Thank you for participating in the **2019-2020 Bee Informed Partnership National Colony Loss and Management Survey**



Your participation in this research is confidential. You should be 18 years or older. All your answers will be stored and secured in an encrypted, password protected database. No personally identifiable information will be disclosed in any publication or presentation resulting from this research. At the end of the study, there is an option for you to provide us with your email address. This is completely voluntary, and your email will only be used to communicate with you about other Bee Informed Partnership activities. We will not pass on your email to a third party. Mention of a commercial product/practice in this survey does not constitute an official endorsement or approval by the Bee Informed Partnership.

DO NOT SEND US THIS PAPER SURVEY!! WE WILL NOT ENTER ANY RESPONSES PROVIDED ON THIS PREVIEW.

This preview of the survey is intended to allow you to look through the questions, or print a hard copy, as an aid before taking the survey online (at https://beeinformed.org/take-survey/)

Completion of all or part of this survey is voluntary. If you are not comfortable answering a question, please leave it blank. That said, questions marked by an asterisk (*) are very important to this survey ©. Without them, your data will have limited value.

1*				tween April 1, 2019 and pollination, or if you mana		tes)
☐ Distr☐ Dela☐ Flori For the recent!	ama ka bna insas ornia rado necticut rict of Columbia ware da purpose of this s y created split, a	Georgia Hawaii Idaho Illinois Indiana Iowa Kansas Kentucky Louisiana Maine Gurvey, a "colony"	☐ Maryland ☐ Massachusetts ☐ Michigan ☐ Minnesota ☐ Mississippi ☐ Missouri ☐ Montana ☐ Nebraska ☐ New Hampshire " is defined as any unit ackage or swarm, BUT	New Jersey New Mexico New York North Carolina North Dakota Ohio Oklahoma Oregon Pennsylvania Puerto Rico of bees housed in a hive NOT a mating nuc. It me	☐ Rhode Island ☐ South Carolina ☐ South Dakota ☐ Tennessee ☐ Texas ☐ Utah ☐ Other, please specify . That is, a full-sized colust be headed by a mate	□ Vermont □ Virginia □ Washington □ West Virginia □ Wisconsin □ Wyoming :
2*	Enter the numb 1 April 2019	er of colonies, re	gardless of future survi 1 October 2019	val prospects or queen :	status, you had on the g	given date.
3*	•	•	in from outside your op	peration? (Please include er your initial installation).	Example of net incre - You might break do	
	Summer (1 Apr 20	019 – 1 Oct 2019)	Winter (1 Oct 2	019 – 1 Apr 2020)	while making splits.	If you break down 1 colonies (e.g. nucs),
4*	How much net i	ncrease in coloni	es did you make from s	plitting your own	colonies.	•
	colonies? (Please	e include both those re eventually sold).	e that did AND did not esto	oblish. Also include packag		. Two strong colonies blony AND the two is represents a net
5*	Of your newly s	et un colonies ha	ow many did not establ	ish within the first mon	, ,	
3	accepted, swarn	n absconded, etc se you obtained fro	.) nm outside your operation	and colonies you made by 019 – 1 Apr 2020)		
6*	How many color	nies did you sell d	or give away?			
				es full-sized colonies, as we	ll as newly made splits/nu	ics and packages.
	Summer (1 Apr 20	-		019 – 1 Apr 2020)	,,	
7*	How much color	nies did you net c	lecrease from combinir	ng your own colonies?	Example of net decre	ease by combining:
	Summer (1 Apr 20	019 – 1 Oct 2019)	Winter (1 Oct 2	019 – 1 Apr 2020)	You might combine 2 one. This represents colony.	

