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## Bee Informed Partnership Sentinel Apiary Report

Beekeeper: Year: 2020  
Sample Kit Code: SAVC

Report date: 10/12/20

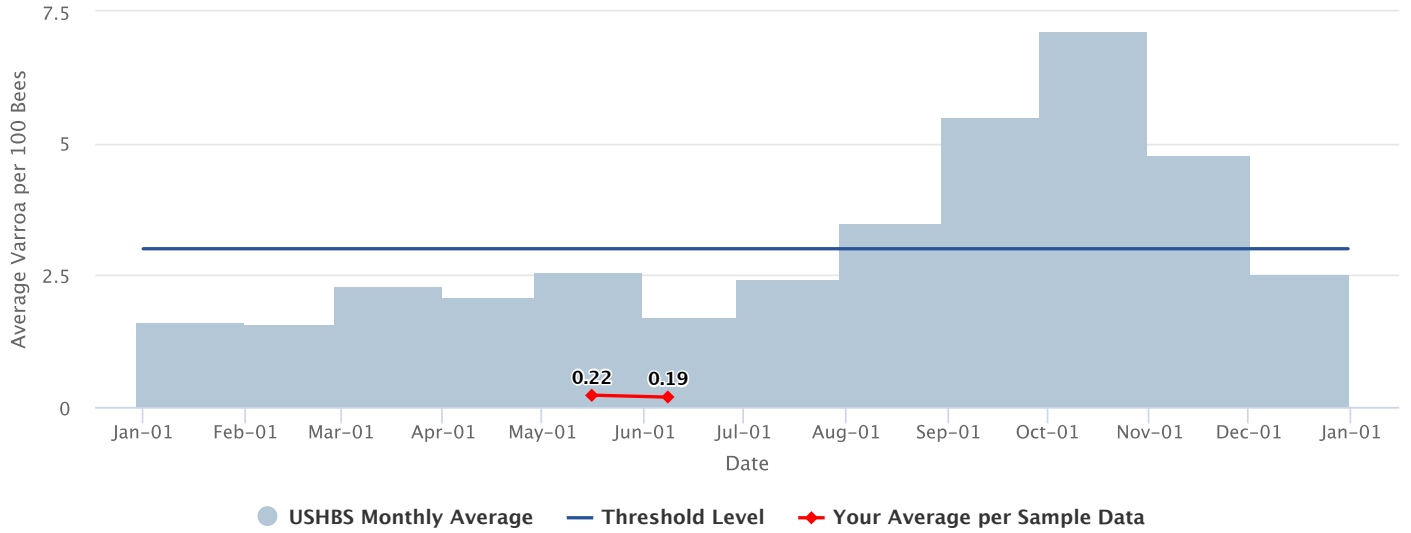
Varroa (mites per 100 bees)						
Hive	May	June	July	August	September	October
S20-SAVC-1	0.0	0.3				
S20-SAVC-2	0.0	0.0				
S20-SAVC-3	0.0	0.3				
S20-SAVC-4	0.0	0.3				
S20-SAVC-5	0.6	0.0				
S20-SAVC-6	0.3	0.0				
S20-SAVC-7	0.4	0.6				
S20-SAVC-8	0.6	0.0				
Your Monthly Average	0.22 ±0.21 (8)	0.19 ±0.19 (8)	0 ±0 (0)	0 ±0 (0)	0 ±0 (0)	0 ±0 (0)
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	1.43 ±0.28 (341)	1.72 ±0.3 (363)	2.4 ±0.49 (327)	2.53 ±0.46 (310)	3.8 ±1.37 (95)	0 ±0 (0)
Sentinel Last Year 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)

- 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 => 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
S20-SAVC-1	0.1	0.0				
S20-SAVC-2	0.0	0.0				
S20-SAVC-3	0.0	0.1				
S20-SAVC-4	0.1	0.0				
S20-SAVC-5	0.0	0.1				
S20-SAVC-6	0.0	0.0				
S20-SAVC-7	0.0	0.0				
S20-SAVC-8	0.0	0.3				
Your Monthly Average	0.02 ±0.03 (8)	0.05 ±0.07 (8)	0 ±0 (0)	0 ±0 (0)	0 ±0 (0)	0 ±0 (0)
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	1.57 ±0.32 (340)	0.89 ±0.25 (363)	0.38 ±0.14 (327)	0.24 ±0.08 (310)	0.21 ±0.12 (95)	0 ±0 (0)
Sentinel Last Year 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)

