



**Garden
Spot of
Colorado**

SPECIAL MEETING OF THE TOWN BOARD

**Town Board Room
807 Mountain Avenue
Town of Berthoud, Colorado
Tuesday, July 18, 2023, 6:30 p.m.**

This is an IN-PERSON meeting at the location and time noted above.

You may also join virtually using Zoom: Phone: 1-346-248-7799 or 301-715-8592

Web: www.zoom.us/join

Use this Meeting ID: 210 035 9423

The Town Board may take action on any of the following agenda items as presented or modified prior to or during the meeting and items necessary or convenient to effectuate the agenda items.

1. Meeting Called To Order - Mayor William Karspeck
2. Pledge Of Allegiance - Mayor William Karspeck
3. Roll Call - Mayor William Karspeck
4. Mosquito Spray Policy
Introduction By: Chris Kirk

Documents:

MEMO RE MOSQUITO SPRAY POLICY.PDF
MAP BERTHOUD MOSQUITO TEST LOCATIONS.PDF
FC_LV DOCUMENT REPORTING 2023 WEEK 27 (1).PDF
FC_LV DOCUMENT REPORTING 2023 WEEK 28 (1).PDF
WEEK 27 DATA INPUT.PDF
WEEK 28 DATA INPUT.PDF
BOARD MEETING MINUTES - AUGUST 30, 2022.PDF

5. Adjourn

The order of agenda items listed above is approximate and intended as a guideline for the

Town Board. Individuals needing special accommodation may request assistance by contacting the Town Clerk 807 Mountain Avenue, Berthoud, Colorado 80513, 970-532-

2643 at least 24 hours in advance.

BOARD OF TRUSTEES INFORMATION



ADMINISTRATION DEPARTMENT

Meeting Date:	July 18, 2023
Agenda Title/Subject:	Mosquito Spray Policy
Type of Item:	Regular Item
Purpose:	To consider application of mosquito adulticide (spray) per the Town's previously adopted policy
Presented by:	Chris Kirk

ATTACHMENTS:

- Map Berthoud Mosquito Test Trap Locations
- Test Report Week 27 (Trap Date – July 4, 2023)
- Test Report Week 28 (Trap Date – July 11, 2023)
- Week 27 Data Input (Berthoud Only)
- Week 28 Data Input (Berthoud Only)
- Board Meeting Minutes - August 30, 2022

BACKGROUND:

As the Board is aware, the Town of Berthoud works with Larimer County, Colorado State University, and Vector Disease Control International (VDCI), to trap mosquitos and to test those mosquitos for the prevalence of West Nile Virus (WNV). According to the Center for Disease Control (CDC), WNV is the leading cause of mosquito borne illnesses in the U.S. There are currently no vaccines for WNV and no medications to treat WNV in people. About 1 in 5 people who are infected develop a fever and other symptoms. About 1 out of 150 infected people develop a serious, sometimes fatal, illness. (<https://www.cdc.gov/westnile/index.html>)

The Town's current approach to reducing the overall number of mosquitos is to utilize larvicide to kill mosquito larvae in areas of standing water as commonly used treatments before mosquitos get airborne. This is done under contract with VDCI. In August 2022, the Town Board voted to approve a general policy outlining the Town's approach to using adulticide, which is typically applied by a spray rig attached to a truck. Truck spraying of adulticide is intended to reduce the number of adult airborne mosquitos that could possibly spread WNV.

More specifically, the Town's adopted policy from August 2022 directs staff not to spray adulticide unless the vector index exceeds .75 for two consecutive weeks of testing, and only after being addressed by a special public meeting of the Town Board, called by Town Staff on whether to spray based on the current factors and conditions around current testing. For information, Vector Index is an estimate of the abundance of infected

mosquitos in an area based on WNV infections rates in individual species of mosquitos.

Based upon test data received from the Colorado State laboratory analyzing mosquito traps collected on July 4 and July 11, 2023, the Vector Index was 1.229 and 3.029 respectively. As such, Town Staff have called for a special meeting on July 18, 2023, for the Board to consider utilizing truck spraying of adulticide, per the adopted policy.