National Colony Loss and Management Survey

8*	What per	centage o	of loss, ove	er the last	winter, \	vould you	consider	acceptab	le?			Between	n 0-100%
9	Of your co			_				and Apr	il 1,				
	Few dead v	vorkers on	the bottor	m board ar	nd around	the hive, Al	ND rapid lo	-				Betwee	n 0-100%
	force, but p												
10	In your op (between	-				-		colony d	eath in yo	ur operati	on in Sun	nmer	
□ I did	not experie					g. hurrican] Pesticides	and treatn	nents		
	erse weather					oollen depi			Predators				
☐ Broo	d diseases (e.g. EFB, A				nectar/sug			Scavenger	Pests (e.g.	Small Hiv	e Beetle, W	/ax moth)
-	en issues				ent failure	e.g. moisti	ure, ventila	tion) 🗆	Varroa mi	tes and ass	ociated vi	ruses	
∐Idor	n't know	⊔ Othe	r, please s	pecify:									
11	In your op							colony d	eath in yo	ur operati	on in Wi r	nter	
_	(between			-									
	not experie					g. hurrican			Pesticides				
	erse weathe od diseases (oollen depi nectar/sug] Predators] Scavenger		•	e Reetle M	/ax moth)
	en issues	c.g. Li b, /\					ure, ventila		Varroa mi				vax motily
□ I dor	n't know	☐ Othe	r, please s										
	en April 1,						f	-4:					
12	Please pro							ation.					
			e tiiuii one	II you muv	e muitipie	pases of or	peration)						
13	At the tim							olonies w	ere used	$\overline{}$			
13	At the tim to pollina	e of 2020	bloom, v	vhat perc				olonies w	ere used	Retwee	n 0-100%	□ Noi	ne
13 14*	to pollina	e of 2020 te Califor	bloom, v nia almor	vhat perc nds?	entage of	your ope	ration's co		NI .		n 0-100%		
		e of 2020 te Califor nove any o	bloom, v nia almor of your co	vhat perc nds? Ionies be	entage of tween sta	your ope	ration's co		NI .	Betwee s (skip Q 16		□ Noi	
	to pollina Did you m obtained fr Approxim	te of 2020 te Califor nove any of om out of ately wha	bloom, verila almore of your constate before it percent	what percends? Ilonies been to your instance of your	entage of tween sta talled then ur operat	your ope ates? Do n	ration's co	colonies yc	O Yes				
14*	to pollina Did you m obtained fr	te of 2020 te Califor nove any of om out of ately wha	bloom, verila almore of your constate before it percent	what percends? Ilonies been to your instance of your	entage of tween sta talled then ur operat	your ope	ration's co	colonies yc	O Yes	s (skip Q 16			
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Congratulations and thank you! You have just completed Part 1 of the survey. Your information will be used to generate colony loss information that is critical to establish baseline knowledge about the health of your honey bee colonies. Part 2 focuses on how you managed your colonies last year. This information allows us to understand how your management practices are connected to the health of your colonies. Let's goooooo!!!!!!!

If Yes, how **often** per month? (e.g. May 3x)

	Between	April 1,	, 2019 and	l April 1	, 2020
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19*	did you inspec	t your colonies	? 01	O ol	Yes									13	20		20
	did you monito	-		No O	Yes												
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Othe	er, please specify:																
Betwe	en April 1, 2019 a	and April 1, 202	20														
24*	Did you use a tr e	eatment to try	to control														
		nites in your co			() Yes				01	No						
		n your colonies			(O Yes				01							
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25*	which, if any,		g did you app	ly to an	ny of you	r color	nies?	select	all the	at app	ly)	ıımag	illin (e	σ Fui	midil B)	
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25* Non Amit Forn Oxal Othe (NOT F 26	which, if any, e of the following traz-based product nic Acid (e.g. MiteA ic Acid er, please specify: EED ADDITIVES) Please specify h Examples of a - You treated y - You treated y - You added 2 y ct used	of the following (e.g. Apivar) way QuickStrips) ow and when y (round or application our colonies with Apivar strips to y. Target Pest (eg. Varroa, SHB,)	g did you app Thymo Couma Fluvalii Hop oi Menth Tou used the pation" initiated oxalic acid (OA with OA on 2 April our hives in Mo Reason treatment applied (1)	ly to an ol-based aphos-based l based pol-based pol-base	product (ased pr	r color e.g. Ap uct (e.g. ct (e.g. e.g. Hop (e.g. M ed in Q th (eve nd/app nd half pril = 2 lication Whi trea Apr '19	nies? (iLife V g. Chec Apist. oGuardite-A-lication 3 A round in May '19	ring te round the round th	the last of the last of has of	st yea not be 1 roui on in A ww ma TIATE Aug '19	oly) File	erram ylan-k Minera ssenti ril 1, mplet unds/ nonth Oct '19	ycin pased al oils applicated that applicated the oil oils applicated that applicated the oils applicated the oils applicated that applicated the oils and oils alone the oils applicated the oils applicated the oils alone the oils applicated the oils are oils applicated the oils applica	to April cations May 3 Dec (19	ril 1, 2 mont	2020): ch):	Mar '20

Between April 1, 2019 and April 1, 2020...

