

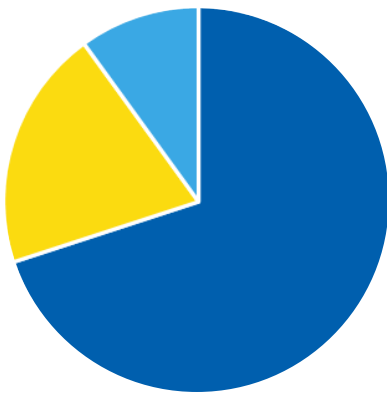
## Cover Crop Performance in the Sacramento Valley During a Wet Year

Sarah Light - UCCE Agronomy Advisor, Clair Akin - UCCE Cover Crop Selection Tool Coordinator, Peter Bowman - Graduate Fellow

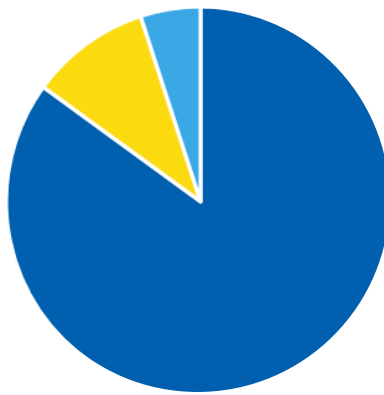
Single bed plots were drill seeded on October 24, 2022. Percent Cover (cover crop, weeds, bare soil) and height were collected on February 22, 2023. Photos were taken on the same day. Planting depth was not adjusted by species and seeding rate was dependent on seed size and planter seed plate. This was intended as a demonstration of species performance in the region. No irrigation was applied to plots. There were approximately 8.3 inches of precipitation from cover crop planting to data collection.

For mixes, the visual composition of the final cover crop stand is included in a second pie chart. The seed mix composition by weight is included in the treatment description. Not all cover crop plots are pictured.

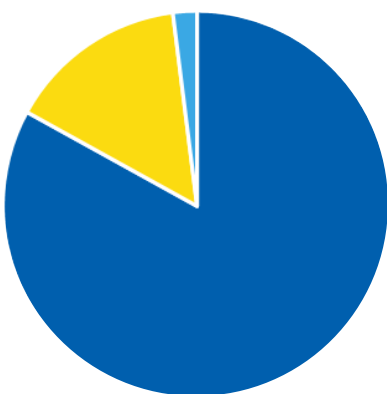
Spring Triticale  
Height: 22 inches



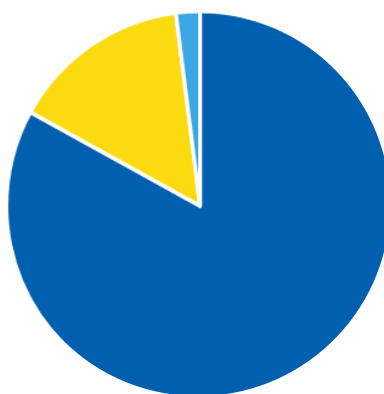
Winter Triticale  
Height: 14 inches



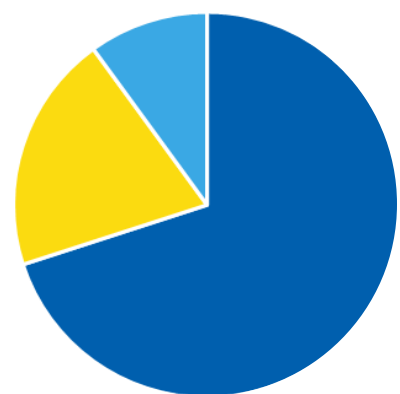
Bearded Barley  
Height: 19 inches



Beardless Wheat  
Height: 21 inches



Cayuse Oats  
Height: 23 inches

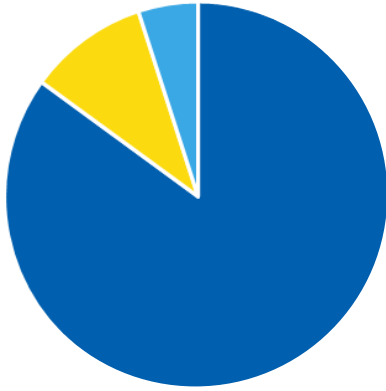


Key: Percent Cover Crop=dark blue, Percent Bare Soil=yellow, Percent Weeds=light blue