UPDATE/NEXT STEPS:

Should the Board vote to not to apply adulticide, Town Staff will continue to apply larvicide treatments per the Town's regular management procedures.

Should the Board vote to apply adulticide via truck spraying, Town Staff will work with VDCI to schedule said spray application and will use all available communication outlets to notify the Town residents of the same.

RECOMMENDED ACTION(S):

VOTE TO DIRECT STAFF TO CONTINUE LARVICIDE PROGRAM ONLY

OR

VOTE TO DIRECT STAFF TO APPLY ADULTICIDE VIA TRUCK SPRAYING AFTER A MINIMUM OF 24 HOURS NOTICE TO TOWN RESIDENTS VIA AVAILABLE COMMUNICATION OUTLETS

This map was created by a user. [Learn how to create your own.](#)

Johnson's Corner
Restaurant & Bakery



LC-054

LC-053

LC-049

LC-001

WC-055

Map data ©2023 [Terms](#) 2,000 ft

D. Reporting templates

Based on the need to now report data not only for FC citywide but also separately for each of the four zones (NW, NE, SE, SW; broken down using College and Drake) the city has been divided into for the purpose of WNV surveillance and mosquito control, CSU had to generate a new reporting template. This new reporting template is tailored to provide data relevant to the Level III and IV entomological triggers (see below) for control measures in the “City of Fort Collins Program Response Guidelines to Mosquito Borne Arboviral Activity (July 2008 edition)”.

Level III

- Vector index > 0.5 and increasing
- *Culex* mosquito populations increasing and at or above historical average for that time period
- Mosquito infection rates of > 3.0 per thousand (0.3%) and increasing

Level IV

- Vector index > 0.75.
- *Culex* mosquito population above historical average for that time period
- Sustained mosquito infection rates of > 5.0 per thousand (0.5%)

The new reporting format comprises a set of 6 tables to address the current week (1a, 2a, 3a) and to provide seasonal and historical context (1b, 2b, 3b) (see full table formats on following pages)

- Table 1a. Vector Index for current week
- Table 1b. Vector Index for All *Culex* by week from June-August
- Table 2a. Vector abundance for current week
- Table 2b. Vector abundance for All *Culex* by week from June-August
- Table 3a. WNV infection rate per 1,000 females for current week
- Table 3b. WNV infection rate per 1,000 females for All *Culex* by week from June-August

Table 1a. Vector Index for current week

Week: 27	Mean abundance of females per trap night ¹		Estimate for proportion of females infected with WNV ²		Vector Index		
	<i>Cx. pipiens</i>	<i>Cx. tarsalis</i>	<i>Cx. pipiens</i>	<i>Cx. tarsalis</i>	<i>Cx. pipiens</i> ³	<i>Cx. tarsalis</i> ⁴	All <i>Culex</i> ⁵
FC – Zone NW	7.33	21.22	0.0000	0.0000	0.000	0.000	0.000
FC – Zone NE	11.10	193.20	0.0000	0.0000	0.000	0.000	0.000
FC – Zone SE	6.67	354.60	0.0000	0.0008	0.000	0.269	0.269
FC – Zone SW	2.89	23.00	0.0000	0.0000	0.000	0.000	0.000
FC – Citywide	7.05	177.88	0.0000	0.0005	0.000	0.094	0.094
LV	5.7	387.2	0.0000	0.0006	0.000	0.241	0.241
BE	1.2	711.2	0.1784	0.0014	0.214	1.015	1.229
BC	N/A	49.0	N/A	0.0000	0.000	0.000	0.000

¹From Table 2a (CDC light trap catches only).

²Derived from the data presented in Table 3a for estimated infection rate per 1,000 females (CDC light trap and gravid trap catches combined).

³Vector Index for *Cx. pipiens* = (Mean abundance of *Cx. pipiens* females per trap night) x (Estimate for proportion of all *Cx. pipiens* females infected with WNV).

⁴Vector Index for *Cx. tarsalis* = (Mean abundance of *Cx. tarsalis* females per trap night) x (Estimate for proportion of all *Cx. tarsalis* females infected with WNV).

