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# Feeding in Winter





# Survival Essentials

- Shelter
- Dry Hive
- Food
- Honey and Pollen
- Health
- Fat Bees – Little to no Virus

# Enough Food? How Do You Know?

- Records from Late Fall
- Hive Weight

# Components for Weighing a Hive



# Hive Weight Example

Hive	Config	Dec Wt	Lbs x 2	Compnt Wt	W/O BB?	Honey	Jan Wt	Honey	Delta
Garden North	DDWG	47	94	63.9		30	46	28	2
Goldie	DDWT	40	80	60.0		20	45	27	-7
Hernan	DDWT	45	90	60.0		30	43	26	4
Skyhawk	DDWP	54	108	57.1		51	52	47	4
Tomcat	DDWP	58	116	57.1		59	57	57	2
Hornet	DDWP	50	100	52.1	Yes	48	49	46	2
Phantom	DDWP	55	110	72.1		38	54	36	2
Small Swarm	DDWT	62	124	60.0		64	60	60	4
Lilac 1	DDWT	57	113	60.0		53	56	52	1
Lilac 2	DDWT	51	101	60.0		41	50	40	1
HPI	DDWT	55	110	60.0		50	54	48	2
Amylase	DDSWT	53	106	74.9		31	60	45	-14
Barnase	DDWT	47	94	60.0		34	46	32	2
Cellulase	DDWT	48	96	60.0		36	44	28	8
Raspberry 1	DSSWG	58	116	69.5		47	57	45	2
Middle	DDSWT	61	122	74.9		47	60	45	2
Garden 2	DDSWT	57	114	74.9		39	55	35	4
Garden 1	DDWT	44	88	55.0		33	41	27	6

## Component Weights

Item	Abbreviation	Weight in Ounces	Multiplier	Total Weight lbs.	Config	Weight
Deep Box	D	139.2	1	8.7	<b>DDWT</b>	<b>60.0</b>
Deep Drawn Frame		18.7	10	11.7	<b>DDSWT</b>	<b>74.9</b>
Garden Lid	G	153	1	9.6	<b>DDWG</b>	<b>63.9</b>
Inner Cover	I	38	1	2.4	<b>DDWP</b>	<b>57.1</b>
Plastic Super Lid	P	45	1	2.8	<b>DDSWP</b>	<b>72.1</b>
Super Box	S	113	1	7.1		
Super Drawn Frame		12.6	10	7.9		
Telescoping Lid	T	91	1	5.7		
Wintering Inner Cover	W	56.4	1	3.5		
Bottom Board	B	190	1	5		
Bee Weight				5		

Measured Weight x 2 = Hive Weight

Hive Weight – Component Weight (plus bee weight) = Honey Weight





No Time to Weigh?

- Put on a Candy Board
- Put Frames of Honey in a Hive Box on Top of Hive (under inner cover)
- Pour Sugar in Top of Inner Feeder
  - Do Not Block Airflow
  - May Need Spacer
- Fondant