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Bee Informed Partnership Sentinel Apiary Report

Beekeeper: Sentinel
Sample Kit Code: SAVZ

Year: 2020

Report date: 10/12/20

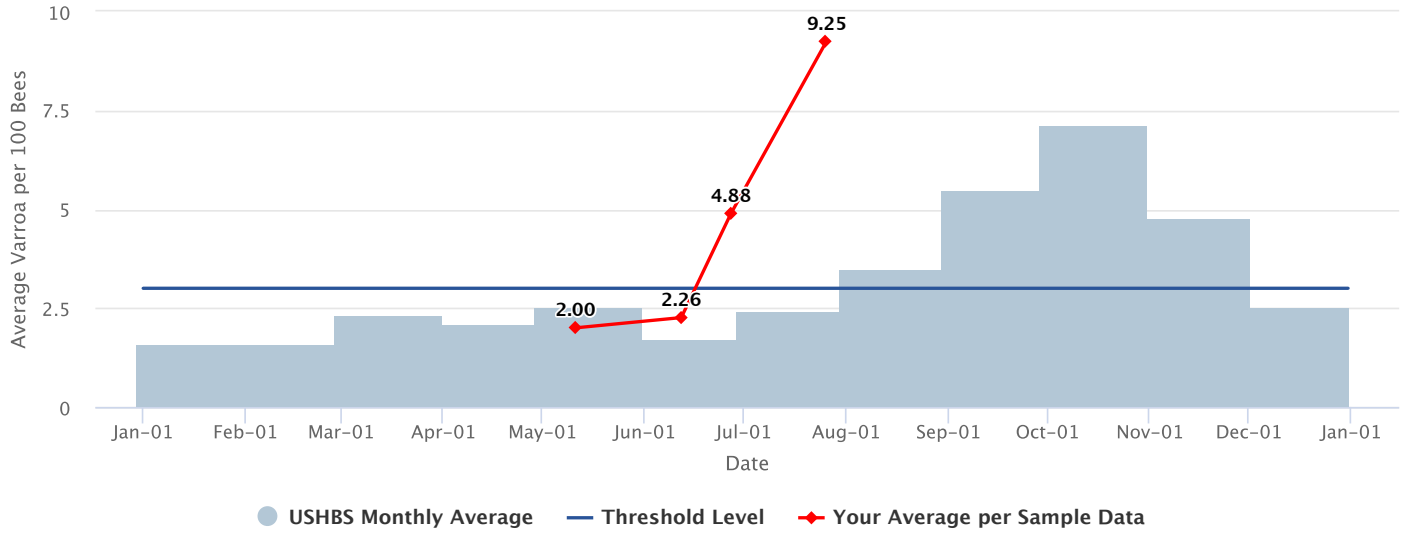
Varroa (mites per 100 bees)						
Hive	May	June	July	August	September	October
S20-SAVZ-1	1.9	3.8	1.5	0.0		
S20-SAVZ-2	1.1	0.4	0.9	1.3		
S20-SAVZ-3	0.0	1.5	2.5	8.7		
S20-SAVZ-4	6.9	0.8	2.2	13.1		
S20-SAVZ-5	5.2	4.9	4.7	3.1		
S20-SAVZ-6	0.5	1.7	9.5	8.6		
S20-SAVZ-7	0.0	0.3	4.2	5.4		
S20-SAVZ-8	0.5	4.7	13.7	33.5		
Your Monthly Average	2.0 ±2.18 (8)	2.26 ±1.61 (8)	4.88 ±3.73 (8)	9.25 ±8.97 (8)	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-SAVZ-1	0.1	0.7	0.1	0.0		
S20-SAVZ-2	0.1	0.0	0.1	0.0		
S20-SAVZ-3	0.3	0.1	0.0	0.0		
S20-SAVZ-4	0.2	0.0	0.0	0.1		
S20-SAVZ-5	0.6	0.0	0.0	0.0		
S20-SAVZ-6	2.4	0.0	0.0	0.0		
S20-SAVZ-7	0.1	0.0	0.0	0.0		
S20-SAVZ-8	0.0	0.0	0.1	0.0		
Your Monthly Average	0.46 ±0.66 (8)	0.1 ±0.2 (8)	0.04 ±0.05 (8)	0.01 ±0.01 (8)	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)