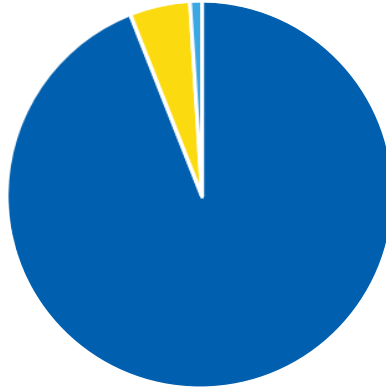
Daikon radish in field



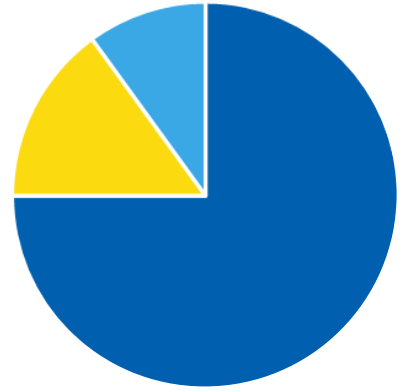
Purple Top Turnip  
Height: 18 inches



Daikon Radish  
Height: 27 inches



Black Mustard  
Height: 20 inches



Common vetch in field

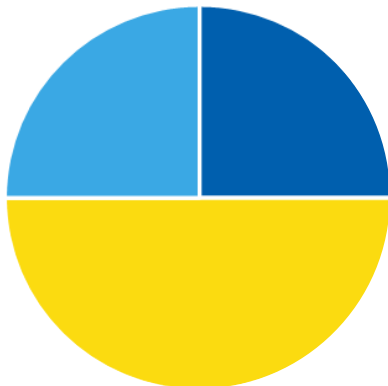


Purple vetch in field

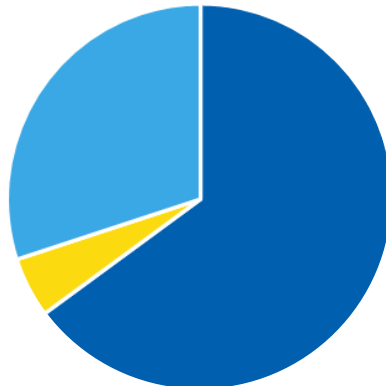


Lana Woolypod vetch in field

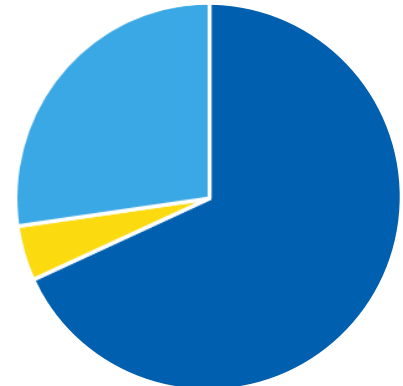
Common Vetch  
Height: 5 inches



Purple Vetch  
Height: 6 inches



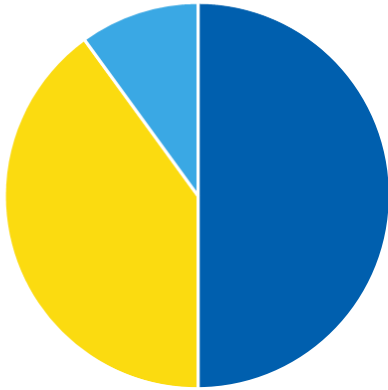
Lana Woolypod Vetch  
Height: 8 inches



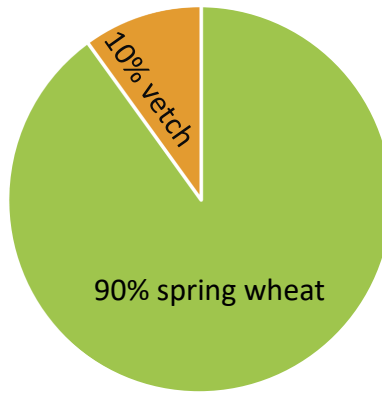
**Key: Percent Cover Crop=dark blue, Percent Bare Soil=yellow, Percent Weeds=light blue**



