

Storm Damage Estimation



FIGURE 1



FIGURE 2



FIGURE 3



FIGURE 4



FIGURE 5

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PHOTOGRAPHS: Courtesy of H.F. Schwartz [03/2011]

LEGUME TYPE: Common Bean, Lima Bean, Tepary Bean, Scarlet Runner Bean, Cowpea, Soybean, Chickpea, Lentil.

Protocols based on National Crop Insurance Standards; compare and document damaged and non-damaged portions of field or fields of the same variety, plant age

_____ Record variety, row width, emerged density in row

_____ Record stage of plant growth (VE to RH)

_____ Record dates of planting, storm event(s), evaluation

_____ Plant Stand (number/acre)

Measure number of plants remaining (Fig. 1) in 1 bed by 20 ft = 1/1000 Acre at 5 representative sites in the affected area of the field; subtract number remaining from emerged plants to estimate % plant loss.

_____ **FOLIAGE, STEMS & BRANCHES (PERCENT LOSS)**

Estimate percent of foliage (Fig. 2), stems and branches (Fig. 3) damaged (torn) or removed by the storm activity in 1 bed by 20 ft at 5 representative sites.

_____ **PODS & SEEDS (PERCENT AFFECTED)**

Evaluate percent of pods for evidence of storm damage (as cuts, nicks, dents, bruises) on exposed outer pod walls (Fig. 4) and discolored or shriveled seeds on 10 to 25 plants at 5 representative sites (Fig. 5)

ADDITIONAL DIAGNOSTICS AVAILABLE AT:

<http://legume.ipmpipe.org>

<http://wiki.bugwood.org/PIPE:Legume>

<http://www.apsnet.org/> —

Compendium of Bean Diseases, 2nd Ed.