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Bee Informed Partnership
Sentinel Apiary Report

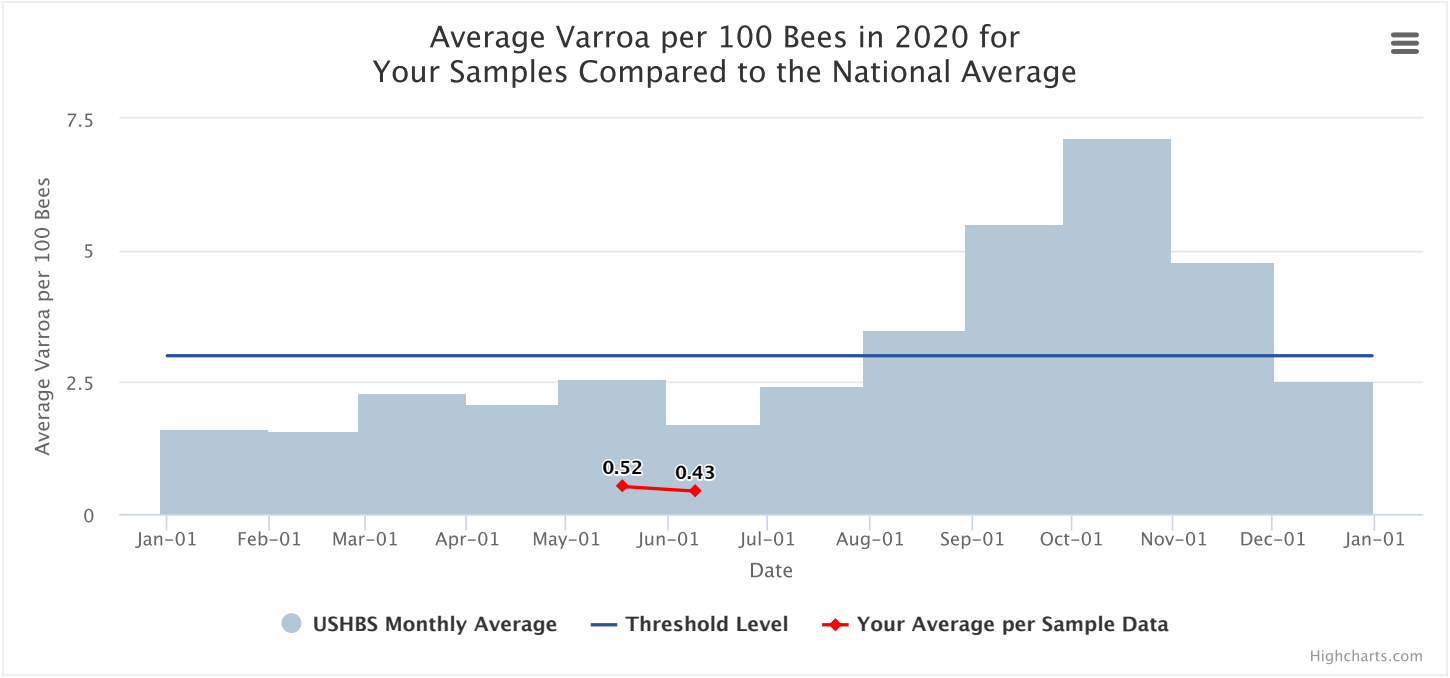
Beekeeper: Year: 2020 Report date: 10/12/20
Sample Kit Code: SAVX

