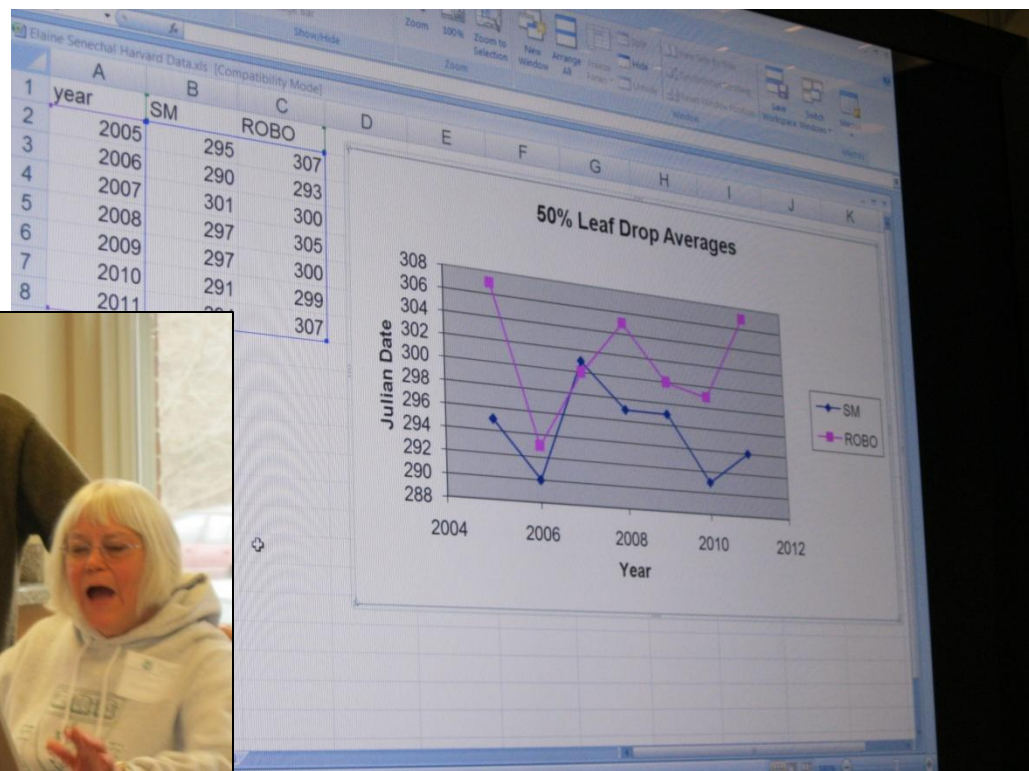




## Harvard LTER Schoolyard Program

## Teacher-Developed Graphs and Data Documents

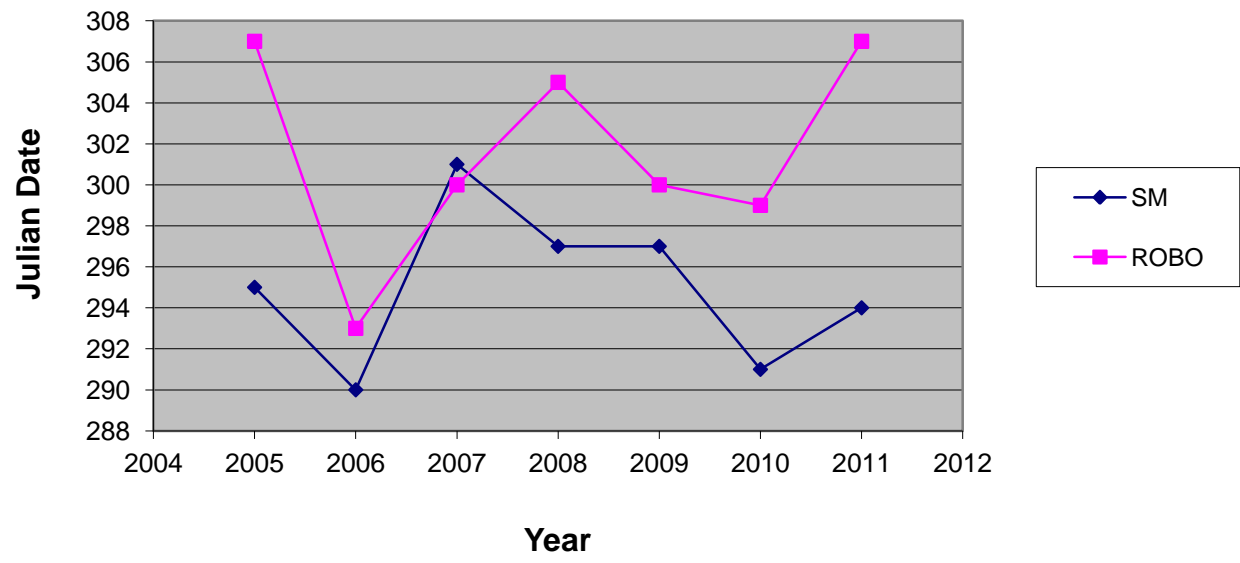
Harvard Forest Schoolyard Ecology  
Data Level 3 Workshop,  
January 11, 2012





## Harvard Forest Schoolyard Ecology : Data Level 3 Workshop, 2012

**50% Leaf Drop Averages**



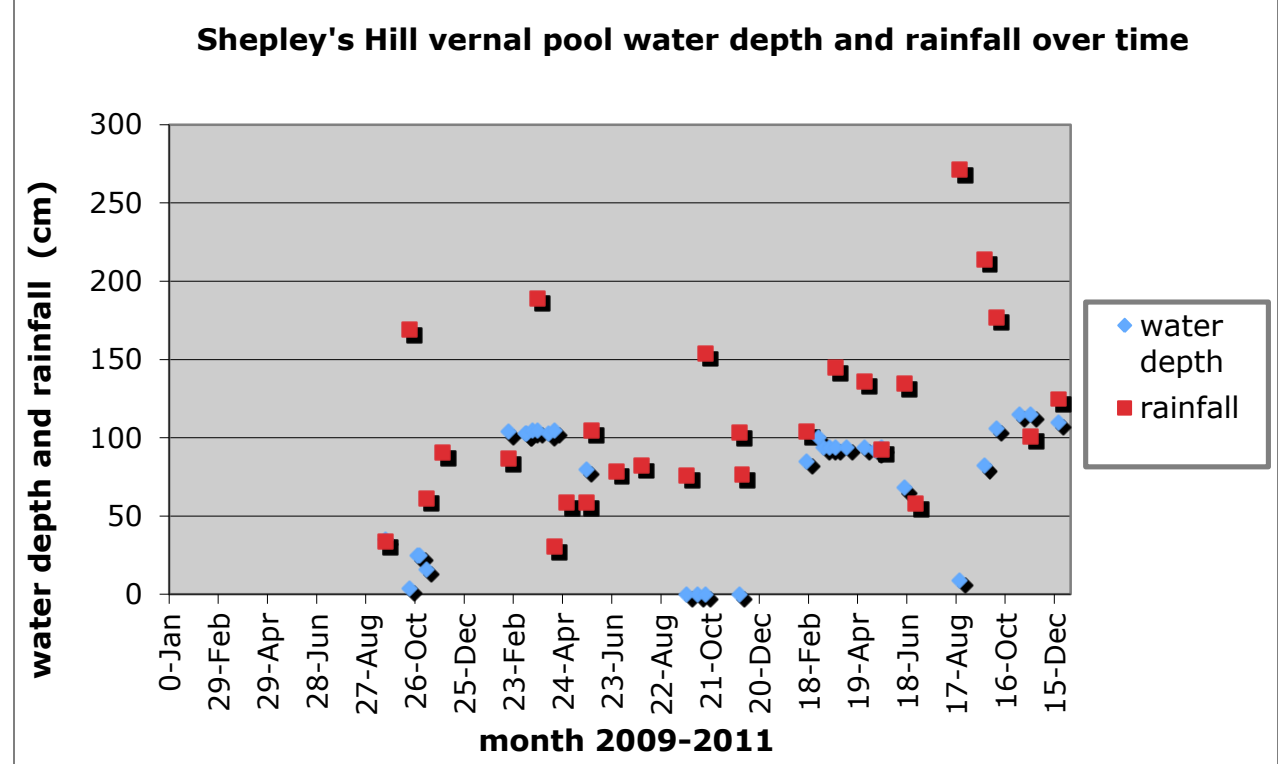
**Graph 1**

- Educational Objectives:** This is my last year of teaching and I would like to do final graphs of my 7 years of data in the most useful way to pass on to the next teacher. I want to verify beginning and ending dates for the growing season for each year, and graph this information.
- Implementation Plan:** This graph will be used by future teachers and classes that are involved in the study to interpret and compare the data over the years of the study.
- Teacher/Author:** Elaine Senechal
- School:** Tewksbury High School
- Level:** 12<sup>th</sup> Grade- Environmental Studies