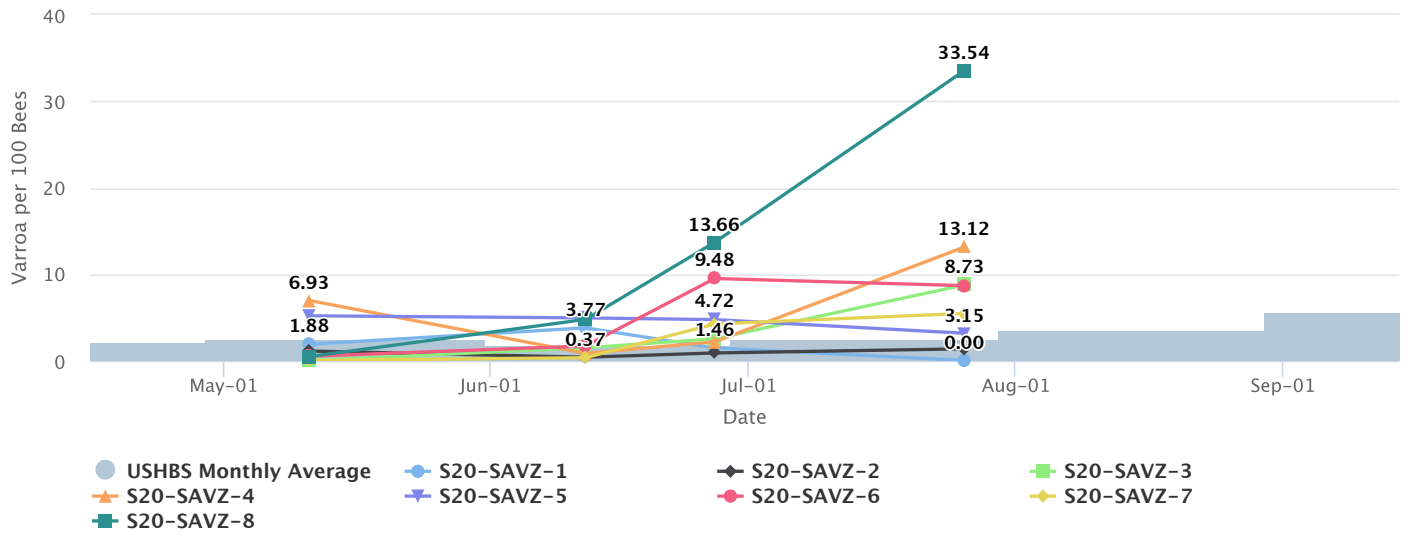
- Data presented: average ± 95% Confidence Interval (# of samples)
- The ± 95% Confidence Interval represents the range of expected values for 95% of the data. Observations outside this range may have occurred, but we consider those outliers and not representative of the majority of the data.
- Sentinel 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



