

PREDICTIONS

The presence
of honey bee
apiaries
matters.

There is
temporal
variation in
disease

Transmission
occurs
through
shared floral
resources

PRELIMINARY DATA

EXPERIMENT

PARAMETERS

Apiary
Density/Proximity

Honey Bee
Pathogen Load

Pathogen Load
Through Time

Bee Diversity and
Abundance

Floral Diversity
and Density

Acquisition
Probability

Deposition
Probability

Virus
Survivability

MODELING

LANDSCAPE

PATCH

MAPPING

GIS LAND-
COVER
DATA

RISK MAP