- Description of graph:** The graph is a summary of 7 years of leaf drop data. It shows the averaged dates of 50% leaf drop for red/black oaks and sugar maples. This date represents the end of the growing season for these species at Tewksbury Memorial High School. See data tables 1 and 2 in Appendix.



**Harvard Forest Schoolyard Ecology : Data Level 3 Workshop, 2012**



**Graph 2**

**Description of graph and related data table :** Graph 2 shows the vernal pool's depth over time and rainfall over the same time period. See Data Table 3 in Appendix.

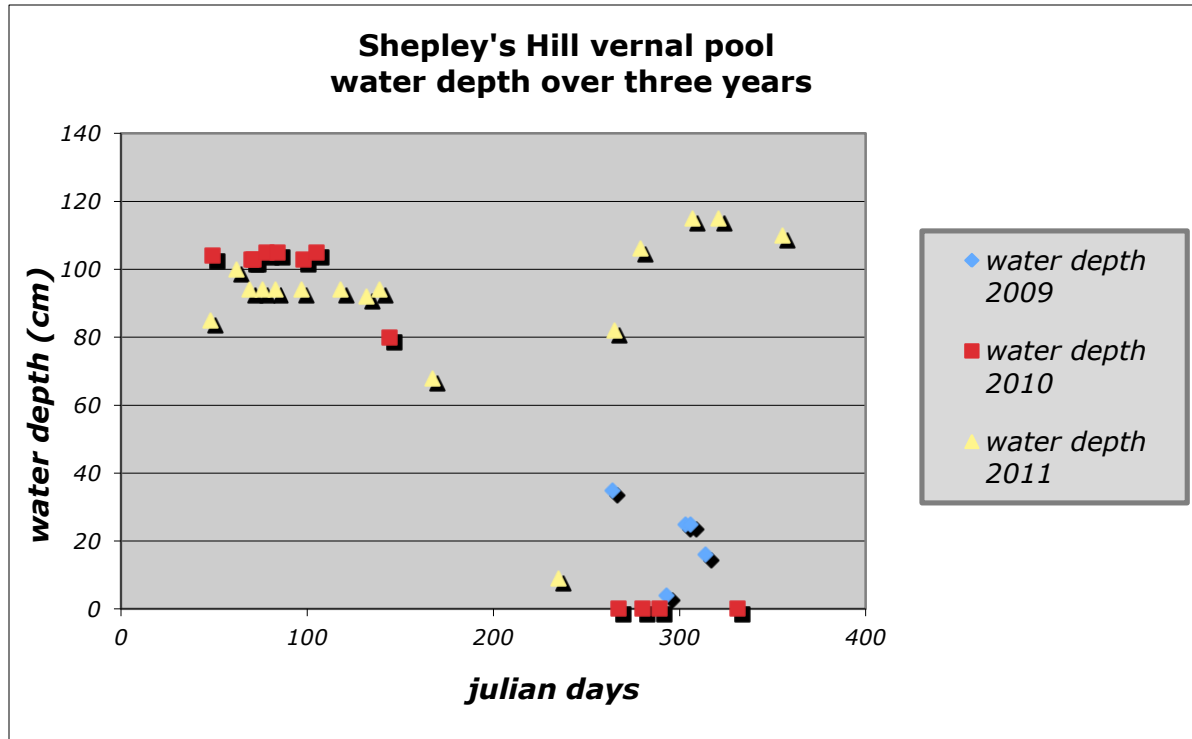
**Educational Objectives:** Since the fall of 2010, we have data for most months of the year. I would like to use it with students to look at data and graphs to see how the pool has changed over time. I am interested in what the graphing possibilities are and how best to teach them and which graphs might best communicate the pools history.

**Implementation Plan:** I hope to have students look at this and compare with what they are seeing in the pool this spring. Most won't know that the pool depth can change so dramatically over time. They can also consider whether depth is related to rainfall or are there other factors that could be important.

- Teacher/Author:** Judy Gibson
- School:** Francis Parker Charter School
- Level-** 7/8th grade math/science/technology (integrated curriculum)