70% Spring Wheat, 30% Common Vetch  
Height: 19 inches

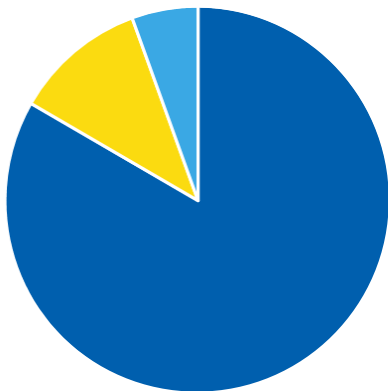


Final Cover Crop Composition

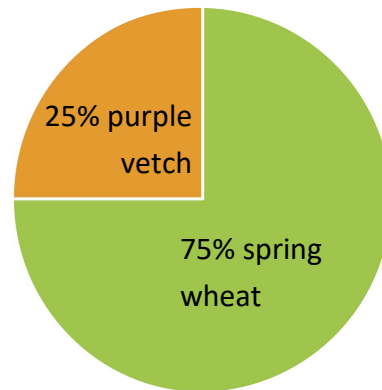


Spring wheat/common vetch mix

70% Spring Wheat, 30% Purple Vetch  
Height: 20 inches

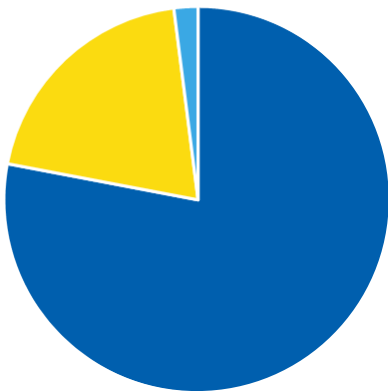


Final Cover Crop Composition

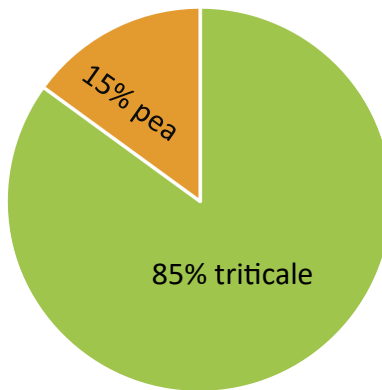


Spring wheat/purple vetch mix

70% Spring Triticale, 30% Spring Pea  
Height: 14 inches

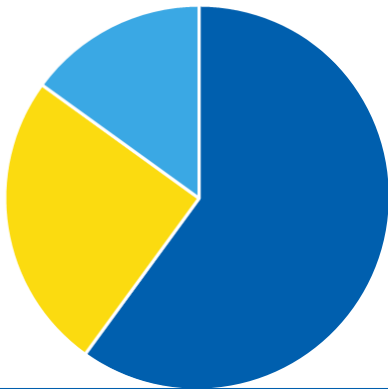


Final Cover Crop Composition

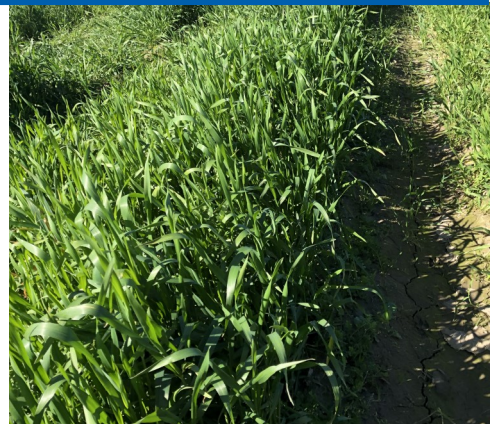
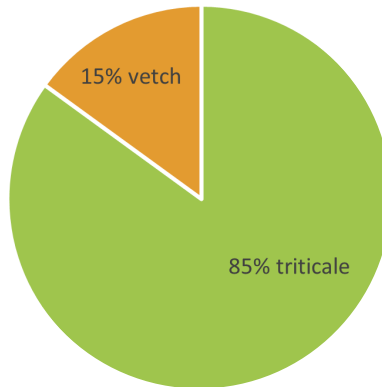


Spring triticale/spring pea mix

70% Spring Triticale, 30% Common Vetch  
Height: 17 inches



Final Cover Crop Composition

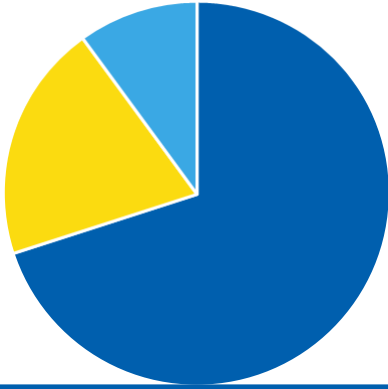


Spring triticale/common vetch mix

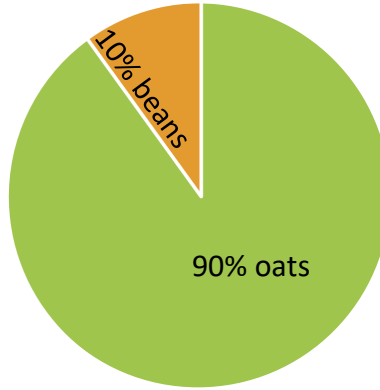
**Key: Percent Cover Crop=dark blue, Percent Bare Soil=yellow, Percent Weeds=light blue**



