

2019 Maximum temperatures

DATE:	Air	ChirpyNest 1 Center Probe	Difference CN1 max - air max	ChirpyNest 2. Center Probe	Difference cn2 max - air max	Troyer Horiz. VENTED	Difference THG vent max - air max	Vertical gourd NO vent. Center probe	Difference VG max - air max	TroyerHoriz NO vent Center Probe	Difference THG max - air max
	Max Temp	Max Temp	from air	MAX Temp	From air	Max temp	From air	MAX Temp	from air	Max Temp	From air
3/17/19	61.0	57.6	-3.4								0.0
3/18/19	56.0	52.3	-3.7								0.0
3/19/19	56.5	52.3	-4.2								0.0
3/20/19	68.4	64.1	-4.3								0.0
3/21/19	55	52.9	-2.1								0.0
3/22/19	63.9	60.8	-3.1								0.0
3/23/19	65.6	60.4	-5.2								0.0
3/24/19	76.1	72.9	-3.2								0.0
3/25/19	56.8	53.8	-3.0								0.0
3/26/19	61.9	55.7	-6.2								0.0
3/27/19	69.7	64.5	-5.2								0.0
3/28/19	71.4	70.6	-0.8								0.0
3/29/19	70.7	70.6	-0.1								0.0
3/30/19	81.5	79.3	-2.2	80.5	-1.0	83.9	2.4				0.0
3/31/19	55.1	53.2	-1.9	54.2	-0.9	56.4	1.3				0.0
				Vent taped 4/04		Horiz. w/ LID vent					
4/1/19	57.6	54.5	-3.1	54.8	-2.8	57	-0.6				0.0
4/2/19	61.8	61.3	-0.5	61.5	-0.3	65.8	4.0				0.0
4/3/19	70.2	69.4	-0.8	69.3	-0.9	73.5	3.3				0.0
4/4/19	82.6	81.1	-1.5	83.3	0.7	84.8	2.2				0.0
4/5/19	71.1	70.2	-0.9	74.2	3.1	77.3	6.2				0.0
4/6/19	78.6	78.7	0.1	80.9	2.3	83.8	5.2				0.0
4/7/19	76.9	76.5	-0.4	80.2	3.3	82.4	5.5				0.0
4/8/19	80.6	77.7	-2.9	80.6	0.0	82.9	2.3				0.0
4/9/19	82.5	80.8	-1.7	82.6	0.1	83.6	1.1				0.0
4/10/19	82.5	81	-1.5	82.4	-0.1	83.9	1.4				0.0
4/11/19	81.9	81.9	0.0	84.5	2.6	86.8	4.9				0.0
4/12/19	85.3	82.2	-3.1	83.4	-1.9	83.4	-1.9				0.0
4/13/19	77	73	-4.0	75	-2.0	77	0.0				0.0
4/14/19	78.3	76	-2.3	77.7	-0.6	78.3	0.0				0.0
4/15/19	62.7	59.3	-3.4	62.5	-0.2	64.9	2.2				0.0
4/16/19	81.4	80.6	-0.8	81.6	0.2	83.1	1.7				0.0
4/17/19	82.7	81.8	-0.9	83.1	0.4	84.3	1.6				0.0
4/18/19	87.4	87.4	0.0	90	2.6	91.3	3.9				0.0
4/19/19	68.5	66.4	-2.1	65.9	-2.6	65.9	-2.6				0.0
4/20/19	56.1	55.2	-0.9	55.1	-1.0	55.3	-0.8				0.0
4/21/19	65.6	64.1	-1.5	67.8	2.2	68.7	3.1				0.0
4/22/19	83.6	80.5	-3.1	82.7	-0.9	82.5	-1.1				0.0
4/23/19	84	83.8	-0.2	84.9	0.9	86.8	2.8				0.0
4/24/19	84.7	85.3	0.6	87.2	2.5	88.8	4.1				0.0
4/25/19	84.7	84	-0.7	87	2.3	89.7	5.0				0.0