## Harvard Forest Schoolyard Ecology : Data Level 3 Workshop, 2012



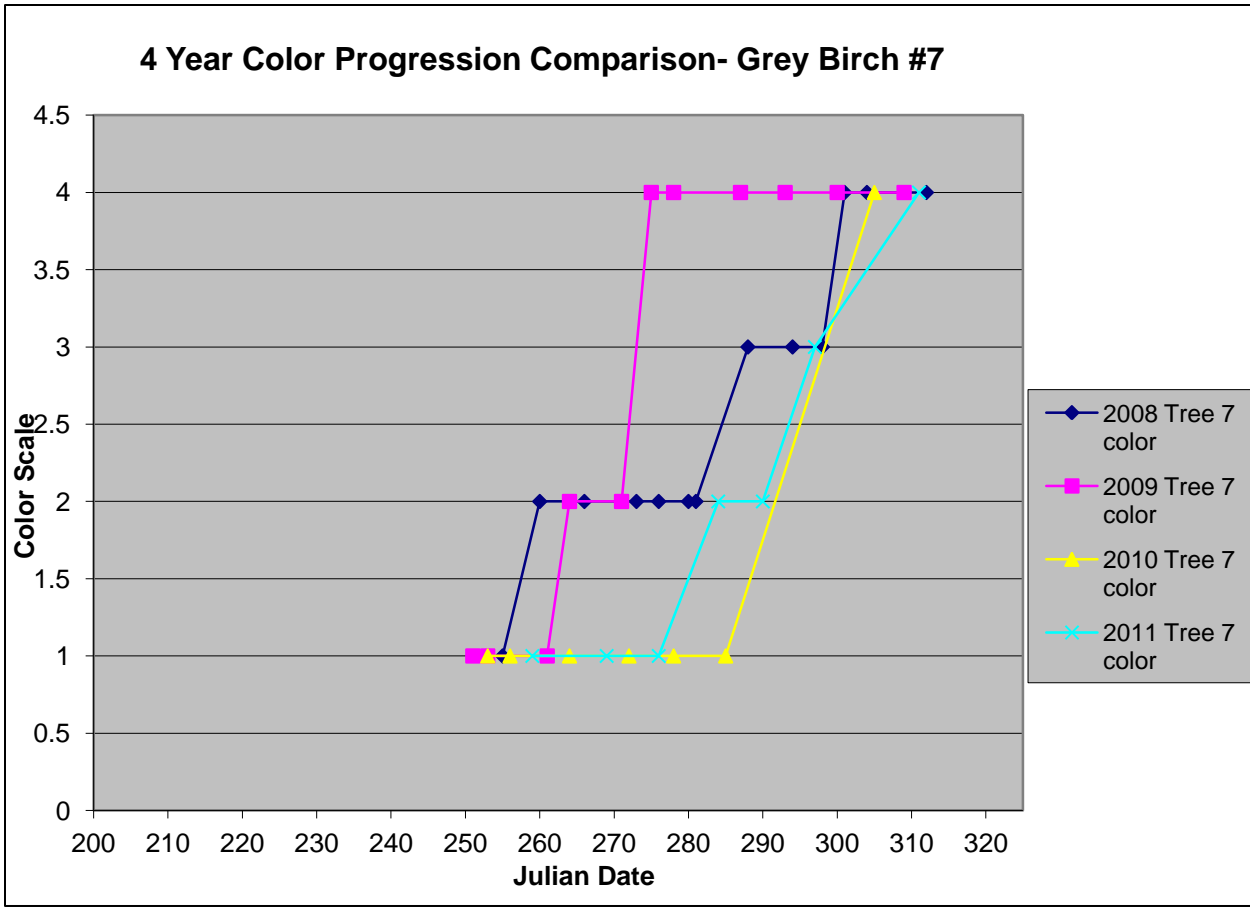
**Graph 3**

- **Educational Objectives:**  
Same as for Graph # 2.
- **Implementation Plan:**  
Students will use it this year to interpret their observations and maybe also recreate their own graphs.
- **Teacher/Author:** Judy Gibson
- **School:** Francis Parker Charter School
- **Level:** 7/8th grade math/science/technology (integrated curriculum)

• **Description of graph :** Graph 2 shows the annual depth changes of the vernal pool. It shows three year's of data for comparison. See data table 3 in Appendix.



**Harvard Forest Schoolyard Ecology : Data Level 3 Workshop, 2012**



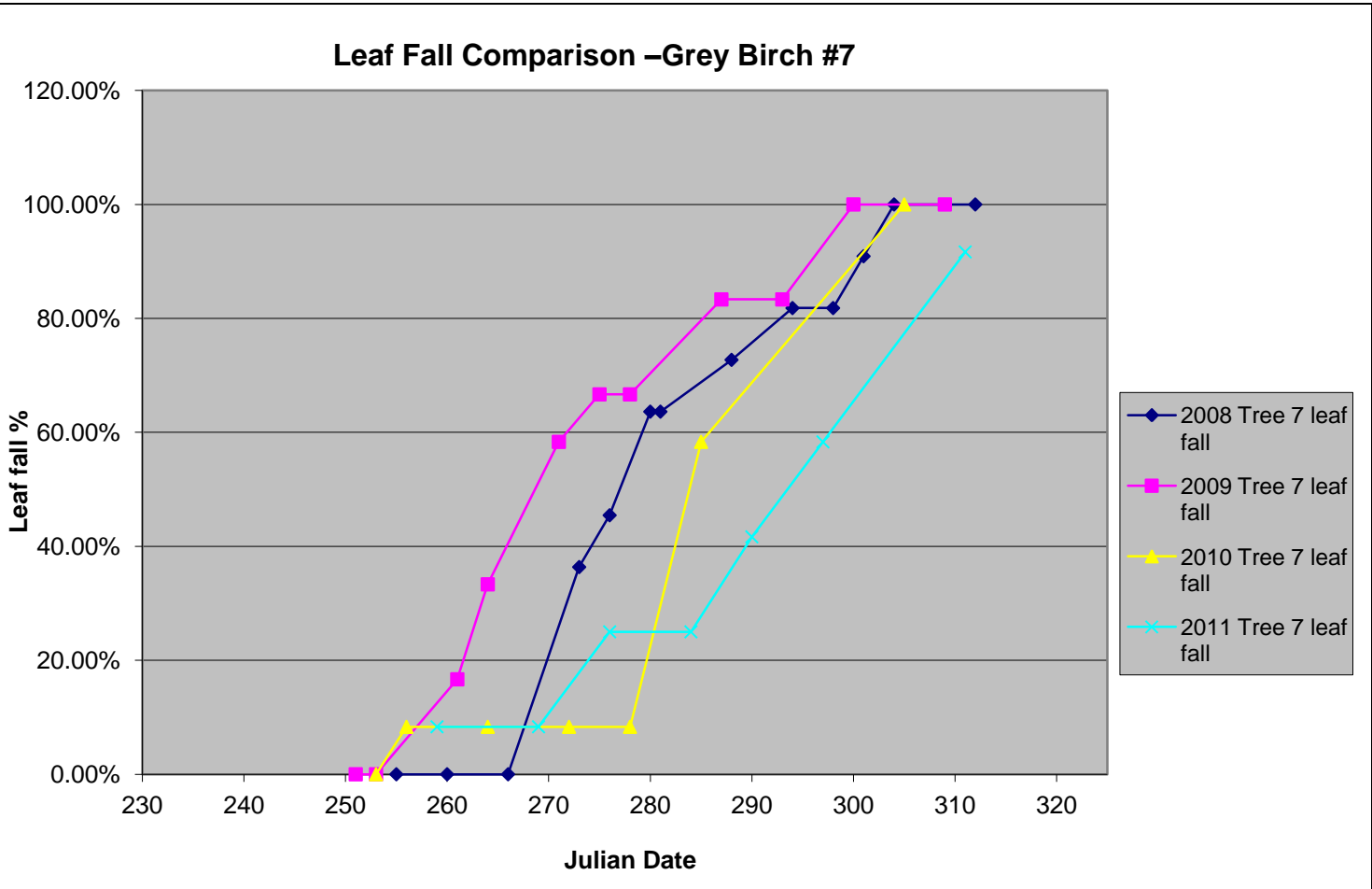
**Graph 4**

- Description of graph:** Graph shows timing of fall tree color changes from 2008 through 2011. See data table 4 in Appendix.

- Educational Objectives:** . In general goal is to have students be able to read and interpret the data and graphs. This will be my 4th year collecting data, however about 50% of the original trees have had to be eliminated and change/leaf fall. replaced. I would like to compare each species during this 4 year period to examine any possible trends with fall data for color
- Implementation Plan:** The graph will be presented to the students and explained. They will use the 50% leaf drop Julian day for the maple trees to create their own graph.
- Teacher/Author:** Bill Van Valkenburg
- School:** Gardner High School
- Level:** 12<sup>th</sup> Grade- Environmental Studies



**Harvard Forest Schoolyard Ecology : Data Level 3 Workshop, 2012**



- **Educational Objectives:** I would like to compare each species during this 4 year period to examine any possible trends with fall data for leaf drop.
- **Teacher/Author:** Bill Van Valkenburg
- **School:** Gardner High School
- **Level:** 12<sup>th</sup> Grade- Environmental Studies

