

2018 temperature study

DATE ; 2018	ChirpyNest Box Temperature F w/Pre-nest		Supergourd UnVented Temp F w/Pre-nest		Difference
	Max Temp	Minimum Temp	Max Temp	Minimum Temp	
May 9, 2018	81.1	56.0	86.0	56.0	-4.90
May 10, 2018	79.8	52.5	81.2	52.7	-1.40
May 11, 2018	83.1	51.9	87.4	51.9	-4.30
May 12, 2018	85.3	52.7	90.8	52.8	-5.50
May 13, 2018	84.7	52.4	89.5	52.3	-4.80
May 14, 2018	91.0	56.6	93.4	56.6	-2.40
May 15, 2018	83.8	59.8	85.9	59.7	-2.10
May 16, 2018	68.8	59.6	72.7	58.6	-3.90
May 17, 2018	81.2	64.4	91.3	63.5	-10.10
May 18, 2018	78.3	56.9	83.8	56	-5.50
May 19, 2018	80.1	60.1	85.6	57.2	-5.50
May 20, 2018	83.9	58.5	91.9	57.1	-8.00
May 21, 2018	80.9	58.2	84.5	55.7	-3.60
May 22, 2018	81.9	58.6	89.8	57.1	-7.90
May 23, 2018	82	57.5	91	56.3	-9.00
May 24, 2018	82.7	57.1	91.5	56.1	-8.80
May 25, 2018	84.7	62.1	91.4	57.3	-6.70
May 26, 2018	80.7	65.8	89.0	61.8	-8.30
May 27, 2018	85.8	65.2	92	60.2	-6.20
May 28, 2018	77.8	67.8	81.4	64.7	-3.60
May 29, 2018	79.3	69.5	80.3	65.9	-1.00
May 30, 2018	84.2	67.6	90.5	63.7	-6.30
May 31, 2018	85.6	65.4	92.6	60.1	-7.00
	Average temp difference between Chirpynest and unvented supergourd				-5.51
	ChirpyNest Temperature F W/ pre-nest		Air Temperature F		
	Max Temp	Minimum Temp	Max Temp	Minimum Temp	
	Did not record June due to Wedding prep.				
Jul 1, 2018	96.0		96.1		-0.10
Jul 2, 2018	96.3		96.1		0.20
Jul 3, 2018	99.4		98.4		1.00
Jul 4, 2018	95.5		95.5		0.00
Jul 5, 2018	95.4		94.8		0.60
Jul 6, 2018	88.3		88.1		0.20

	Average temp difference between Chirpynest and outside air				0.32	
	ChirpyNest Box Temperature F w/ pre-nest			Supergourd UnVented Temp F w/ pre-nest		
	Max Temp	Minimum Temp		Max Temp	Minimum Temp	
Jul 7, 2018	81.7			85.6		-3.90
Jul 8, 2018	88.6			93.7		-5.10
Jul 9, 2018	92.5			96.7		-4.20
Jul 10, 2018	94.1			98.6		-4.50
Jul 11, 2018	93.4			96.9		-3.50
Jul 12, 2018	93.5			97.3		-3.80
Jul 13, 2018	91.0			96.4		-5.40
Jul 14, 2018	97.2			102.4		-5.20
Jul 15, 2018	94.6			98.3		-3.70
Jul 16, 2018	91.4			96.4		-5.00
Jul 17, 2018	89.2			95.5		-6.30
Jul 18, 2018	89.2			94.5		-5.30
Jul 19, 2018	85.6			90.1		-4.50
Jul 20, 2018	86.5			89.5		-3.00
Jul 21, 2018	85.9			91.7		-5.80
Jul 22, 2018	79.2			83.8		-4.60
Jul 23, 2018	89.2			96		-6.80
Jul 24, 2018	86.8			90.1		-3.30
Jul 25, 2018	85.8			91.4		-5.60
Jul 26, 2018	92.4			96.7		-4.30
Jul 27, 2018	89.1			92.9		-3.80
	Average temp difference between Chirpynest and UNVENTED supergourd				-4.65	
	ChirpyNest Box w/ used nest			Troyer Horiz w/ used nest		
	Probe is suspended 3 inches above nest in center of nest area of cavity					
	Openings face 330 Degree NW					
	Max Temp. F	Minimum Temp F		Max Temp F	Minimum Temp F	
Jul 28, 2018	85.9	60.1		90.9	60.2	-5
Jul 29, 2018	91.2	64.8		95.4	64.3	-4.2
Jul 30, 2018	90.6	63.3		93.6	62.7	-3
Jul 31, 2018	89.4	64.8		93.4	64.7	-4
Aug 1, 2018	78.1	63.0		82.0	63.1	-3.9
Aug 2, 2018	77.9	64.9		80.4	65.2	-2.5
Aug 3, 2018	85.4	59.8		91.4	59.7	-6
Aug 4, 2018	91.3	59.7		95.1	59.87	-3.8

