## California Bee-Ware: A Cry from to LA sangeland /CA

From 2001-2011, California 105+ 784mi2 of pollinator habitats. Urbanization and pesticide use are accelerating at an un precedented rate while destroying habitats. By 2040, the total loss of habitat in ralifornia will total 1/8 of the entire state's area!

(alifornia is the most productive agricultural state in America. It produces Over 1/3 OF American regetables and 213 American fluit and nots.

"(rying bee. evokes empathy spagies 13 Fruit 213

Pollinators

Image showing massive setup of beekeeper pollinator services -NYT

Particularly, almond farming demands the most beekeeping sorvices compared to all crops combined. one of the largest costs of California farmers comes from the purchasing of artificial bees. In order to sustain their place as the #I agricultural state, california relies on unratural beekeeping

Average Pollination Fee 180+ 160 -

2008

1995

But why are unmitural bees needed? why can't native bees do the job?

2010

refine population has declined 40% 8= 100 m 8 in the past decades colony collapse B Disorder (CCD) explains this drop. CCD B is when worker bees abandon S درك W 63 69 healthy hives which leaves the queen, nurge bees, and baby bees helpless Λb 2018 to die without nectal and pollen. \$ 99° 1990 As a result, more than 2/3 of (L) (L) America's kommybees are human managled and come from out of the state operations. As honey bees from managed keepers flock the fields, competition between Extinct & Endangeled native and non-native bees increases. Three species of native boos have went extinct with another boing endangered. bees pesticide use Colony Collapse disorder is a result of expessive inserticide use and habitat loss. The use of inspecticides has skylacketed in the past 20 years as well as the Loosystem conversion of natural land to urban areus or monocultures. Monocultures, agriculture sprvices is compant throughout colifornia. Morocultures - water regulation -pollution controll are urbanization replace luch ecosystems with low bibliversity, unsustainable land -dinate resilience

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bespite these alarming slop in bees,
huge agribusiness companies have
attemped to thwart movements against
pesticides. The European Union
burned atemicals associated with (CD,
yet the title to the Moleover,
the USDA has suspended blastically cut
back on bee resource startism both on.
Man while, urbanization and activature continue
to convert natural land into reveloped land
were followinesses use of monoculture continues
to lise with (lop liversity falling.
However, monocultures exhaselbate the use of pesticides

MA monoculture is like a buffet for Plant-Ating insects." -UCDAVIS

Instead of monocultures, clop variation should be promoted. Above all, natural strips of land should be implemented. These patches act as a natural pert control which simutaneously improves the native bee populations health.

-Amount of biodic

-Amount of biodiversity patches support compared to areas without

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on mondify

Monoralture

Bivariate churspleth
by Huc submatershed

- Acres of pollinated crops without habitat

- Percent of small patches of natural
carea excluding agriculture