

**TOWN OF COLUMBINE VALLEY  
BOARD OF TRUSTEES MEETING**

March 20, 2018

**A G E N D A**

- |   |                |
|---|----------------|
| <b>PUBLIC HEARING: 2018 Building Codes</b>  | <b>6:00PM</b>  |
| <b>PUBLIC HEARING: 2017 Budget Amendment</b>  | <b>6:15PM</b>  |
|   |                |
| 1. ROLL CALL  | 6:30PM         |
|   |                |
| 2. PLEDGE OF ALLEGIANCE   |                |
|   |                |
| 3. APPROVAL OF MINUTES<br>February 20, 2018   | Mayor Champion |
|   |                |
| 4. CITIZENS CONCERNS<br>Columbine Country Club<br>HOA Presidents/Representatives<br>Public Comments | Mayor Champion |
|   |                |
| 5. MAYOR'S COMMENTS   | Mayor Champion |
|   |                |
| 6. TRUSTEE COMMENTS   |                |
|   |                |
| 7. TOWN ADMINISTRATORS REPORT   | Mr. McCrumb    |
|   |                |
| 8. POLICE DEPARTMENT REPORT   | Chief Cottrell |
|   |                |
| 9. TOWN TREASURERS REPORT   | Mr. Tempas     |
|   |                |
| 10. OLD BUSINESS  |                |
| Trustee Bill #2, 2018 - Building Codes (2 <sup>nd</sup> Reading)                                    | Mr. Thelen     |
| Trustee Bill #3, 2018 - Flood Damage Prevention (2 <sup>nd</sup> Reading)                           | Mr. Carmann    |
| Resolution #6, 2018 - 2017 Town Budget Amendment  | Mr. Tempas     |
| Town Speed Limits   | Mr. McCrumb    |
|   |                |
| 11. NEW BUSINESS  |                |
| Trustee Bill #4, 2018 - Towing Ordinance (1 <sup>st</sup> Reading)                                  | Mr. Schiller   |
|   |                |
| 12. EXECUTIVE SESSION   |                |
|   |                |
| 13. ADJOURNMENT   |                |

**TOWN OF COLUMBINE VALLEY**

**BOARD OF TRUSTEES**

**Minutes**

February 20, 2018

Mayor Champion called the Regular Meeting of the Trustees to order at 6:30 p.m., in the Conference Room at the Town Hall at 2 Middlefield Road, Columbine Valley, Colorado. Roll call found the following present:

Trustees: Richard Champion, Dave Cope, Kathy Boyle, Gale Christy, and Roy Palmer

Also present: Lee Schiller, J.D. McCrumb, Jeff Tempas, Bret Cottrell, Phil Sieber, Troy Carmann and Jamie Milliman

**MINUTES:** The minutes of the January 16, 2018 meeting were approved as corrected.

**CITIZEN CONCERNS:** Jon Piper, 3 Cleek Way, and William Taylor, 10 Columbine Lane, both attended to hear more about the speed limit discussion.

Mara Marks, 8 Driver Lane, expressed concerns that the Wild Plum Final Development Plan did not have a specific definition of height measurement methods for blocks 2-5 despite the Board of Trustees motion to include such a definition. Mrs. Marks also noted that the municipal code as published online referenced an out of date building code.

**MAYOR'S COMMENTS:** Mayor Champion shared with the Trustees some information he had learned at the Metro Mayors Caucus regarding a potential Denver/Colorado winter Olympic bid.

The Mayor also expressed appreciation to Chief Cottrell for completing installation of the Town's backup server at the Country Club's pool house.

**TRUSTEE COMMENTS:** Trustee Christy asked if there was any development news relating to the corner SW corner of Platte Canyon and Bowles (Arapahoe County). Staff indicated there was not.

Trustee Palmer asked if there were any development updates relating to the Clayton development on Watson Lane (Littleton). Staff indicated that there were no developments relating to the Town and that all parties were still in discussions over the issues of access and drainage.

**TOWN ADMINISTRATOR'S REPORT:** Mr. McCrumb presented the attached report.

**POLICE CHIEF'S REPORT:** Chief Cottrell presented the attached report.

**TOWN TREASURER'S REPORT:** Mr. Tempas presented the December 2018 financials to the Trustees and discussed the streets and inspection variances. Mr. Tempas described a letter from the audit firm outlining their scope and limitations of work. The Town's 2017 audit will begin on March 5.

**OLD BUSINESS:** There was no old business.



**NEW BUSINESS:**

**Resolution #4, 2018:** Mr. McCrumb presented a resolution supporting the merger of the Littleton Fire Protection District and South Metro Fire. The Trustees reviewed the merits of the merger.

**ACTION:** upon a motion by Trustee Cope and a second by Trustee Christy, the Board of Trustees unanimously approved Resolution #4, 2018.

**Resolution #5, 2018:** Mr. Schiller presented to the Trustees a resolution canceling the 2018 municipal election for lack of contested Mayor/Trustee seats.

**ACTION:** upon a motion by Trustee Palmer and a second by Trustee Christy, the Board of Trustees unanimously approved Resolution #5, 2018.

**Trustee Bill #2, 2018:** Mr. McCrumb presented an ordinance on 1<sup>st</sup> reading to update the Town's building code. Mr. Thelen, the Chief Building Inspector, will be presenting this update at the 2<sup>nd</sup> reading in March.

**ACTION:** upon a motion by Trustee Boyle and a second by Trustee Cope, the Board of Trustees unanimously approved Trustee Bill #2, 2018 on 1<sup>st</sup> reading.

**ACTION:** upon a motion by Trustee Boyle and a second by Trustee Cope, the Board of Trustees unanimously approved setting a public hearing on this issue for March 20, 2018 at 6:00 PM.

**Trustee Bill #3, 2018:** Mr. Carmann presented an ordinance on 1<sup>st</sup> reading to adopt containing revisions to the Flood Insurance Rate Map as required to remain in compliance with the Federal Emergency Management Agency.

**ACTION:** upon a motion by Trustee Cope and a second by Trustee Boyle, the Board of Trustees unanimously approved Trustee Bill #3, 2018 on 1<sup>st</sup> reading.

**2017 Town Budget Amendment:** Mr. Tempas presented an amended 2017 Town Budget to be considered as Resolution #6 in March. The Trustees asked clarifying questions regarding the need to amend.

**ACTION:** upon a motion by Trustee Cope and a second by Trustee Palmer, the Board of Trustees unanimously approved setting a public hearing on this issue for March 20, 2018 at 6:15 PM.

**Bow Mar IGA:** Mr. McCrumb presented an IGA from the Town of Bow Mar requesting the use of Columbine Valley Town Hall facilities and very limited staff support for their April 5 municipal election.

