Plant Profiles: HORT 2242 Landscape Plants II BUDS

How to Identify a Pine, Spruce and Fir by Buds

Genera: Pinus (pine), Picea (spruce), Abies (fir)

Family Name: Pinaceae – pine family

Steps to take to determine pine, spruce or fir:

- 1. How many needles and how are they attached? This should be the first decision you make as it tells you what genus it could or absolutely could not be.
- 2. Cone features
 - a. Are the cones pendulous or upright?
 - b. How do the cones mature? Does it take two years for the cones to mature? Do they stay intact at maturity or do they disintegrate upon maturity?
- 3. Bud features Are there terminal and lateral buds? Only terminal buds? What do they look like?
- 4. Whole plant/Habit Is it pyramidal when young, but broadens with age (loses apical dominance)? Is the tree pyramidal throughout its lifespan? Notice size, shape, form and color as you approach the tree as these features will all help to confirm the identification of the plant.

NOTE: For complete information on all the steps listed please consult *Plant Profiles: Hort2242 Landscape Plants II - How to Identify Pine, Spruce and Fir.*

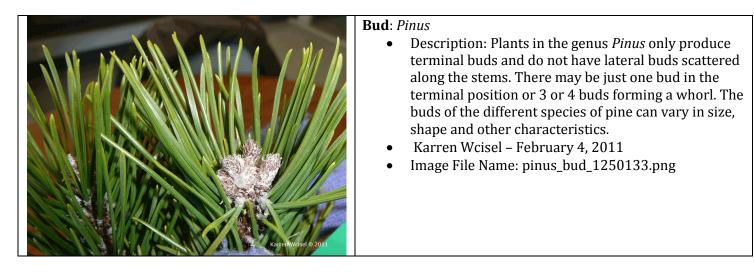
Resources Consulted:

Dirr, Michael A. Manual of Woody Landscape Plants: Their Identification, Ornamental Characteristics, Culture, Propagation and Uses. Champaign: Stipes, 2009. Print.

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Creation Date: 2014

Keywords/Tags: Pinaceae, tree, conifer, cone, needle, evergreen, Pinus, pine, Picea, spruce, Abies, fir



Vertical 0.2010	 Bud: <i>Pinus</i> Description: The arrow is pointing to a terminal bud on <i>Pinus</i>. In this example the structures below the terminal bud are male pollen cone buds that will open in spring, mature and disperse pollen. These pollen cones are different than the vegetative terminal buds in the prior example in location, number, look and function. Image Source: Karren Wcisel, TreeTopics.com Image Date: December 28, 2010 Image File Name: pinus_bud_1240417.png
Errer Wede 2 2011	 Bud: <i>Picea</i> Description: Plants in the genus <i>Picea</i> have terminal buds and lateral buds. The terminal buds are ovoid with imbricate scales that are often reflexed. The buds may or may not be resinous. Image Source: Karren Wcisel, TreeTopics.com Image Date: February 10, 2011 Image File Name: picea_bud_1250474.png
	 Bud: <i>Picea</i> Description: Notice the lateral buds of <i>Picea</i> scattered along the stems of the newest growth. Image Source: Karren Wcisel, TreeTopics.com Image Date: January 5, 2012 Image File Name: picea_bud_1340518.png

	 Bud: Abies Description: Plants in the genus Abies also have terminal and lateral buds. The terminal buds are ovoid in shape and often resinous. Image Source: Karren Wcisel, TreeTopics.com Image Date: November 11, 2010 Image File Name: abies_bud_1220836.png
Parten Wickel (2:2010	 Bud: Abies Description: Notice the lateral buds of Abies scattered along the stems of the newest growth. Image Source: Karren Wcisel, TreeTopics.com Image Date: November 11, 2010 Image File Name: abies_bud_1220838.png