4/26/19	67.5	65.6	-1.9	69.2	1.7	71.2	3.7				0.0
4/27/19	74.1	74.6	0.5	76.6	2.5	78	3.9				0.0
4/28/19	85.6	84.7	-0.9	86.2	0.6	85.6	0.0				0.0
4/29/19	88.3	87.1	-1.2	89.2	0.9	94.4	6.1				0.0
4/30/19	90.8	89.7	-1.1	91.4	0.6	92.4	1.6				0.0
		Mar/Apr Avg	-2.0	Mar/apr AVG	0.4	Mar/Apr avg	2.3				
	Air Temp MAX	Standard ChirpyNest w/ nest		Vent open no nest		2 vents LID and Rear Vent W/ nest		No Vent Vert NO nest		No vent Horiz NO nest	
5/1/19	91.6	91.2	-0.4	90.9	-0.7	92.3	0.7				0.0
5/2/19	90.9	92.3	1.4	91.8	0.9	93.8	2.9				0.0
5/3/19	90.7	90.8	0.1	91.5	0.8	92.7	2.0				0.0
5/4/19	88.6	88	-0.6	87.8	-0.8	90.1	1.5				0.0
5/5/19	79.5	76.8	-2.7	78.0	-1.5	78.3	-1.2				0.0

DATE:	Air	ChirpyNest 1 Center Probe	Difference CN1 max - air max	ChirpyNest 2. Center Probe	Difference cn2 max - air max	Troyer Horiz. VENTED	Difference THG vent max - air max	Vertical gourd NO vent. Center probe	Difference VG max - air max	TroyerHoriz NO vent Center Probe	Difference THG max - air max
	Max Temp	Max Temp	from air	MAX Temp	From air	Max temp	From air	MAX Temp	from air	Max Temp	From air
5/6/19	85	81.5	-3.5	81.8	-3.2	83.3	-1.7				0.0
5/7/19	88.3	87.6	-0.7	87.5	-0.8	88.8	0.5				0.0
5/8/19	92.3	91.7	-0.6	91.5	-0.8	93.1	0.8				0.0
5/9/19	87.9	85.8	-2.1	85.7	-2.2	87.1	-0.8				0.0
5/10/19	88.3	87.8	-0.5	88.0	-0.3	88.9	0.6				0.0
5/11/19	77.2	75.8	-1.4	76.5	-0.7	77.5	0.3				0.0
5/12/19	76.5	70.0	-6.5	70.8	-5.7	70.9	-5.6				0.0
5/13/19	70.5	69.3	-1.2	69.4	-1.1	70.8	0.3				0.0
5/14/19	72.7	69.8	-2.9	70.5	-2.2	71.5	-1.2				0.0
5/15/19	76.6	74.7	-1.9	74.8	-1.8	77.2	0.6	77.1	0.5	78.4	1.8
5/16/19	82.6	81.6	-1.0	81.6	-1.0	83.5	0.9	83.8	1.2	85.0	2.4
5/17/19	89.9	88.2	-1.7	88.5	-1.4	89.4	-0.5	90.8	0.9	91.6	1.7
5/18/19	95.7	93.5	-2.2	93.9	-1.8	94.6	-1.1	95.5	-0.2	96.5	0.8
5/19/19	93.2	92.7	-0.5	92.6	-0.6	94.7	1.5	95.2	2.0	96.3	3.1
5/20/19	88.6	86.8	-1.8	86.5	-2.1	89.0	0.4	89.5	0.9	91.0	2.4
5/21/19	94.6	92	-2.6	92.3	-2.3	93.4	-1.2	93.8	-0.8	94.7	0.1
5/22/19	95.2	92.3	-2.9	93.5	-1.7	93.8	-1.4	93.8	-1.4	94.6	-0.6
5/23/19	91.9	91.4	-0.5	91.3	-0.6	92.9	1.0	93.5	1.6	94.7	2.8
5/24/19	95.1	94.7	-0.4	94.7	-0.4	97.0	1.9	96.7	1.6	98.3	3.2
5/25/19	95.4	94.9	-0.5	95.0	-0.4	96.3	0.9	96.9	1.5	98.1	2.7
