

Phunky Phenology

Teacher Name: _____

Class: _____

Year: _____

School: _____

Latitude: _____

Longitude: _____

Plant Species: _____

Tulip Garden: Yes / No

Is your site irrigated? _____

Introduction

Welcome to *Phunky Phenology*, our new grassroots effort to track the changing of the seasons! Ever notice when your teacher switches from long to short sleeves? Or when your cat offers up her first hair ball of the season? When is it too cold to text your friends during recess? When does the first Robin hop into your yard? When do Miller moths first annoy you? These are the sort of important questions we are going to try to answer... along with some other interesting observations, like when do buds appear on trees, when do tulips bloom, and when are fall colors the best?

Getting Started

1. Choose a site and make a map of it.
2. Record daily observations in this book.
3. Plot up your results in the classroom on a poster.
4. Return this book to CSU when it is full.

Things to Look for in the Spring

Budburst: Budburst is when buds swell and leaves begin emerging from the bud. Record as observed if you see at least 3 buds breaking on 3 separate locations on the plant.

Leaf Length: Measure the length from the base of the petiole to the leaf tip in millimeters (mm).

First Leaf: First leaves are completely unfolded from the bud and the stem of the leaf is visible.

All Leaf Out: Nearly all (at least 95%) of the growing leaf buds have already reached the completely unfolded stage described above (First Leaf).

First Flower/Pollen: First flowers are completely open on at least three places on the plant.

Full/Peak Flower: Half of the flowers are fully opened. This may or may not happen.

End Flowering: When the last flower has withered or dried up.

→ N

Legend

Phenology Site Sketch Map

Spring

Date: _____

	Did not Check	Not Reached	Reached
<div style="border: 1px solid black; width: 80%; height: 100%; margin-bottom: 5px;">Comments</div> Budburst Leaf Length _____ mm First Leaf All Leaf Out First Flower/Pollen Full/Peak Flower End Flowering			

Date: _____

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Date: _____

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								Check	Reached	Reached
		mm								

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		mm								

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Spring Tulip Test Garden

Date Tulips Planted: _____

Notes about planting:

Date Tulips Greens Emerged: _____

Notes:

Date Tulips Bloomed: _____

Notes:

Things to Look for in the Fall

1st Ripe Fruit: The first fruits becoming fully ripe or seeds dropping naturally from the plant. Ripening is usually indicated by a change in color to the mature color, or by drying and splitting open (for dry fruits such as capsules).

% Leaf Color: Estimate the approximate percentage of leaves that have changed color on the plant. All Green = 0% Color; Full Color = 100%.

50% Color: Half of the leaves have started to change color.

All Leaves Colored: All leaves (>95%) have changed color.

% Leaf Drop: Estimate the percentage of leaves that have dropped.

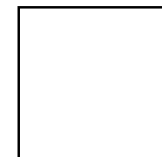
50% Leaf Drop: Half of the leaves have fallen off the tree or shrub.

All Leaf Drop: All leaves (>95%) have fallen.

Crayola Color: Use the color chart on this page to find the nearest color that matches the leaf's main color.



Sea Green



Asparagus



Olive Green



Goldenrod



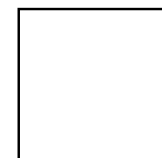
Orange



Yellow Green



Peach



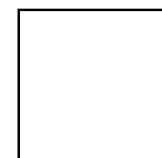
Tumbleweed



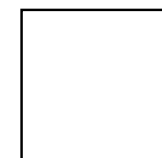
Brown



Burnt Sienna



Chestnut



Brick Red

→ N

Legend

Phenology Site Sketch Map

Fall

Date: _____

Did not Check	Not Reached	Reached

1st Ripe Fruit _____

% Leaf Color _____ %

50% Color _____

All Leaves Colored _____

% Leaf Drop _____

50% Leaf Drop _____

All Leaf Drop _____

Crayola Color: _____

Date: _____

Did not Check	Not Reached	Reached

1st Ripe Fruit _____

% Leaf Color _____ %

50% Color _____

All Leaves Colored _____

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Crayola Color: _____

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50% Color _____

All Leaves Colored _____

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All Leaf Drop _____

Crayola Color: _____

Fall

Date: _____

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	50% Color		
	All Leaves Colored		
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	All Leaf Drop		

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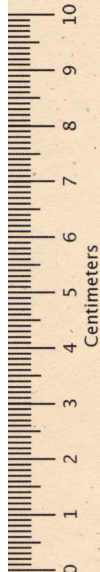
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								Check	Reached	Reached

Crayola Color: _____



Funded by a Warner College of Natural Resources Mini Grant, Phunky Phenology wants you to get outside and sniff a flower and jump in a pile of leaves!

Please return this book to:

Phunky Phenology
 c/o Kim Melville-Smith
 Natural Resources Ecology Laboratory
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 Colorado State University
 Fort Collins, CO 80523-1499

\$1.95

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