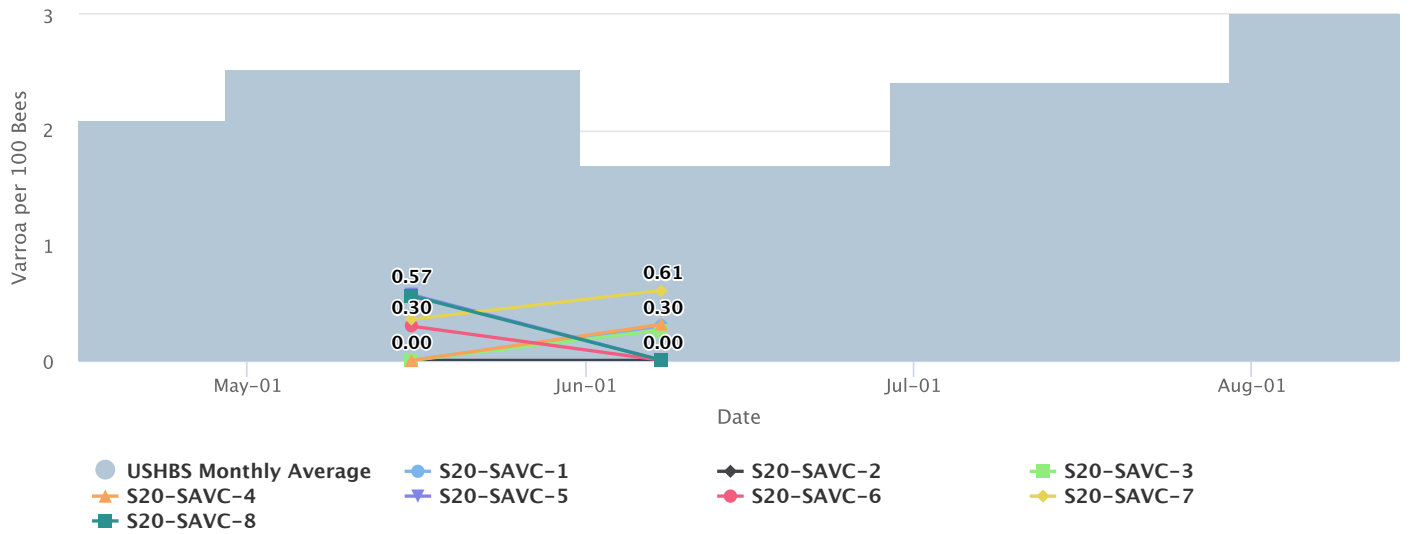
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- Sentinel Average, Last Year includes Sentinel data starting in June 2013.
- APHIS Honey Bee Disease Survey is a national effort sponsored by USDA Animal and Plant Health Inspection Service (APHIS) in collaboration with the Agricultural Research Service (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 => 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 2020 for Your Samples Compared to the National Average