⁵Vector Index for All *Culex* = (Vector Index for *Cx. pipiens*) + (Vector Index for *Cx. tarsalis*).

Table 1b. Vector Index for All *Culex* by week from June-August

Week	FC – Zone NW		FC – Zone NE		FC – Zone SE		FC – Zone SW		FC – Citywide		LV	BE	BC
	Current year	Historical average ¹	Current year	Historical average ¹	Current year	Historical average ¹	Current year	Historical average ¹	Current year	Historical average ¹			
23	0.00	0.01	0.00	0.02	0.00	0.01	0.00	0.01	0.00	0.01	0.00	0.00	N/A
24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
25	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.01	0.07	0.01	0.00	0.01	0.02	0.01	0.00	0.00	0.00
27	0.00	0.00	0.00	0.02	0.27	0.01	0.00	0.00	0.09	0.01	0.24	1.23	0.00
28		0.00		0.03		0.10		0.01		0.04			
29		0.08		0.09		0.24		0.03		0.12			
30		0.08		0.14		0.26		0.07		0.15			
31		0.14		0.17		0.23		0.08		0.18			
32		0.16		0.26		0.32		0.14		0.23			
33		0.14		0.41		0.26		0.10		0.24			
34		0.13		0.20		0.28		0.07		0.19			
35		0.06		0.19		0.25		0.11		0.17			
36		0.03		0.08		0.05		0.02		0.05			
37		0.03		0.11		0.03		0.00		0.04			

¹ The historical average for Week 23 is calculated from 2006-2014 data. The historical average for Week 24 uses 2006-2020 historical data. The historical average for Week 25-35 uses 2006-2022 historical data. Week 36 historical average is calculated from 2015-2022 data (2015 is the first year to have surveillance data collected into weeks 36 & 37). Week 37 historical average is calculated from 2015-2016 and 2018-2019 data. 2003-2005 surveillance data were excluded due to changes in trap locations from 2006 onwards.

Table 2a. Vector abundance for current week (CDC light trap catches only)

Week: 27	Total number females collected			Number CDC light trap nights	Mean abundance of females per CDC light trap night		
	Cx. <i>pipiens</i>	Cx. <i>tarsalis</i>	All <i>Culex</i>		Cx. <i>pipiens</i> ¹	Cx. <i>tarsalis</i> ²	All <i>Culex</i> ³
FC – Zone NW	66	191	257	9	7.33	21.22	28.56
FC – Zone NE	111	1932	2043	10	11.10	193.20	204.30
FC – Zone SE	100	5319	5419	15	6.67	354.60	361.27
FC – Zone SW	26	207	233	9	2.89	23.00	25.89
FC – Citywide	303	7649	7952	43	7.05	177.88	184.93
LV	212	14327	14539	37	5.73	387.22	392.95
BE	6	3556	3562	5	1.20	711.20	712.40
BC	0	343	343	7	0.00	49.00	49.00

¹Mean abundance of Cx. *pipiens* females per CDC light trap night = (Total number Cx. *pipiens* females collected) / (Number CDC light trap nights).

²Mean abundance of Cx. *tarsalis* females per CDC light trap night = (Total number Cx. *tarsalis* females collected) / (Number CDC light trap nights).

³Mean abundance of All *Culex* females per CDC light trap night = (Total number All *Culex* females collected) / (Number CDC light trap nights).