50% Common Oats, 50% Bell Beans  
Height: 21 inches

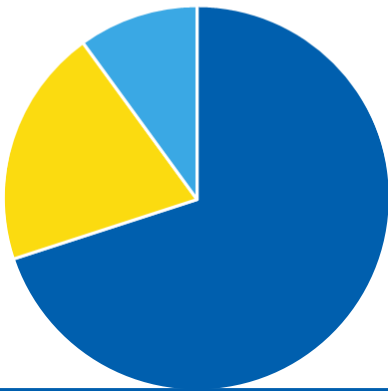


Final Cover Crop Composition

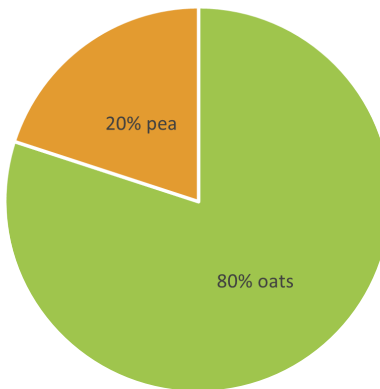


Common oats and bell bean mix

70% Common Oats 30% Spring Pea  
Height: 22 inches

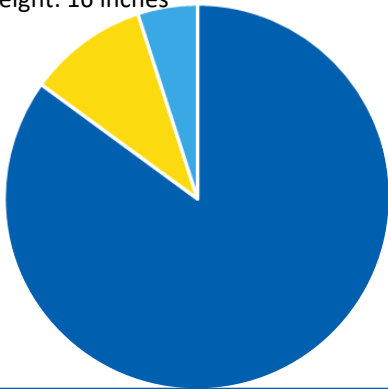


Final Cover Crop Composition

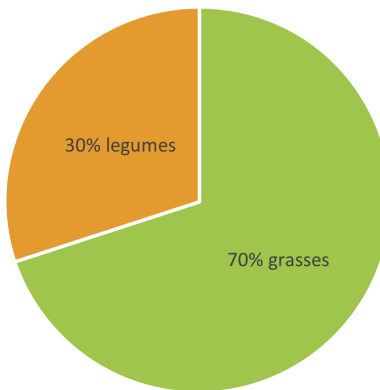


Legume-grain mix

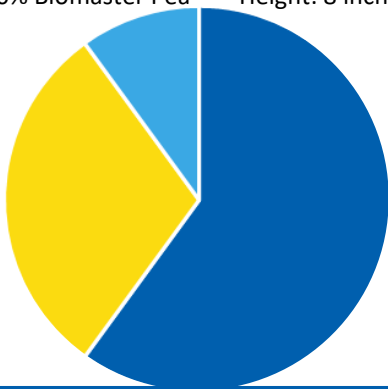
16% Woolypod Vetch, 16% Biomaster Pea,  
18% Bell Beans, 25% Oats, 25% Winter Rye  
Height: 16 inches



Final Cover Crop Composition

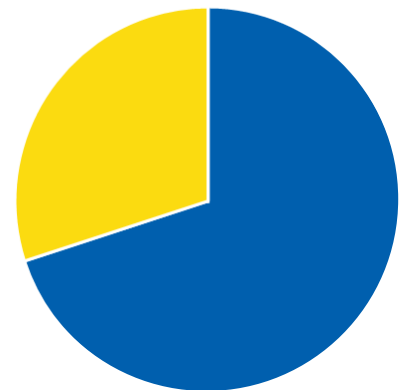


20% Bell Bean, 20% Winter Pea, 20%  
Purple Vetch, 20% Woolypod Vetch,  
20% Biomaster Pea Height: 8 inches



Legume mix in field

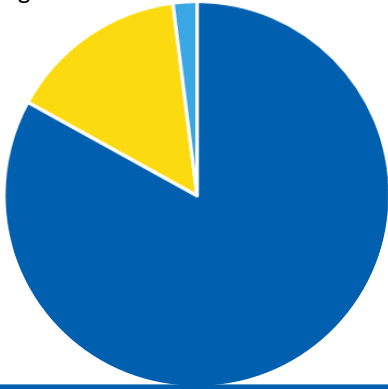
50% Oats, 25% Rye, 25% Triticale  
Height: 26 inches