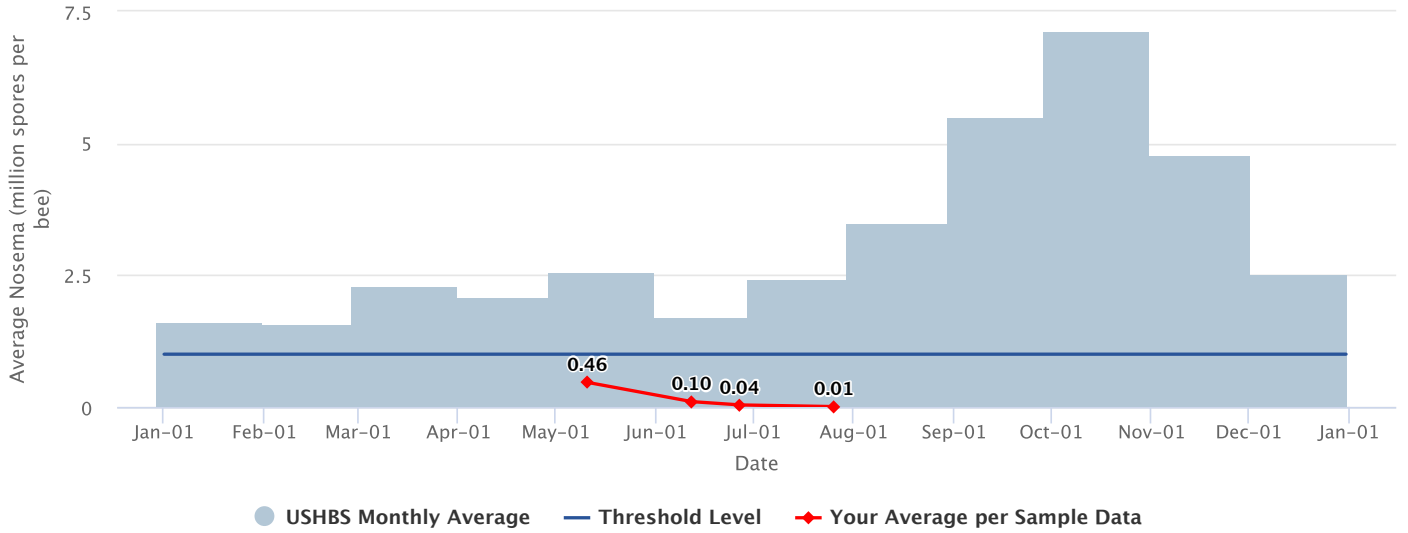
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Varroa per 100 Bees per Colony in 2020 for Your Samples Compared to the National Average