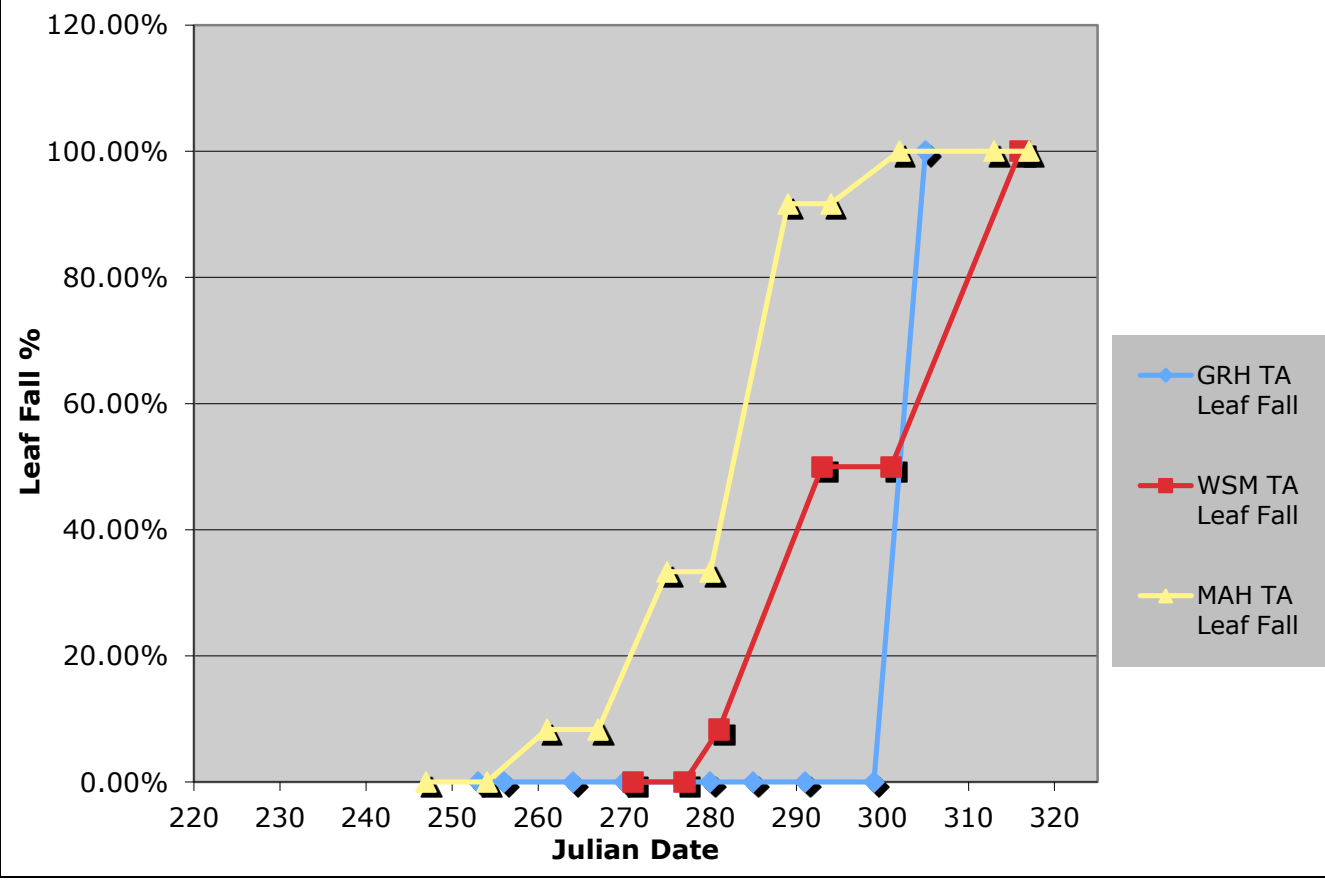
**Graph 5**

• **Description of graph and related data table:** Graph shows timing of Leaf Fall from 2008 through 2011. See Data Tables 4 and 5 in Appendix.



**Harvard Forest Schoolyard Ecology : Data Level 3 Workshop, 2012**

**2010 Trembling Aspen Leaf Fall Comparison from Different Schoolyard Ecology Locations**



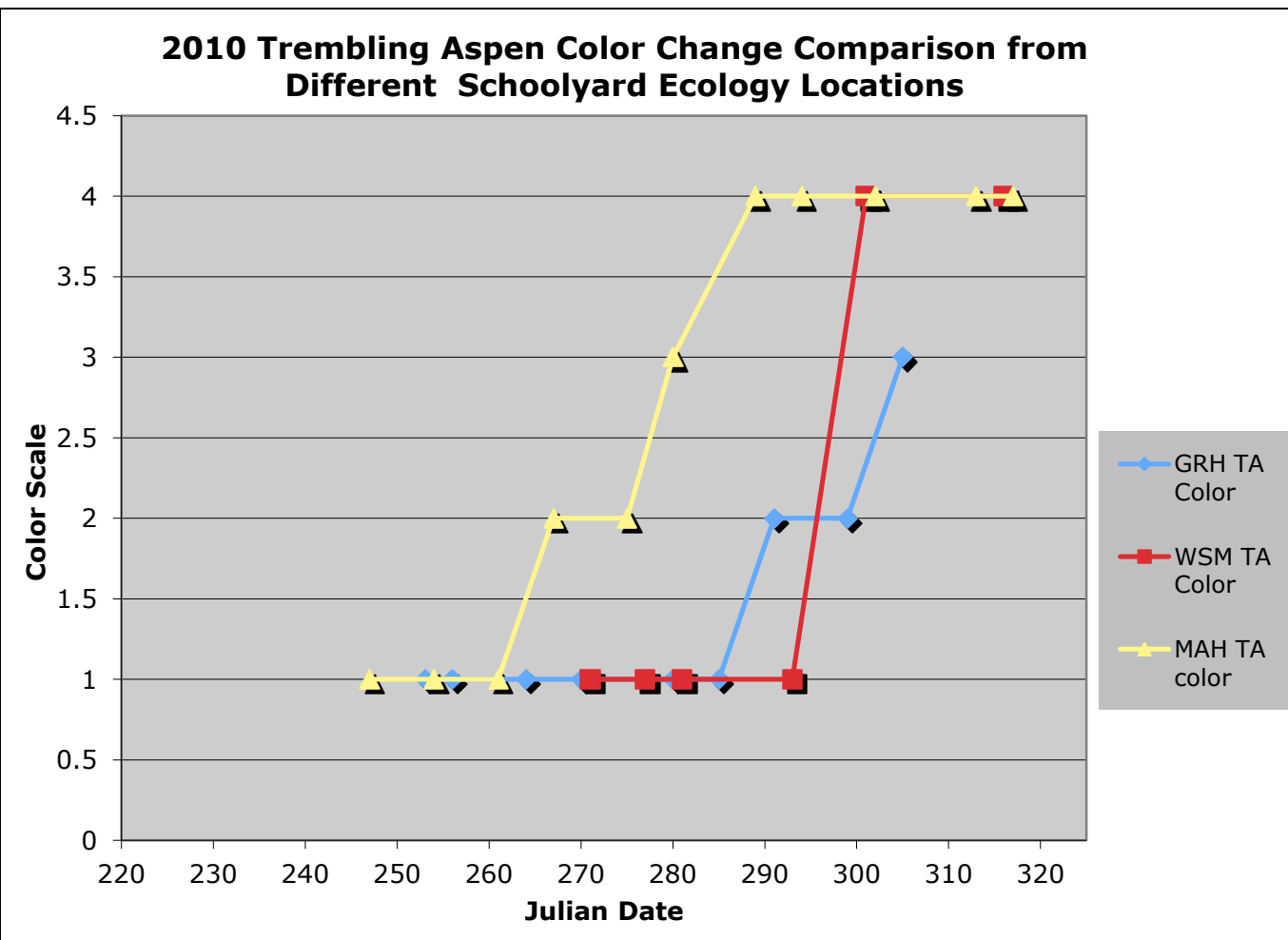
**Graph 6**

- **Educational Objectives:** I would like to look beyond our data in Gardner and compare multi-year results from other locations to our multi-year trends at Gardner, to compare trends based on latitude and/or make comparisons to similar species in different locations altitude influences within the same year.
- **Teacher/Author:** Bill Van Valkenburg
- **School:** Gardner High School
- **Level:** 12<sup>th</sup> Grade- Environmental Studies

- **Description of graph and related data table:** Graph compares leaf drop rates at 3 different geographical locations. See Data Table 6 in Appendix.



