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## Bee Informed Partnership Sentinel Apiary Report

Beekeeper: Year: 2019  
Sample Kit Code: SATD

Report date: 10/12/20

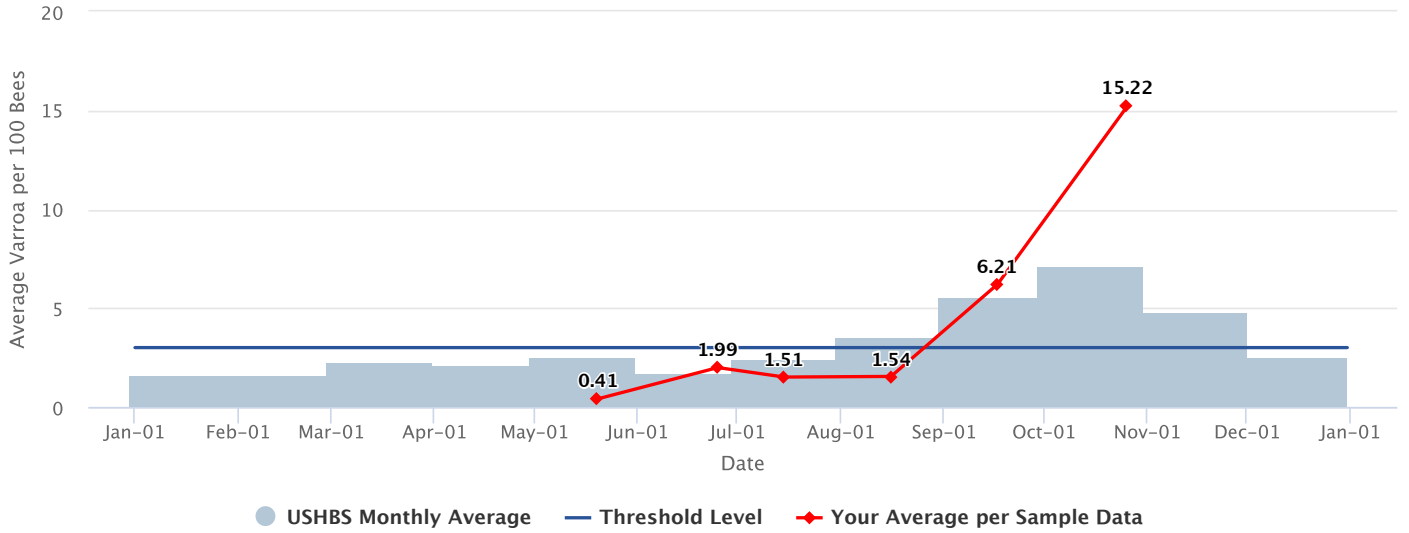
Varroa (mites per 100 bees)						
Hive	May	June	July	August	September	October
S19-SATD-1	0.0	2.8	3.0	1.9	2.1	25.8
S19-SATD-2	0.8	1.2	0.0	1.2	10.3	4.6
Your Monthly Average	0.41 ±5.21 (2)	1.99 ±9.79 (2)	1.51 ±19.19 (2)	1.54 ±4.84 (2)	6.21 ±51.81 (2)	15.22 ±134.73 (2)
USHBS Average	2.53 ±0.26 (599)	1.7 ±0.13 (1144)	2.41 ±0.2 (932)	3.49 ±0.21 (1197)	5.49 ±0.34 (1259)	7.12 ±0.44 (1036)
Sentinel Average	1.04 ±0.23 (379)	1.45 ±0.26 (389)	2.82 ±0.5 (398)	3.35 ±0.57 (380)	5.95 ±1.07 (344)	6.67 ±1.09 (317)
Sentinel Last Year Average	0.99 ±0.22 (458)	1.18 ±0.32 (502)	1.99 ±0.33 (495)	2.75 ±0.41 (475)	2.73 ±0.4 (420)	4.45 ±0.61 (365)