27* did ver ver envert	-					11/400	O A :==:	haa? /	1+	11 +1			
· · · · · · · · · · · · · · · · · · ·	he following practices/ eq	luipme	ent to	try to	contro	IVARR	UA MI	tes? (s	select a	II that d	(ylqqr		
☐ I did not use any practices or e				. .		.1. 2. /		0 1					
	What % of your colonies?			-	er mo							- 1	
	(Between 0-100%)	Apr '19	May '19	Jun '19	July '19	Aug '19	Sept '19	Oct '19	Nov '19	Dec '19	Jan '20	Feb '20	Mar '20
☐ Drone Brood Removal		15				15					20	20	20
☐ Screened bottom board													
☐ Small cell size comb													
☐ Powdered sugar													
☐ I made splits													
☐ I created a brood break													
□ Other, please specify:													
28* did you use any of t	he following techniques t	o try t	o cont	rol SM	ALL HI	VE BEE	TLES ir	your	coloni	es? (se	elect all	that a	oply)
☐ I did not use any technique to		•						•					
, .	What % of your colonies?	If so.	how o	often p	er mo	nth ? (6	e.a. Ma	/ 3x)					
	(Between 0-100%)	Apr	May	Jun	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar
☐ In-hive traps (Q39-40)		'19	'19	'19	'19	'19	'19	'19	'19 	'19 	'20	′20	'20
☐ Bottom board trap (Q39-40)													
☐ Soil drench													
☐ Coumaphos strips											-		
☐ Nematodes													
☐ Other, please specify:													
29 If you used a trap, who	at kind of trap?		3	0	lf you i	used a	trap, h	ow di	d you l	ait th	e trap?)	
☐ Chemical				No ba	it								
☐ Enclosure				Apple	cider v	inegar							
□ Drown				Miner	al oil								
☐ Dusting pads/cloth				Cooki	ng oil /	Vegeta	ble oil						
☐ Diatomaceous earth				Honey	/ and/o	r pollen	patty						
☐ Other, please specify:				Other	, please	specify	the BA	AIT (not	the po	ison):			

