Soil Moisture	<u>9.9</u>	Efflux 1	<u>4.18</u>
Soil Temperature	<u>21.0</u>	Efflux 2	<u>4.17</u>

Notes: _____

Biomass Bags: 1

Subplot 3

Distance 0.59Direction 214Distance to tree NA

Soil Moisture	<u>9.3</u>	Efflux 1	<u>3.14</u>
Soil Temperature	<u>21.3</u>	Efflux 2	<u>3.3</u>

Notes: _____

Biomass Bags: 1