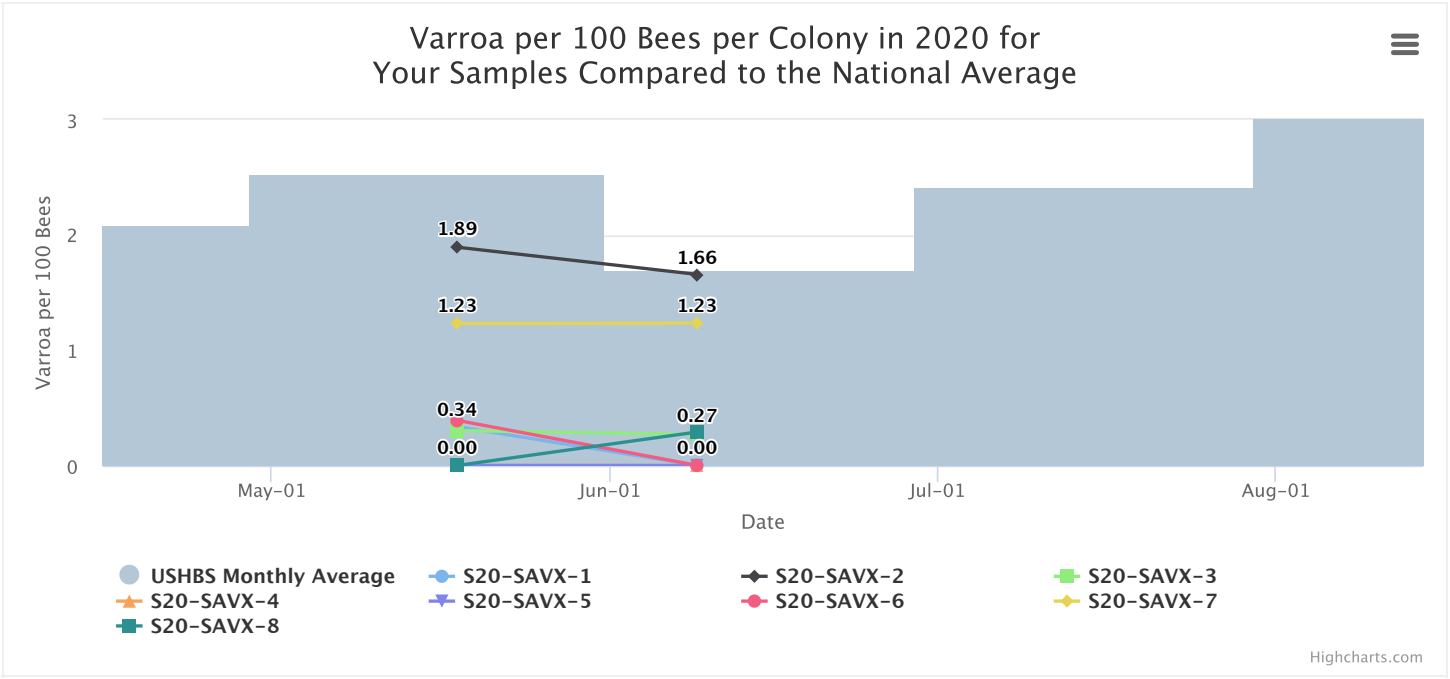
Varroa (mites per 100 bees)						
Hive	**May**	**June**	**July**	**August**	**September**	**October**
S20-SAVX-1	0.3	0.0				
S20-SAVX-2	1.9	1.7				
S20-SAVX-3	0.3	0.3				
S20-SAVX-4	0.0	0.0				
S20-SAVX-5	0.0	0.0				
S20-SAVX-6	0.4	0.0				
S20-SAVX-7	1.2	1.2				
S20-SAVX-8	0.0	0.3				
Your Monthly Average	0.52 ±0.57 (8)	0.43 ±0.54 (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-SAVX-1	0.0	0.0				
S20-SAVX-2	0.0	0.0				
S20-SAVX-3	0.0	0.0				
S20-SAVX-4	0.0	0.0				
S20-SAVX-5	0.0	0.1				
S20-SAVX-6	0.1	0.0				
S20-SAVX-7	0.0	0.1				
S20-SAVX-8	0.0	0.0				
Your Monthly Average	0.01 ±0.01 (8)	0.01 ±0.02 (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)

- 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 => 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
Average Varroa per 100 Bees
7.5
5
2.5
0
0.52
0.43
Jan-01
Feb-01
Mar-01
Apr-01
May-01
Jun-01
Jul-01
Aug-01
Sep-01
Oct-01
Nov-01
Dec-01
Jan-01
Date
USHBS Monthly Average
Threshold Level
Your Average per Sample Data
Highcharts.com


Varroa per 100 Bees per Colony in 2020 for
Your Samples Compared to the National Average
Varroa per 100 Bees
3
2
1
0
1.89
1.66
1.23
1.23
0.34
0.27
0.00
0.00
May-01
Jun-01
Jul-01
Aug-01
Date
USHBS Monthly Average
S20-SAVX-1
S20-SAVX-2
S20-SAVX-3
S20-SAVX-4
S20-SAVX-5
S20-SAVX-6
S20-SAVX-7
S20-SAVX-8
Highcharts.com