5/26/19	95.1	96.1	1.0	95.9	0.8	97.3	2.2	97.8	2.7	99.1	4.0
5/27/19	93.2	92.6	-0.6	92.4	-0.8	95.0	1.8	95.0	1.8	96.5	3.3
5/28/19	93.5	92.2	-1.3	92.3	-1.2	93.1	-0.4	93.8	0.3	94.9	1.4
5/29/19	92.9	93.2	0.3	92.8	-0.1	94.1	1.2	95.0	2.1	96.1	3.2
5/30/19	95.4	93.2	-2.2	93.8	-1.6	94.1	-1.3	94.6	-0.8	95.6	0.2
5/31/19	85.2	85.4	0.2	85.4	0.2	87.6	2.4	88.7	3.5	89.8	4.6
			-1.3	May avg	-1.1	May AVG	0.3	May AVG	1.0	May avg	2.2
	Air Temp	Shade Canopy ChirpyNest w/ nest		Standard ChirpyNest NO nest		Rear Vented Horiz Gourd W/ nest Center probe		Vertical No Vent no nest		Horizontal No Vent no nest	
6/1/19	88.0	85.2	-2.8	88.0	0.0	88.9	0.9	90.1	2.1	90.8	2.8
6/2/19	89.2	85	-4.2	87.8	-1.4	90.1	0.9	90.4	1.2	91.6	2.4
6/3/19	82	78.6	-3.4	81.1	-0.9	82.2	0.2	82.9	0.9	83.8	1.8
6/4/19	91	88.0	-3.0	90.8	-0.2	91.9	0.9	92.6	1.6	93.3	2.3
6/5/19	79.7	76.7	-3.0	79.1	-0.6	78.7	-1.0	79.5	-0.2	80.1	0.4
6/6/19	88.9	85.0	-3.9	89.1	0.2	91.4	2.5	90.8	1.9	91.9	3.0
6/7/19	77.0	73.3	-3.7	75.4	-1.6	76.5	-0.5	76.6	-0.4	77.4	0.4
6/8/19	83.4	79.3	-4.1	82.5	-0.9	84.2	0.8	84.4	1.0	85.2	1.8
6/9/19	78.5	74.5	-4.0	75.9	-2.6	77.0	-1.5	77.0	-1.5	77.2	-1.3
6/10/19	86.5	83.3	-3.2	87.1	0.6	90.1	3.6	88.0	1.5	89.2	2.7
6/11/19	82.0	76.9	-5.1	81.3	-0.7	83.9	1.9	83.8	1.8	84.5	2.5
6/12/19	81.0	77.8	-3.2	80.7	-0.3	83.2	2.2	80.1	-0.9	81.5	0.5
6/13/19	77.5	74.8	-2.7	77.7	0.2	78.8	1.3	80.1	2.6	80.1	2.6
6/14/19	83.8	81.1	-2.7	83.0	-0.8	83.1	-0.7	83.7	-0.1	83.8	0.0
6/15/19	86.9	85.2	-1.7	88.1	1.2	89.4	2.5	89.7	2.8	91.0	4.1
6/16/19	93.0	89.9	-3.1	93.5	0.5	95.3	2.3	95.5	2.5	97.3	4.3
6/17/19	95.7	92.8	-2.9	95.5	-0.2	96	0.3	96.9	1.2	97.3	1.6
6/18/19	85.6	82.9	-2.7	85.2	-0.4	86.6	1.0	85.8	0.2	86.6	1.0
6/19/19	89.2	85.3	-3.9	88.2	-1.0	90.1	0.9	90.1	0.9	91.2	2.0
6/20/19	82.9	79.0	-3.9	81.2	-1.7	80.6	-2.3	81.8	-1.1	81.6	-1.3
6/21/19	88.3	85.2	-3.1	87.5	-0.8	88.4	0.1	89.9	1.6	89.2	0.9
6/22/19	84	81.1	-2.9	83.5	-0.5	83.5	-0.5	84.7	0.7	84.9	0.9
6/23/19	91.6	88.7	-2.9	91.9	0.3	93.0	1.4	93.2	1.6	92.9	1.3
6/24/19	95.6	93.5	-2.1	96.3	0.7	98.1	2.5	97.9	2.3	98.0	2.4
6/25/19	91.9	87.7	-4.2	91.4	-0.5	91.7	-0.2	92.9	1.0	93.7	1.8
6/26/19	91.7	88.6	-3.1	91.5	-0.2	94.1	2.4	94.2	2.5	95.4	3.7
6/27/19	99.0	95.0	-4.0	97.1	-1.9	98.1	-0.9	98.2	-0.8	98.9	-0.1

