



Questions? Contact: Rory Crowley (530) 781-4994 Or visit ProjectApism.org/seeds-for-bees



Source: Kamprath Seed, Inc

PAm Annual Clover Mix

17% Balansa Clover, *Trifolium michelianum*
25% Persian Clover, *Trifolium resupinatum*
8% 'Hykon' Rose Clover, *Trifolium hirtum*
10% Crimson Clover, *Trifolium incarnatum*
15% Medic, *Medicago truncatula*
25% Berseem Clover, *Trifolium alexandrinum*

Note: Clover seed is coated and pre-inoculated. Seeds are not treated with fungicides or insecticides.

Seed Rate:

25 lbs/acre for broadcast planting
20 lbs/acre for drill planting

Ground Preparation: Ideal conditions for germination is seed planted at a depth no greater than 1/2 inch in continually moist soil. The best method for planting is direct seeding with drill equipment. Most soil conditions are conducive for drill planting without ground prep. Very heavy/clay soils may need to be worked up if drill is struggling to penetrate the soil surface. If broadcast seeding is the only option then a fine seed bed is desirable since most of the seeds are very small (like alfalfa). If broadcasting into loose/sandy soil skipping ground prep may be acceptable. If working with heavy/clay soils first use a shallow (3-5 inches) disk or spring-tooth harrow to work up the soil, then plant seed with a broadcaster, then cultipack with a ring roller, which covers the seed by pushing it into the ground. Dragging a piece of chain-link fence behind an ATV or tractor can also be sufficient. Dragging a piece of chain-link fence behind an ATV or tractor can also be sufficient. The seed should be covered so it can remain moist. Clovers grow slower than mustards so an application of grass specific herbicide may benefit this mix from competition with grasses.

Planting Methods: Use a grain drill, no till drill, broadcaster, or even a hand-held broadcaster on small areas to evenly distribute the seed.

Timing: After Sept. 10 through Nov. 10, while soil is still warm (above 55°). However, earlier plantings of seed receive more seasonal rain thus reducing irrigation requirements. Plant in-between tree rows, fence lines, fallow areas where trees are taken out of production, and in orchard margins or borders.

Emergence/Visible: 14 days with enough moisture, will grow slow through the winter.

Bloom: March-June or later depending on rainfall patterns.

Management: To provide the longest bloom possible, and increase the success of reseeding, leave cover crop intact into May and June so it will develop mature seed. Thereafter, the stand can be mowed, disked and terminated. To encourage reseeding, do not chip or disk but roll. Push seeds into ground.