Note about Data

These data were used in the analyses and charts of the peer-reviewed research article "**Spatial Scale of Non-Target Effects of Cotton Insecticides**". The goal of the research was to estimate the optimal plot size for non-target arthropod studies in the Arizona cotton system. We made available all the data required to replicate all study findings and charts reported in the article.

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Description of Data Files

File name: "Arthropod counts per 100 sweeps.xlsx"

This data file contains the arthropod counts which were collected from sweeps net samples. These are arthropod counts per 100 sweeps. It includes the abundance of key *Bemisia argentifolii* predators, Lygus hesperus, other predators and several arthropods.

File name: "Bemisia argentifolii counts per leaf or leaf disc.xlsx"

This data file contains the number of *Bemisia argentifolii* eggs and nymphs per cotton leaf disc, and the number of *Bemisia argentifolii* adults per cotton leaf.

File name: "Sentinel Prey_Nymph and Egg cohorts of Bemisia argentifolii.xlsx"

This file has the numerical values associated with the sources of mortality of sentinel prey (*B. argentifolii* eggs and nymphs) as well as the associated marginal mortality rates.

Definitions of Terminology

Please, note that "UTC" means "untreated check",

Please, note that "Orthene97 16.5oz" is the insecticide "acephate".

Please, note that "Sivanto 14oz" is the insecticide "flupyradifurone".

Please, note that the "small", "medium" and "large" plot sizes are 144 m^2, 324 m^2 and 576 m^2, respectively.

Software used for Data Analyses

JMP® Pro 14.2, SAS Institute Inc., Cary, NC.

CANOCO v5 (Microcomputer Power, Ithaca, NY, USA).