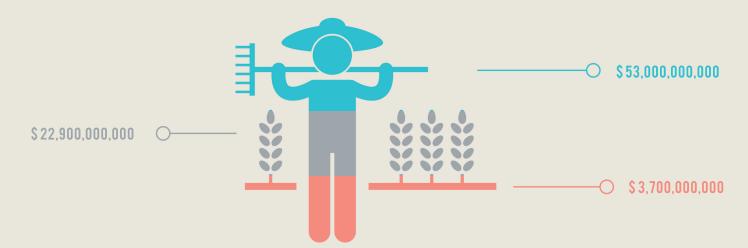


ECOSYSTEM SERVICES PROVIDED BY INSECTIVOROUS BATS TO THE US AGRICULTURAL INDUSTRY AVERAGE 22.9 BILLIONUS\$ (RANGE 3.7-53 BILLION) ANNUALLY





CHIROSURVEILLANCE MAY BECOME A STANDARD STRATEGY FOR INTEGRATED PEST MANAGEMENT - BIG Brown Bats seasonally consume invasive brown marmorated stink bugs, detecting the Insects 3-4 weeks earlier than existing monitoring tools



LARVAE OF THE GENUS DIABROTICA ARE THE CORN ROOT WORMS, PROBABLY THE SINGLE MOST IMPORTANT AGRICULTURAL PEST IN THE US - THE ADULT BEETLES ATTACK CORN, SPINACH AND VARIOUS CUCURBIT VINES

\$1,000,000,000

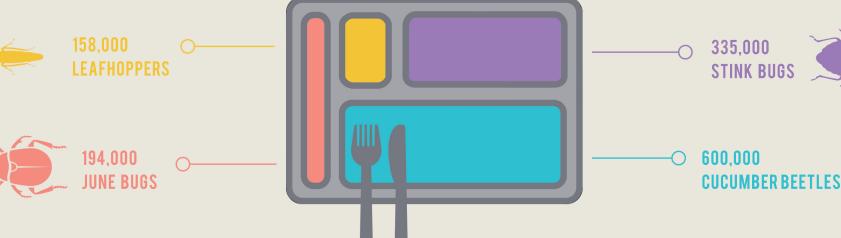
GLOBALLY, BATS BOLSTER THE QUALITY AND QUANTITY
OF CORN VIA A TROPHIC CASCADE, SUPPRESSING
DAMAGE TO ECONOMICALLY VALUABLE ROW CROPS
DURING BOTH REPRODUCTIVE AND VEGETATIVE STAGES



SCIENTISTS VALUE THE SUPPRESSION OF HERBIVORY ON CORN ALONE MAY BE MORE THAN 1 BILLION USD GLOBALLY, AND BATS FURTHER BENEFIT FARMERS BY INDIRECTLY LIMITING PEST-ASSOCIATED FUNGUS AND MYCOTOXINS

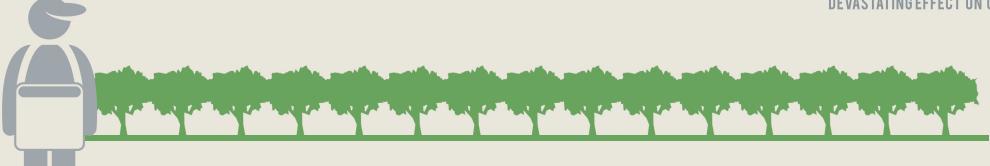
BIG BROWN BAT COLONIES CO

MILLIONS OF MEXICAN FREE-TAILED BATS
ASCEND TO HIGH ALTITUDES TO EXPLOIT THE
SEASONAL MIGRATIONS OF BILLIONS OF
MOTHS, INCLUDING CORN EARWORMS AND
FALL ARMYWORMS FROM CROPS IN THE
LOWER RIO GRANDE VALLEY OF NORTHERN
MEXICO AND SOUTHERN TEXAS



BIG BROWN BAT COLONIES CONSUME NUMEROUS AGRICULTURAL PESTS EVERY GROWING SEASON

CONSUMPTION OF LARGE NUMBERS OF ADULT CUCUMBER BEETLES PROTECTS AMERICAN FARMERS FROM ~ 33 MILLION LARVAE, WHICH COULD HAVE A DEVASTATING EFFECT ON CULTIVATED CUCUMBER AND CAUSE MILLION US\$ LOSSES



MEXICAN FREE-TAILED BATS CONSUME ENOUGH CODLING MOTHS TO SAVE MORE THAN \$17,000 IN CROP LOSS AT AN AVERAGE-SIZED WALNUT ORCHARD.

\$1,700,000

ESTIMATED VALUE OF ANNUAL PEST CONTROL SERVICES TO WINTER GARDEN, TEXAS COTTON GROWERS