

BEEHIVE INSPECTION SHEET:				Location/Hive Id/Type:				Date:			
Spring Summer Fall Winter		Colony strength: Strong Medium Weak		Queen /Yr/Type:				Time:			
Inspection PURPOSE:		In Bloom:		Queen Marking:				Temp:			
				Conditions: Nectar Flow / Dearth				Humidity:			
				Weather prior week: Normal /Hot /Cold /Humid /Dry /Rainy /Windy /Stormy							
1. HONEY BEE ACTIVITY/ BEHAVIOR CHECK (Observe bees outside (including flight pattern), at the entrance & ground under, inside the hive)											
Bee Temperament:		Calm Moderate Aggressive		NOTES:							
Bees Activities Outside:		Cleansing Pollen/Nectar/Water gathering		Orientation flight Robbing Swarming Bearding Fanning Guarding Washboarding							
↓ Light → Moderate ↑ Heavy		Bees on the ground or entrance: Crawling Shaking Disoriented Dying w/ tongue out Defecation stains: Inside/ Outside									
Bee Activities Inside:		Pollen/Nectar packing Honey ripening Hygienic behavior Comb building Festooning Dancing: Round /Waggle/ Tremble									
NOTES:											
2. HONEY BEE COLONY INSPECTION (Inspect Brood boxes & supers if applicable. Use Detail Colony Assessment sheet on the back side for details)											
Bee Population (# of bees):		↓ Light (<15K) → Moderate (15-40K) ↑ Heavy (>40K)				Total Est. FOB (Frames of Bees):					
Y/ N	Queen Evidence:	Queen seen Eggs present Larva present Capped brood Queen Caged /Brood break since: / Drone Layer Laying workers									
	Capped Brood Pattern:	Good (solid/uniform) Fair (little spotty) Poor (very spotty) Chewed Bold Brood Drone brood only Brood frames #:									
Y/ N	Swarm / Supersedure:	Swarm Prep: Overcrowded Honey bound Excess Drones Swarm Cell(s) # ___ Supersedure/Emergency Cell (mid frame)									
	Is Re-Queening required? Y / N	Is Swarm watching required? Y / N		Is Hive Split required? Y / N		Is Hive equalizing required? Y / N					
NOTES:											
3. FOOD STORES CHECK (Inspect Brood boxes and supers if applicable to ensure Bees have sufficient amount of food for healthy colony)											
Y/ N	Sufficient Pollen/Bee Bread Stores?	High / Medium / Low		# of Frames:		Near Brood? Y / N		Abundant Royal Jelly? Y / N			
Y/ N	Sufficient Honey/Nectar Stores?	High / Medium / Low		# of Frames:		Near Brood? Y / N		NOTES:			
Supplemental Feed: sugar syrup 1:1 or 2:1 (fall), sugar cake, foundant, dry sugar, winter paty, pollen patty, dry pollen											
	Is Supplemental feeding needed? Y / N	Add/Remove honey supers? Y / N		Need to re-arrange: Frames/ Honey Supers/ Brood boxes? Y / N							
4. BEE HEALTH/ DISEASE/ PESTS CHECK (Inspect Brood boxes to ensure health of the colony) Follow Integrated Pest Management (IPM)											
Visual Inspection of adult Bees: OK (normally looking and behaving adult bees and white shiny larvae) Bees with deformed or "K" wings											
Bees with shortened abdomens Greasy hairless, black bees Crawling, disoriented or shaking bees on the ground Dead bees with nongues out											
Visual Inspection of the Brood: OK Spotty brood pattern Chewed/ Perforated brood cappings Chewed brood Discoloured, non-white shiny larvae											
Twisted Larvae Chalkbrood Sunkened cappings Smelly Brood Dead bees Defecation stains inside the hive Webbing in the brood SHB or Wax Moth Larvae											
Varroa Mites Testing:		Alcohol wash/Sugar roll - acceptable treshold per 1/2 cup/300 bees is <= 2% (6 mites Apr-Jul) or <= 3% (9 mites Aug-Oct)									
(Test monthly, Treat if needed)		Sticky Board check- acceptable treshold per 24h is 8 mites (Apr-Jul), 12 mites (Aug-Oct). Check screen bottom board weekly									
Y/ N	Excess Varroa Mites present?	Test Date	Count#	V.Mite Treat/Result:		Test Date	Count#	V.Mite Treat/ Result:			
Y/ N	Small Hive Beetles (SHB) present?	4/				8/					
Y/ N	Brood Disease (Chalkbrood, EFB) present?	5/									
Y/ N	Adult Bee Disease (Nosema, viruses) present?	6/				9/					
Y/ N	Other Pests (wax moth, ants, wasps) present?	7/				10/					
	Is Pest management required? Y / N					12/		O.A. Vapors			
NOTES:											
5. HIVE CONDITION CHECK (Inspect the Hive structure and individual Frames and Comb conditions)											
Burr/ Brace Comb? Y/N Excessive Propolis? Y/N Moisture/Mold present? Y/N Odor: Normal / Foul Old /Wacky comb? Y/N Frame #:											
	Equipment damaged/need Replacement? Y / N	NOTES:									

BEEHIVE ASSESMENT SHEET:

Season: Spring Summer Fall Winter

Number of Bee Frames:

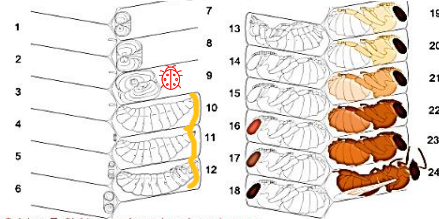
Detail Colony Assessment Report:

Twice a year (spring & late summer/fall) perform **detail colony assessment**. Indicate areas on the frames occupied by bee food and brood. Use it to outline location of the cluster in the winter. Mark old frames for replacement. Use a Letter to indicate the location of various items found on each frame. Add percentage number (%) to quantify the approximate amount of each item (i.e. **H80** = 80% of frame is taken by Honey).