**ACTION:** upon a motion by Trustee Christy and a second by Trustee Boyle, the Board of Trustees unanimously approved the IGA upon final review and acceptance by the Town Attorney

**Arapahoe Country Transportation IGA:** Mr. Sieber presented an IGA from Arapahoe County establishing a transportation project priority committee including representatives from the numerous municipalities and the County.

**ACTION:** upon a motion by Trustee Boyle and a second by Trustee Palmer, the Board of Trustees unanimously approved the IGA.

**Speed Limit Discussion:** Trustee Boyle presented to the Board a request to reduce speed limits throughout town to 20 mph where they are otherwise 25 mph. The Trustees asked questions to understand the nature of the problem the reduction would solve. Mr. Schiller indicated that such action would require an ordinance with first and second reading.

**ACTION:** Trustee Boyle motioned that all speed limits of 25 mph be lowered to 20 mph within the Town. There was no second.

**ACTION:** The Board tabled the issue until March and directed staff to produce all past related traffic studies to help inform the Trustees of this issues.

**Wild Plum SIA:** Mr. Schiller presented the Trustees with a final draft of the Wild Plum development Subdivider Improvement Agreement (SIA) and asked the Trustees for direction relating to the length of term for vested property rights.

**ACTION:** upon a motion by Trustee Palmer and a second by Trustee Christy, the Board of Trustees unanimously approved the SIA with a term of 3 years for vested property rights.

**EXECUTIVE SESSION:** Upon a motion by Trustee Palmer and a second by Trustee Cope, the Board unanimously approved entering into executive session at 8:08 p.m. to receive legal advice regarding potential litigation pursuant to C.R.S. 24-6-402-4b.

**ADJOURNMENT:** There being no further business, the meeting was adjourned at 8:42 p.m.

Submitted by,  
J.D. McCrumb, Town Administrator

*\* All reports and exhibits listed "as attached" are available on the Columbine Valley web site and by request at Town Hall, 2 Middlefield Road.*

*\*\* All minutes should be considered to be in DRAFT form until approved by the Board of Trustees at the next regular meeting.*





# Town Administrator's Report

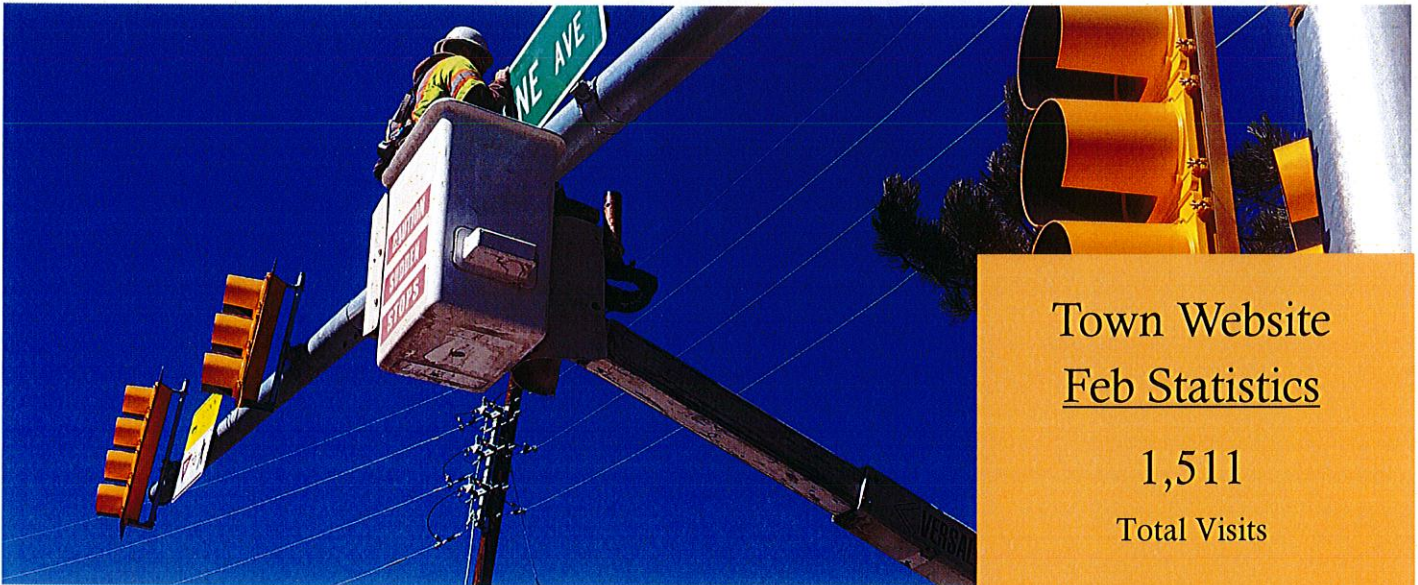
*March 2018*



Town of Columbine Valley  
2 Middlefield Road  
Columbine Valley, CO 80123

Tel: 303-795-1434  
Fax: 303-795-7325  
[jdmccrumb@columbinevalley.org](mailto:jdmccrumb@columbinevalley.org)





## Communications & Administration

---

- The Summer Concert Series and 4th of July events are starting to come together. The Town has secured all primary and secondary level sponsorships and the bands and other event features are being confirmed.
- GovPilot continues to build out the building department and “report a concern” modules of the new software system and initial tests have gone well. Staff is now entering the training section of the role-out process and we expect to have a soft release of more systems online (some of the GIS systems are already online) by late March. The entire system is still on schedule to be fully tested and operational by the end of April.
- The April Board of Trustees meeting will include the swearing in of the Mayor and Trustees for their new terms. That meeting will also see the appointments of commissioner seats and staff. Refreshments will be served and friends and family are welcome.