**Harvard Forest Schoolyard Ecology : Data Level 3 Workshop, 2012**



**Graph 7**

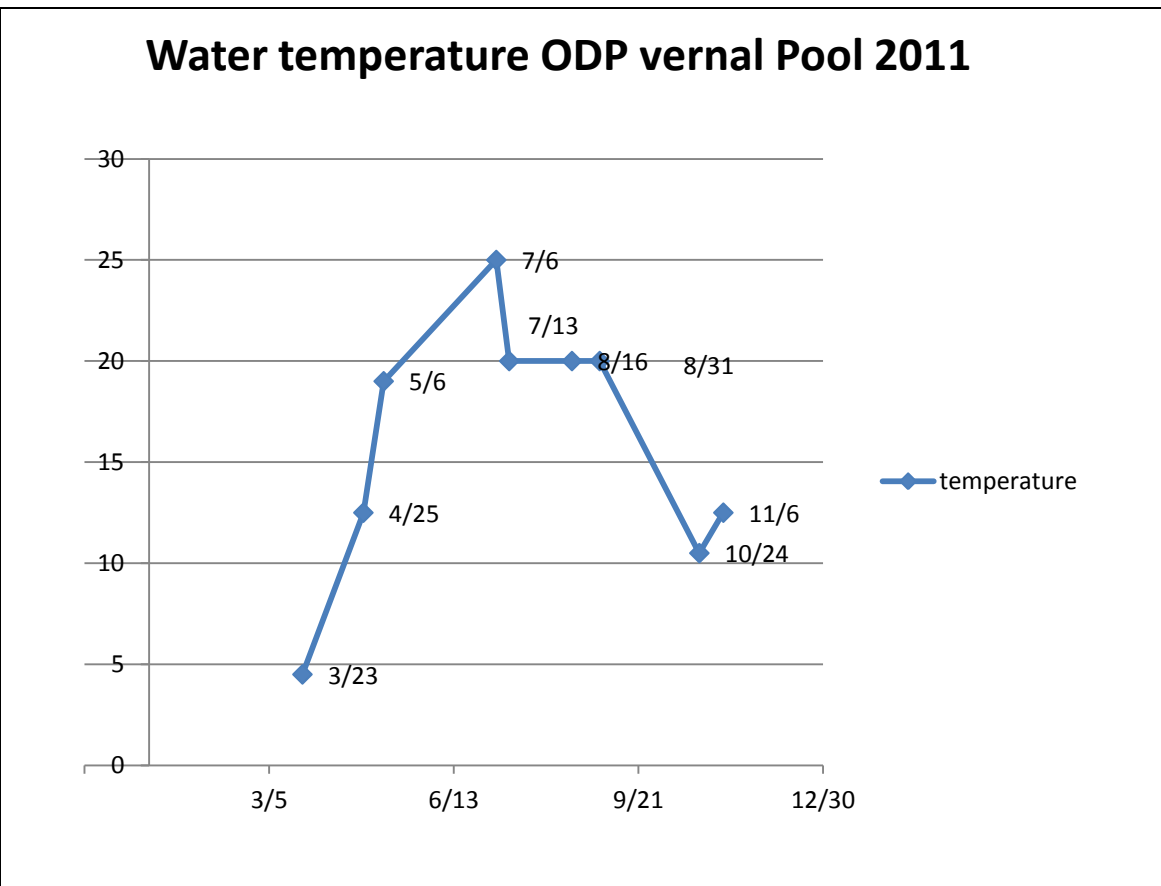
- **Educational Objectives:** . I would like to look beyond our data in Gardner and compare multi-year results from other locations to trends at Gardner, to compare trends based on latitude and make comparisons to similar species in different locations, altitude influences within the same year.
- **Teacher/Author:** Bill Van Valkenburg
- **School:** Gardner High School
- **Level:** 12<sup>th</sup> Grade- Environmental Studies

- **Description of graph:** Graph compares the timing of color changes on Trembling Aspen trees at 3 different geographical locations. See Data Table 6 in Appendix.





**Harvard Forest Schoolyard Ecology : Data Level 3 Workshop, 2012**



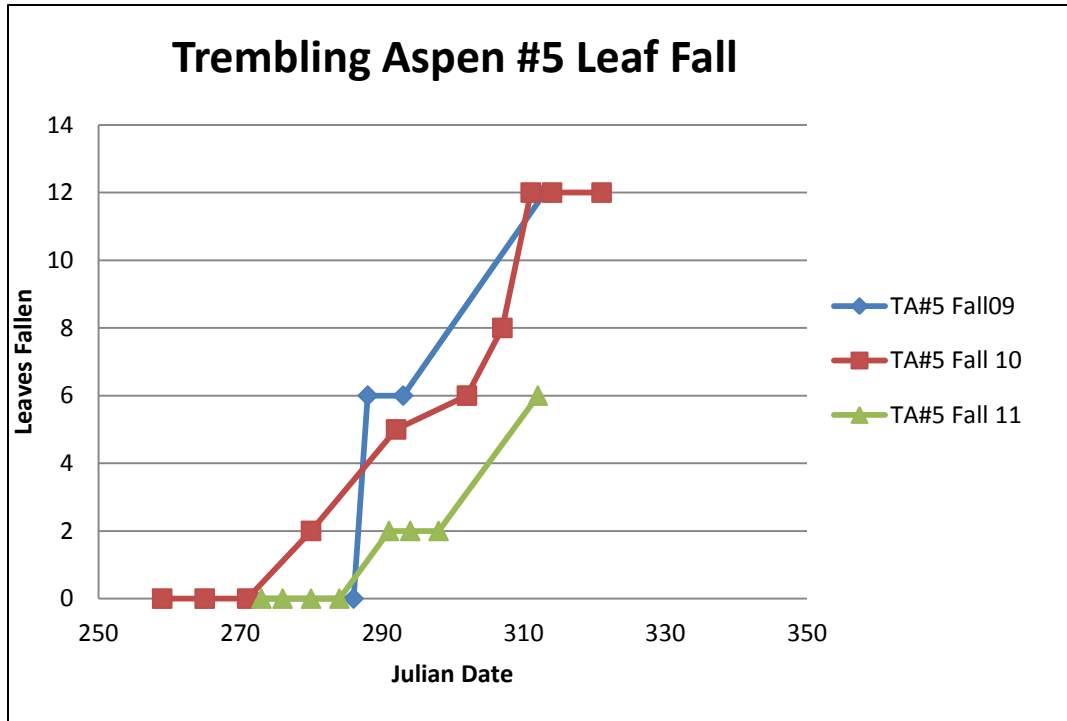
**Graph 8**

- **Educational Objectives:** : How to work with the data so we can follow changes in pond temperature. We also hope to figure out how to set this up so teachers and schools can access this data on the web. I'd be very happy if I can just learn to plot basic graphs related to temperature, pond depth etc.
- **Implementation Plan:** The students will use this graph to compare the temperature data that they collect. We also hope to develop graphs for the macro invertebrate so that the students may also compare that data.
- **Teacher/Author:** Sally Farrow
- **Organization/Location:** Mass. Audubon, Drumlin Farm Sanctuary
- **Level:** K-12

- **Description of graph and related data table:** This graph shows the fluctuation in the water temperature in relation to the time of year. See Data Table 7 in Appendix.



