



PAPER EDITION - Pacific North West Annual Loss Survey 2022

Thank you for your participation with the 13th annual Pacific Northwest Honey Bee Loss Survey brought to YOU by Dr. Dewey Caron and Jenai Fitzpatrick.

We understand that there are other regional and national surveys out there. The Pacific North West is a unique area on the forefront of sustainable apiculture and as such it is important for the local beekeepers to know what is happening specifically in their area across Oregon and Washington. While city wide maps may be created with your data, there is no intent to publish maps or any personal data where an individual's beekeeping practices can be specifically located.

A little bit ab					
(A) Members	hip / affiliations				
(B) How did y	ou learn beekeeping and wha	at would you suggest to somebody	interested i	n becoming	one?
Poten	tial answers could be A)Bee ment	tor, B)Bee club meetings including Q&A, C	C) Books, journ	als, and magaz	ines, D) Online
readir	ng & videos, or E) any other input you	ı have			
(C) How man	y years have you been beekee	eping? <u>#</u> How many <i>active</i> co	lonies do yo	ou currently	own? _#_
Survival base	ed on different hive types (D)				
Summing all api	aries together but looking only at HI\	VE TYPE, please indicate how many of each	n hive type you	u came into last	t fall with.
Also indicate ho	w many of those hives survived thro	ugh to April of this year. (fill in _ # _ blank	ks)		
I had _#_ 8	frame & _#_ 10 frame Langst	troth hives in the fall of 2021 and $_$	#_ 8 fr. &	_#_ 10 fr. s	urvived.
	frame nucs in the fall of 2021	and _ #_ of those survived to Mar	ch/Anril 20	22	
			-		
I had <u>#</u> to	p bar hives & <u>#</u> Warre hive	es in fall of 2021 and $_\#$ top bar 8	& _#_ War	re survived.	
I had # ot	her hive types	t typeand _ # of th	nose survive	d to March/	April 2022.
	, .	s part of the study we are mapping hives to			•
land use, humar	n density and management practices.	. Although locational data for each of your			
study more robi	ust. Please only enter the address or	nearest intersection if comfortable.			
				# of hives	# of hives
Apiary	Address or Nearest Intersection	City/County	State	10/2021	4/2022
				-, -	
_					
	(-)				
Migrating hiv					
If your hives	were moved please share dista	ance and reason. For example "30 mi,	conflict w/ ne	eighbor" OR "60)0mi almonds"
Colony death	this year (H)				
In your opini	on, what factors were the mai	n cause, or causes, of colony death	in your op	eration betw	/een
October 202	1 and March/April 2022? (circle	e all that apply)			
		dies in dead hive) - Nosema disease –	Pesticides -	Moisture - Poo	or wintering
conditions - Sm	all Hive Reetles — Stanyation — Que	en failure - Varroa mites - Weak in the fa	all - Vellowia	ckets - Other	

Survival based on origination (G)

Summing all apiaries together but looking only at HIVE ORIGINATION (where the colony came from), please indicate how many of each hive origination's you had in fall and indicate how many of those hives survived through to April of this year. (fill in the# blanks) In 2021, I began with# hives that had overwintered from 2019 into 2021 and# survived to April 2022.
In 2021, I purchased#_ packages and#_ survived to March/April 2022.
In 2021, I purchased#_ nucs and#_ survived to March/April 2022.
In 2021, I caught#_ swarms and#_ survived to March/April 2022.
In 2021, I made#_ splits/divides and#_ survived to March/April 2022.
In 2021, I did# feral hive transfers/cut outs and# survived to March/April 2022.
In 2021, I did _#_ other ist other and _#_ survived to March/April 2022.
Feeding & general hive practices (Summing all apiaries together) (Ia) During the last bee season (April 1st 2021 to March 31st 2022) I did the following FEEDINGS: (circle all that apply) Frames of honey — liquid honey — Frames of pollen — Pollen patties — dry pollen — Sugar syrup — Corn syrup — Drivert sugar Dry sugar — Fondant sugar — Hard sugar (candy) — none of above — Other (list)
(Jb) Which mite monitoring method(s) did you use? (circle all that apply & circle months used) 1. Mite Drop (sticky boards or other collection tray below hive) JAN – FEB – MAR – APR – MAY – JUN – JUL – AUG – SEP – OCT – NOV - DEC 2. Alcohol Wash (shake/roll separating to count) JAN – FEB – MAR – APR – MAY – JUN – JUL – AUG – SEP – OCT – NOV - DEC 3. Powdered Sugar (shake/roll separating to count) JAN – FEB – MAR – APR – MAY – JUN – JUL – AUG – SEP – OCT – NOV - DEC 4. Visual inspection of drone brood JAN – FEB – MAR – APR – MAY – JUN – JUL – AUG – SEP – OCT – NOV - DEC 5. Visual inspection of adult bees JAN – FEB – MAR – APR – MAY – JUN – JUL – AUG – SEP – OCT – NOV - DEC 6. Other
(K1a) Did you sample and not treat? (circle one) Yes - No
(K1b) Did you sample and treat? (circle all that apply) Pre-treatment - Post-treatment - Both
Medication and treatments (circle all that apply) (K2) During the last bee season, I did the following non-chemical mite control practices: Minimal hive inspection/intervention - Requeen with hygienic queens - Brood cycle interruption - Drone brood removal - Screen bottom board - Provided hives with distinctive colors - Reduce drifting by spreading out colonies in apiary/other measures - Small cell/Natural comb - Powder sugaring - None of these - Other (list)