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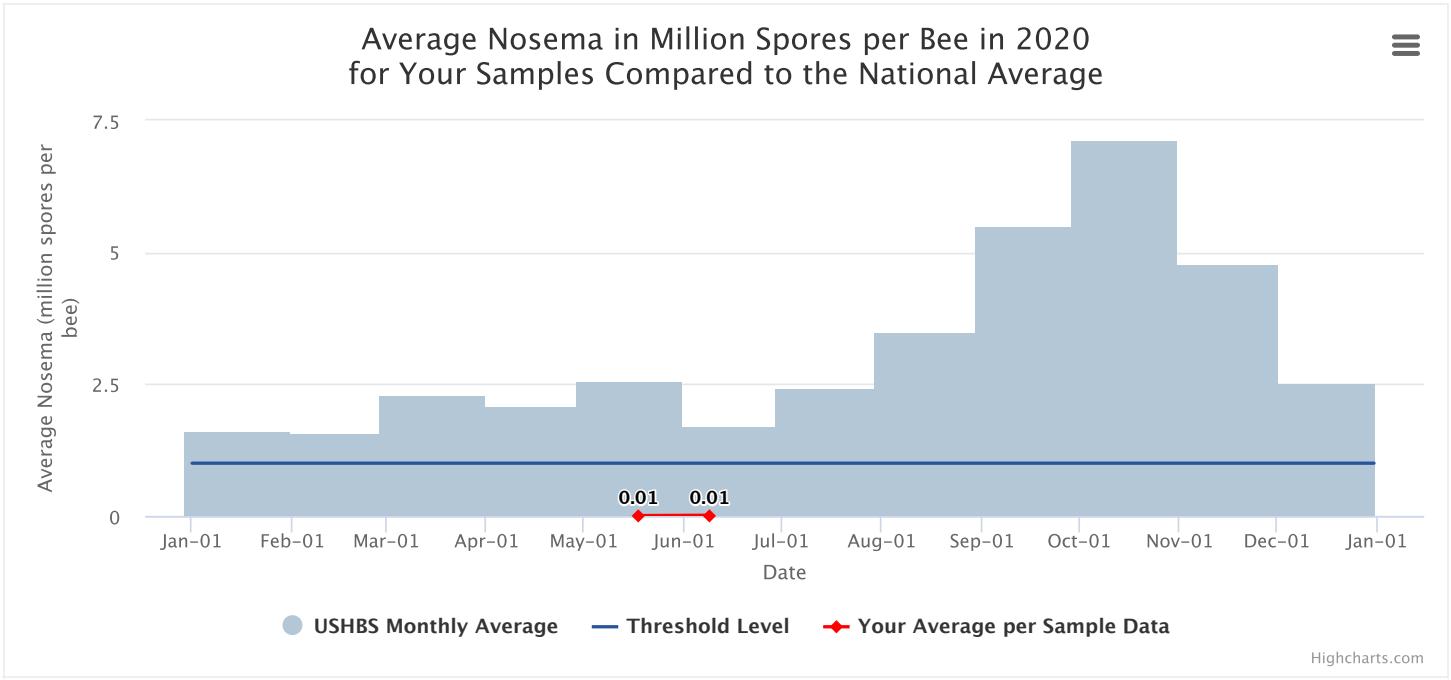
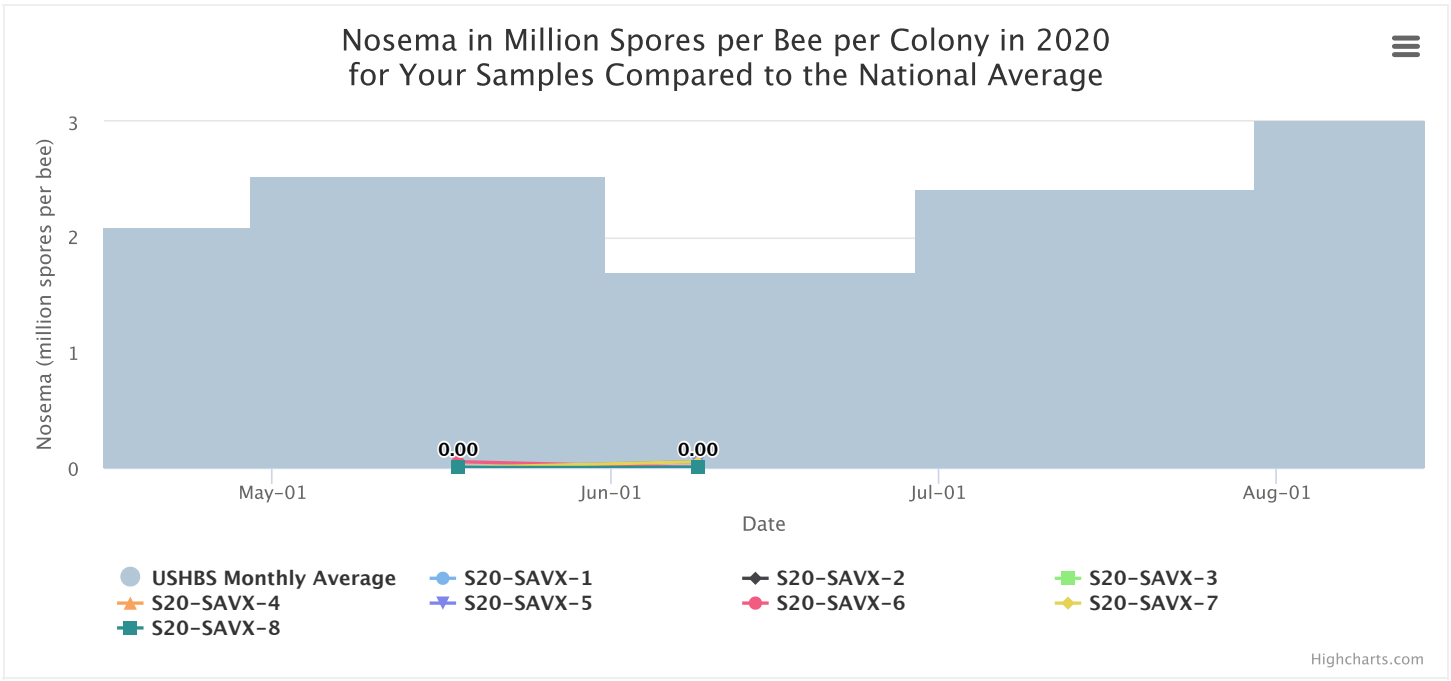