### Town Website Feb Statistics

1,511

Total Visits

1,987

February Page Views

### Top Pages

Community Updates

Municipal Court

Police Department

Development Updates

### Citizen Contacts:

*Staff has fielded calls, emails or walk-ins on the following topics in February*

- ⇒ Building Department: 84
- ⇒ Comm. Development: 59
- ⇒ Public Works: 42
- ⇒ Municipal Court: 71
- ⇒ Other: 68





# Building Department

## Monthly Stats

7 Permits Issued

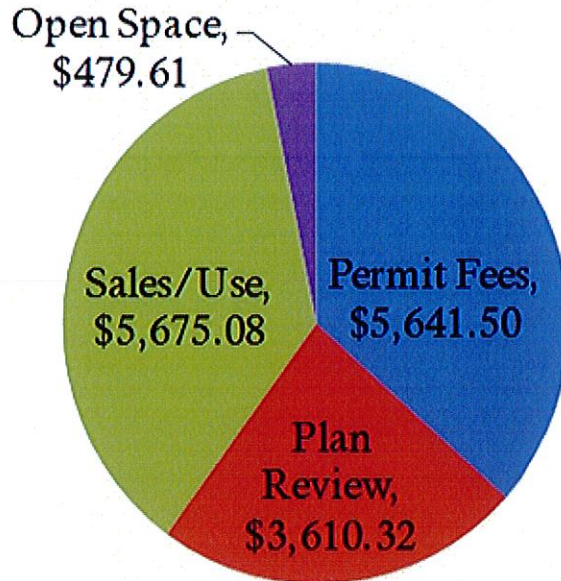
- New SFR: 0
- Major Remodel: 0
- New Roofs: 0
- Other/Misc.: 7

52 Inspections

15 Licenses Issued

- General: 5
- Electrician: 3
- Plumbers: 1
- Mechanical: 5
- Roofer: 1

Feb. Permit Rev.: \$15,406.51



## Wild Plum

95 Total Lots

0 SFR Permits Issued

0 Permit Pending

1 Grading Permit

## Wilder Lane

24 Total Lots

4 Permits Active

0 Permit Pending

8 Completed Homes

7 Occupied Home



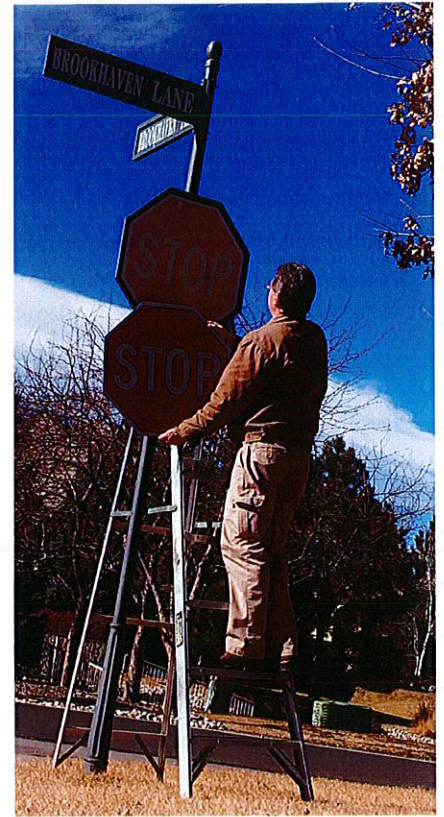
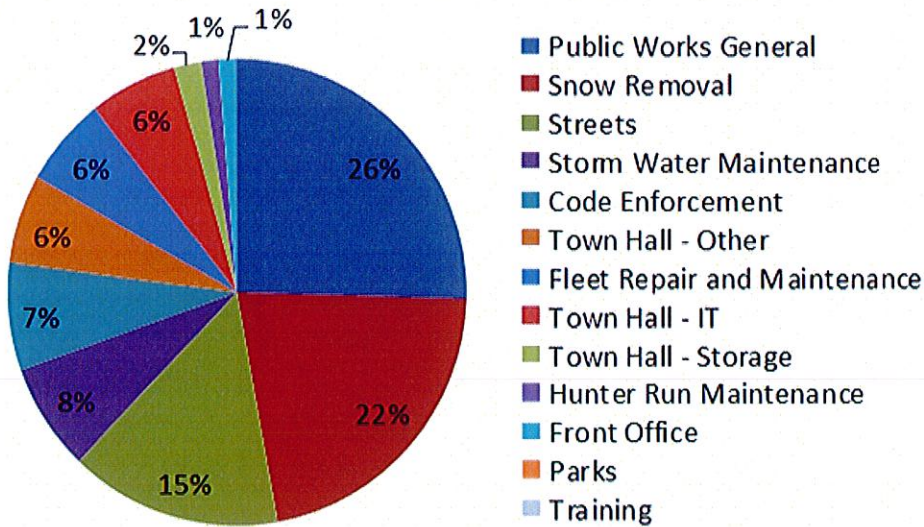
## Building Department Revenue by Month

	<u>2017</u>	<u>2017 YTD</u>	<u>2018</u>	<u>2018 YTD</u>
January	\$19,908.26	\$19,908.26	\$33,481.56	\$33,481.56
February	\$56,545.98	\$76,454.24	\$15,406.51	\$48,888.16
March	\$45,844.32	\$122,298.56		
April	\$164,185.81	286,484.37		
May	\$129,819.95	\$416,304.32		
June	\$21,136.83	\$437,441.15		
July	\$14,030.74	\$438,844.89		
August	\$73,657.67	\$512,502.56		
September	\$32,849.07	\$545,351.63		
October	\$22,603.20	\$567,954.84		
November	\$26,129.25	\$594,084.09		
December	\$55,810.24	\$649,894.33		

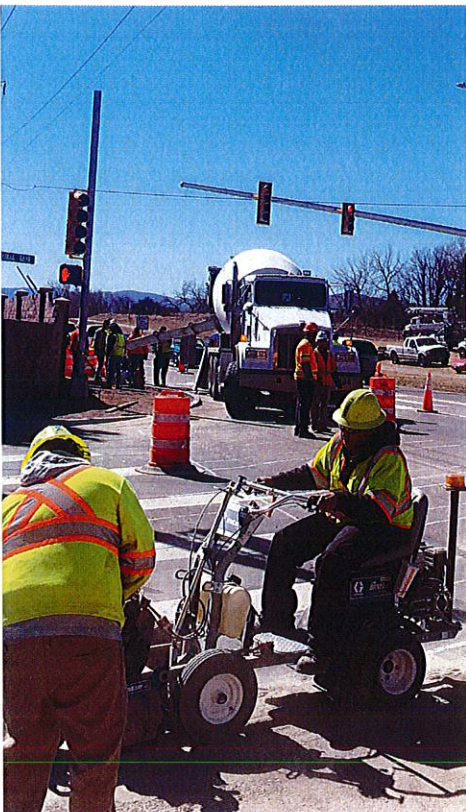


# Public Works Department

## February Staff Time Allocation (including contractors)



- Stop sign updates. Two very faded stop signs on Brookhaven Trail were updated. The signs had faded to the point of no longer being reflective. New signs with engineer grade reflectivity were installed as replacements.
- Snow plow route updates; a revision was made to the snow plowing route at the intersection of Brookhaven and Bowles. Additional passes to this intersection were added to keep them from being blocked by plowing from Littleton.