Aug 5, 2018	95	58.6		97.9	57.5	-2.9
Aug 6, 2018	91.4	62.6		94.8	61.3	-3.4
Aug 7, 2018	93.2	60.9		96.0	59.9	-2.8
Aug 8, 2018	87.7	65.8		90.1	64.8	-2.4
Aug 9, 2018	88.7	63.8		90.6	63.0	-1.9
Aug 10, 2018	86.5	63.2		90.8	62.7	-4.3
Aug 11, 2018	88.3	63.6		91.8	62.7	-3.5
Aug 12, 2018	86.9	54.9		89.6	53.9	-2.7
Aug 13, 2018	86.2	54.6		89.9	53.7	-3.7
Aug 14, 2018	86.9	56.4		90.8	55.5	-3.9
Aug 15, 2018	91.0	56.4		94.1	55.5	-3.1
Aug 16, 2018	93.5	58.6		95.8	57.2	-2.3
Aug 17, 2018	90.5	67		92.8	66.1	-2.3
Aug 18, 2018	81.1	68.1		84.6	67.0	-3.5
Aug 19, 2018	86.9	66.2		90.1	65.3	-3.2
	Average temp difference between ChirpyNest and unvented Troyer horiz gourd					-3.4
	Outside Air Temp.			ChirpyNest Box Temperature F w/ used nest		
	Max Temp	Minimum Temp		Max Temp	Minimum Temp	
Aug 20, 2018	90.4	64.8		88.5	65	-1.90
Aug 21, 2018	86.4	65.7		83.4	65.8	-3.00
Aug 22, 2018	84.5	48.1		81.0	47.0	-3.50
Aug 23, 2018	89.2	48.8		85.8	47.7	-3.40
Aug 24, 2018	92.3	49.9		87.8	49.1	-4.50
Aug 25, 2018	90.1	56.7		88.1	56.6	-2.00
Aug 26, 2018	97.2	59.1		94.6	59.1	-2.60
Aug 27, 2018	98.7	59.1		95.4	59.1	-3.30
Aug 28, 2018	95.7	60.3		94.2	59.9	-1.50
Aug 29, 2018	96.4			94.8		-1.60
	Average temp difference between ChirpyNest and air temp.					-2.73

	UNVENTED supergourd w/ used nest		Lid Vented superGourd w/ used nest		
Both with used nest from 2018					
Aug 30, 2018	99.9		98.1		1.80
Aug 31, 2018	100.0		97.8		2.20
Sep 1, 2018	99.2		97.2		2.00
Sep 2, 2018	99.3		99.9		-0.60
Sep 3, 2018	97.5		96.8		0.70
Sep 4, 2018	98.9		98.2		0.70
Sep 5, 2018	95.6		93.9		1.70
Sep 6, 2018	98.6		97.3		1.30
Sep 7, 2018	98.0		97.6		0.40
average difference between unvented and vented supergourd					1.13
	Outside Air Temp.		Lid Vented superGourd w/ used nest		
Sep 8, 2018	97.1		96.3		0.80
Sep 9, 2018	95.0		92.3		2.70
Sep 10, 2018	89.9		85.2		4.70
Sep 11, 2018	93.3		89.2		4.10
Sep 12, 2018	93.5		91.4		2.10
Average temp difference between air and vented supergourd					2.88
	Outside Air Temp.		Unvented Supergourd w/ used nest		
Sep 14, 2018	97.0		95.4		1.60
Sep 15, 2018	92.3		92.2		0.10
Sep 16, 2018	87.9		83.8		4.10
Sep 17, 2018	75.6		73.7		1.90
Sep 18, 2018	90.1		90.4		-0.30
Sep 19, 2018	95.8		94.5		1.30
Sep 20, 2018	96.3		96.4		-0.10
Sep 21, 2018	93.6		93.8		-0.20
Sep 22, 2018	92.7		93.0		-0.30
Sep 23, 2018	91.5		90.4		1.10
Sep 24, 2018	86.6		85.1		1.50
Sep 25, 2018	86.2		85.7		0.50
Sep 26, 2018	75.6		74.7		0.90

Sep 27, 2018	77.9		78.2		-0.30
	Average temp difference between air and unvented supergourd				0.84
	ChirpyNest with sensor on nest surface		Vented lid supergourd with sensor on nest surface		
Sep 28, 2018	84.7		83.9		0.80
Sep 29, 2018	79.4		82.9		-3.50
Sep 30, 2018	81.9		83.5		-1.60
Oct 1, 2018	86.5		90.4		-3.90
Oct 2, 2018	78.5		78.7		-0.20
Oct 3, 2018	84.0		85.5		-1.50
Oct 4, 2018	84.7		87.0		-2.30
Oct 5, 2018	85.0		87.3		-2.30
Oct 6, 2018	88.4		91.9		-3.50
Oct 7, 2018	89.2		92.0		-2.80
	Average temp difference between Chirpynest and vented supergourd				-2.08
	ChirpyNest with sensor on nest surface		THG vented sensor on surface		
Oct 8, 2018	86.2		88.6		-2.40
Oct 9, 2018	77.5		78.4		-0.90
Oct 10, 2018	75.2		75.1		0.10
Oct 13, 2018	59.6		63.2		-3.60
Oct 14, 2018	67.9		66.2		1.70
Oct 15, 2018	75.9		76.3		-0.40
Oct 16, 2018	63.2		63.6		-0.40
Oct 17, 2018	65.7		66.7		-1.00
Oct 18, 2018	63.9		65.4		-1.50
	Average temp difference between Chirpynest and vented Troyer horizontal gourd				-0.93