

## Effects of Dynasty and Rancona Seed Treatments and In Furrow Sprays on Peanut Plant Stands, Diseases and Pod Yield.

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Peanut seed treatments were compared in field trials in 2019 and 2020 for their effects on seedling diseases, plant stands, and pod yield. The treatments evaluated were Rancona V PD and Dynasty PD, both applied as a wettable powder formulation to Tifguard seed at 4 oz per 100 lb of seed. The in-furrow treatments were Abound (6.0 fl oz/A), Velum Total (18.0 fl oz/A), Proline (5.7 fl oz), or nontreated. The seeding rate was 6 seed/ft. Lower germination seed lots (about 80% germination) were selected and the field sites were previously planted to peanut to increase seedling disease pressure in the trial. With no in furrow spray, the untreated, Rancona and Dynasty treatments had 0.9, 4.1 and 3.8 plants per foot (LSD=0.5) in 2019, and 0.6, 3.0 and 2.4 plants per foot (LSD=0.5) in 2020, respectively. Severe *Aspergillus* crown rot developed by early June of both years with 44, 1 and 9% of the emerged plants killed in the nontreated, Rancona and Dynasty plots, respectively in 2019, and 46, 1, and 4% killed in 2020. Pod yields were about 2000 lb/A both years with nontreated seed, and increased by greater than 100% with both seed treatments. Yields were not significantly different between the two seed treatments. Velum Total was the only in furrow treatment to increase both plant stands and yield with nontreated seed. Pod yields were higher by 2746 and 2432 lb/A in 2019 and 2020, respectively, where Velum Total was applied. Both Velum Total and Proline were highly effective on *Aspergillus* crown rot, whereas Abound had no effect. This was presumably due to the presence of QoI-resistant *Aspergillus niger*. The effects of Proline and Abound on plant stands and yield when applied to fungicide-treated seed were inconsistent, but they were significantly higher than the seed treatments alone in some cases.