- Data presented: average ± 95% Confidence Interval (# of samples)
- The ± 95% Confidence Interval represents the range of expected values for 95% of the data. Observations outside this range may have occurred, but we consider those outliers and not representative of the majority of the data.
- Sentinel Average, Last Year includes Sentinel data starting in June 2013.
- APHIS Honey Bee Disease Survey is a national effort sponsored by USDA Animal and Plant Health Inspection Service (APHIS) in collaboration with the Agricultural Research Service (ARS) and University of Maryland (UMD). To date, the data provided for the APHIS monthly average is a composite of data from 2009 - Present.
- We consider  $\Rightarrow$  5 mites per 100 bees (highlighted in red) as approaching a high threshold at or beyond where you may want to consider some varroa mite control strategy.
- If you collected two sets of samples within the same calendar month, they are reported in the two separate closest months in this table. Example, samples collected on May 30th may show up in the June column if you already have samples collected earlier in May.

Nosema (millions of spores per bee)						
Hive	May	June	July	August	September	October
S19-SATD-1	0.0	0.0	0.1	0.0	0.0	0.0
S19-SATD-2	0.0	0.1	0.0	0.0	0.0	0.0
Your Monthly Average	0.0 ±0.0 (2)	0.03 ±0.32 (2)	0.03 ±0.32 (2)	0.0 ±0.0 (2)	0.0 ±0.0 (2)	0.0 ±0.0 (2)
USHBS Average	2.53 ±0.26 (599)	1.7 ±0.13 (1144)	2.41 ±0.2 (932)	3.49 ±0.21 (1197)	5.49 ±0.34 (1259)	7.12 ±0.44 (1036)
Sentinel Average	1.21 ±0.23 (379)	0.45 ±0.11 (389)	0.19 ±0.05 (398)	0.23 ±0.1 (380)	0.18 ±0.07 (340)	0.18 ±0.07 (317)
Sentinel Last Year Average	1.05 ±0.17 (459)	0.49 ±0.11 (502)	0.12 ±0.05 (495)	0.14 ±0.05 (471)	0.29 ±0.14 (421)	0.22 ±0.06 (365)

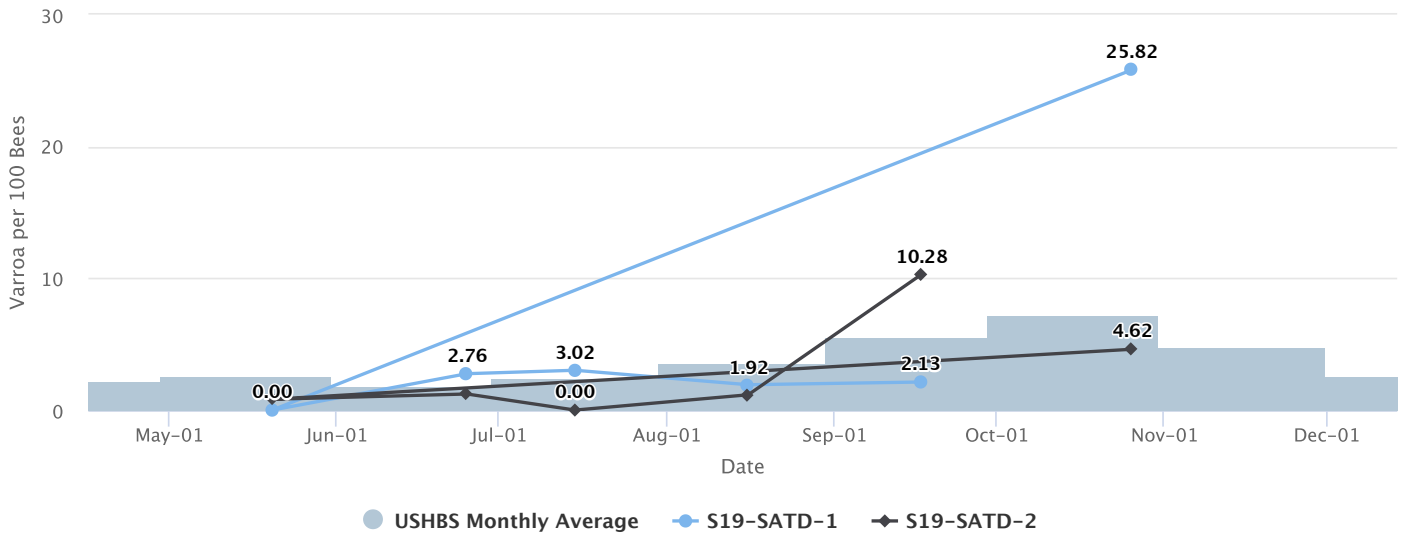
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- We consider => one million spores per bee (highlighted in red) to be the acceptable threshold in a hive. Your nosema levels will fluctuate with temperature and colonies' sun exposure every month.

