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Bee Informed Partnership Sentinel Apiary Report

Beekeeper: Sentinel
Sample Kit Code: SAVD

Year: 2020

Report date: 10/12/20

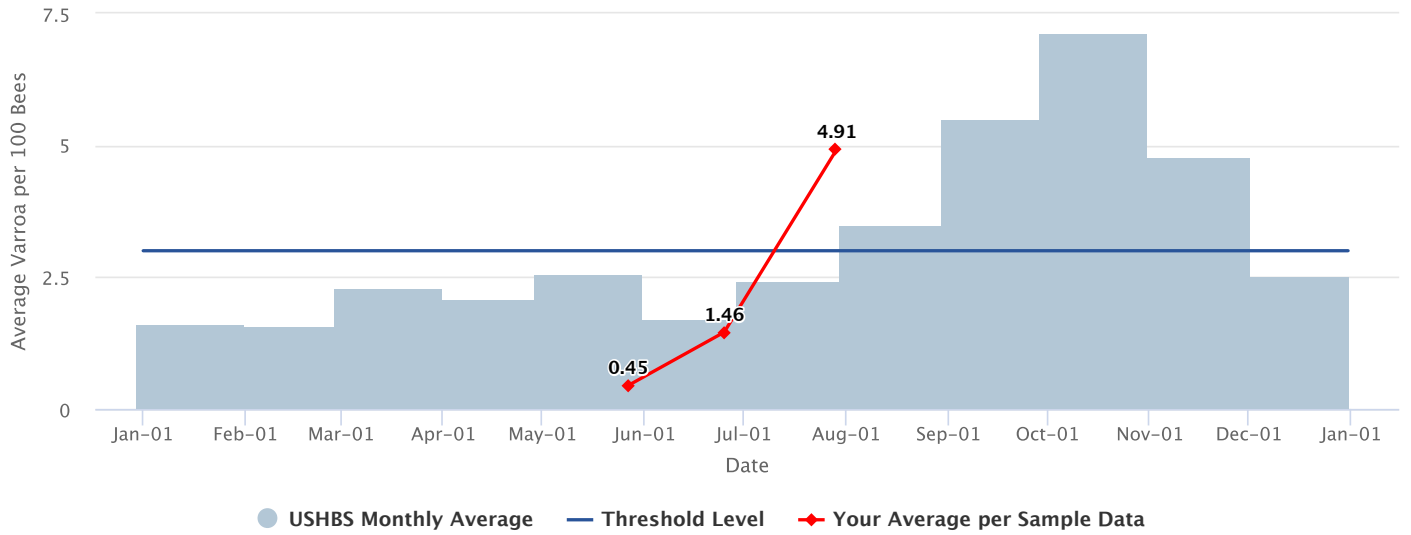
Varroa (mites per 100 bees)						
Hive	May	June	July	August	September	October
S20-SAVD-1	0.0	0.4	0.0			
S20-SAVD-2	0.0	0.5	0.9			
S20-SAVD-3	0.0	0.0	3.1			
S20-SAVD-4	0.5	6.5	13.3			
S20-SAVD-5	0.0	1.2	0.9			
S20-SAVD-6	2.0	1.2	16.8			
S20-SAVD-7	0.0	0.0	1.6			
S20-SAVD-8	1.1	1.8	2.7			
Your Monthly Average	0.45 ±0.61 (8)	1.46 ±1.78 (8)	4.91 ±5.36 (8)	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-SAVD-1	0.0	0.0	0.0			
S20-SAVD-2	0.0	0.0	0.0			
S20-SAVD-3	0.0	0.0	0.0			
S20-SAVD-4	0.0	0.0	0.0			
S20-SAVD-5	0.0	0.0	0.1			
S20-SAVD-6	0.0	0.0	0.0			
S20-SAVD-7	0.0	0.0	0.0			
S20-SAVD-8	0.0	0.1	0.0			
Your Monthly Average	0.0 ±0.0 (8)	0.02 ±0.04 (8)	0.01 ±0.01 (8)	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)