Did we say thank you yet? Thank you

31*		and April 1, 202	.U													
				es feed additives, su	ıpplen	nents	and fe	eed sti i	mulan	ts	0	Yes	01	lo (ski	p Q32	-33)
		/, of the following □ High	g did you app Fructose Corr	oly to any of your n Syrup (HFCS) lugar water, Pro-Sw	color	nies?	(selec	t all th	at app	<i>ly)</i> in sup	pleme	ent (e.			,	
□ Ho	oney (excess extract y sugar	ed) 🗆 Esser Honey-	ntial oils in su B-Healthy, Hiv	gar feed (e.g. VitaFo ve Alive, ProHealth)	eed Gr				Greas	e patt	ies (e	.g. Pro .g. Cris	sco, ve	getab	ole oil)	
	ndy (e.g. Fondant)		iotics (e.g. sur	perDFM, proDFM)					Essen	tial oil	s patt	ies (e.	g. LaF	ore)		_
⊔Ot	her, please specify:															
33 Prod	Please specify uct used	how and when you Concentration	ou used the Was this	products selected % of colonies			_	the las	-				-			
	ify brand or	(if mixed) (e.g.	amount	fed				ay 3x)		a.a	,	PP. , c	ne pre	raact	pc.	
	emade recipe)	2:1 sugar: water)	(1)	[1-100%]	Apr '19	May '19		July '19	Aug '19	Sept '19	Oct '19	Nov '19	Dec '19	Jan '20	Feb '20	Mar '20
-		watery					Ι									
_																
-																
-																
-																
-																
⁽¹⁾ W	as this amount: A:	on par with what I	⊥ usuallv feed ti	his month of the ve	ar: B :	above	what	: I usua	ıllv fee	d this	mont	h of th	e vear	: C : be	⊥ elow w	hat
	e doing great!! Magement, equipme	-		-						-			: que	en		
	4 114 2046			истоп, рошпатоп	ı, wiii	iterin;	БРІС	pana	Decit	серсі	uotiv	,.				
	veen April 1, 2019	-			1, WIII	TCCT ITTE	БРІС									
34*	-	ice of queens do			1, WIII	icei iii į	P bi c			man b						
34* □ Ne	What type or ra	ce of queens do	you use in yo □ Russian			iterin;	B bic		□ Ger		olack	,.				
34* □ Ne □ Ca □ Ita	What type or ra w World Carniolan ucasian lian	ce of queens do	you use in yo □ Russian	our operation?		iterin;	b bic		□ Ger □ Loc □ Afri	man b al sele canize	olack cted	,.				
34* □ Ne □ Ca □ Ita □ Bu	What type or ra w World Carniolan ucasian lian ckfast	ce of queens do	you use in yo □ Russian □ Varroa Sen	our operation?		temi			□ Ger □ Loc □ Afri	man b	olack cted	,.				
34* □ Ne □ Ca □ Ita □ Bu	What type or ra w World Carniolan ucasian lian	ce of queens do	you use in yo □ Russian □ Varroa Sen	our operation?		tem	P h.c		□ Ger □ Loc □ Afri	man b al sele canize	olack cted	,				
34* □ Ne □ Ca □ Ita □ Bu	What type or ra w World Carniolan ucasian lian ickfast her, please specify:	ce of queens do	you use in yo □ Russian □ Varroa Sen □ Minnesota	our operation?	1)				□ Ger □ Loc □ Afri □ I dc	man b al sele canize n't kn	olack cted ed ow		? (cho	ose oi	ne)	
34*	What type or ra w World Carniolan ucasian lian ickfast her, please specify:	ce of queens do	you use in yo □ Russian □ Varroa Sen □ Minnesota ueens that he	our operation? sitive Hygienic (VSH Hygienic	1)		your		□ Ger □ Loc □ Afri □ I do	man bal sele canize	olack cted ed ow	2019	? (cho don't l		ne)	
34* Ne Ca Ita Bu Ot 35	What type or ra ew World Carniolan ucasian lian ickfast her, please specify: How old on ave	erage were the qu	you use in yo □ Russian □ Varroa Sen □ Minnesota ueens that he - 1 year	our operation? sitive Hygienic (VSH Hygienic	1)		your	coloni	□ Ger □ Loc □ Afri □ I do	man bal sele canize	olack cted ed ow	2019			ne)	
34*	What type or ra w World Carniolan ucasian lian uckfast her, please specify: How old on ave as than 6 months	rage were the que of 6 months –	you use in you use in you use in you Russian Varroa Sen Minnesota Deens that he 1 year	our operation? sitive Hygienic (VSH Hygienic eaded a majority O1-2 years	H) (>50%	6) of y	your (coloni Older th	□ Ger □ Loc □ Afri □ I do es on	man bal sele canize	olack cted ed ow ober	2019	don't l	know		