Table 2b. Vector abundance for All *Culex* by week from June-August

Week	FC – Zone NW		FC – Zone NE		FC – Zone SE		FC – Zone SW		FC – Citywide		LV	BE	BC
	Current year	Historical average ¹	Current year	Historical average ¹	Current year	Historical average ¹	Current year	Historical average ¹	Current year	Historical average ¹			
23	6.11	2.81	1.00	5.48	5.67	8.04	7.11	0.78	4.98	5.67	8.57	12.80	N/A
24	4.33	2.90	2.70	7.22	9.00	9.00	6.56	1.83	6.05	5.80	11.65	11.60	N/A
25	18.00	6.07	14.70	17.18	29.20	21.45	7.00	3.95	18.84	13.49	41.51	98.00	6.32
26	126.67	12.78	128.50	30.90	222.87	33.19	96.56	8.07	154.35	23.08	237.59	848.80	45.00
27	28.56	26.20	204.30	59.47	361.27	46.37	25.89	11.86	184.93	39.49	392.95	712.40	49.00
28		41.14		85.39		87.64		17.70		62.95			
29		47.89		86.69		74.04		22.52		61.74			
30		47.92		107.84		80.94		22.16		68.37			
31		55.08		96.93		63.68		19.93		63.02			
32		39.85		78.44		52.73		20.69		49.71			
33		28.80		68.09		42.43		14.21		40.70			
34		21.58		53.67		27.74		10.35		29.68			
35		10.83		27.34		17.94		6.39		16.36			
36		11.18		36.44		13.82		4.94		16.63			
37		8.13		34.33		11.08		3.12		14.29			

¹ The historical average for Week 23 is calculated from 2006-2014 data. The historical average for Week 24 uses 2006-2020 historical data. The historical average for Week 25-35 uses 2006-2022 historical data. Week 36 historical average is calculated from 2015-2022 data (2015 is the first year to have surveillance data collected into weeks 36 & 37). Week 37 historical average is calculated from 2015-2016 and 2018-2019 data. 2003-2005 surveillance data were excluded due to changes in trap locations from 2006 onwards

Table 3a. WNV infection rate per 1,000 females for current week (CDC light trap and gravid trap catches combined)

Week: 27	Total number individuals examined			Total number pools examined			Total number WNV-infected pools			Estimate for WNV infection rate per 1,000 females ¹		
	Cx. <i>pipiens</i>	Cx. <i>tarsalis</i>	All <i>Culex</i>	Cx. <i>pipiens</i>	Cx. <i>tarsalis</i>	All <i>Culex</i>	Cx. <i>pipiens</i>	Cx. <i>tarsalis</i>	All <i>Culex</i>	Cx. <i>pipiens</i>	Cx. <i>tarsalis</i>	All <i>Culex</i>
FC – Zone NW	69	191	260	6	9	15	0	0	0	0.00	0.00	0.00
FC – Zone NE	138	1940	2078	11	47	58	0	0	0	0.00	0.00	0.00
FC – Zone SE	169	5320	5489	14	115	129	0	4	4	0.00	0.76	0.74
FC – Zone SW	31	207	238	6	9	15	0	0	0	0.00	0.00	0.00
FC – Citywide	407	7658	8065	37	180	217	0	4	4	0.00	0.53	0.50
LV	101	3233	3334	4	66	70	0	2	2	0.00	0.62	0.60
BE	6	700	706	2	14	16	1	1	2	178.42	1.43	2.83
BC	0	343	343	0	7	7	1	7	8	N/A	0.00	0.00

¹Maximum likelihood estimate (MLE) for WNV infection rate per 1,000 females calculated using the CDC PooledInfRate 4.0 plug-in for Excel.

Table 3b. WNV infection rate per 1,000 females for All *Culex* by week from June-August

Week	FC – Zone NW		FC – Zone NE		FC – Zone SE		FC – Zone SW		FC – Citywide		LV	BE	BC
	Current year	Historical average ¹	Current year	Historical average ¹	Current year	Historical average ¹	Current year	Historical average ¹	Current year	Historical average ¹			
23	0.00	0.00	0.00	0.00	0.00	1.60	0.00	0.00	0.00	0.52	0.00	0.00	N/A
24	0.00	0.00	0.00	0.00	0.00	0.86	0.00	0.00	0.00	0.33	0.00	0.00	N/A
25	0.00	0.00	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00
26	0.00	0.00	0.00	0.06	0.29	0.28	0.00	0.28	0.15	0.17	0.00	0.00	0.00
27	0.00	0.00	0.00	0.14	0.74	0.28	0.00	0.00	0.50	0.20	0.60	2.83	0.00
28		0.00		0.42		0.76		0.59		0.51			
29		1.37		0.86		2.10		0.84		1.38			
30		1.97		1.62		3.47		2.06		2.40			
31		2.94		1.82		4.77		3.38		3.28			
32		4.31		4.54		6.86		9.22		5.23			
33		6.40		6.51		9.37		6.67		7.50			
34		7.89		4.05		10.38		9.88		7.39			
35		9.39		5.81		14.70		35.98		10.13			
36		6.94		1.98		3.55		6.45		2.76			
37		3.53		3.04		3.56		0.00		3.97			