- Fleet repair; repairs to the Tahoe this month included fixing a coolant leak, replacing a non-functioning side mirror and replacing the kickstand on the plow.
- Tree removal; this month saw the removal of the Wild Plum tree next to Fairway Lane. Public Works was on site to get before, during and after pictures as well as to make sure that no tree limbs blocked any of Fairway.
- Wild Plum reports; with the activity on Wild Plum picking up, a standard process for documenting issues was created. This will allow town staff to better keep track of all non-resolved issues found during the demolition and construction phases.

## February Snow Report

- High of 67, Low of -2
- 3 day with plowing activity
- 9.5" of accumulated snow
- 0 day with sanding activity
- Total of 35 hours of snow removal and ice treatment.



## Municipal Court

	<u>2017 YTD</u>	<u>2018</u>	<u>2018 YTD</u>
Jan	\$6,295.25	\$10,400.00	\$10,400.00
Feb	<b>\$10,074.22</b>	<b>\$9,626.87</b>	<b>\$20,026.87</b>
Mar	\$18,941.22		
Apr	\$25,696.22		
May	\$24,791.22		
June	\$30,558.22		
July	\$35,619.47		
Aug	\$41,766.42		
Sept	\$45,826.42		
Oct	\$56,006.92		
Nov	\$63,096.92		
Dec	\$66,986.04		

### February Total Stats

- Total paid before Court: 66
- Total on docket: 48
- Cases heard by Judge: 18
- Continuances: 3
- Failure to Appears: 11
- Stay of Executions: 9
- Classes Ordered: 1
- Bench Warrants 1
- Trials 1



### Municipal Court, continued

- The Town's back-up judge John Livingston recently stepped down from his position. The Town is currently looking for a replacement judge to be available on the occasion judge Keil is not available to serve the Municipal Court.
- Staff is currently looking at utilizing two remaining "functions" of the GovPilot software system to replace the Town's aging municipal court software. This process is in the preliminary stages with security of data being the primary consideration to moving forward.

## Human Resources

- The Employers Council consultant is wrapping up his work with the Town, having now completed standard operating procedures on recruiting, application, interviewing, job offer, hiring, termination and performance management HR functions. The balance of the 40 hours of contracted time will involve role out and communication to both the administrative and police departments. With the conclusion of Mr. Butlers involvement, the balance of work will fall to Town employees and is expected to be completed this summer.
- Document consolidation will also be completed in March, bringing all employee files under the scope of HR and away from individual supervisors.



# Community Development

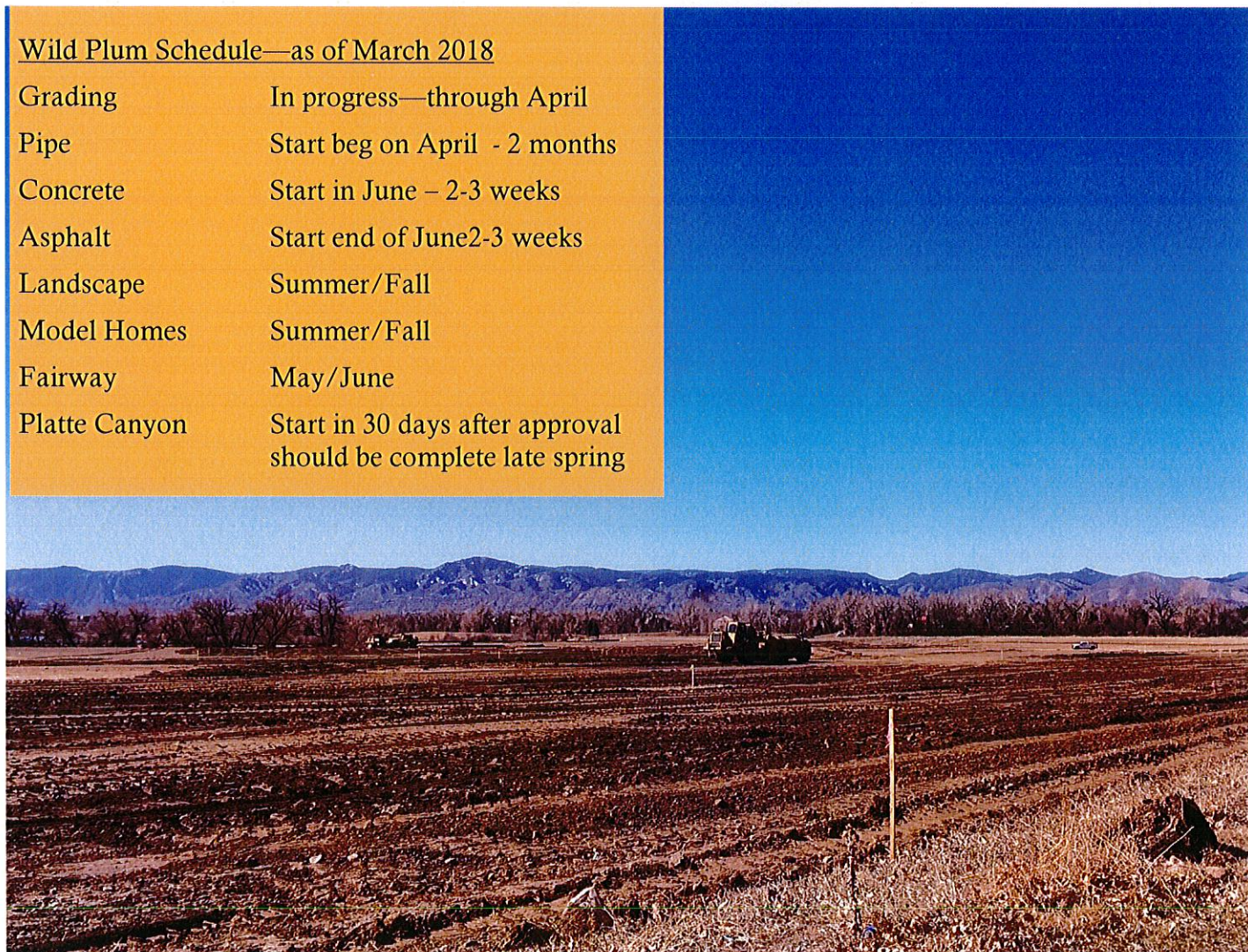
## Wild Plum Farm

Following the Trustee's approval of the Final Plan and Final Plat, the staff has been working on the normal post approval documents which are:

- A. The Hunter Run wall and the traffic signal on Hunter Run are complete. Onsite grading has started and is currently scheduled to be complete by the end of April. Onsite pipe (water and sewer) should get started in April. The Platte Canyon plans have been completed. However, we are still waiting for CDOT to approve them. Once approved, we will get started scheduling the work. We hope we can get started in April.
- B. The Final Plat and Final Development Plan mylars have been signed and are being recorded.
- C. Subdivision Improvements Agreement (SIA). The SIA is complete and incorporated all the staff recommended revisions.
- D. Covenants (CC&R's). The staff reviews the CC&R's to insure that they are consistent with the Town Regulations and the approved Final Plan and Plat. Board approval of the CC&R's is not required but the Board is informed if there are any concerns the Trustee's need to address. The Town Planner and Town Attorney have not completed their review.