34*	What type or ra w World Carniolan ucasian lian ickfast her, please specify: How old on ave ss than 6 months ween April 1, 2019 did you start colonies,)	rage were the que of 6 months - or obtain any nev	you use in you warroa Sen in Minnesota in Minnesota in year in yea	our operation? sitive Hygienic (VSF Hygienic eaded a majority 1 – 2 years	(>50% ucs, pa	6) of y	your (coloni Older th	□ Ger □ Loc □ Afri □ I do es on	man bal sele canize	olack cted ed ow ober	2019	don't l	know		
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34*	What type or rate world Carniolan ucasian lian lickfast her, please specify: How old on avest than 6 months ween April 1, 2019 did you start colonies,) How did you start systems If you made spli	erage were the querage were the querage of and April 1, 202 or obtain any new	you use in you warroa Sen in Wa	our operation? sitive Hygienic (VSF Hygienic eaded a majority O 1 – 2 years (include swarms, no	(>50% ucs, pa	6) of y	your (O C	coloni Older th	☐ Ger ☐ Loc ☐ Afri ☐ I do es on nan 2 y	man bal sele canize	olack cted ed ow ober	2019 O I (don't l	know Skip Q	37-39)	
34*	What type or ra ew World Carniolan ucasian lian ickfast her, please specify: How old on ave ss than 6 months ween April 1, 2019 did you start colonies,) How did you start Swarms If you made spli	erage were the query of 6 months – Defined and April 1, 202 or obtain any new Graph Splits its last year, whateen	you use in you use in you use in you use in you Russian In Your Varroa Sen In Winnesota In Your Varroa Sen I	our operation? sitive Hygienic (VSH Hygienic eaded a majority 1 - 2 years (include swarms, not select all that apply Packages een did you introc	(>50% ucs, pa	6) of y	your (O C	coloni Older th	☐ Ger ☐ Loc ☐ Afri ☐ I do es on nan 2 y	man bal sele canize	olack cted ed ow ober	2019 O I (on't l	know Skip Q	37-39)	
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34*	What type or randow World Carniolan week World Carniolan week world Carniolan week as the world on average week world on average week world on average world world you start colonies,) How did you start colonies,) How did you start world you made spling world you made spling world world you world you made spling world you made world you world you made world you made world you world yo	arage were the question of and April 1, 202 or obtain any new Splits last year, whateen ited queens (from a coreen cell (from a coreen cell (from anot	you use in you warroa Sen I warroa Sen I weens that he warroa that he warroa sen I year I year I year I colonies? (A) I t kind of que I a commercial another non-commercial process.	our operation? sitive Hygienic (VSF Hygienic eaded a majority	(>50% ucs, pa	6) of y	your (O C	coloni Older th	☐ Ger ☐ Loc ☐ Afri ☐ I do es on nan 2 y	man bal sele canize	olack cted ed ow ober	2019 O I (on't l	know Skip Q	37-39)	
34*	What type or rate w World Carniolan ucasian lian lian lian lian lian lian lian l	arage were the question of a months – of and April 1, 202 or obtain any new Splits last year, what een uted queens (from a core cell (from a not myself	you use in you warroa Sen I warroa Sen I weens that he warroa that he warroa sen I year I year I year I colonies? (A) I t kind of que I a commercial another non-commercial process.	our operation? sitive Hygienic (VSF Hygienic eaded a majority	(>50% ucs, pa	6) of y	your (O C	coloni Older th	☐ Ger ☐ Loc ☐ Afri ☐ I do es on nan 2 y	man bal sele canize	olack cted ed ow ober	2019 O I (on't l	know Skip Q	37-39)	
34*	What type or rate w World Carniolan ucasian lian lian lian lian lian lian lian l	erage were the question of 6 months - Definition and April 1, 202 or obtain any new Splits last year, whatever were deep seen cell (from a content of the cell (from a not myself sit	you use in you Russian Usernoot In Warroa Sen In Warroa	our operation? sitive Hygienic (VSF Hygienic eaded a majority	(>50% ucs, pa	6) of y	your (O C	coloni Older th	☐ Ger ☐ Loc ☐ Afri ☐ I do es on nan 2 y	man bal sele canize	olack cted ed ow ober	2019 O I (on't l	know Skip Q	37-39)	