¹ The historical average for Week 23 is calculated from 2006-2014 data. The historical average for Week 24 uses 2006-2020 historical data. The historical average for Week 25-35 uses 2006-2022

historical data. Week 36 historical average is calculated from 2015-2022 data (2015 is the first year to have surveillance data collected into weeks 36 & 37). Week 37 historical average is calculated from 2015-2016 and 2018-2019 data. 2003-2005 surveillance data were excluded due to changes in trap locations from 2006 onwards.

D. Reporting templates

Based on the need to now report data not only for FC citywide but also separately for each of the four zones (NW, NE, SE, SW; broken down using College and Drake) the city has been divided into for the purpose of WNV surveillance and mosquito control, CSU had to generate a new reporting template. This new reporting template is tailored to provide data relevant to the Level III and IV entomological triggers (see below) for control measures in the “City of Fort Collins Program Response Guidelines to Mosquito Borne Arboviral Activity (July 2008 edition)”.

Level III

- Vector index > 0.5 and increasing
- *Culex* mosquito populations increasing and at or above historical average for that time period
- Mosquito infection rates of > 3.0 per thousand (0.3%) and increasing

Level IV

- Vector index > 0.75.
- *Culex* mosquito population above historical average for that time period
- Sustained mosquito infection rates of > 5.0 per thousand (0.5%)

The new reporting format comprises a set of 6 tables to address the current week (1a, 2a, 3a) and to provide seasonal and historical context (1b, 2b, 3b) (see full table formats on following pages)

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Table 1a. Vector Index for current week

Week: 28	Mean abundance of females per trap night ¹		Estimate for proportion of females infected with WNV ²		Vector Index		
	<i>Cx. pipiens</i>	<i>Cx. tarsalis</i>	<i>Cx. pipiens</i>	<i>Cx. tarsalis</i>	<i>Cx. pipiens</i> ³	<i>Cx. tarsalis</i> ⁴	All <i>Culex</i> ⁵
FC – Zone NW	12.78	157.00	0.0068	0.0000	0.087	0.000	0.087
FC – Zone NE	22.20	106.10	0.0000	0.0009	0.000	0.100	0.100
FC – Zone SE	19.87	419.13	0.0022	0.0016	0.044	0.690	0.734
FC – Zone SW	6.56	258.44	0.0066	0.0000	0.043	0.000	0.043
FC – Citywide	16.14	257.84	0.0030	0.0012	0.048	0.310	0.358
LV	8.6	188.1	0.0000	0.0012	0.000	0.233	0.233
BE	29.0	1027.0	0.0000	0.0029	0.000	3.029	3.029
BC	N/A	49.0	N/A	0.0000	0.000	0.000	0.000

¹From Table 2a (CDC light trap catches only).

²Derived from the data presented in Table 3a for estimated infection rate per 1,000 females (CDC light trap and gravid trap catches combined).

³Vector Index for *Cx. pipiens* = (Mean abundance of *Cx. pipiens* females per trap night) x (Estimate for proportion of all *Cx. pipiens* females infected with WNV).

⁴Vector Index for *Cx. tarsalis* = (Mean abundance of *Cx. tarsalis* females per trap night) x (Estimate for proportion of all *Cx. tarsalis* females infected with WNV).

⁵Vector Index for All *Culex* = (Vector Index for *Cx. pipiens*) + (Vector Index for *Cx. tarsalis*).