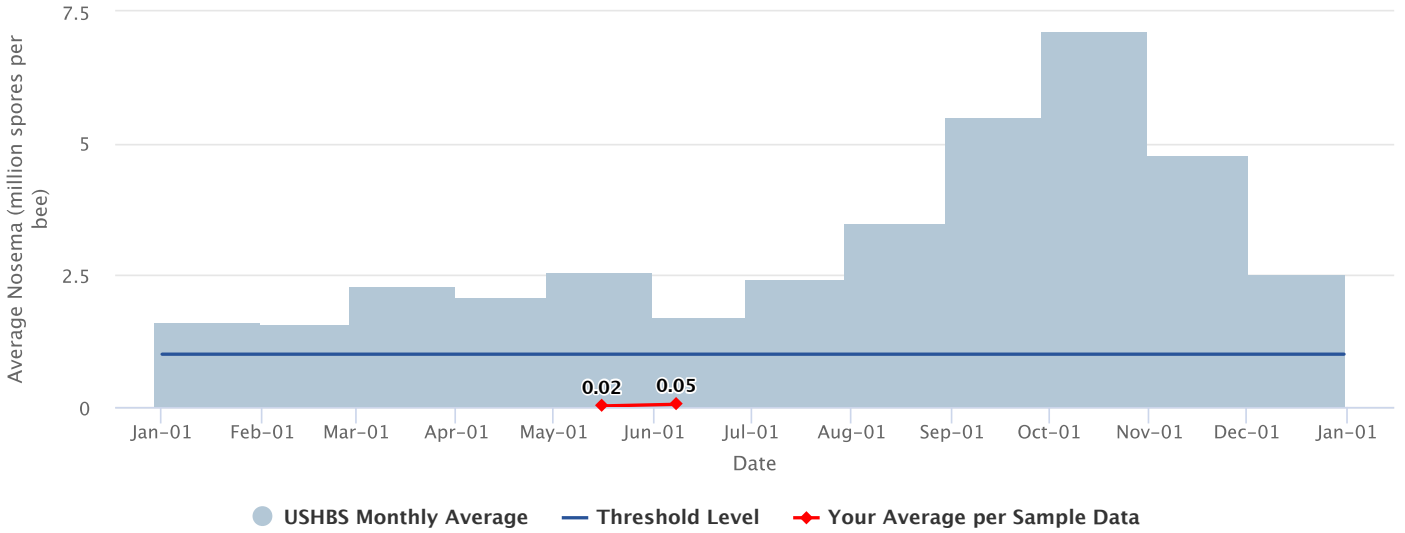
Highcharts.com

### Varroa per 100 Bees per Colony in 2020 for Your Samples Compared to the National Average



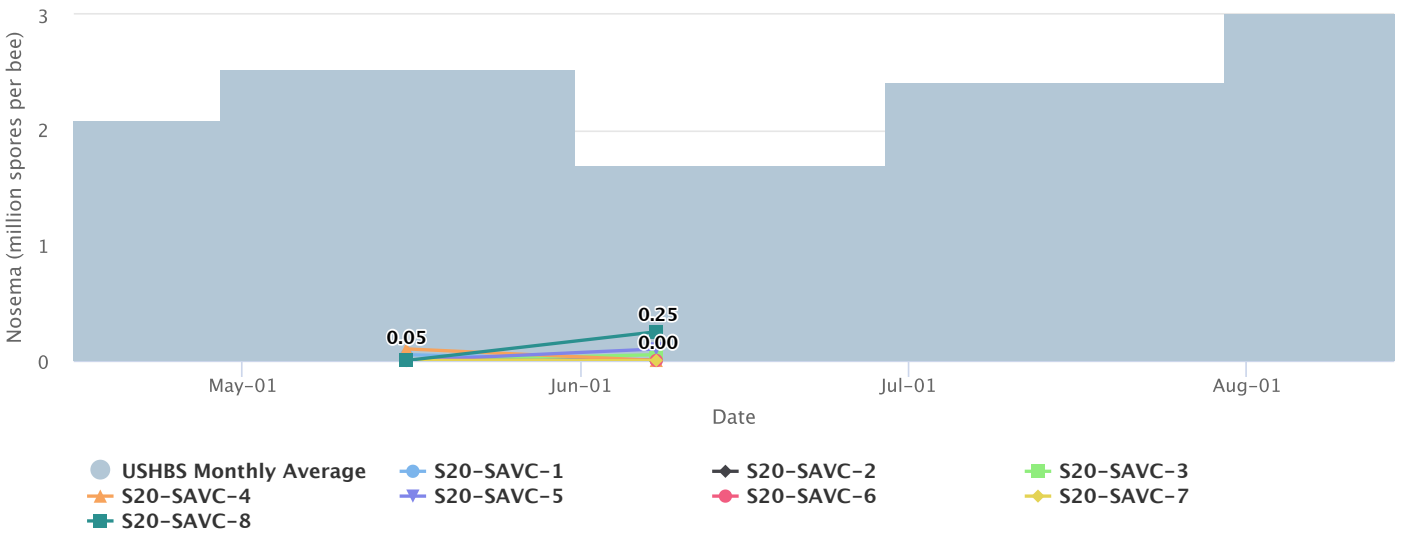
Highcharts.com

### Average Nosema in Million Spores per Bee in 2020 for Your Samples Compared to the National Average



Highcharts.com

### Nosema in Million Spores per Bee per Colony in 2020 for Your Samples Compared to the National Average



Highcharts.com

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
S20-SAVC-1	May 16, 2020	QR	4.0	33.0	honeybound		345	0.0	0.05
S20-SAVC-2	May 16, 2020	QR	5.0	25.0	Just put 5 frames of queenless bees on top and added super		310	0.0	0.00
S20-SAVC-3	May 16, 2020	QR	4.0	17.0	Some EFB put 10 frames of queenless bees on top		330	0.0	0.00
S20-SAVC-4	May 16, 2020	QR	5.0	27.0			258	0.0	0.10
S20-SAVC-5	May 16, 2020	QR	5.0	33.0			350	0.6	0.00
S20-SAVC-6	May 16, 2020	QR	4.0	27.0	Just put 10 frames of queenless bees on top and added super. Honey bound		336	0.3	0.00
S20-SAVC-7	May 16, 2020	QS	5.0	10.0			280	0.4	0.00
S20-SAVC-8	May 16, 2020	QR	5.0	23.0			357	0.6	0.00
S20-SAVC-1	June 8, 2020	QR	4.0	40.0	+2 more supers. Honey bound!		333	0.3	0.00
S20-SAVC-2	June 8, 2020	QR	3.0	20.0	Honey bound. Not using top super		348	0.0	0.00
S20-SAVC-3	June 8, 2020	QR	2.0	5.0	Barely any eggs or brood left. Small patch of eggs and larvae. Swarm cells (capped). Chewed down brood		377	0.3	0.05
S20-SAVC-4	June 8, 2020	QR	5.0	33.0	Took 10 frames of bees and brood 5/27	management	318	0.3	0.00
S20-SAVC-5	June 8, 2020	QR	5.0	33.0	Took 10 frames of bees and brood 5/27	management	317	0.0	0.10
S20-SAVC-6	June 8, 2020	QR	5.0	30.0	Took 10 frames of bees and brood 5/27. Add 10 frames of queenless bees	management	290	0.0	0.00
S20-SAVC-7	June 8, 2020	QS, VQ	5.0	10.0	Just emerging brood. No eggs or larvae. Spotted virgin in tub while taking sample!		328	0.6	0.00
S20-SAVC-8	June 8, 2020	QS	5.0	17.0	Very little eggs and larvae. Lots of capped brood? Took 10 frames bees and brood 5/27	management	305	0.0	0.25

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