### Wild Plum Schedule—as of March 2018

Grading	In progress—through April
Pipe	Start beg on April - 2 months
Concrete	Start in June – 2-3 weeks
Asphalt	Start end of June 2-3 weeks
Landscape	Summer/Fall
Model Homes	Summer/Fall
Fairway	May/June
Platte Canyon	Start in 30 days after approval should be complete late spring







# **Columbine Valley Police Department**

## **Serving Bow Mar**

2 Middlefield Rd. Columbine Valley, Colorado 80123

[www.columbinevalley.org](http://www.columbinevalley.org)

(303) 795-1434

Fax (303) 795-7325

## **Columbine Valley P.D. Monthly Report March 2018**

Full Time Positions	6 of 6
Part Time Positions	2 of 2
Regular / PTO hours	1016.5 / 34.0
OT hours worked	0
Off Duty	0

### **Statistics Report:**

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	SUM
Total	46	43											
SPEEDING	20	12											
PARKING	4	4											
INSURANCE	0	5											
FAIL TO STOP	13	19											
OTHER	9	3											
CV SUMMONS	26	30											
BM SUMMONS	20	13											
Vehicles:													
Mileage	6492	6428											
Fuel	602	606											

### **Investigations Update:**

CV-18-0048  
CV-18-0088  
CV-18-0095  
BM-18-0037

Possession w/ Intent  
Identity Theft  
Identity Theft  
Criminal Extortion

Prosecution Declined  
Prosecution Declined  
Unfounded  
Prosecution Declined

[illegible]







EX ASSAULT IP									
shots Fired									
HOTS FIRED IP									
MURDER ATTEMPT IP									
MURDER COMPLETED IP									
MURDER THREAT IP		<u>1</u>							<u>1</u>
SUSPICIOUS CIRCUMSTANCE IP		<u>2</u>							<u>2</u>
Suspicious Person			<u>1</u>						<u>1</u>
SUSPICIOUS PERSON IP		<u>6</u>							<u>6</u>
Suspicious Vehicle									
SUSPICIOUS VEHICLE IP		<u>6</u>							<u>6</u>
Theft			<u>2</u>						<u>2</u>
Theft from Motor Vehicle									
THEFT FROM MOTOR VEHICLE IP									
THEFT IP									
TRAFFIC ARREST IP			<u>2</u>						<u>2</u>
Traffic Complaint									
TRAFFIC COMPLAINT IP			<u>1</u>						<u>1</u>
TRAFFIC OBSTRUCTION IP		<u>1</u>							<u>1</u>
TRAFFIC STOP IP		<u>71</u>							<u>71</u>
TRANSPORT IP									
Unauthorized Access to Property									
Unauthorized Access to Vehicle									
UNAUTHORIZED ACCESS TO PROPERTY IP									
UNAUTHORIZED ACCESS TO VEHICLE IP									
UNKNOWN INJURY ACCIDENT IP									
UNLAWFUL ACTS IP									
Unwanted Subject									
UNWANTED SUBJECT IP									
VEHICLE LOCKOUT IP									
WARRANT ARREST IP									
WARRANT PICKUP IP									
WARRANT WANTED PERSON/SUBJ IP									
Weapons Violation									
WEAPONS VIOLATION IP									
WELFARE CHECK IP		<u>1</u>							<u>1</u>
WONING IP									
Total		<u>96</u>	<u>40</u>	<u>29</u>		<u>2</u>			<u>167</u>

[Go Back](#)
[Close](#)



TOWN OF COLUMBINE VALLEY  
COMBINED BALANCE SHEET - ALL FUND TYPES AND ACCOUNT GROUPS  
JANUARY 31, 2018

	Totals	
	January 31, 2018	December 31, 2017
<u>Assets</u>		
Cash and investments	\$ 1,543,937	1,559,025
Other receivables	156,089	93,845
Property taxes receivable	289,155	348,047
Property and equipment, net	2,380,367	2,380,367
	<u>\$ 4,369,548</u>	<u>4,381,284</u>
<u>Liabilities and Equity</u>		
Liabilities:		
Accounts payable	\$ 36,589	64,134
Accrued liabilities	30,945	30,990
Deferred property tax revenue	289,155	348,047
Fund balance:		
Reserved - TABOR emergency	56,657	56,657
Conservation Trust	29,911	29,895
Arapahoe County Open Space	354,485	361,555
Unavailable - Fixed assets net of outstanding long term debt	2,380,367	2,380,367
Unreserved	1,191,439	1,109,639
Total equity	<u>4,012,859</u>	<u>3,938,113</u>
	<u>\$ 4,369,548</u>	<u>4,381,284</u>



TOWN OF COLUMBINE VALLEY  
 COMBINED STATEMENT OF REVENUE, EXPENDITURES AND CHANGES IN FUND BALANCE  
 ALL GOVERNMENTAL FUND TYPES  
 BUDGET AND ACTUAL  
 MONTH ENDED JANUARY 31, 2018 AND 2017

Revenue	January Totals		Month Ended January 31, 2018		
	2018	2017	Budget	Actual	Variance
Taxes:					
Property taxes	\$ 58,892	7,422	52,209	58,892	6,683
Specific ownership taxes	2,212	2,420	1,968	2,212	244
Sales and use tax	31,262	31,431	56,792	31,262	(25,530)
Utility franchise fees	5,352	5,286	3,833	5,352	1,519
Cable television	-	-	-	-	-
Permits and fines:					
Permits, fees and services	23,862	9,995	26,667	23,862	(2,805)
Fines	10,400	6,295	5,417	10,400	4,983
Intergovernmental:					
Bow Mar IGA	79,133	83,739	79,133	79,133	-
State highway user's tax	3,727	3,893	3,833	3,727	(106)
County highway tax revenue	-	-	-	-	-
Motor vehicle registration fees	488	466	500	488	(12)
State cigarette tax apportionment	-	-	67	-	(67)
Conservation Trust Fund entitlement	-	-	-	-	-
Arapahoe County Open Space shareback	-	-	-	-	-
Interest income	1,450	580	1,292	1,450	158
Other	68	117	167	68	(99)
Total revenue	216,846	151,644	231,878	216,846	(15,032)
Expenditures					
Current:					
Public safety	51,576	52,106	52,876	51,576	1,300
Sanitation	6,733	6,070	7,000	6,733	267
Administration	60,418	37,447	58,611	60,418	(1,807)
Planning and zoning	3,434	2,275	5,750	3,434	2,316
Public works	4,832	5,711	25,918	4,832	21,086
Other - rounding	(3)	-	-	(3)	3
Capital outlay					
Capital expenditures	8,748	1,675	9,000	8,748	252
Arapahoe County Open Space expenditures	7,500	-	7,500	7,500	-
Conservation Trust Fund expenditures	-	-	-	-	-
Total expenditures	143,238	105,284	166,655	143,238	23,417
Excess of revenue over expenditures	73,608	46,360	65,223	73,608	8,385
Major projects	-	-	-	-	-
Excess of revenue over (under) expenditures and major projects	73,608	46,360	65,223	73,608	8,385
Fund balance - beginning of period	1,558,884	1,539,532	1,378,114	1,558,884	180,770
Fund balance - end of period	\$ 1,632,492	1,585,892	1,443,337	1,632,492	189,155



