



beeinformed.org

Bee Informed Partnership Sentinel Apiary Report

Beekeeper: Year: 2018
Sample Kit Code: SAIG

Report date: 10/12/20

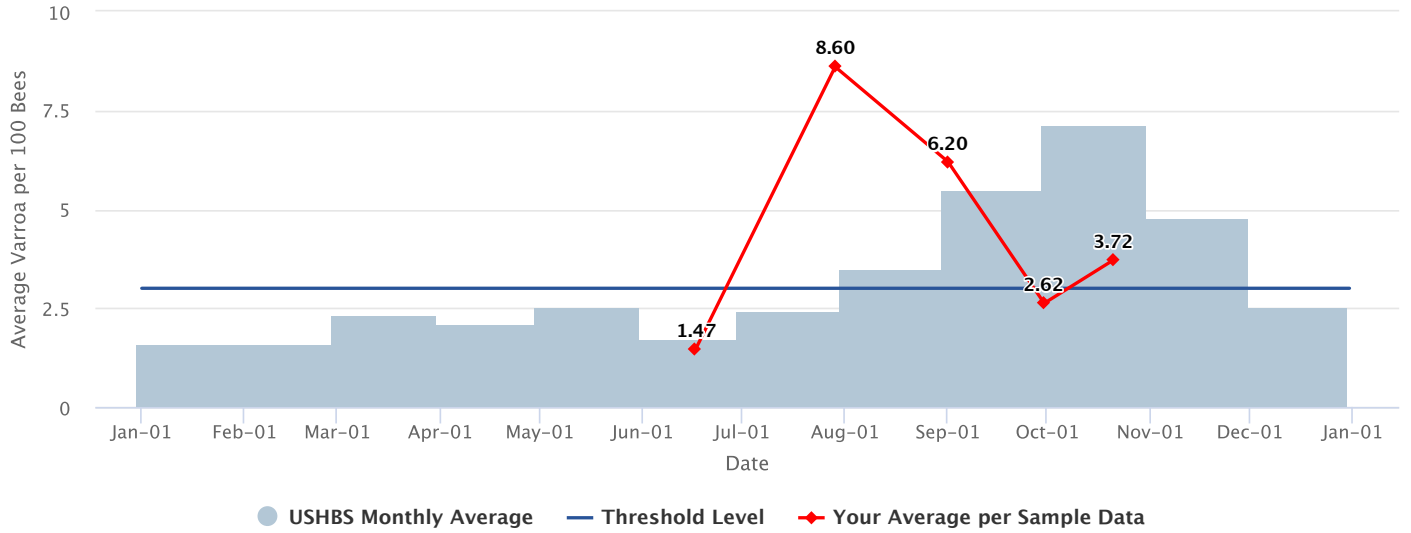
Varroa (mites per 100 bees)							
Hive	May	June	July	August	September	October	November
S18-SAIG-1		1.0	15.3		1.5	4.2	5.9
S18-SAIG-2		1.9	1.9		10.9	1.1	1.6
Your Monthly Average	0 ±0 (0)	1.47 ±6.0 (2)	8.6 ±84.68 (2)	0 ±0 (0)	6.2 ±60.26 (2)	2.62 ±19.63 (2)	3.72 ±27.44 (2)
USHBS Average	2.53 ±0.26 (599)	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)	4.77 ±0.72 (253)
Sentinel 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)	2.5 ±1.75 (16)
Sentinel Last Year Average	1.85 ±0.43 (446)	1.65 ±0.25 (491)	2.62 ±0.36 (505)	4.18 ±0.63 (467)	5.37 ±0.78 (495)	6.67 ±0.82 (388)	3.23 ±1.24 (39)

- 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	November
S18-SAIG-1		0.0	0.0		0.0	0.0	0.0
S18-SAIG-2		0.0	0.0		0.0	0.0	0.0
Your Monthly Average	0 ±0 (0)	0.0 ±0.0 (2)	0.0 ±0.0 (2)	0 ±0 (0)	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)	4.77 ±0.72 (253)
Sentinel 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)	0.17 ±0.11 (16)
Sentinel Last Year Average	0.67 ±0.13 (446)	0.4 ±0.11 (491)	0.19 ±0.07 (505)	0.14 ±0.05 (459)	0.15 ±0.06 (496)	0.19 ±0.11 (387)	0.29 ±0.19 (39)