### Average Varroa per 100 Bees in 2019 for Your Samples Compared to the National Average



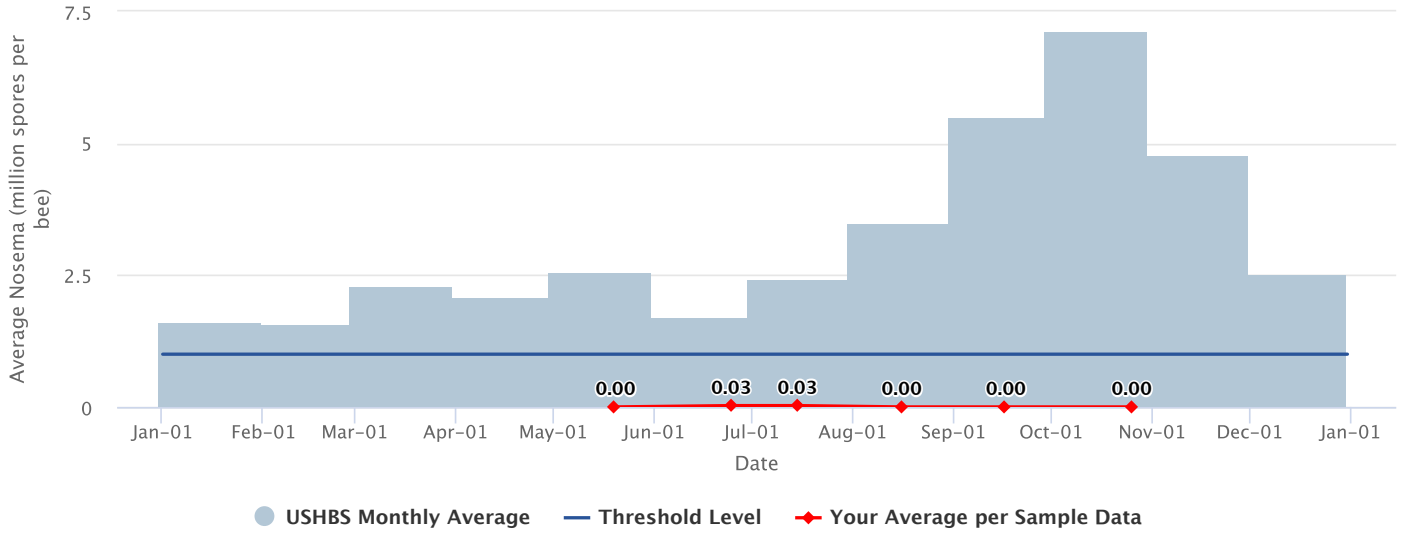
Highcharts.com

### Varroa per 100 Bees per Colony in 2019 for Your Samples Compared to the National Average



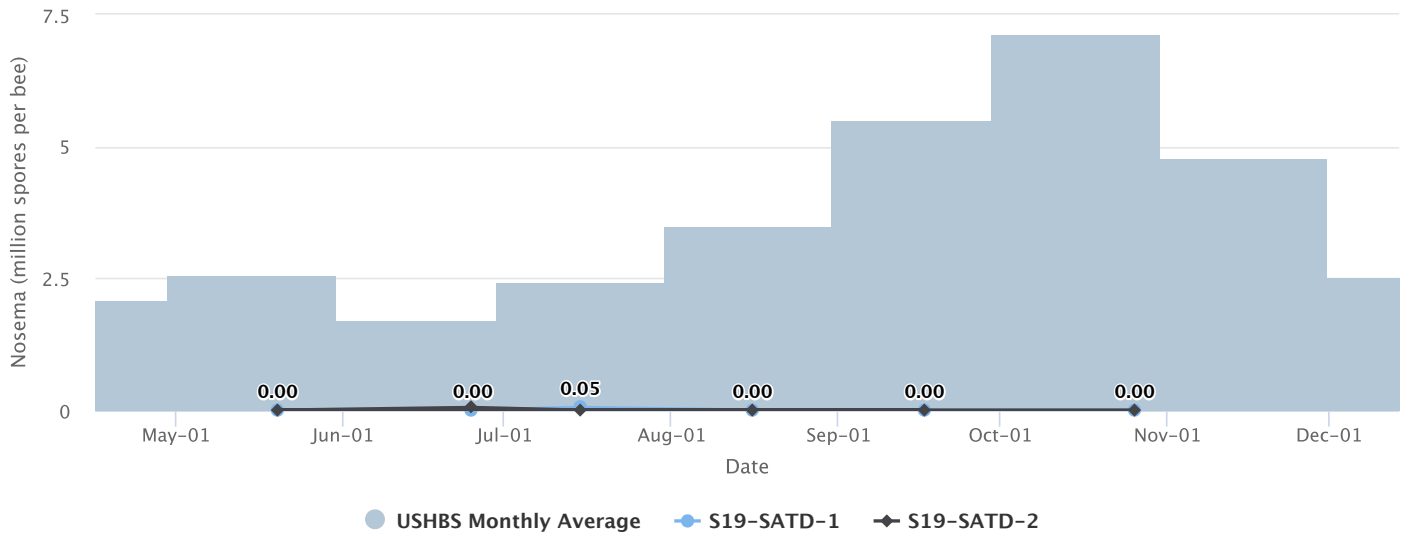
Highcharts.com

### Average Nosema in Million Spores per Bee in 2019 for Your Samples Compared to the National Average



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### Nosema in Million Spores per Bee per Colony in 2019 for Your Samples Compared to the National Average



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All Samples for year

Hive	Sampling Date	Queen Status	Brood Pattern	Frames of Adults	Particular Observation	Recent Management	# Bees in Sample	# Mites / 100 Bees	Millions of Spores per Bee
S19-SATD-1	May 20, 2019	QR	3.0	3.2	removed 1 super honey, removed 4 frames honey	feeding management	101	0.0	0.00