 \square Old equipment from my operation

 $\ \square \ \text{New equipment}$

 \square Old equipment from other beekeeper(s)

Between April 1, 2019 and April 1, 2020...

40*	did you kill and/or replace the queen of any of you	our previously established o	olonies? O Vos O No (skin 041 44)
41	Generally, how often do you replace the queens in		
41		·=	choose one)
	O Never (let them re-queen on their own)	O Every year	
	O Only to correct behavior / disease susceptibility	O Twice a year	
	O Every 2 to 3 years	O More than twice a year	
42	In what percentage of your colonies did you kill and	d/or replace queens over the	□ None
	last year?		Between 0-100%
43	How did you re-queen these colonies? (select all tha	t apply)	
		uced virgin queens	☐ Introduced queen cells
		ted colony or split to rear their	own queens (natural re-queening)
	☐ Other, please specify:	· · · · ·	
44	If introduced , where did you get the queens from?	(select all that apply)	
	☐ from a commercial queen producer(s)		
	☐ from a beekeeper (non-commercial)		
	☐ I reared them myself		
	☐ Other, please specify:		
Betw	een April 1, 2019 and April 1, 2020		
45	What hive type did you use to maintain your coloni	ies? (select all that apply)	
	\square Standard Langstroth 10 frame hive bodies (even if use	less than 10 frames in it)	☐ Top bar hives
	☐ Standard Langstroth 8 frame hive bodies (even if use l	ess than 8 frames in it)	☐ Warre
	☐ Home-made (NOT Langstroth dimensions)		☐ Nucs boxes
	☐ Other, please specify:		
1.0)	2777	
46	When adding new frames, what type of foundation		
	☐ Foundation-less ☐ Wax foundation		☐ Fully drawn artificial comb
	☐ Plastic foundation ☐ Other, please sp	ресіту:	
47	On average, how old is the brood comb in your	48 On average, how n	nany brood nest frames did you replace from
	colonies? (choose one)	each colony? (choo	se one)
	O Less than 1 year old	O I did not replace a	ny frames
	O 1 – 2 years	O I only replaced bro	
	O 2 – 3 years	○ ~10% (e.g. 1 frame	
	O 3 – 4 years	○ ~20% (e.g. 2 frame	
	O 4 – 5 years	· -	ween 3 to 5 frames per brood box)
	O More than 5 years old	· -	frames (>5 frames per brood box)
	O I don't know	O I don't know	
49	Before re-using it, what did you do to the brood co		taken out of production?
	☐ I did not reuse any old brood comb	☐ I culled any particularly old	
	☐ I did not treat the comb in any particular way	☐ I fumigated the comb with	
	☐ I froze the comb	-	adichlorobenzene crystals (moth crystals)
	☐ I irradiated the comb		(
	□ Other, please specify:		
	a other, piease speemy.		
50	Generally, when you found a dead colony in your o	peration between April 1, 2	019 and October 1, 2020 (during the active
	season), you would: (choose one)		
	Note: Excluding colonies killed by AFB		
	O Immediately reused the equipment by splitting frames	s of bees/brood from other stro	ong colonies into it
	O Immediately reused the equipment by adding it to a liv	ving colony	
	O Packed up the dead out's equipment and stored it for		
	O A mixture of both, I immediately reused some and pac	cked up others	
	O I did not find dead colonies O Other, please sp		