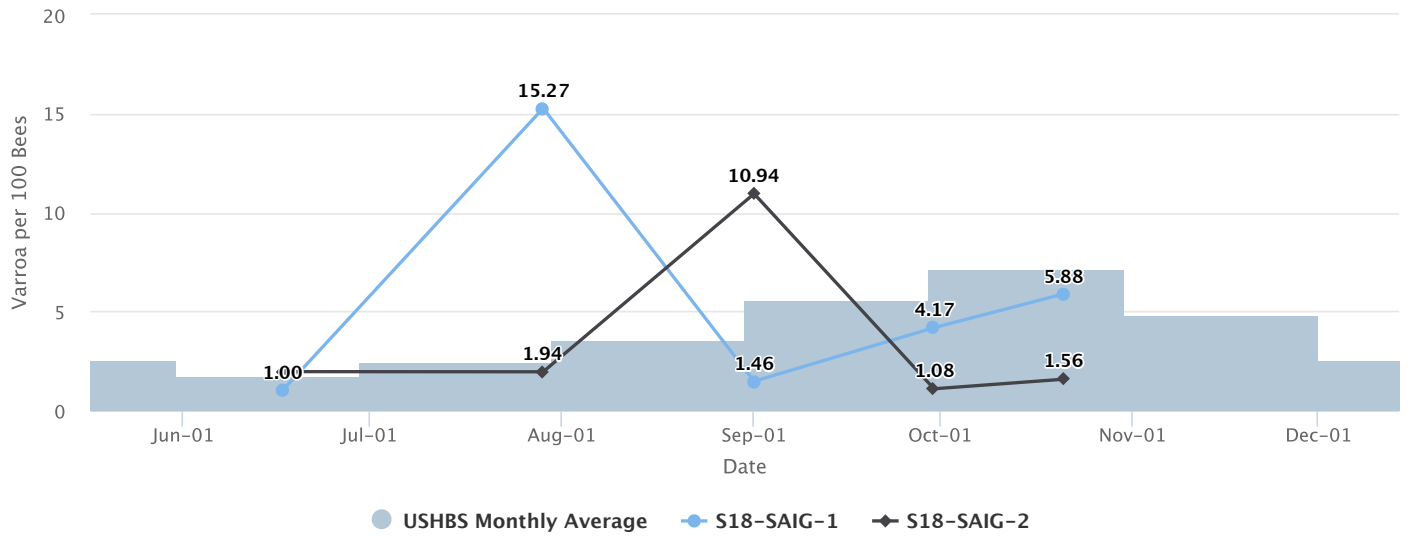
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- We consider => one million spores per bee (highlighted in red) to be the acceptable threshold in a hive. Your nosema levels will fluctuate with temperature and colonies' sun exposure every month.

Average Varroa per 100 Bees in 2018 for Your Samples Compared to the National Average



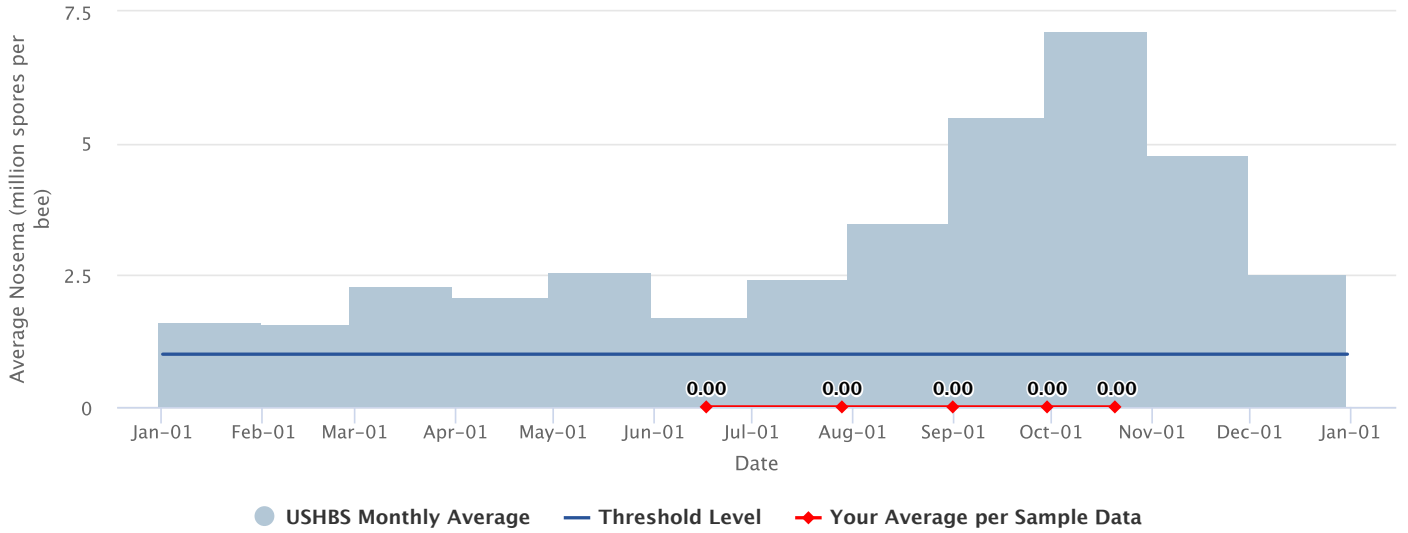
Highcharts.com

Varroa per 100 Bees per Colony in 2018 for Your Samples Compared to the National Average