DATE:	Air	ChirpyNest 1 Center Probe	Difference CN1max - air max	ChirpyNest 2. Center Probe	Difference cn2 max - air max	Troyer Horiz. VENTED	Difference THG vent max - air max	Vertical gourd NO vent. Center probe	Difference VG max - air max	TroyerHoriz NO vent Center Probe	Difference THG max - air max
	Max Temp	Max Temp	from air	MAX Temp	From air	Max temp	From air	MAX Temp	from air	Max Temp	From air
6/28/19	98.1	94.1	-4.0	99.1	1.0	101.5	3.4	101.0	2.9	103.3	5.2
6/29/19	96.9	94.7	-2.2	97.6	0.7	99.1	2.2	100.0	3.1	102.1	5.2
6/30/19	96.5	92.0	-4.5	95.8	-0.7	98.7	2.2	99.3	2.8	102.2	5.7
	June Average		-3.3	87.4	-0.4	88.8	1.0	89.0	1.2	89.9	2.0
	Air Temp	Shade Canopy ChirpyNest w/ nest		Std ChirpyNest With Nest		Horiz Gourd NO vent W/ nest CP		Vertical No Vent WITH nest		Horiz No Vent WITH nest	
7/1/19	95.9	91.9	-4.0	94.4	-1.5	96.9	1.0	97.3	1.4	99.7	3.8
7/2/19	93.7	89.8	-3.9	92.9	-0.8	96.5	2.8	95.0	1.3	97.7	4.0
7/3/19	97.0	94.5	-2.5	96.8	-0.2	99.1	2.1	99.1	2.1	100.9	3.9
7/4/19	95.6	93.3	-2.3	96.6	1.0	100.0	4.4	99.4	3.8	101.5	5.9
7/5/19	98.2	94.7	-3.5	97.5	-0.7	101.2	3.0	100.2	2.0	102.9	4.7
7/6/19	92.3	90.0	-2.3	92.2	-0.1	94.9	2.6	94.5	2.2	96.4	4.1
7/7/19	96.5	93.2	-3.3	96.9	0.4	103.6	7.1	100.0	3.5	103.0	6.5
7/8/19	94.7	90.6	-4.1	94.5	-0.2	100.3	5.6	97.0	2.3	100.1	5.4
7/9/19	94.6	90.2	-4.4	94.0	-0.6	100.0	5.4	95.9	1.3	98.7	4.1
7/10/19	98.7	96.8	-1.9	99.7	1.0	105.4	6.7	102.6	3.9	105.9	7.2
7/11/19	83.8	81.6	-2.2	82.6	-1.2	85.6	1.8	83.1	-0.7	84.2	0.4
7/12/19	96.4	93.8	-2.6	96.2	-0.2	100.4	4.0	99.0	2.6	100.8	4.4
7/13/19	97.3	95.5	-1.8	97.6	0.3	103.6	6.3	100.0	2.7	103.0	5.7
7/14/19	96.9	94.8	-2.1	97.3	0.4	101.2	4.3	99.4	2.5	101.5	4.6
7/15/19	97.3	95.4	-1.9	98.1	0.8	103.1	5.8	100.5	3.2	103.6	6.3
7/16/19	98.2	96.1	-2.1	99.1	0.9	104.7	6.5	101.9	3.7	104.2	6.0
7/17/19	87.2	83.4	-3.8	84.6	-2.6	88.0	0.8	85.7	-1.5	88.1	0.9
7/18/19	95.0	91.0	-4.0	94.0	-1.0	99.3	4.3	95.6	0.6	98.1	3.1
7/19/19	97.2	94.1	-3.1	96.5	-0.7	103.4	6.2	98.7	1.5	101.2	4.0
7/20/19	98.6	95.9	-2.7	98.6	0.0	105.6	7.0	100.3	1.7	102.7	4.1
7/21/19	96.2	94.7	-1.5	96.5	0.3	101.0	4.8	99.0	2.8	100.3	4.1
7/22/19	85.8	80.7	-5.1	83.2	-2.6	89.1	3.3	85.1	-0.7	88.6	2.8
7/23/19	82.4	78.2	-4.2	80.1	-2.3	82.6	0.2	82.8	0.4	84.6	2.2