Average Nosema in Million Spores per Bee in 2020
for Your Samples Compared to the National Average
Average Nosema (million spores per bee)
7.5
5
2.5
0
0.01
0.01
Jan-01
Feb-01
Mar-01
Apr-01
May-01
Jun-01
Jul-01
Aug-01
Sep-01
Oct-01
Nov-01
Dec-01
Jan-01
Date
USHBS Monthly Average
Threshold Level
Your Average per Sample Data
Highcharts.com


Nosema in Million Spores per Bee per Colony in 2020
for Your Samples Compared to the National Average
Nosema (million spores per bee)
3
2
1
0
0.00
0.00
May-01
Jun-01
Jul-01
Aug-01
Date
USHBS Monthly Average
S20-SAVX-1
S20-SAVX-2
S20-SAVX-3
S20-SAVX-4
S20-SAVX-5
S20-SAVX-6
S20-SAVX-7
S20-SAVX-8
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-SAVX-1	May 18, 2020	VQ		17.0	4/18 took Q. 5/18 saw Q but no eggs yet		297	0.3	0.00
S20-SAVX-2	May 18, 2020	QR	3.0	38.0	spotty capped brood with eggs but no larvae, recent swarm--supercedure?		316	1.9	0.00
S20-SAVX-3	May 18, 2020	QR	5.0	7.0			330	0.3	0.00
S20-SAVX-4	May 18, 2020	QS	5.0	3.0	Queen just started laying 4-5 days ago		319	0.0	0.00
S20-SAVX-5	May 18, 2020	QR	5.0	46.0	Filled a deep + 2 mediums full of honey in the last week. Added 2 more mediums		276	0.0	0.00
S20-SAVX-6	May 18, 2020	VQ		5.0			255	0.4	0.05
S20-SAVX-7	May 18, 2020	VQ		6.0			324	1.2	0.00
S20-SAVX-8	May 18, 2020	QS	5.0	36.0	5-7 day old swarm cells. Took 5 splits		311	0.0	0.00
S20-SAVX-1	June 9, 2020	QR	5.0	20.0	Added a deep		302	0.0	0.00
S20-SAVX-2	June 9, 2020	QR	4.0	35.0			301	1.7	0.00
S20-SAVX-3	June 9, 2020	QR	4.0	16.0	Added a medium		372	0.3	0.00
S20-SAVX-4	June 9, 2020	QL	0.0	10.0	No brood or eggs. Combined with QR colonies		340	0.0	0.00
S20-SAVX-5	June 9, 2020	QR	5.0	57.0	Around 150lbs. Partially capped honey		332	0.0	0.05
S20-SAVX-6	June 9, 2020	QR	5.0	8.0	Added 10 frames QL bees		322	0.0	0.00
S20-SAVX-7	June 9, 2020	QS	5.0	8.0	Added 10 frames QL bees		323	1.2	0.05
S20-SAVX-8	June 9, 2020	QR	5.0	42.0			344	0.3	0.00

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