National Colony Loss and Management Survey 51 Which of the following (other than feeding), did you use to prepare for last winter (2019-2020)? (select all that apply) ☐ I did not prepare my colonies for winter ☐ I wrapped my colonies with insulation \square I created or engaged an upper entrance ☐ I wrapped my colonies with tar paper or wintering sleeve ☐ I used an entrance reducer ☐ I placed extra insulation on top of the colonies ☐ I equalized colony strength ☐ I used mouse guards ☐ I moved my colonies to a warmer region ☐ I moved my colonies to inside wintering buildings ☐ Other (but NOT feeding), please specify: 52 What **hive type** did you use to **overwinter** the majority of your colonies? (choose one) O Standard Langstroth 10 frame hive bodies (even if use less than 10 frames in it) O Top bar hives O Standard Langstroth 8 frame hive bodies (even if use less than 8 frames in it) O Warre O Nucs boxes O Home-made (NOT Langstroth dimensions) O Other, please specify: If Langstroth, in how many hive bodies did the majority of your bees overwinter? 53 Please include number of hive bodies of each size. shallows I used: AND mediums AND How strong was your average colony on October 1, 2019 (pre-wintering)? Estimate the "frames of bees". 54 fob Note: 1 "frame of bees" = 1 Langstroth deep frame fully occupied by bees on both sides. Must be between 0 and 50. Between April 1, 2019 and April 1, 2020 ... What hest describes the **environment** around the majority of your anjary(jes)? (Consider ~3 miles radius)

What best describes the environment around the majority of your apiary (les): (consider 5 miles radius)
(select all that apply and specify the % in total area; the total should add up to 100%: e.g. Nat. 50%, Agri. 50%, Urb. 0%, Sub. 0%)
□ Natural % □ Agricultural % □ Urban % □ Suburban %
Were there any crops in proximity of the majority (>50%) of your colonies? (Consider CROPS in flying range from your apiary(ies))
O I don't know O No crop O Urban environment
O Please specify the crops :
did you harvest or remove honey from your colonies? O Yes O Not last year O I never attempt to (skip Q58-60)
If yes, how much honey did your average colony produce?
in lbs per colony
If yes, during which months did you harvest or remove honey?
In your opinion, what was/were the main nectar source(s) for your honey? (write up to 4 sources)

Between April 1, 2019 and April 1, 2020 ...

61	did you use any of your colon	ies for pollination of agric	ultural crops?	O Yes	O No (ski)	o Q62-63)
62	If yes, did you derive an income	by renting your colonies for	or pollination?	O Yes	O No	O Prefer not to say
63	If yes, which crops were you pa	id to pollinate and how ma	ny colonies did you	use for eac	h?	
Crop		# of colonies rented	Crop			# of colonies rented

Thank you for your ideas so far!

We would appreciate 10 more minutes of your time to fill out these socio-economic questions.

The better we understand beekeepers like you, through your goals and practices, the better we can target outreach and information to address barriers that beekeepers are facing and thus help improve beekeeping across the spectrum, from commercial to backyard.

Between April 1, 2019 and April 1, 2020 ...

DCtvv	een April 1, 2019 and April 1,					
64	How much total time over th that you and/or others spend	•	•	in total hours	O I don O I pref	er not to say
65	How many people (including (between April 1, 2019 and A		nies over the last year	Full–time em	olovees Part-tim	e employees
66	How much (in US \$) would yo	ou value vour average color	ny if you had to sell it at			, ,
	October	February	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	April	, , , , , , , , , , , , , , , , , , , ,	
	,	ın Ş	in \$	<u> </u>	j.	n \$
67	How much money over the la			bohydrates)?		in \$
68	How much money over the la					in \$
69	How much money over the la	ist year did you spend on t i	reatments/controls?			in \$
70	why did you keep bees? (see For pollination For queen production For package production For nuc production Other, please specify:		☐ For honey/pollen/wax☐ For honey/pollen/wax☐ For enjoyment/hobby☐ For teaching/educatio	production for		
71	were you expecting to deri O No, beekeeping is a hobby O No, but I occasionally derive a O Yes, I was expecting my beeke O Yes, I was expecting my beeke	an unpredictable income (occa eeping activities to supplemer	asional honey, wax, packa nt my income	ge)		
72	what percentage of your ar	nnual income was derived	from your beekeeping	activities? (cho	ose one)	
	O None	O I lost money	O Less than 5%		O I don't know	
	O Between 5 to 50%	O Between 51 to 90%	O Over 90%		O I prefer not to s	
73	Please indicate the range that		yearly income, before t	taxes, of all imi	mediate family livir	ng in your
	household. (Select one category	•	O 625 000 640	000	○ ¢50,000 ¢74,00	20
	O under \$25,000	O \$25,000-\$34,999	O \$35,000-\$49,		O \$50,000-\$74,99	
	○ \$75,000-\$99,999 ○ over \$250,000	○ \$100,000-\$149,999 ○ I don't know	○ \$150,000-\$19 ○ I prefer not to		O \$200,000-\$250	,000
74	Please indicate your gender:	O Tuoli t kilow	O Tprefer flot to	o say		
	· •					
75	Please indicate your age: (Sele		0.25.44		0.45.54	
	○ 18-24 years old ○ 55-64 years old	25-34 years old65-74 years old	○ 35-44 years o ○ 75-84 years o		O 45-54 years old O 85 years old or	
76	Approximately how many yea	·		nu -	O 85 years old or	oldei
					in years	s (number)
77	On average, how many years (if applicable)	nave your starr been keep	ing bees?		in years	s/person
78	How did you first learn beeke	eping?	· ·		eekeeping organiza	tion?
	(select all that apply)	1/ (1 (1	(select all the			
	☐ From a mentor beekeeper and			keeping group		
	☐ On my own (books, internet☐ From a beekeeping class (bee			ional beekeeping beekeeping orga		
	☐ Other, please specify:	group/club/master class,			any beekeeping orga	nization
			□ I prefer no		,	
90	M/hat are very primary as	os of boo books informati	on 2 (and not not to be one of a			
80	What are your primary source ☐ Other beekeepers (mentor, fr		\Box Beekeeping associated \Box		arc	
	☐ Beekeeping class	iciius, iaitiiiy, ficigiibuls)	☐ Beekeeping assoc		J	
	☐ Beekeeping club / association	/ organization meetings	☐ Suppliers (of beel		ent)	
	☐ Online (blogs, videos, media		☐ Apiary inspector			
	□ Books		☐ University Extens			
	☐ Bee journals or magazines		☐ Bee Informed Par	rtnership		
	☐ Scientific publications	☐ Other, please	specify:			