## Harvard Forest Schoolyard Ecology : Data Level 3 Workshop, 2012



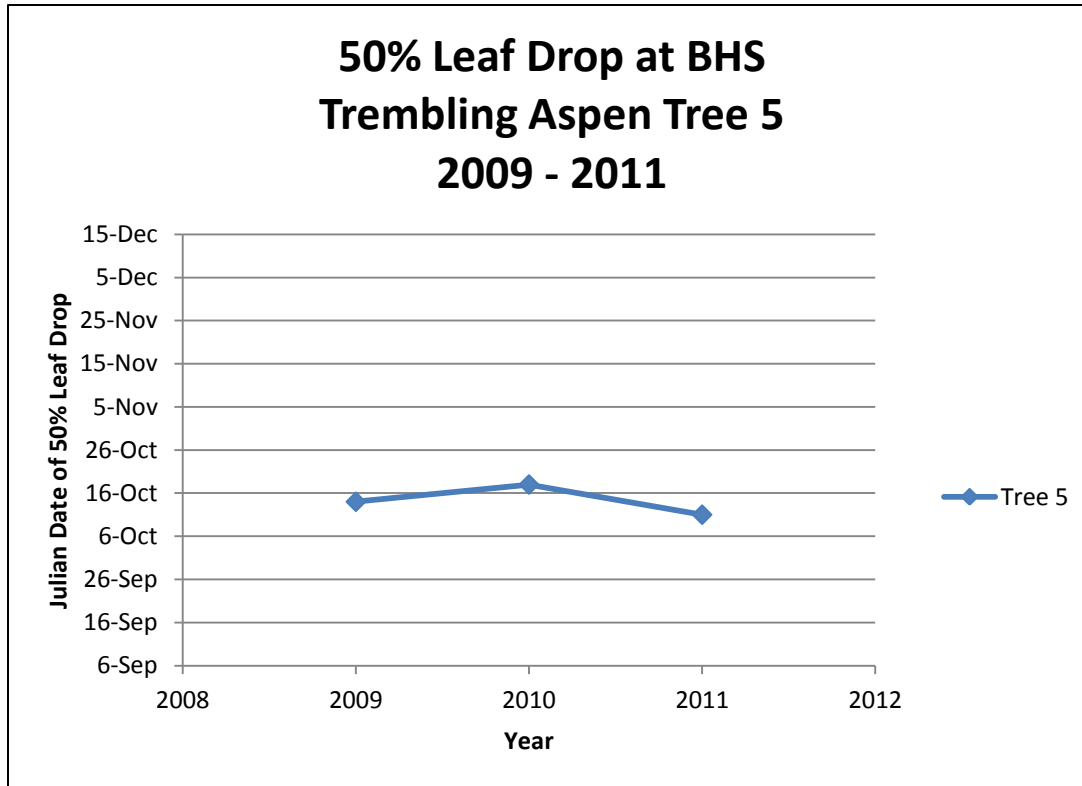
**Graph 9**

- **Description of graph and related data table:** Leaf fall chronology for one tree over 3 years of data collection, **N = 12 leaves tracked per year**. See Data Tables 7 and 8 in Appendix.

- **Educational Objectives:** Give the students the chance to produce, for 3-years' worth of data on their own study trees, an analysis that is similar to the graph that John O'Keefe showed us that represents his 21 years of data
- **Implementation Plan:** The students produced the equivalent of this graph in class, by hand, each year as a separate graph. The eventual goal is to have students create graphs using the computer.
- **Teacher/Author:** Louise Levy
- **School:** Belchertown High School
- **Level:** 12<sup>th</sup> Grade – Environmental Studies



**Harvard Forest Schoolyard Ecology : Data Level 3 Workshop, 2012**



**Graph 10**

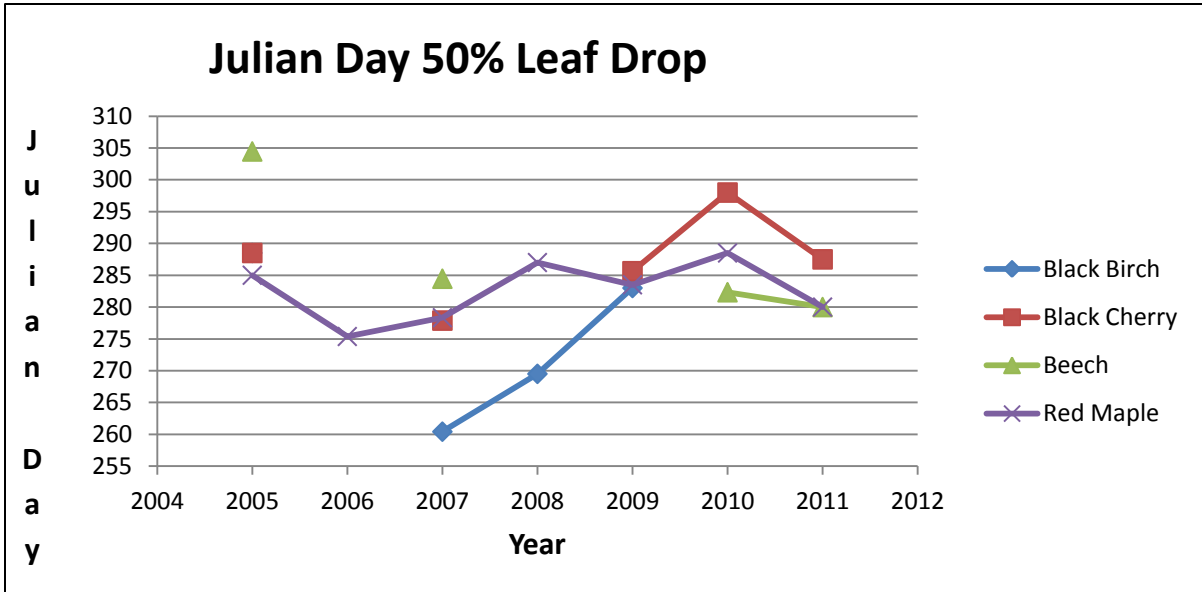
- **Description of graph:** This graph shows the estimated date of 50% Leaf Drop for one tree over 3 years. We are calling this the end of the growing season. See Data Tables 8 and 9 in Appendix.

- **Educational Objectives:** Same as for graph 9 above.
- **Implementation Plan:** I plan to have the students create this graph, with the beginning *and* the end of the growing season, by hand this year and hopefully electronically next year. They will present "The Story of Our Tree" to the class. The attached graph is the one I'll show the students this year.

- **Teacher/Author:** Louise Levy
- **School:** Belchertown High School
- **Level:** 12<sup>th</sup> Grade – Environmental Studies



**Harvard Forest Schoolyard Ecology : Data Level 3 Workshop, 2012**



**Graph 11**

- **Description of graph and related data table:** The graph shows the date that 50% of the leaves had dropped for our study site. See data table 10 in Appendix: Table 9 shows the dates of color change and leaf drop for a black birch tree for 2005,2006, 2007. Tables 10 and 11 calculate the Julian day that 50% of the leaves had dropped for that particular tree that year.
- **Other notes:** Early data for Briggs had missing data, and there were some years that A and B branches were not combined for particular trees. New trees were used over the trees because of damage. A couple more years of consistent data will be very helpful.

- **Educational Objectives:** I would like to look through the data we have for the buds protocol through the years and see if I can come up with some comparison graphing exercise I can do with the kids. One of the issues I have is that they are different trees.
- **Implementation Plan:** The graph will be presented to the students and explained. They will use the 50% leaf drop Julian day for the maple trees to create their own graph.
- **Teacher/Author:** Katherine Bennett
- **School:** J.R. Briggs Elementary School
- **Level:** 5<sup>th</sup> Grade- Science



## Appendix to Teacher Developed Graphs and Data Documents Harvard Forest Schoolyard Ecology Data Level 3 Workshop, 2012.

### Teacher Generated Data Tables To Correspond with Graphs Above



Metadata for each project available at :

Woolly Bully: <http://harvardforest.fas.harvard.edu/schoolyard/hwa-data>

Vernal Pool: <http://harvardforest.fas.harvard.edu/schoolyard/vernal-data>

Buds/Leaves: <http://harvardforest.fas.harvard.edu/schoolyard/phenology-data>

## Data Table 1

- **Teacher/Author:** Elaine Senechal
- **School:** Tewksbury High School



<b>year</b>	<b>SM</b>	<b>ROBO</b>
2005	295	307
2006	290	293
2007	301	300
2008	297	305
2009	297	300
2010	291	299
2011	294	307