TOWN OF COLUMBINE VALLEY  
GENERAL FUND  
SCHEDULE OF EXPENDITURES - BUDGET AND ACTUAL  
MONTH ENDED JANUARY 31, 2018 AND 2017

	January 2018	January 2017	Budget	Month Ended January 31, 2018 Actual	Variance
Public safety:					
Automotive expenses	3,238	974	4,250	3,238	1,012
Salaries and benefits	43,247	43,832	41,198	43,247	(2,049)
Municipal court	3,393	3,120	3,542	3,393	149
Other	1,698	4,180	3,886	1,698	2,188
	51,576	52,106	52,876	51,576	1,300
Sanitation	6,733	6,070	7,000	6,733	267
Administration:					
Legal	4,043	2,560	4,000	4,043	(43)
Accounting and audit	750	550	750	750	-
Inspection	6,792	270	12,000	6,792	5,208
Town administration	34,287	22,690	32,130	34,287	(2,157)
Insurance and bonds	4,514	-	2,417	4,514	(2,097)
Office supplies and miscellaneous	7,650	8,918	3,625	7,650	(4,025)
County Treasurer's collection fees	589	74	522	589	(67)
Rent and building occupancy costs	1,793	2,385	3,167	1,793	1,374
	60,418	37,447	58,611	60,418	(1,807)
Planning and zoning					
Planner and Engineering	3,434	2,275	5,750	3,434	2,316
Public works:					
Street repairs and maintenance	1,214	2,676	23,167	1,214	21,953
Street lighting	1,070	1,134	1,250	1,070	180
Weed and tree removal	184	-	292	184	108
Other	2,364	1,901	1,209	2,364	(1,155)
	4,832	5,711	25,918	4,832	21,086
Other - rounding	(3)	-	-	(3)	3
Capital expenditures:					
Public safety	8,748	1,675	9,000	8,748	252
Administration	-	-	-	-	-
Public works	-	-	-	-	-
	8,748	1,675	9,000	8,748	252
Arapahoe Open Space expenditures	7,500	-	7,500	7,500	-
Conservation Trust Fund expenditures	-	-	-	-	-
Total expenditures	135,738	105,284	159,155	135,738	23,417
Major projects:					
Town Hall remodel	-	-	-	-	-
	-	-	-	-	-
	-	-	-	-	-
Total expenditures and major projects	135,738	105,284	159,155	135,738	23,417



TOWN OF COLUMBINE VALLEY  
SUPPLEMENTAL SCHEDULE OF GENERAL FUND EXPENDITURES - BUDGET AND ACTUAL  
MONTH ENDED JANUARY 31, 2018 AND 2017

	January 2018	January 2017	Month Ended January 31, 2018		
			Budget	Actual	Variance
Public Safety:					
Automotive expenses:					
Cruiser gas/oil/maintenance	1,488	974	2,500	1,488	1,012
Cruiser insurance	1,750	-	1,750	1,750	-
	3,238	974	4,250	3,238	1,012
Salaries and benefits:					
Salaries	33,368	34,955	31,923	33,368	(1,445)
Pension plan	3,379	3,240	3,192	3,379	(187)
Health/workman's comp insurance	6,500	5,637	6,083	6,500	(417)
	43,247	43,832	41,198	43,247	(2,049)
Municipal court:					
Municipal court - judge	750	750	750	750	-
Municipal court - legal	2,003	2,175	2,292	2,003	289
Municipal court - other	640	195	500	640	(140)
	3,393	3,120	3,542	3,393	149
Other:					
Uniforms	1,061	1,286	917	1,061	(144)
Education/training	-	595	750	-	750
Arapahoe County dispatch fee	-	-	-	-	-
Supplies/miscellaneous	637	2,299	2,219	637	1,582
	1,698	4,180	3,886	1,698	2,188
Administration:					
Town administration:					
Salaries - administration	15,340	13,564	15,000	15,340	(340)
FICA/Medicare - administration	1,499	1,397	1,538	1,499	39
Health insurance - administration	2,704	3,918	3,000	2,704	296
Pension - administration	920	885	923	920	3
Telephone/communications	299	399	500	299	201
Computer expense	10,619	6	10,542	10,619	(77)
Election expense	-	-	-	-	-
Dues and publications	2,906	2,521	627	2,906	(2,279)
	34,287	22,690	32,130	34,287	(2,157)
Office supplies and miscellaneous:					
Advertising/notices	10	-	42	10	32
Miscellaneous	7,248	8,530	2,750	7,248	(4,498)
Supplies - administration	392	388	833	392	441
	7,650	8,918	3,625	7,650	(4,025)
Legal	4,043	2,560	4,000	4,043	(43)
Accounting and audit	750	550	750	750	-
Inspection	6,792	270	12,000	6,792	5,208
Insurance and bonds	4,514	-	2,417	4,514	(2,097)
County Treasurer's collection fees	589	74	522	589	(67)
Building occupancy costs	1,793	2,385	3,167	1,793	1,374



TOWN OF COLUMBINE VALLEY  
SUPPLEMENTAL SCHEDULE OF GENERAL FUND EXPENDITURES - BUDGET AND ACTUAL  
MONTH ENDED JANUARY 31, 2018 AND 2017