Found on Frames:

Stores:	P	Pollen
	N	Nectar (uncapped)
	H	Honey (capped)
Frames:	C	Comb - empty (built wax cells)
	F	Foundation (undrawn comb)
	XX	Old/ Wacky Frame - to be replaced
	DF	Drone Frame (Full, 1/2, 1/8 cutouts) *X
Brood:	BE	Brood-Eggs (3 days)
	BU	Brood-Uncapped/Larva (5-6 days)
	BC	Brood-Capped/Pupae (8-14 days)
	BD	Brood-Drone
	BDU	Brood-Drone Uncapped
	BDC	Brood-Drone Capped (/ /) *X
	BDX	Brood-Drone for Removal *X
Queen:	Q	Queen
	QCS	Queen Cell Swarming (#:)
	QCE	Queen Cell Emergency/Supersedure

*X Varroa Mite control using Drone brood uncapping /removal (done within 13 days post capping)

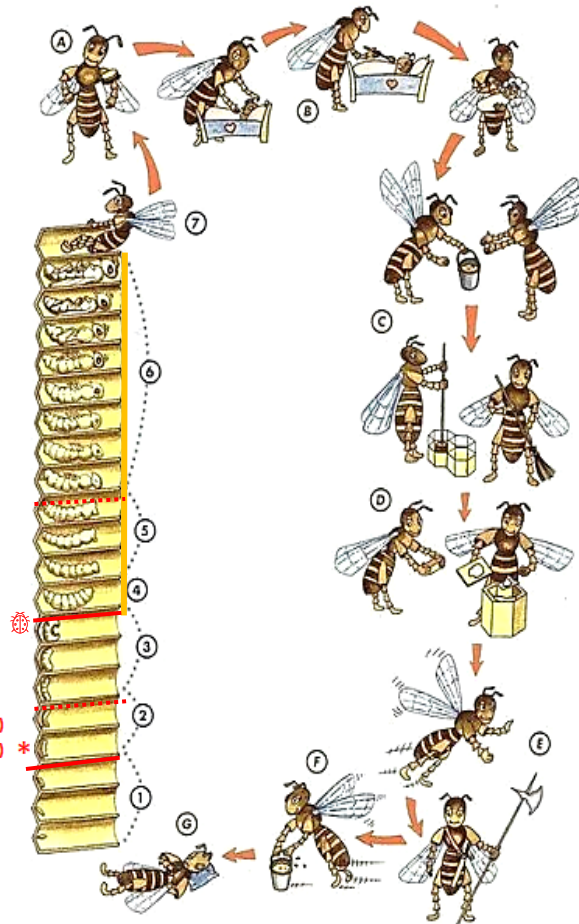


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<https://www.ars.usda.gov>

	Queen	Worker	Drone
Egg	1	1	1
	2	2	2
	3	3	3
	4	4	4
Larvae	5	5	5
	6	6	6
	7	7	7
	8	8	8
	9	9	9
	10	10	10
Pupae	11	11	11
	12	12	12
	13	13	13
	14	14	14
	15	15	15
Emerge	16	16	16
	17	17	17
	18	18	18
	19	19	19
	20	20	20
	21	21	21
	22	22	22
	23	23	23
	24	24	24

* Best larva for Queen grafting
 *X Varroa mite hides in the cell
 *X Varroa Mite control using Drone brood Removal or Testing

Worker Bees LIFE CYCLE and the ROLES performed:**BROOD (immature bees):**

- 1 Egg, hatches day 3 into Larvae
- 2 Larvae, young- small, fed *Royal Jelly* (day 4 * is best for Queen grafting)
- 3 Larvae, old - fat white grubs, fed *Bee Bread* (use frame for mite check)
- 4 Larva is **Capped**, transforms into Pre-Pupae
- 5 Pre-Pupae, spins cocoon
- 6 Pupae, goes thru metamorphosis, develops into adult worker bee
- 7 Day 21 - Adult Worker bee, emerges

In-HIVE Bees:

- Nurse Bees**
- A Days 1-2 **Clean** cells, **Warm** brood
 - B Days 3-5 **Feed** older Larvae (pollen bread)
 - Days 6-15 **Feed** younger Larvae & Queen (produces Royal jelly) **Distribute** queen pheromone (**Communication**)
 - C Days 12-17 - **Receive**, **Transport** & **Store** food in the hive, **Make** pollen bread. **Termoregulate**
 - D Days 12-17 - **Produce** wax, **Build** comb
 - E Days 18-21 - **Learn to fly**. **Make orientation flights**. **Guard** the colony. **Remove** dead bees

FIELD Bees:

- Foraging Bees**
- F Days 22-End - **Forage** for nectar, pollen, water & resins (propolis). **Scout** for food & nest sites
 - G End of life - **Summer** bees live approx. 4-6 weeks; **Winter** bees 4-6 months