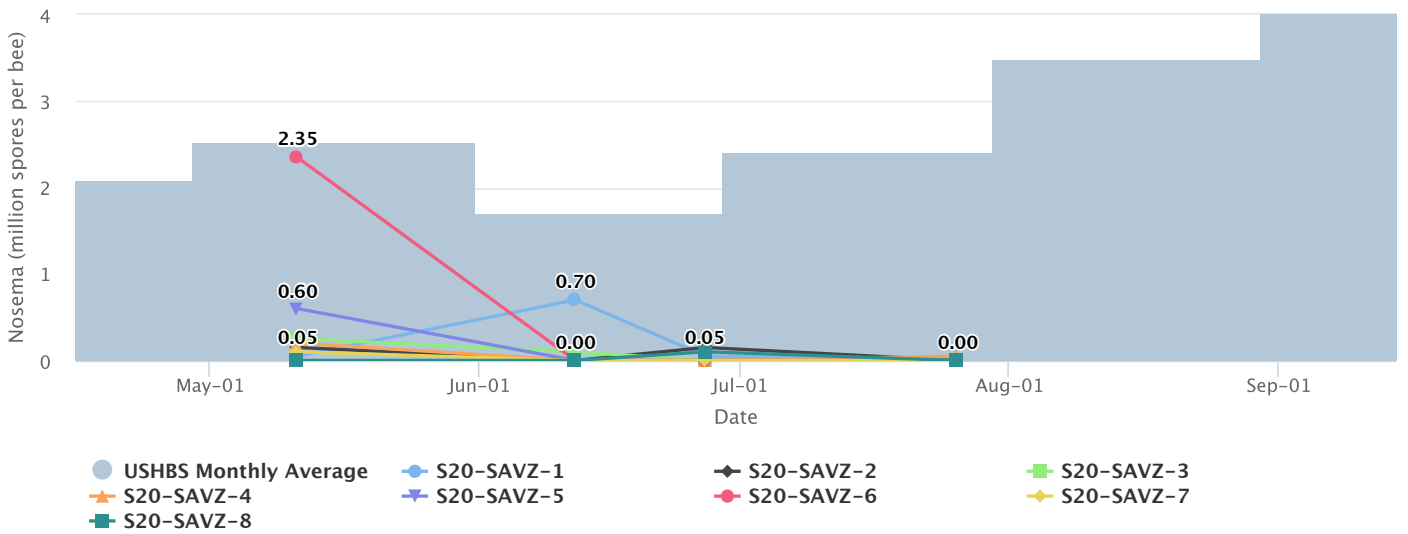
Highcharts.com

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



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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
S20-SAVZ-1	May 11, 2020	QR		11.0			159	1.9	0.05
S20-SAVZ-2	May 11, 2020	QL	4.0	15.0	Split w/ old queen, cell building		276	1.1	0.15
S20-SAVZ-3	May 11, 2020	QR	4.0	16.0			293	0.0	0.25
S20-SAVZ-4	May 11, 2020	QR	5.0	17.0	one divide		245	6.9	0.20
S20-SAVZ-5	May 11, 2020	QR		10.0			154	5.2	0.60
S20-SAVZ-6	May 11, 2020	QR	5.0	30.0	one split		205	0.5	2.35
S20-SAVZ-7	May 11, 2020	QR	4.0	6.0			208	0.0	0.10
S20-SAVZ-8	May 11, 2020	QR	4.0	17.0			217	0.5	0.00
S20-SAVZ-1	June 12, 2020	QR	3.0	5.0			159	3.8	0.70
S20-SAVZ-2	June 12, 2020	QR	4.0	20.0	Split with queen cells		267	0.4	0.00
S20-SAVZ-3	June 12, 2020	QR	5.0	28.0			410	1.5	0.10
S20-SAVZ-4	June 12, 2020	QR	5.0	15.0			243	0.8	0.00
S20-SAVZ-5	June 12, 2020	QR	5.0	20.0			325	4.9	0.00
S20-SAVZ-6	June 12, 2020	QR	5.0	30.0			179	1.7	0.00
S20-SAVZ-7	June 12, 2020	QR	5.0	16.0			318	0.3	0.00
S20-SAVZ-8	June 12, 2020	QR	5.0	20.0			274	4.7	0.00
S20-SAVZ-1	June 27, 2020	QR	2.0	4.0	0 supers honey		206	1.5	0.05

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-SAVZ-2	June 27, 2020	QR	5.0	10.0	0 supers honey		231	0.9	0.15
S20-SAVZ-3	June 27, 2020	QR	4.0	30.0	2 supers honey 100%		199	2.5	0.00
S20-SAVZ-4	June 27, 2020	QR	5.0	29.0	2 supers honey 90%		185	2.2	0.00
S20-SAVZ-5	June 27, 2020	QR	4.0	20.0	2 supers honey 95%		232	4.7	0.00
S20-SAVZ-6	June 27, 2020	QR	5.0	35.0	3 supers honey 75%		253	9.5	0.00
S20-SAVZ-7	June 27, 2020	QR	4.0	27.0	1 super honey 75%. Split with queen cells		142	4.2	0.00
S20-SAVZ-8	June 27, 2020	QR	4.0	31.0	2 supers honey 90%		168	13.7	0.10
S20-SAVZ-1	July 26, 2020	QR	5.0	12.0		treatment	301	0.0	0.00
S20-SAVZ-2	July 26, 2020	QR	5.0	20.0		treatment	223	1.3	0.00
S20-SAVZ-3	July 26, 2020	QR	5.0	22.0		treatment	217	8.7	0.00
S20-SAVZ-4	July 26, 2020	QR	5.0	22.0		treatment	160	13.1	0.05
S20-SAVZ-5	July 26, 2020		4.0	25.0		treatment	190	3.1	0.00
S20-SAVZ-6	July 26, 2020	QR	4.0	35.0		treatment	161	8.6	0.00
S20-SAVZ-7	July 26, 2020	QR	4.0	12.0		treatment	294	5.4	0.00
S20-SAVZ-8	July 26, 2020	QR	3.0	23.0		treatment	193	33.5	0.00

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