## Data Table 2

- **Teacher/Author:** Elaine Senechal
- **School:** Tewksbury High School



Date	Julian	TreeID	Species	Ltotal	Lfallen	Tcolor	lfall %		year	species	treeid	d1	p1	d2	p2	50%lfalljul ianday
9/20/2005	263	2	BB	12	0	1	0		2005	BB	2	263	0	314	100	289
9/29/2005	272	2	BB	12	1	2	8		2006	BB	2	nd	nd	nd	nd	
10/6/2005	279	2	BB	12	2	2	17		2007	BB	2	253	42	291	83	260
10/17/2005	290	2	BB	12	3	4	25		2008	BB	23	266	0	273	100	270
11/3/2005	307	2	BB	12	7	4	58		2009	BB	2	266	0	300	100	283
11/10/2005	314	2	BB	12	12	4	100		2005	BC	4	263	0	314	100	289
9/18/2006	261	2	BB	12	0	NA	0		2006	BC	4	nd	nd	nd	nd	
9/27/2006	270	2	BB	12	0	NA	0		2007	BC	4	256	0	291	80	278
10/4/2006	277	2	BB	12	4	NA	33		2008	BC	4	nd	nd	nd	nd	
10/11/2006	284	2	BB	12	4	NA	33		2009	BC	4	266	8	309	100	286
9/10/2007	253	2	BB	12	5	NA	42		2010	BC	35	291	0	305	100	298
9/13/2007	256	2	BB	12	5	NA	42		2011	BC	35	270	0	305	100	288
9/14/2007	257	2	BB	12	9	1	75		2005	BE	3	290	0	314	83	304
9/18/2007	261	2	BB	12	8	NA	67		2006	BE	3	nd	nd	nd	nd	
9/20/2007	263	2	BB	12	5	NA	42		2007	BE	3	264	0	291	66	284
9/21/2007	264	2	BB	12	9	1	75		2008	BE	3	nd				
9/25/2007	268	2	BB	12	9	NA	75		2009	BE	3	nd				
9/27/2007	270	2	BB	12	9	NA	75		2010	BE	32	278	25	291	100	282
9/28/2007	271	2	BB	12	9	3	75		2011	BE	32	270	0	290	100	280
10/2/2007	275	2	BB	12	9	NA	75		2005	RM	1	263	0	307	100	285
10/3/2007	276	2	BB	12	9	NA	75		2006	RM	1	261	0	284	80	275
10/4/2007	277	2	BB	12	9	3	75		2007	RM	1	253	0	291	75	278
10/9/2007	282	2	BB	12	9	NA	75		2008	RM	1	280	0	294	100	287
10/11/2007	284	2	BB	12	10	NA	83		2009	RM	1	274	0	293	100	284
10/11/2007	284	2	BB	12	10	3	83		2010	RM	1	278	0	299	100	289
10/16/2007	289	2	BB	12	10	NA	83		2011	RM	31	270	0	290	100	280







## Data Table 4

### Graph Template for Student Use

- **Teacher/Author:** Bill Van Valkenburg
- **School:** Gardner High School

2008	Date	Julian	TreeID	Species	Ltotal	Lfallen	Tcolor	Lfall%	Date before 50%	Date after 50%	LF% before 50%	LF% after 50%	50% Leaf Fall date
	9/11/2008	255	7	GB	11	0	1	0.00%					#DIV/0!
	9/16/2008	260	7	GB	11	0	2	0.00%					#DIV/0!
	9/22/2008	266	7	GB	11	0	2	0.00%					#DIV/0!
	9/29/2008	273	7	GB	11	4	2	36.36%					#DIV/0!
	10/2/2008	276	7	GB	11	5	2	45.45%					#DIV/0!
	10/6/2008	280	7	GB	11	7	2	63.64%					#DIV/0!
	10/7/2008	281	7	GB	11	7	2	63.64%					#DIV/0!
	10/14/2008	288	7	GB	11	8	3	72.73%					#DIV/0!
	10/20/2008	294	7	GB	11	9	3	81.82%					#DIV/0!
	10/24/2008	298	7	GB	11	9	3	81.82%					#DIV/0!
	10/27/2008	301	7	GB	11	10	4	90.91%					#DIV/0!
	10/30/2008	304	7	GB	11	11	4	100.00%					#DIV/0!
	11/7/2008	312	7	GB	11	11	4	100.00%					#DIV/0!
													#DIV/0!
													#DIV/0!
2009	Date	Julian	TreeID	Species	Ltotal	Lfallen	Tcolor	Lfall%	Date before 50%	Date after 50%	LF% before 50%	LF% after 50%	50% Leaf Fall date
	9/8/2009	251	7	GB	12	0	1	0.00%					#DIV/0!
	9/10/2009	253	7	GB	12	0	1	0.00%					#DIV/0!
	9/18/2009	261	7	GB	12	2	1	16.67%					#DIV/0!
	9/21/2009	264	7	GB	12	4	2	33.33%					#DIV/0!
	9/28/2009	271	7	GB	12	7	2	58.33%					#DIV/0!
	10/2/2009	275	7	GB	12	8	4	66.67%					#DIV/0!
	10/5/2009	278	7	GB	12	8	4	66.67%					#DIV/0!
	10/14/2009	287	7	GB	12	10	4	83.33%					#DIV/0!
	10/20/2009	293	7	GB	12	10	4	83.33%					#DIV/0!
	10/27/2009	300	7	GB	12	12	4	100.00%					#DIV/0!
	11/5/2009	309	7	GB	12	12	4	100.00%					#DIV/0!

# Data Table 5

## Environmental Science LTER Fall Tree Data Analysis

- **Teacher/Author:** Bill Van Valkenburg
- **School:** Gardner High School



Name:		Class Block:											
Tree Species:		Tree #:											
2008	Date	Julian	TreelD	Species	Ltotal	Lfallen	Tcolor	Lfall%	Date before 50%	Date after 50%	LF% before 50%	LF% after 50%	50% Leaf Fall date
	9/11/2008	255	7	GB	11	0	1	0.00%					#DIV/0!
	9/16/2008	260	7	GB	11	0	2	0.00%					#DIV/0!
	9/22/2008	266	7	GB	11	0	2	0.00%					#DIV/0!
	9/29/2008	273	7	GB	11	4	2	36.36%					#DIV/0!
	10/2/2008	276	7	GB	11	5	2	45.45%					#DIV/0!
	10/6/2008	280	7	GB	11	7	2	63.64%					#DIV/0!
	10/7/2008	281	7	GB	11	7	2	63.64%					#DIV/0!
	10/14/2008	288	7	GB	11	8	3	72.73%					#DIV/0!
	10/20/2008	294	7	GB	11	9	3	81.82%					#DIV/0!
	10/24/2008	298	7	GB	11	9	3	81.82%					#DIV/0!
	10/27/2008	301	7	GB	11	10	4	90.91%					#DIV/0!
	10/30/2008	304	7	GB	11	11	4	100.00%					#DIV/0!
	11/7/2008	312	7	GB	11	11	4	100.00%					#DIV/0!
													#DIV/0!
													#DIV/0!
2009	Date	Julian	TreelD	Species	Ltotal	Lfallen	Tcolor	Lfall%	Date before 50%	Date after 50%	LF% before 50%	LF% after 50%	50% Leaf Fall date
	9/8/2009	251	7	GB	12	0	1	0.00%					#DIV/0!
	9/10/2009	253	7	GB	12	0	1	0.00%					#DIV/0!
	9/18/2009	261	7	GB	12	2	1	16.67%					#DIV/0!
	9/21/2009	264	7	GB	12	4	2	33.33%					#DIV/0!
	9/28/2009	271	7	GB	12	7	2	58.33%					#DIV/0!
	10/2/2009	275	7	GB	12	8	4	66.67%					#DIV/0!
	10/5/2009	278	7	GB	12	8	4	66.67%					#DIV/0!
	10/14/2009	287	7	GB	12	10	4	83.33%					#DIV/0!
	10/20/2009	293	7	GB	12	10	4	83.33%					#DIV/0!
	10/27/2009	300	7	GB	12	12	4	100.00%					#DIV/0!
	11/5/2009	309	7	GB	12	12	4	100.00%					#DIV/0!
													#DIV/0!
													#DIV/0!
													#DIV/0!
													#DIV/0!
2010	Date	Julian	TreelD	Species	Ltotal	Lfallen	Tcolor	Lfall%	Date before 50%	Date after 50%	LF% before 50%	LF% after 50%	50% Leaf Fall date
	9/10/2010	253	7	GB	12	0	1	0.00%					#DIV/0!
	9/13/2010	256	7	GB	12	1	1	8.33%					#DIV/0!