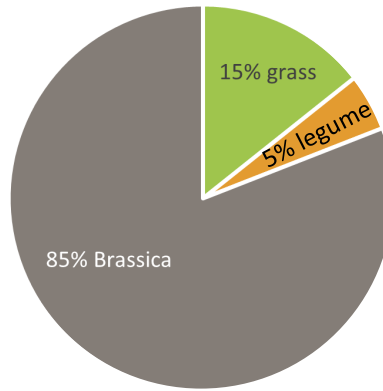
Key: Percent Cover Crop=dark blue, Percent Bare Soil=yellow, Percent Weeds=light blue



5% Black Mustard, 10% Common Vetch, 35% Triticale, 45% Fava Bean  
Height: 17 inches

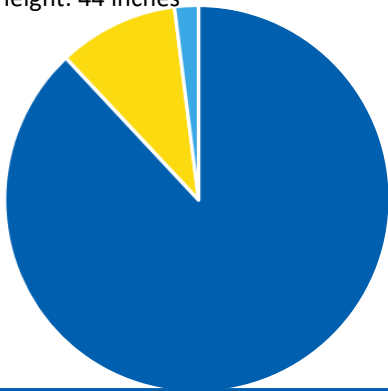


Final Cover Crop Composition

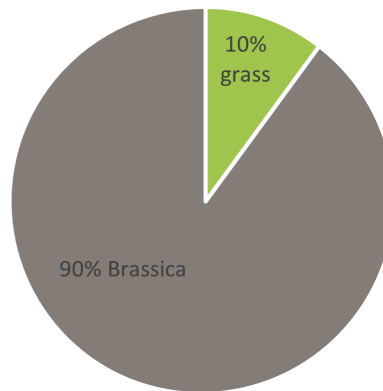


Radish/black mustard/common vetch/triticale/fava bean mix

40% Spring Peas, 35% Triticale, 15% Purple Vetch, 5% White Mustard, 5% Radish  
Height: 44 inches

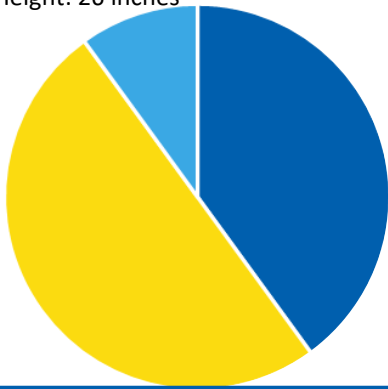


Final Cover Crop Composition



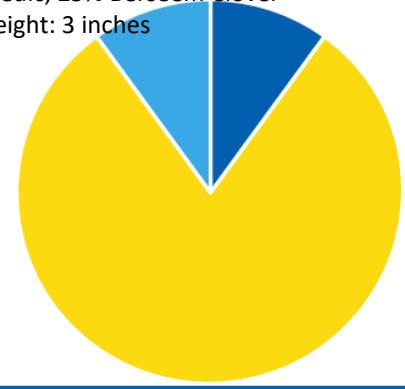
Spring pea/triticale/purple vetch/white mustard/radish mix

30% Triticale, 35% Bell Beans, 28% Peas, 1% Canola, 3% Mustard, 3% Daikon Radish  
Height: 26 inches

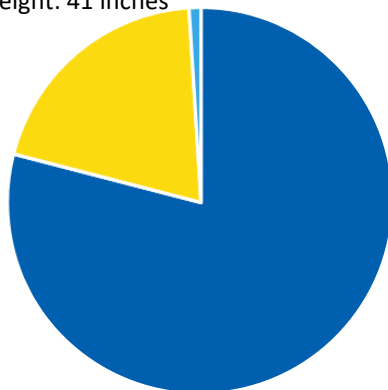


Project Apis M. Soil Builder mix (triticale, bell bean, pea, canola, yellow mustard, daikon radish)

17% Balansa Clover, 25% Persian Clover, 8% Rose Clover, 10% Crimson Clover, 15% Medic, 25% Berseem Clover  
Height: 3 inches



40% Bell Beans, 50% Triticale, 5% Mustard, 5% Black Mustard  
Height: 41 inches



Bell bean/triticale/mustard/black mustard mix

Key: Percent Cover Crop=dark blue, Percent Bare Soil=yellow, Percent Weeds=light blue