	January 2018	January 2017	Month Ended January 31, 2018		
			Budget	Actual	Variance
Public works:					
Street repairs and maintenance:					
Street/gutter maintenance	363	192	18,750	363	18,387
Snow removal	57	1,471	3,000	57	2,943
Striping	-	-	250	-	250
Signs maintenance	38	-	250	38	212
Vehicle maintenance	531	1,013	292	531	(239)
Other drainage	-	-	625	-	625
Street cleaning	225	-	-	225	(225)
	1,214	2,676	23,167	1,214	21,953
Street lighting	1,070	1,134	1,250	1,070	180
Ground maintenance	184	-	292	184	108
Other:					
Miscellaneous minor public works	2,039	1,656	250	2,039	(1,789)
Storm water permit process	325	245	417	325	92
Professional fees	-	-	542	-	542
	2,364	1,901	1,209	2,364	(1,155)
Capital and Conservation Trust Fund:					
Capital expenditures:					
Administration	-	-	-	-	-
Public safety	8,748	1,675	9,000	8,748	252
Public works	-	-	-	-	-
	8,748	1,675	9,000	8,748	252
Conservation Trust Fund expenditures:					
Miscellaneous	-	-	-	-	-
	-	-	-	-	-





### **Request for Board of Trustee Action**

**Date:** March 20, 2018

**Title:** Trustee Bill #2, Series 2018: Adoption of 2018 IBC

**Presented By:** Jim Thelen, Building Inspector

**Prepared By:** Jim Thelen, Building Inspector; Lee Schiller, Town Attorney

**Background:** Typical new editions of the building codes are adopted every three years. This year because of the new Wild Plum subdivision the 2018 International Residential Code (IRC) and the 2017 National Electric Code (NEC) are proposed for adoption. The remaining building codes will be presented to the Trustees at a later date. If these codes were adopted in 2019 which is normal, the subdivision would be under two different editions of the code. This could lead to confusion for the builder.

At this time there are no amendments to the 2017 NEC. This could possibly change depending on the amendments the State Electric Board might enact. The majority of the changes to the IRC is technical in nature; provide clarity to existing sections or reformatting to make the code easier to use.

Some of the changes in the IRC that might be of interest to the Trustees include:

1. For the approximately the last 20 years the code has required smoke detectors in single family homes. The detectors have to be interconnected with the house wiring so that when one detector goes into alarm all the alarms in the house will go off. For remodels the code still wants the same interconnection but provides an exception that if drywall has to be removed from ceilings or walls, then battery operated detectors are allowed. This has been a problem because homeowners are not always diligent replacing batteries. To alleviate this problem the 2018 codes now allows for wireless detectors. They will operate the same way as those interconnected to the house wiring. This change also applies to carbon monoxide alarms. Most of the wireless models are combination smoke and carbon monoxide.
2. The section regarding deck construction has gone through a comprehensive reorganization. Because the code is the minimum the only information provided in previous codes was sizing of beams, fasteners, foundations and floor joist. This new section incorporates new technology to simplify prescriptive construction of decks. The size of decks over the years has gotten larger and larger where more detailed requirements are required.



3. Commercial cooking appliances are now permitted in dwelling units when installed in accordance with an engineered design and manufacture's instruction. Commercial cooking appliances are manufactured to different standards and do not incorporate the same safety features as domestic cooking appliances. For example, commercial ranges operate at a higher temperature and have less insulation to protect the user. Commercial cooking appliances require greater distances to combustibles and lack child-safe features. Adequate ventilation and make up air also become a concern with high velocity range exhaust hoods. Inadequate make-up air can cause backdraft of the appliance and there is a possibility the negative pressure in the house can cause carbon monoxide being sucked back into the house.

**Attachments:** Trustee Bill #2, Series 2018

**Staff Recommendations:** Approve as presented

**Recommended Motion:** "I move to approve Trustee Bill #2, Series 2018 as presented on 2<sup>nd</sup> Reading...."



TOWN OF COLUMBINE VALLEY

TRUSTEE BILL NO. 2  
SERIES OF 2018

INTRODUCED BY  
TRUSTEE: KATHY BOYLE

A BILL FOR  
AN ORDINANCE

CONCERNING ADOPTION OF THE INTERNATIONAL CODE COUNCIL'S 2018  
INTERNATIONAL RESIDENTIAL CODE; THE 2017 NATIONAL ELECTRIC CODE  
OF THE NATIONAL FIRE PROTECTION ASSOCIATION.

**WHEREAS**, the purpose of the International Residential Code is to provide minimum standards for the public welfare by regulating the construction, alteration, movement, enlargement, replacement, repair, equipment, use and occupancy, location, removal and demolition of detached one and two-family dwellings and town homes not more than three stories in height;

**WHEREAS**, the purpose of the National Electric Code is the practical safeguarding of persons and property from hazards arising from the use of electricity by regulating the installation and removal of electrical conductors, equipment, and raceways; signaling and communication conductors, equipment and raceways; and optical fiber cable and raceways.

**WHEREAS**, copies of the above-mentioned documents are available for inspection in the office Columbine Valley, Colorado during weekday business hours; and

**NOW, THEREFORE, BE IT ORDAINED BY THE BOARD OF TRUSTEES OF THE TOWN OF COLUMBINE VALLEY, COLORADO, THAT:**

**Section 1:** That portion of Chapter 15.08 of the Municipal Code of the Town of Columbine concerning the adoption of the International Building Code of 2015 is hereby repealed and the International Residential Code, Section 2018 Edition of the International Code Council, including Appendix Chapter J is hereby adopted by reference for use and regulation on buildings and structures within the Town. Two (2) copies of said Code are on file in the office of the Town Clerk and may be inspected during regular business hours.

**Section 2:** Chapter 15.08.020 of the Municipal Code of the Town of Columbine Valley is amended to read:



## 15.08.020 AMENDMENTS, MODIFICATIONS AND CHANGES:

(A) Amendments to the International Residential Code: the following amendments are hereby adopted to the International Residential Code:

1. Chapter 1 is hereby deleted; the administrative provisions for the International Residential Code is in Chapter 15.04.20 of the Town of Columbine Valley Municipal Code.
2. Table R301.2(1) is hereby amended to read:

**Design Criteria:** the design criteria for the Town of Columbine Valley shall be as follows:

Nominal Wind Speed	115mph
Ultimate Wind Speed	138 per table R301.2.1.5.1
Frost Depth	36"
Seismic Design Category	B
Termite	slight to moderate
Decay	none to slight
Weathering	severe
Winter Design temperature	1 degree
Ice and shield underlayment required	yes
100-year rainfall	2.67" per hour.