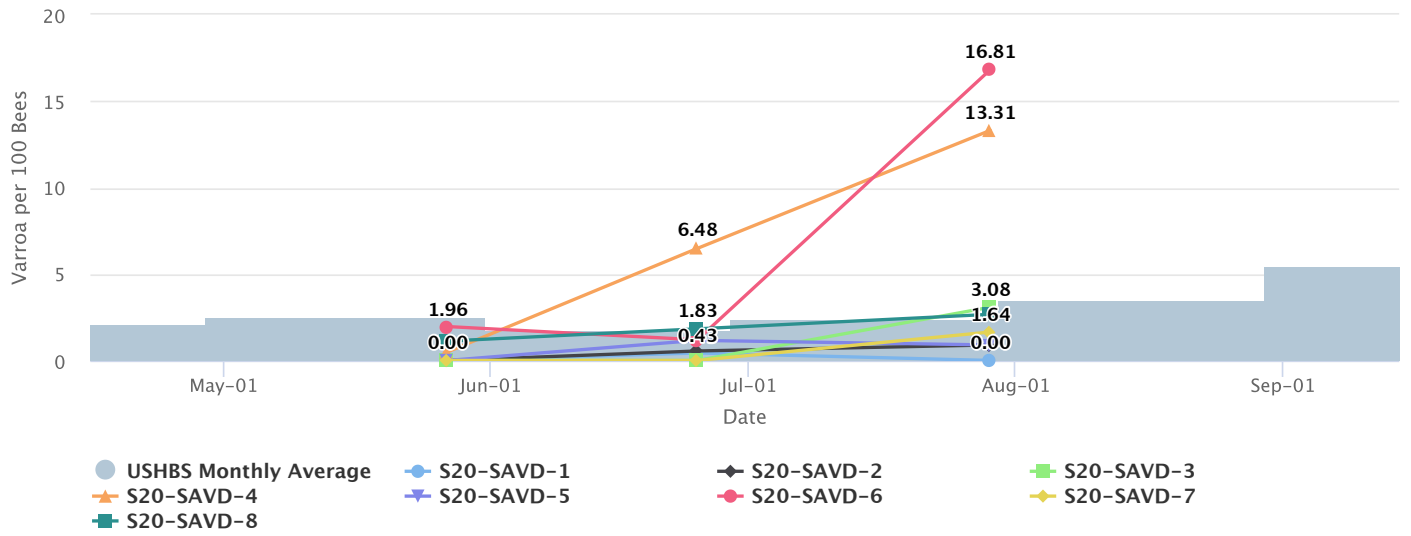
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- The ± 95% Confidence Interval represents the range of expected values for 95% of the data. Observations outside this range may have occurred, but we consider those outliers and not representative of the majority of the data.
- Sentinel Average, Last 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 => 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



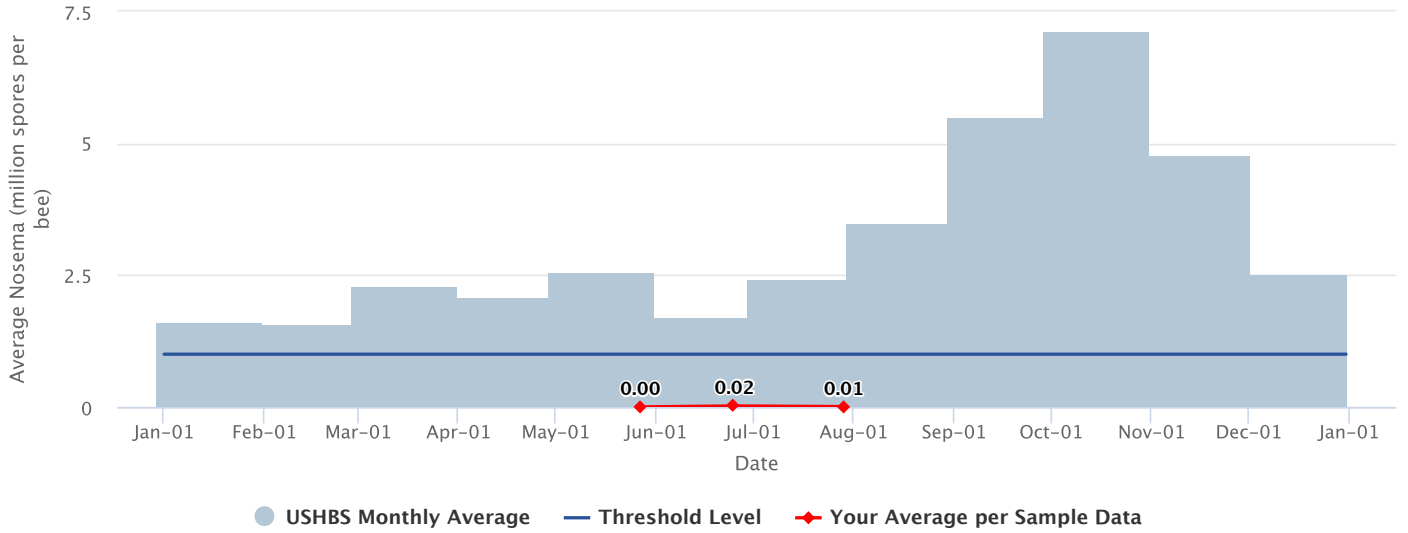
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Varroa per 100 Bees per Colony in 2020 for Your Samples Compared to the National Average



