PPMA's Al Research Findings November 2020

Spiders

- Engagement around the topic of spiders decreased 1% from October 2020 to November 2020, representing the smallest decrease out of any other core pest during that time.
 - Despite this national decrease, multiple states saw large increases in engagement, including Arkansas and Kansas at <u>98%</u> and <u>64%</u>, respectively.

Engagement around spiders

For entire US

Month	Engagement
November 2020	1% Decrease

Spiders had the smallest decrease this month.

State	% increase in engagement from October
Arkansas	98%
Kansas	64%
Illinois	59%
Wisconsin	51%
Georgia	16%
Pennsylvania	12%
California	5%

Bed Bugs

- Engagement around the topic of bed bugs decreased 3% from October 2020 to November 2020, representing the secondsmallest decrease out of any other core pest during that time.
 - Despite this national decrease, multiple states saw large increases in engagement, including Oregon and New York at 100% and 91%, respectively.

Engagement around bed bugs

	For entire US
Month	Engagement
November 2020	3% Decrease
Bed bugs had the	

Bed bugs had the 2nd smallest decrease this month.

State	% increase in engagement from October
Oregon	100%
New York	91%
Ohio	56%
Washington	52%
Texas	35%
Nevada	29%

Mosquitoes

- Engagement around the topic of mosquitoes decreased <u>6%</u> from October 2020 to November 2020, representing the thirdsmallest decrease out of any other core pest during that time.
 - Despite this national decrease, multiple states saw increases in engagement, including Arkansas and Illinois at 25% and 8%, respectively.

Engagement around mosquitoes

For entire US

Month	Engagement
November 2020	6% Decrease

Mosquitoes had the 3rd smallest decrease this month.

State	% increase in engagement from October
Arkansas	25%
Illinois	8%
Louisiana	3%
California	2%
Maryland	2%
Texas	2%
Florida	1%

Most Problematic Pests by % of November Engagement

These are the pests that had the highest engagement in November overall

Pest	November Engagement
Rodents	1,202,502
Raccoons	711,743
Millipedes	494,210
Earwigs	291,120

Health & Home Concerns

These pests were of most concern in November as they relate to potential health and home threats.

Pest	November Engagement
Rats	266,202
Mosquitoes	125,269
Bats	116,201

Most Problematic Pests Since October 2020

These are the pests that have had the highest increases in engagement since October. This <u>does</u> <u>not</u> take into consideration the pest's <u>overall</u> engagement for the month of November.

Pest	% increase from October
Rodents	29.7%
Raccoons	21.9%
Millipedes	13.6%
Earwigs	5.6%
Possums	4.2%
Crickets	4.0%

Where are people seeing Rats, Mice and Rodents?

Location	% increase from October
Attic	23.6%
Garage / Shed	15.4%
Living Room	11.7%
Bedroom	9.8%
Backyard	6.1%
Car	3.8%
Basement	2.7%
Kitchen	-23.2%
Bathroom	-30.7%

Topic Discovery: Spiders

Торіс	Insight
Behavior Changes	• Individuals online are showing a 1% increase in spider bites in 2020 compared to 2019.
Key Locations	 As people remain in their homes, spiders are being forced away from areas that were typically not used by people. Sightings of spiders in backyards, garages/sheds and basements have increased by 91%,44% and 32%, respectively. Engagement on sightings has also increased in the living room and kitchen throughout this time, albeit minimally.
Reporting Demographics	 In both 2019 and 2020, those between the ages of 25-34 and 55+ were proportionately the most engaged age groups. In 2019, women were more engaged than men by 6%, but in 2020, that number flipped with men now more engaged than women by 2%. In 2019, women between the ages of 18-35 were most likely to discuss their spider sightings online, but in 2020, that age demographic shifted to those between the ages of 25-34 and 65+. States with the most proportional engagement on spiders in general in 2020 were Washington, New Hampshire and Kansas. The states with the most overall engagement in 2020 were California, Texas and New York.