## Data Table 6

### Fall Tree Data Comparison by Location

- **Teacher/Author:** Bill Van Valkenburg
- **School:** Gardner High School



<b>Gardner, MA</b>	<b>Date</b>	<b>Julian</b>	<b>TreeID</b>	<b>Species</b>	<b>Ltotal</b>	<b>Lfallen</b>	<b>Tcolor</b>	<b>Lfall%</b>
GRH	9/11/2010	253	6	TA	12	0	1	0.00%
GRH	9/14/2010	256	6	TA	12	0	1	0.00%
GRH	9/22/2010	264	6	TA	12	0	1	0.00%
GRH	9/28/2010	270	6	TA	12	0	1	0.00%
GRH	10/8/2010	280	6	TA	12	0	1	0.00%
GRH	10/13/2010	285	6	TA	12	0	1	0.00%
GRH	10/19/2010	291	6	TA	12	0	2	0.00%
GRH	10/27/2010	299	6	TA	12	0	2	0.00%
GRH	11/2/2010	305	6	TA	12	12	3	100.00%
								#DIV/0!
								#DIV/0!
								#DIV/0!
								#DIV/0!
								#DIV/0!
								#DIV/0!
								#DIV/0!
<b>W. Springfield, MA</b>	<b>Date</b>	<b>Julian</b>	<b>TreeID</b>	<b>Species</b>	<b>Ltotal</b>	<b>Lfallen</b>	<b>Tcolor</b>	<b>Lfall%</b>
WSM	9/28/2010	271	15	TA	12	0	1	0.00%
WSM	10/4/2010	277	15	TA	12	0	1	0.00%
WSM	10/8/2010	281	15	TA	12	1	1	8.33%
WSM	10/20/2010	293	15	TA	12	6	1	50.00%
WSM	10/28/2010	301	15	TA	12	6	4	50.00%
WSM	11/12/2010	316	15	TA	12	12	4	100.00%

## Data Table 7

- **Teacher/Author:** Sally Farrow
- **Organization/Location:** Mass. Audubon, Drumlin Farm Sanctuary



ODP vernal pool			
date	julian	air T	water T
3/24/2011	83	0.5	4.5
4/26/2011	116	14.5	12.5
5/7/2011	127	22	19
7/7/2011	188	31	25
7/14/2011	195	25	20
8/17/2011	229	23	20
9/1/2011	244	24	20
10/25/2011	298	14	10.5
11/7/2011	311		12.5

# Data Table 8

**Teacher/Author:** Louise Levy  
**School:** Belchertown High School



## Fall Leaf Drop and Color change

School	Teacher	Date	Julian	TreeID	Species	Ltotal	Lfallen	Tcolor		Julian date	Lfallen
BHS	Levy	9/29/2009	272	5	TA	12	0	2		272	0
BHS	Levy	10/13/2009	286	5	TA	12	0	3		286	0
BHS	Levy	10/15/2009	288	5	TA	12	6	3		288	6
BHS	Levy	10/20/2009	293	5	TA	12	6	3		293	6
BHS	Levy	11/9/2009	313	5	TA	12	12	4		313	12
BHS	Levy	9/16/2010	259	5	TA	12	0	1		259	0
BHS	Levy	9/22/2010	265	5	TA	12	0	1		265	0
BHS	Levy	9/28/2010	271	5	TA	12	0	1		271	0
BHS	Levy	10/7/2010	280	5	TA	12	2	1		280	2
BHS	Levy	10/19/2010	292	5	TA	12	5	2		292	5
BHS	Levy	10/29/2010	302	5	TA	12	6	3		302	6
BHS	Levy	11/3/2010	307	5	TA	12	8	4		307	8
BHS	Levy	11/7/2010	311	5	TA	12	12	4		311	12
BHS	Levy	11/10/2010	314	5	TA	12	12	4		314	12
BHS	Levy	11/17/2010	321	5	TA	12	12	4		321	12
BHS	Levy	30-Sep-11	273	5	TA	12	0	1		273	0
BHS	Levy	4-Oct-11	276	5	TA	12	0	1		276	0
BHS	Levy	7-Oct-11	280	5	TA	12	0	1		280	0
BHS	Levy	11-Oct-11	284	5	TA	12	0	1		284	0
BHS	Levy	18-Oct-11	291	5	TA	12	2	2		291	2
BHS	Levy	21-Oct-11	294	5	TA	12	2	3		294	2
BHS	Levy	25-Oct-11	298	5	TA	12	2	4		298	2
BHS	Levy	8-Nov-11	312	5	TA	12	6	4		312	6



## Data Table 9

50% Leaf Drop at BHS  
Trembling Aspen Tree 5  
2009 - 2011

- Teacher/Author:** Louise Levy
- School:** Belchertown High School

<b>Tree ID</b>	5
<b>Species</b>	Trembling Aspen

<b>Year</b>	<b>Julian date of 50% Leaf drop</b>
2009	288
2010	292
2011	285



# Data Table 10

Teacher/Author: Katherine Bennett

School: J.R. Briggs Elementary School

Teacher	Date	Julian	TreeID	Species	Ltotal	Lfallen	Tcolor	lfall %			year	species	treeid	d1	p1	d2	p2	50%lfalljulianday
Gera	9/20/2005	263	2	BB	12	0	1	0			2005	BB	2	263	0	314	100	289
Gera	9/29/2005	272	2	BB	12	1	2	8			2006	BB	2	nd	nd	nd	nd	
Gera	10/6/2005	279	2	BB	12	2	2	17			2007	BB	2	253	42	291	83	260
Gera	10/17/2005	290	2	BB	12	3	4	25			2008	BB	23	266	0	273	100	270
Gera	11/3/2005	307	2	BB	12	7	4	58			2009	BB	2	266	0	300	100	283
Gera	11/10/2005	314	2	BB	12	12	4	100			2005	BC	4	263	0	314	100	289
Gera	9/18/2006	261	2	BB	12	0	NA	0			2006	BC	4	nd	nd	nd	nd	
Gera	9/27/2006	270	2	BB	12	0	NA	0			2007	BC	4	256	0	291	80	278
Gera	10/4/2006	277	2	BB	12	4	NA	33			2008	BC	4	nd	nd	nd	nd	
Gera	10/11/2006	284	2	BB	12	4	NA	33			2009	BC	4	266	8	309	100	286
Robichaud	9/10/2007	253	2	BB	12	5	NA	42			2010	BC	35	291	0	305	100	298
Cucchiara	9/13/2007	256	2	BB	12	5	NA	42			2011	BC	35	270	0	305	100	288
McLynch	9/14/2007	257	2	BB	12	9	1	75			2005	BE	3	290	0	314	83	304
Robichaud	9/18/2007	261	2	BB	12	8	NA	67			2006	BE	3	nd	nd	nd	nd	
Cucchiara	9/20/2007	263	2	BB	12	5	NA	42			2007	BE	3	264	0	291	66	284
McLynch	9/21/2007	264	2	BB	12	9	1	75			2008	BE	3	nd				
Robichaud	9/25/2007	268	2	BB	12	9	NA	75			2009	BE	3	nd				
Cucchiara	9/27/2007	270	2	BB	12	9	NA	75			2010	BE	32	278	25	291	100	282
McLynch	9/28/2007	271	2	BB	12	9	3	75			2011	BE	32	270	0	290	100	280
Robichaud	10/2/2007	275	2	BB	12	9	NA	75			2005	RM	1	263	0	307	100	285
Cucchiara	10/3/2007	276	2	BB	12	9	NA	75			2006	RM	1	261	0	284	80	275