7/24/19	85.3	82.6	-2.7	84.8	-0.5	89.8	4.5	87.9	2.6	90.4	5.1
7/25/19	91.0	87.3	-3.7	90.8	-0.2	95.1	4.1	91.9	0.9	94.2	3.2
7/26/19	92.1	88.2	-3.9	91.5	-0.6	96.0	3.9	92.8	0.7	95.5	3.4
7/27/19	94.5	91.9	-2.6	93.7	-0.8	98.6	4.1	95.4	0.9	96.9	2.4
7/28/19	96.0	92.8	-3.2	95.1	-0.9	99.9	3.9	96.8	0.8	98.6	2.6
7/29/19	97.4	95.1	-2.3	97.4	0.0	100.0	2.6	97.8	0.4	99.7	2.3
7/30/19	93.2	90.8	-2.4	93.5	0.3	98.9	5.7	96.1	2.9	97.8	4.6
7/31/19	94.0	91.2	-2.8	94.1	0.1	97.5	3.5	95.1	1.1	97.0	3.0
	JULY Average		-3.0	93.6	-0.4	98.1	4.1	95.7	1.7	98.0	4.0
	AIR TEMP	Std (no shade) ChirpyNest w/ nest		Std ChirpyNest With Nest		Neck probe Horiz Gourd REAR vent W/ nest		Vertical No Vent WITH nest		Horiz No Vent WITH nest	
8/1/19	95.1	91.9	-3.2	95.6	0.5	99.3	4.2	96.5	1.4	99.1	4.0
8/2/19	91.9	86.5	-5.4	90.9	-1.0	95.7	3.8	91.9	0.0	95.4	3.5
8/3/19	96.2	94.8	-1.4	95.0	-1.2	96.9	0.7	95.6	-0.6	97.6	1.4
8/4/19	93.7	94.0	0.3	93.2	-0.5	96.1	2.4	94.6	0.9	96.7	3.0
8/5/19	94.9	93.9	-1.0	93.1	-1.8	98.7	3.8	95.5	0.6	98.1	3.2
8/6/19	92.4	93.8	1.4	93.2	0.8	97.5	5.1	95	2.6	97.2	4.8
8/7/19	89.5	89.0	-0.5	88.6	-0.9	92.9	3.4	89.9	0.4	92.3	2.8
8/8/19	93	93.1	0.1	92.5	-0.5	97.1	4.1	94.8	1.8	96.9	3.9
8/9/19	94.3	94.1	-0.2	93.7	-0.6	96.4	2.1	95.5	1.2	97	2.7
8/10/19	93.8	95	1.2	95	1.2	99.7	5.9	96.8	3.0	99	5.2
8/11/19	97.4	94.9	-2.5	94.6	-2.8	96.7	-0.7	95.8	-1.6	96.9	-0.5
8/12/19	96.3	95.4	-0.9	95.4	-0.9	97.7	1.4	96.3	0.0	98.1	1.8
8/13/19	95.9	95	-0.9	95	-0.9	99.3	3.4	95.6	-0.3	98.5	2.6
8/14/19	92.3	91.5	-0.8	91.8	-0.5	96.5	4.2	93.5	1.2	96.4	4.1
8/15/19	95.2	94.9	-0.3	94	-1.2	98.4	3.2	95.2	0.0	97.5	2.3
8/16/19	97.2	95.5	-1.7	94.6	-2.6	97.7	0.5	96.5	-0.7	98.2	1.0

DATE:	Air	ChirpyNest 1 Center Probe	Difference CN1 max - air max	ChirpyNest 2. Center Probe	Difference cn2 max - air max	Troyer Horiz. VENTED	Difference THG vent max - air max	Vertical gourd NO vent. Center probe	Difference VG max - air max	TroyerHoriz NO vent Center Probe	Difference THG max - air max
	Max Temp	Max Temp	from air	MAX Temp	From air	Max temp	From air	MAX Temp	from air	Max Temp	From air
8/17/19	97.7	96.8	-0.9	96.4	-1.3	99.1	1.4	97.1	-0.6	99	1.3
8/18/19	99.7	99.3	-0.4	98.9	-0.8	101.6	1.9	100.9	1.2	102.3	2.6