Table 1b. Vector Index for All *Culex* by week from June-August

Week	FC – Zone NW		FC – Zone NE		FC – Zone SE		FC – Zone SW		FC – Citywide		LV	BE	BC
	Current year	Historical average ¹	Current year	Historical average ¹	Current year	Historical average ¹	Current year	Historical average ¹	Current year	Historical average ¹			
23	0.00	0.01	0.00	0.02	0.00	0.01	0.00	0.01	0.00	0.01	0.00	0.00	N/A
24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
25	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.01	0.07	0.01	0.00	0.01	0.02	0.01	0.00	0.00	0.00
27	0.00	0.00	0.00	0.02	0.27	0.01	0.00	0.00	0.09	0.01	0.24	1.23	0.00
28	0.09	0.00	0.10	0.03	0.73	0.10	0.04	0.01	0.36	0.04	0.23	3.03	0.00
29		0.08		0.09		0.24		0.03		0.12			
30		0.08		0.14		0.26		0.07		0.15			
31		0.14		0.17		0.23		0.08		0.18			
32		0.16		0.26		0.32		0.14		0.23			
33		0.14		0.41		0.26		0.10		0.24			
34		0.13		0.20		0.28		0.07		0.19			
35		0.06		0.19		0.25		0.11		0.17			
36		0.03		0.08		0.05		0.02		0.05			
37		0.03		0.11		0.03		0.00		0.04			

¹ The historical average for Week 23 is calculated from 2006-2014 data. The historical average for Week 24 uses 2006-2020 historical data. The historical average for Week 25-35 uses 2006-2022 historical data. Week 36 historical average is calculated from 2015-2022 data (2015 is the first year to have surveillance data collected into weeks 36 & 37). Week 37 historical average is calculated from 2015-2016 and 2018-2019 data. 2003-2005 surveillance data were excluded due to changes in trap locations from 2006 onwards.

Table 2a. Vector abundance for current week (CDC light trap catches only)

Week: 28	Total number females collected			Number CDC light trap nights	Mean abundance of females per CDC light trap night		
	Cx. <i>pipiens</i>	Cx. <i>tarsalis</i>	All <i>Culex</i>		Cx. <i>pipiens</i> ¹	Cx. <i>tarsalis</i> ²	All <i>Culex</i> ³
FC – Zone NW	115	1413	1528	9	12.78	157.00	169.78
FC – Zone NE	222	1061	1283	10	22.20	106.10	128.30
FC – Zone SE	298	6287	6585	15	19.87	419.13	439.00
FC – Zone SW	59	2326	2385	9	6.56	258.44	265.00
FC – Citywide	694	11087	11781	43	16.14	257.84	273.98
LV	317	6959	7276	37	8.57	188.08	196.65
BE	145	5135	5280	5	29.00	1027.00	1056.00
BC	0	294	294	6	0.00	49.00	49.00

¹Mean abundance of *Cx. pipiens* females per CDC light trap night = (Total number *Cx. pipiens* females collected) / (Number CDC light trap nights).

²Mean abundance of *Cx. tarsalis* females per CDC light trap night = (Total number *Cx. tarsalis* females collected) / (Number CDC light trap nights).

³Mean abundance of All *Culex* females per CDC light trap night = (Total number All *Culex* females collected) / (Number CDC light trap nights).

Table 2b. Vector abundance for All *Culex* by week from June-August

Week	FC – Zone NW		FC – Zone NE		FC – Zone SE		FC – Zone SW		FC – Citywide		LV	BE	BC
	Current year	Historical average ¹	Current year	Historical average ¹	Current year	Historical average ¹	Current year	Historical average ¹	Current year	Historical average ¹			
23	6.11	2.81	1.00	5.48	5.67	8.04	7.11	0.78	4.98	5.67	8.57	12.80	N/A
24	4.33	2.90	2.70	7.22	9.00	9.00	6.56	1.83	6.05	5.80	11.65	11.60	N/A
25	18.00	6.07	14.70	17.18	29.20	21.45	7.00	3.95	18.84	13.49	41.51	98.00	6.32
26	126.67	12.78	128.50	30.90	222.87	33.19	96.56	8.07	154.35	23.08	237.59	848.80	45.00
27	28.56	26.20	204.30	59.47	361.27	46.37	25.89	11.86	184.93	39.49	392.95	712.40	49.00
28	169.78	41.14	128.30	85.39	439.00	87.64	265.00	17.70	273.98	62.95	196.65	1056.00	49.00
29		47.89		86.69		74.04		22.52		61.74			
30		47.92		107.84		80.94		22.16		68.37			
31		55.08		96.93		63.68		19.93		63.02			
32		39.85		78.44		52.73		20.69		49.71			
33		28.80		68.09		42.43		14.21		40.70			
34		21.58		53.67		27.74		10.35		29.68			
35		10.83		27.34		17.94		6.39		16.36			
36		11.18		36.44		13.82		4.94		16.63			
37		8.13		34.33		11.08		3.12		14.29			