81					
	When choosing treatment or fe	eding strategies for your color	nies, would you say that y	ou: (choose o	ne)
	O Are only willing to use "bee-prod		. , ,		
	O Are only willing to use "natural"				
	O Prefer to use natural or organic	•	ynthetic products if needed		
	O Will use synthetic products if nee		, inche products il frecued		
	O Have no preference				
	O Other, please specify:				
	3 other, prease speary.				
82	Do you believe that you know w	hat Best Management Practic	ces are? O Yes	O No (ski	p Q83-84)
83	If so, do you believe that you are	e using Best Management Pra	ctices in your colonies?	(choose one)	
	O Yes, always	5	O No		
	O Sometimes		O I don't know		
	O In some hives and not others		O I don't know what bes	st practices are	<u>}</u>
	O With some aspects of beekeepin	g and not others	O I don't think best man		
84	If not always, what is stopping y	-			
	□ Not enough information		Too costly		abor-intensive
	☐ Other, please specify:				
	other, please specify.				
				You	made it! You're our he
k, let	t's wrap things up				
85	Did you take part in any of the	following monitoring efforts?	(select all that apply)		
	HIS National Honey Bee Survey (1) – –		NHBS sampling code		
			8		
□ Be	e Informed Tech Transfer Teams (1) –	→	BIP Tech Team participant	t code	
□ n.	e Informed Sentinel Apiary (1)		Cantinal Aniam, nambiainan		
⊔ ве	e informed Sentinei Apiary 🛂 – – – –	→	Sentinel Apiary participan	t code	
□ No	one of the above	☐ I prefer not to say	□ l'm ι	ınsure	
	ou participated in any of the BIP sam				
					vour narticinant code
(UDOV	ie) and/or contact information (here h				
	ve) and/or contact information (here b	pelow) so we can link your survey			
	ve) and/or contact information (here b				
	e) and/or contact information (here Ł				
	ve) and/or contact information (here b				
96		pelow) so we can link your survey i	responses with your bee hed	alth measures	?
	We may wish to contact you if v	ve have questions about your	responses with your bee hed	O Yes	O No
87	We may wish to contact you if v Would you be willing to particip	ve have questions about your ate in future beekeeping surve	responses with your bee hed responses. Is this ok? eys?	alth measures	?
87	We may wish to contact you if v Would you be willing to particip If you agree to be contacted, ple	ve have questions about your ate in future beekeeping surve	responses with your bee hed responses. Is this ok? eys? here:	O Yes	O No
87	We may wish to contact you if v Would you be willing to particip	ve have questions about your ate in future beekeeping surve	responses with your bee hed responses. Is this ok? eys? here:	O Yes	O No
87	We may wish to contact you if v Would you be willing to particip If you agree to be contacted, ple	ve have questions about your ate in future beekeeping surve	responses with your bee hed responses. Is this ok? eys? here:	O Yes	O No
87 88	We may wish to contact you if v Would you be willing to particip If you agree to be contacted, ple The Bee Informed Partnership de	ve have questions about your ate in future beekeeping surve ease enter your email address oes not share any email address	responses with your bee hed responses. Is this ok? eys? here:	O Yes O Yes	O No O No
87 88 89	We may wish to contact you if v Would you be willing to particip If you agree to be contacted, ple The Bee Informed Partnership de Did you complete this survey or	ve have questions about your ate in future beekeeping surve ease enter your email address oes not share any email address to behalf of someone else?	responses with your bee hed responses. Is this ok? eys? here:	O Yes	O No
87 88 89	We may wish to contact you if v Would you be willing to particip If you agree to be contacted, ple The Bee Informed Partnership de	ve have questions about your ate in future beekeeping surve ease enter your email address oes not share any email address to behalf of someone else?	responses with your bee hed responses. Is this ok? eys? here:	O Yes O Yes	O No O No
87 88 89 90	We may wish to contact you if v Would you be willing to particip If you agree to be contacted, ple The Bee Informed Partnership de Did you complete this survey on Is this the first year you are part	we have questions about your ate in future beekeeping survey ease enter your email address oes not share any email address in behalf of someone else?	responses with your bee hed responses. Is this ok? eys? here:	O Yes O Yes O Yes	O No O No O No, for myself
87 88 89 90	We may wish to contact you if very would you be willing to particip. If you agree to be contacted, plet The Bee Informed Partnership does not	we have questions about your ate in future beekeeping survey assess enter your email address pees not share any email address behalf of someone else? Ticipating in our survey? Survey? (select all that apply)	responses with your bee hed responses. Is this ok? eys? here:	O Yes O Yes O Yes O Yes O Yes	O No O No O No, for myself O No
87 88 89 90	We may wish to contact you if very would you be willing to particip. If you agree to be contacted, plet The Bee Informed Partnership do Did you complete this survey on is this the first year you are part. Where did you hear about this selection.	we have questions about your ate in future beekeeping surve ease enter your email address oes not share any email address behalf of someone else? icipating in our survey? survey? (select all that apply) Bee meeting	responses with your bee hed responses. Is this ok? eys? here: sses	O Yes O Yes O Yes O Yes O Yes	O No O No O No, for myself
87 88 89 90	We may wish to contact you if very would you be willing to particip. If you agree to be contacted, plet the Bee Informed Partnership does not	we have questions about your ate in future beekeeping survey assess enter your email address pees not share any email address behalf of someone else? Ticipating in our survey? Survey? (select all that apply)	responses with your bee hed responses. Is this ok? eys? here:	O Yes O Yes O Yes O Yes O Yes	O No O No O No, for myself O No
87 88 89 90	We may wish to contact you if very would you be willing to particip. If you agree to be contacted, plet The Bee Informed Partnership do Did you complete this survey on is this the first year you are part. Where did you hear about this selection.	we have questions about your ate in future beekeeping surve ease enter your email address oes not share any email address behalf of someone else? icipating in our survey? survey? (select all that apply) Bee meeting	responses with your bee hed responses. Is this ok? eys? here: sses	O Yes O Yes O Yes O Yes O Yes	O No O No O No, for myself O No
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86 87 88 89 90 91	We may wish to contact you if very would you be willing to particip. If you agree to be contacted, plet the Bee Informed Partnership does not	we have questions about your ate in future beekeeping surve ease enter your email address oes not share any email address behalf of someone else? icipating in our survey? survey? (select all that apply) Bee meeting	responses with your bee hed responses. Is this ok? eys? here: sses	O Yes O Yes O Yes O Yes O Yes	O No O No O No, for myself O No
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87 88 89 90 91	We may wish to contact you if very would you be willing to particip. If you agree to be contacted, plet The Bee Informed Partnership do not be a survey of the survey of t	we have questions about your ate in future beekeeping surve ease enter your email address oes not share any email address behalf of someone else? icipating in our survey? survey? (select all that apply) Bee meeting	responses with your bee hed responses. Is this ok? eys? here: sses	O Yes O Yes O Yes O Yes O Yes	O No O No O No, for myself O No
87 88 89 90 91	We may wish to contact you if very would you be willing to particip. If you agree to be contacted, plet The Bee Informed Partnership do not be a survey of the survey of t	we have questions about your ate in future beekeeping surve ease enter your email address oes not share any email address behalf of someone else? icipating in our survey? survey? (select all that apply) Bee meeting	responses with your bee hed responses. Is this ok? eys? here: sses	O Yes O Yes O Yes O Yes O Yes	O No O No O No, for myself O No
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87 88 89 90 91	We may wish to contact you if very would you be willing to particip. If you agree to be contacted, plet The Bee Informed Partnership do not be a survey of the survey of t	we have questions about your ate in future beekeeping surve ease enter your email address oes not share any email address behalf of someone else? icipating in our survey? survey? (select all that apply) Bee meeting	responses with your bee hed responses. Is this ok? eys? here: sses	O Yes O Yes O Yes O Yes O Yes	O No O No O No, for myself O No

Thank You!

Thank you for your time in answering our Colony Loss and Management Survey!

The Bee Informed Partnership is a non-profit organization that endeavors to decrease managed honey bee colonies losses.

By answering those questions on colony loss and management, you are helping us describe a realistic picture of the losses in the US and to better understand factors that contribute to reducing colony losses.

Results will be posted at the beeinformed.org web site as they become available.

For example, check out last year's information: https://research.beeinformed.org/survey/