8/19/19	99	97	-2.0	96.5	-2.5	99.3	0.3	98.4	-0.6	100.3	1.3
8/20/19	99.4	97.9	-1.5	97.9	-1.5	101.6	2.2	99.2	-0.2	102.3	2.9
8/21/19	95.4	94.1	-1.3	94.1	-1.3	96.4	1.0	95.2	-0.2	97.6	2.2
8/22/19	92.3	91.2	-1.1	91.8	-0.5	96	3.7	91.9	-0.4	94.6	2.3
8/23/19	91.5	91.6	0.1	91.9	0.4	96	4.5	93.5	2.0	96.5	5.0
8/24/19	79.8	75.7	-4.1	76.2	-3.6	78.4	-1.4	77.6	-2.2	79.5	-0.3
8/25/19	79.2	79.1	-0.1	79.4	0.2	82	2.8	81.1	1.9	82.4	3.2
8/26/19	81.2	81.1	-0.1	82	0.8	85.4	4.2	82.9	1.7	85.5	4.3
8/27/19	79.8	76.4	-3.4	77.2	-2.6	77.8	-2.0	76.8	-3.0	77.9	-1.9
8/28/19	89.9	88.5	-1.4	88	-1.9	90.7	0.8	90.1	0.2	92.6	2.7
8/29/19	88.7	86.2	-2.5	86	-2.7	88	-0.7	87	-1.7	88.6	-0.1
8/30/19	94.6	91	-3.6	91	-3.6	93.5	-1.1	91.4	-3.2	94.1	-0.5
8/31/19	94.8	94.5	-0.3	93.9	-0.9	98.3	3.5	96.2	1.4	98.6	3.8
	August AVG		-1.2	91.5	-1.1	94.9	2.2	92.8	0.2	95.1	2.4
	Air temp	Std (with shade) ChirpyNest w/ nest		Std ChirpyNest With Nest		Neck Horiz Gourd REAR vent W/ nest-Continued		Vertical No Vent WITH nest		Horiz No Vent WITH nest	
9/1/19	95.2	91	-4.2	92.6	-2.6	96.6	1.4	94.1	-1.1	96.5	1.3
9/2/19	94.5	92.6	-1.9	94.4	-0.1	97.6	3.1	96.5	2.0	99.1	4.6
9/3/19	98.2	93.7	-4.5	95.4	-2.8	98.7	0.5	97.5	-0.7	99.7	1.5
9/4/19	97.5	95.4	-2.1	96.1	-1.4	97.8	0.3	97.1	-0.4	98.7	1.2
9/5/19	92.6	88.3	-4.3	90.1	-2.5	93.2	0.6	91.9	-0.7	95	2.4
9/6/19	91.9	89.2	-2.7	89.7	-2.2	91.3	-0.6	90.8	-1.1	92.9	1.0
9/7/19	93.7	89.2	-4.5	90.9	-2.8	92.7	-1.0	92.8	-0.9	95.2	1.5
9/8/19	95.5	91.4	-4.1	92.4	-3.1	94.6	-0.9	93.8	-1.7	95.7	0.2
9/9/19	98.4	94.7	-3.7	95.5	-2.9	97.8	-0.6	97.1	-1.3	99.1	0.7
9/10/19	102.6	98.1	-4.5	99.0	-3.6	100.4	-2.2	100	-2.6	101.8	-0.8
9/11/19	99.4	97.1	-2.3	98.2	-1.2	100.8	1.4	100.0	0.6	102.4	3.0
9/12/19	99.8	97	-2.8	98.4	-1.4	100.7	0.9	100	0.2	102.3	2.5
9/13/19	102.4	100.2	-2.2	101.9	-0.5	103.3	0.9	102.9	0.5	105.4	3.0
9/14/19	96.3	93.4	-2.9	95.0	-1.3	98.0	1.7	96.6	0.3	99.1	2.8
9/15/19	98.0	93.2	-4.8	94.2	-3.8	95.6	-2.4	96.0	-2.0	97.5	-0.5

Table 1-1

Key to color codes	0.1	Zero to 1 degree above air temp
	1.1	1 to 1.9 degree above air temp
	2.1	2 to 2.9 degree above air temp
	3.1	3 to 3.9 degree above air temp
	4.1	4 to 4.9 degree above air temp
	5.1	Over 5 degree above air temp
		Temp probe moved to neck of THG
		Shade Canopy