¹ The historical average for Week 23 is calculated from 2006-2014 data. The historical average for Week 24 uses 2006-2020 historical data. The historical average for Week 25-35 uses 2006-2022 historical data. Week 36 historical average is calculated from 2015-2022 data (2015 is the first year to have surveillance data collected into weeks 36 & 37). Week 37 historical average is calculated from 2015-2016 and 2018-2019 data. 2003-2005 surveillance data were excluded due to changes in trap locations from 2006 onwards

Table 3a. WNV infection rate per 1,000 females for current week (CDC light trap and gravid trap catches combined)

Week: 28	Total number individuals examined			Total number pools examined			Total number WNV-infected pools			Estimate for WNV infection rate per 1,000 females ¹		
	Cx. <i>pipiens</i>	Cx. <i>tarsalis</i>	All <i>Culex</i>	Cx. <i>pipiens</i>	Cx. <i>tarsalis</i>	All <i>Culex</i>	Cx. <i>pipiens</i>	Cx. <i>tarsalis</i>	All <i>Culex</i>	Cx. <i>pipiens</i>	Cx. <i>tarsalis</i>	All <i>Culex</i>
FC – Zone NW	159	1413	1572	10	33	43	1	0	1	6.80	0.00	0.64
FC – Zone NE	297	1061	1358	15	27	42	0	1	1	0.00	0.94	0.74
FC – Zone SE	459	6295	6754	19	136	155	1	10	11	2.22	1.65	1.69
FC – Zone SW	158	2327	2485	9	51	60	1	2	3	6.59	0.00	1.23
FC – Citywide	1073	11096	12169	53	247	300	3	13	16	2.96	1.20	1.36
LV	43	807	850	3	17	20	0	1	1	0.00	1.24	1.18
BE	55	703	758	3	15	18	0	2	2	0.00	2.95	2.73
BC	0	294	294	0	6	6	0	0	0	N/A	0.00	0.00

¹Maximum likelihood estimate (MLE) for WNV infection rate per 1,000 females calculated using the CDC PooledInfRate 4.0 plug-in for Excel.

Table 3b. WNV infection rate per 1,000 females for All *Culex* by week from June-August

Week	FC – Zone NW		FC – Zone NE		FC – Zone SE		FC – Zone SW		FC – Citywide		LV	BE	BC
	Current year	Historical average ¹	Current year	Historical average ¹	Current year	Historical average ¹	Current year	Historical average ¹	Current year	Historical average ¹			
23	0.00	0.00	0.00	0.00	0.00	1.60	0.00	0.00	0.00	0.52	0.00	0.00	N/A
24	0.00	0.00	0.00	0.00	0.00	0.86	0.00	0.00	0.00	0.33	0.00	0.00	N/A
25	0.00	0.00	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00
26	0.00	0.00	0.00	0.06	0.29	0.28	0.00	0.28	0.15	0.17	0.00	0.00	0.00
27	0.00	0.00	0.00	0.14	0.74	0.28	0.00	0.00	0.50	0.20	0.60	2.83	0.00
28	0.64	0.00	0.74	0.42	1.69	0.76	1.23	0.59	1.36	0.51	1.18	2.73	0.00
29		1.37		0.86		2.10		0.84		1.38			
30		1.97		1.62		3.47		2.06		2.40			
31		2.94		1.82		4.77		3.38		3.28			
32		4.31		4.54		6.86		9.22		5.23			
33		6.40		6.51		9.37		6.67		7.50			
34		7.89		4.05		10.38		9.88		7.39			
35		9.39		5.81		14.70		35.98		10.13			
36		6.94		1.98		3.55		6.45		2.76			
37		3.53		3.04		3.56		0.00		3.97			