S19-SATD-2	May 20, 2019	QR	4.0		swarmed last month, minimum food stores	feeding management	121	0.8	0.00
S19-SATD-1	June 25, 2019	QR	4.0				108	2.8	0.00
S19-SATD-2	June 25, 2019	QR	5.0				82	1.2	0.05
S19-SATD-1	July 15, 2019	QR	5.0		treated after sampling	treatment management	132	3.0	0.05
S19-SATD-2	July 15, 2019	QR	2.0		treated after sampling	treatment management	73	0.0	0.00
S19-SATD-1	Aug. 16, 2019	QR	4.0	7.0		treatment	104	1.9	0.00
S19-SATD-2	Aug. 16, 2019	QR	3.0	6.0	Aggressive	treatment	172	1.2	0.00
S19-SATD-1	Sept. 17, 2019	QR		12.0		treatment	94	2.1	0.00
S19-SATD-2	Sept. 17, 2019	QR		14.0		treatment	184	10.3	0.00
S19-SATD-1	Oct. 26, 2019	QNS	5.0	9.0	Full deep of honey+several frames	management	123	25.8	0.00
S19-SATD-2	Oct. 26, 2019	QNS	3.0	7.0	Full deep of honey	management	65	4.6	0.00

- Hive # highlighted in blue indicates hive scale installed. Yellow indicates pollen trap installed.