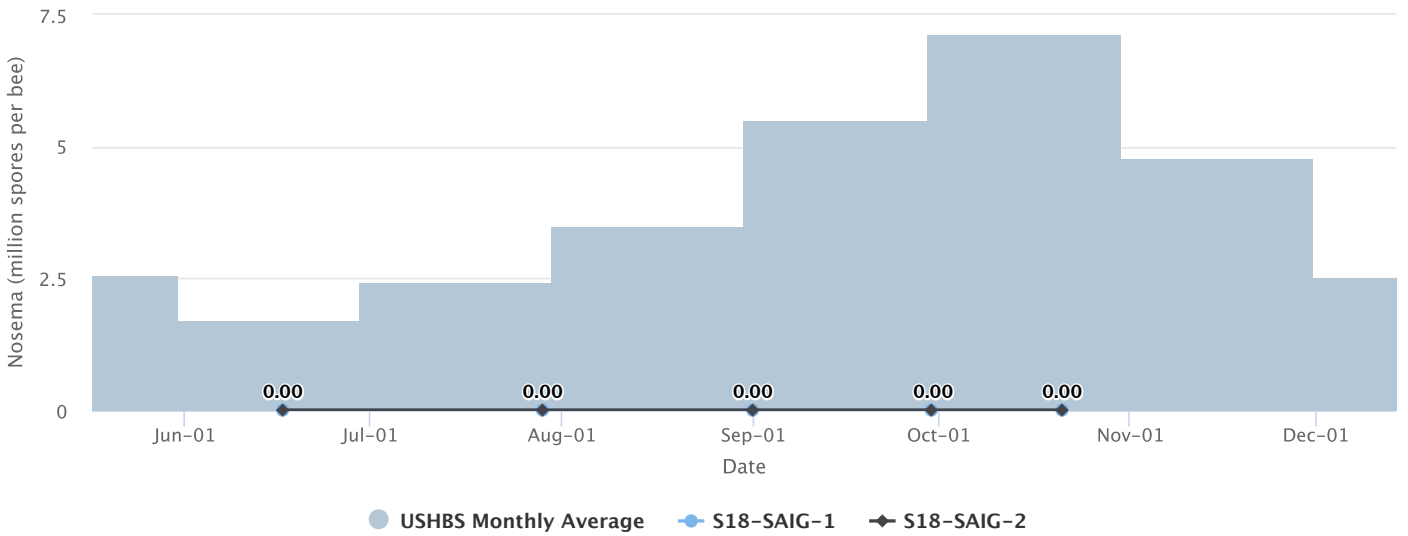
Highcharts.com

Average Nosema in Million Spores per Bee in 2018 for Your Samples Compared to the National Average



Highcharts.com

Nosema in Million Spores per Bee per Colony in 2018 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
S18-SAIG-1	June 17, 2018	QR	5.0	19.0	string, defensive, lots of stored honey	management	100	1.0	0.00
S18-SAIG-2	June 17, 2018	QR	4.0	21.0	several queen cells, calm, lots of honey	management	205	1.9	0.00
S18-SAIG-1	July 29, 2018	QR	2.0	30.0	all 30 frames being worked, very healthy, defensive		137	15.3	0.00
S18-SAIG-2	July 29, 2018	QL	0.0	16.0	No queen, no eegs, no brood, 8 frames honey		258	1.9	0.00
S18-SAIG-1	Sept. 1, 2018	QL	0.0		Treated with Apiguard and combined with QR hive.		754	1.5	0.00
S18-SAIG-2	Sept. 1, 2018						822	10.9	0.00
S18-SAIG-1	Sept. 30, 2018	QR	2.0	10.0	reduction of brood cells	treatment	120	4.2	0.00
S18-SAIG-2	Sept. 30, 2018	QR	2.0	10.0	reduction of brood cells	treatment management	185	1.1	0.00
S18-SAIG-1	Oct. 21, 2018				Brood pattern has shrunk		51	5.9	0.00
S18-SAIG-2	Oct. 21, 2018				Small brood pattern		64	1.6	0.00

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