¹ The historical average for Week 23 is calculated from 2006-2014 data. The historical average for Week 24 uses 2006-2020 historical data. The historical average for Week 25-35 uses 2006-2022

historical data. Week 36 historical average is calculated from 2015-2022 data (2015 is the first year to have surveillance data collected into weeks 36 & 37). Week 37 historical average is calculated from 2015-2016 and 2018-2019 data. 2003-2005 surveillance data were excluded due to changes in trap locations from 2006 onwards.

[illegible]

[illegible]



SPECIAL MEETING MINUTES OF THE TOWN BOARD

**Town Board Room
807 Mountain Avenue
Town of Berthoud, Colorado
Tuesday, August 30, 2022, 6:30 p.m.**

I. REGULAR MEETING CALLED TO ORDER – Mayor Pro Tem Grace at 6:31 p.m.

II. PLEDGE OF ALLEGIANCE – Mayor Pro Tem Grace

III. ROLL CALL – Mayor Pro Tem Grace

The following Board Members were present:

Mayor Pro Tem Mike Grace
Trustee Karl Ayers
Trustee Jeff Butler
Trustee Tim Hardy
Trustee Sean Murphy
Trustee May Soricelli

The following Board Members were absent:

Mayor William Karspeck

The following were also present:

Town Administrator Chris Kirk
Deputy Town Clerk Michelle Adams

IV. SCHEDULED ITEMS

1. Pioneer Park Pollinator Garden Presentation

(Kenyan Clarkson)

Trustee Soricelli moved to approve any excess funding needed for the pollinator garden project once other fundraising was completed up to \$2,479.00 by the end of September 2022.

Trustee Ayers seconded the motion.

In a 6-0 roll call vote, the **MOTION CARRIED**.

2. Mosquito Spraying Discussion

(Town Board)

Mayor Pro Tem Grace opened it up for public participation, and the following spoke:

Jeff Hindman of Berthoud

Trustee Hardy moved to rescind the 2017 mosquito spray policy not to spray in the future unless the vector index exceeds .75 in two consecutive weeks of testing and would be addressed by a special public meeting of the Town Board called by Town Staff on whether to spray based on the current factors and conditions around current testing and to keep our existing efforts on larviciding in place.

Trustee Ayers seconded the motion.

In a 6-2 roll call vote, the **MOTION CARRIED**.

3. 1st Street Corridor Plan

(Chris Kirk)

Roger Sherman with BHA Presented.

Information Only

4. **3rd Street and Massachusetts Avenue Redevelopment**

(Chris Kirk)

Roger Sherman with BHA Presented.

Information Only

Trustee Murphy moved to continue the meeting past 9:30 p.m. to complete the last agenda item and any additional discussion after that.

Trustee Hardy seconded the motion.

All were in favor, the MOTION CARRIED.

5. **I-25 Roundabout Design**

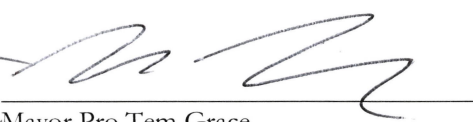
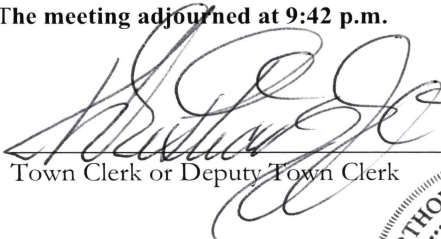
(Chris Kirk)

Roger Sherman with BHA Presented.

Information Only

V. ADJOURNED FROM SPECIAL MEETING

The meeting adjourned at 9:42 p.m.



Town Clerk or Deputy Town Clerk

Mayor Pro Tem Grace