(L) Which, if any, of the following mite control treatment products did you apply to your colonies during the last
bee season (April 1st 2021 to March 31st 2022) ?
None - Apivar - ApiGuard - ApiLife Var - Coumaphos (CheckMite+) - Fluvalinate (including Apistan) - Formic Acid
(MiteAway QuickStrips) - Formic Pro - HopGuard II - Oxalic Acid (Vaporization) - Oxalic Acid (drizzle) - Oxalic Acid (other) -
Powdered sugar - Mineral oil - MiteAThol (menthol tracheal mite) - Other herbal treatments - Other (list)
If you used Apivar what months did you use it? JAN - FEB - MAR - APR - MAY - JUN - JUL - AUG - SEP - OCT - NOV - DEC
If you used an oil (ApiGuard/Apilife-Var) what months did you use it? JAN – FEB – MAR – APR – MAY – JUN – JUL – AUG – SEP – OCT – NOV - DEC
If you used an acid (MAQS, Oxalic, HopGuard) when did you use it? JAN - FEB - MAR - APR - MAY - JUN - JUL - AUG - SEP - OCT - NOV - DEC
If you used another chemical <u>list_other</u> what months did you use it? JAN - FEB - MAR - APR - MAY - JUN - JUL - AUG - SEP - OCT - NOV - DEC
(M) Which, if any, of the following bacterial brood disease control products did you apply to your colonies
during the last bee season? Terramycin - Tylosin (Tylan) - None - Other
(N) Which, if any, of the following nosema control products did you apply to your colonies during the last bee
season? Fumagilin (Fumadil B) - Nosevet - None - Other
Queens
(Pa) What percentage of colonies lost due to queen problems? (Pb) Marked queens? Yes - No
(Pc) Did you, or did your hive, requeen in any form during the last bee season? No - Not that I'm aware of - Yes
(Q) How? (circle all that apply) Introduced mated queen - Virgin queen introduction - Queen cells - Supercedure occurred - Split
hive, allowed colony create new queen - Colony swarmed – other
(R) Do you extract any products from the hive? wax - pollen - propolis - royal jelly - venom - honey
Closing thoughts
Do you have any questions or concerns about this survey or wish to share with us any additional information on
your overwinter successes/losses?
Options for successfully submitting your hive data! Survey responses will be collected March 15th to May 1st!
1-Please complete this survey at meeting and hand in at end of evening
2-Preferably you can complete an electronic survey located online at www.pnwhoneybeesurvey.com/survey
(It will take about 10-15 minutes & you submit at the end by hitting submit button)
3- Scan and email to info@pnwhoneybeesurvey.com
4-Take this paper home, confirm your numbers, complete the survey and then return (before end of April) via US
mail to Dr. Dewey M. Caron - Dept. of Horticulture, OSU, ALS 4017 - Corvallis OR 97331
Information obtained from this survey will be available as quickly as possible
Results of this survey will be made available following summation & analysis and the will be presented at
participating beekeeper organizations, newsletters, and posted in full at www.pnwhoneybeesurvey.com.
If you have any questions or concerns about this survey contact us at info@pnwhoneybeesurvey.com If we have