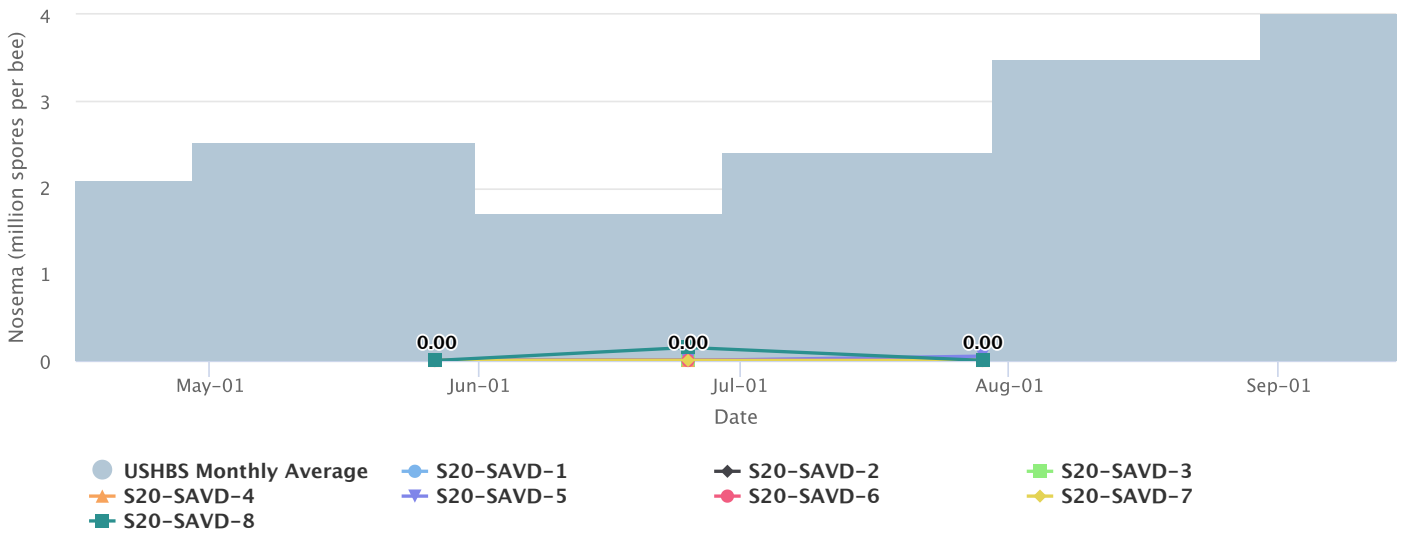
Highcharts.com

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



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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-SAVD-1	May 27, 2020	QR	4.0	20.0	Divided		244	0.0	0.00
S20-SAVD-2	May 27, 2020	QR	5.0	25.0			314	0.0	0.00
S20-SAVD-3	May 27, 2020	QR	5.0	18.0			387	0.0	0.00
S20-SAVD-4	May 27, 2020	QR	5.0	30.0			402	0.5	0.00
S20-SAVD-5	May 27, 2020	QR	5.0	39.0	Divided		270	0.0	0.00
S20-SAVD-6	May 27, 2020	QR	4.0	25.0			255	2.0	0.00
S20-SAVD-7	May 27, 2020	QR	4.0	20.0	Divided. Q cells		313	0.0	0.00
S20-SAVD-8	May 27, 2020	QR	4.0	34.0	Divided		356	1.1	0.00
S20-SAVD-1	June 25, 2020	QR	4.0	27.0	3 supers honey 75%		232	0.4	0.00
S20-SAVD-2	June 25, 2020	QR	4.0	25.0	2 supers honey 75%		182	0.5	0.00
S20-SAVD-3	June 25, 2020		4.0	26.0	3 supers honey 70%		178	0.0	0.00
S20-SAVD-4	June 25, 2020	QR	4.0	28.0	2 supers honey 100%		108	6.5	0.00
S20-SAVD-5	June 25, 2020	QR	4.0	27.0	2 supers honey 90%		172	1.2	0.00
S20-SAVD-6	June 25, 2020	QR	4.0	32.0	2 supers honey 75%. Queen cellsdivided		167	1.2	0.00
S20-SAVD-7	June 25, 2020	QNS		20.0	Drone laying colonygave brood and larvae. Virgin or flighty drone-laying young queen	management	133	0.0	0.00
S20-SAVD-8	June 25, 2020			25.0	Flighty, no brood. Seemingly queenless. Gave brood and larvae	management	218	1.8	0.15
S20-SAVD-1	July 29, 2020	QR	4.0	30.0			383	0.0	0.00

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-SAVD-2	July 29, 2020	QR	4.0	30.0			223	0.9	0.00
S20-SAVD-3	July 29, 2020		4.0	34.0			227	3.1	0.00
S20-SAVD-4	July 29, 2020	QR	4.0	37.0			240	13.3	0.00
S20-SAVD-5	July 29, 2020	QR	4.0	37.0			223	0.9	0.05
S20-SAVD-6	July 29, 2020	QR	4.0	25.0			237	16.8	0.00
S20-SAVD-7	July 29, 2020	DL		20.0	Drone layer		303	1.6	0.00
S20-SAVD-8	July 29, 2020	QR	4.0	35.0			225	2.7	0.00

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