Manual J Design Criteria							
Elevation	Latitude	Winter heating	Summer cooling	Altitude Correction factor	Indoor design temperature	Design cooling temperature	Heating Temperature difference
-	39° N	-3°	90%	0.84	70%	70°	73°
Cooling temperature difference	Wind velocity heating	Wind velocity cooling	Coincident wet bulb	Daily Range	Winter humidity	Summer humidity	-
-	15	7-5	-32 to 48	High	30%	45% to 50%	-



3. Table 302.6 **Dwelling\Garage Separation**, is hereby amended to read:

<b><u>Separation</u></b>	<b><u>Materials</u></b>
From the residence and attic	5/8" X gypsum board applied to the garage side
From habitable rooms above garage	Not less than 5/8" x gypsum board
Structures supporting floor ceiling assemblies used for separation required by the section	Not less than 5/8" x gypsum board
Garages located less than 3 feet from a dwelling unit on the same lot	Not less than 5/8"x gypsum board applied to the interior side of the exterior walls that are within this area

4. Section 302.7 is hereby repealed and reenacted to read:

R302.7 **Under stairs protection:** Enclosed accessible spaces under stairs shall have walls, under stair surfaces and any soffit protected on the enclosed side with 5/8" X gypsum board.

5. Section R313 **Automatic Fire Sprinkler System:** is hereby deleted without substitution.
6. In the Town of Columbine Valley which has areas likely to have expansive, compressible, shifting or unknown soils characteristics, a site-specific soils report, prepared by a geo-technical engineer shall be submitted with the building permit application for all new habitable structures. This soils test shall be made by an approved agency using approved methods.
7. Section R401.4.1 **Geo-technical Evaluation:** is hereby deleted in its entirety and without substitution.
8. Section R403.1.4.1 **Frost Protection:** is hereby repealed and reenacted to read.

Except where otherwise protected from frost foundation walls, piers and other permanent supports of buildings, patio enclosures, sun rooms and other similar structures shall be protected from frost by one or more of the following methods:

1. Extend below the frost line in accordance with Table R301.2(1) (minimum 36")



2. Construction in accordance with Section R4003.3
  3. Construction in accordance with ASCE 32.
  4. Erected on solid rock.
9. Section R908.3. **Roof Replacement:** The following sentence shall be the last sentence of this section: "In the case of a partial reroof, the replacement shingles shall be of the same type and color".
  10. Section R1004.4 **Unvented Gas Log Heaters:** is hereby deleted without substitution.
  11. Section M1503.6 is hereby amended by a new Section M1503.6.4 **Makeup Air Temperature:** The temperature differential between the makeup air and the air in the conditioned space shall not exceed 10 degrees Fahrenheit.
  12. Chapter 11 is hereby amended by a new section N1112 which shall read:

**N1112 Mandatory Energy Conservation Requirements for Residential Remodeling.**

Section N1112.1 **General:** This section shall apply to remodeling of residential properties to include but not limited to additions, basement finishes, and interior remodel.

Section N1112.2 **Requirements:** In addition to other requirements located in this chapter the following mandatory requirements in Table N1112.1 shall apply.

**Table N1112.1**  
**Energy Conservation Requirements**  
**For Residential Remodeling**

Building Thermal Envelope	New or exposed cavities created during remodel shall be sealed to limit air leakage
	New or exposed cavities shall be insulated with minimum R-19
	All new windows shall have a fenestration rating of .30
	All new or exposed openings into unconditioned spaces with R-49 and R-19 for walls and openings shall



	be weather strip
Ducts	All new or exposed heating and cooling ducts shall be air-sealed
	All new and exposed heating and cooling ducts in unconditioned spaces shall be insulated with minimum R-10

13. Section G2425.8 **Appliances not Required to be Vented:** is hereby amended by the deletion of Item 7.
14. Section G2445 Unvented Gas Room Heaters is hereby deleted without substitution.
15. Section P2903: **Water Supply Systems:** is hereby amended by the addition of a new subsection P2309.12 which shall read:  
  
P2309.12 **Location of Lawn Sprinkler Manifolds:** Lawn sprinkler system manifolds and drain valves shall be located a minimum five feet from the building foundation.
16. **Swimming Pools, Spas, and Hot Tub:** requirements shall be in accordance with Chapter 31 in the 2018 International Building Code.

**Section 3:** Section 15.12.010 of the Municipal Code of the Town of Columbine Valley is hereby repealed and reenacted to read:

15.12.010 **Adoption of Code:** The National Electric Code, 2017 Edition of the National Fire Protection Association is hereby adopted by reference, for regulating the installation, enlargement, repair and maintenance of electrical systems of all kinds. Two (2) copies of said Code are on file in the office of the Town Clerk and may be inspected during regular business hours.

**Section 4:** Should any section clause, sentence, part or portion of this Ordinance be adjudged by any court to be unconstitutional or invalid, the same shall not affect, impair, or invalidate the Ordinance as a whole or any part thereof other than the part or portion declared by such court to be unconstitutional or invalid.

**Section 5:** The Town Clerk shall certify the passage of this Ordinance and cause notice of its contents and passage to be published.

**Section 6:** Ordinance shall be in full force and effect upon the expiration of thirty (30) days after publication of this Ordinance in the Littleton Independent, Littleton, Colorado, said newspaper being a weekly newspaper duly qualified for publishing legal notices and advertisements within the meaning of the laws of the State of Colorado.



**Section 7:** All ordinances or resolutions, or parts thereof, in conflict with this ordinance are hereby repealed, provided that this repealer shall not repeal the repealer clauses of such ordinance nor revive any ordinance thereby.

PUBLIC HEARING on the Ordinance to take place on the \_\_\_\_ day of \_\_\_\_\_, 2018, in the Offices of Columbine Valley, 2 Middlefield. Road, Town of Columbine Valley, Colorado, on March 20, 2018, at the hour of 7:00 p.m., or as soon thereafter as it may be heard.

Introduced as Trustee Bill No. 2, series of 2018, at a regular meeting of the Board of Trustee of the Town of Columbine Valley, Colorado, on the \_\_\_\_\_ day of \_\_\_\_\_ 2018, passed by a vote of \_\_\_\_ for and \_\_\_\_ against, on first reading; passed on second reading, as Trustee Bill No. 2, 2018, at a regular meeting of the Board of Trustees by a vote of \_\_\_\_ for and \_\_\_\_ against on the \_\_\_\_\_ day of \_\_\_\_\_, 2018, and ordered published in the Littleton Independent on the \_\_\_\_ day of \_\_\_\_\_, 2018.

\_\_\_\_\_  
Richard Champion, Mayor

TRUSTEE BILL NO.2  
SERIES OF 2018

ATTEST:

\_\_\_\_\_  
J.D. McCrumb,  
Clerk of the Town of Columbine Valley



### **Request for Board of Trustee Action**

**Date:** March 20, 2018

**Title:** Trustee Bill #3, Series 2018 – Flood Damage Prevention

**Presented By:** J.D. McCrumb, Town Administrator

**Prepared By:** Troy Carmann, Town Engineer, Lee Schiller, Town Attorney

**Background:** The Town of Columbine Valley participates in the National Flood Insurance Program (NFIP). The cost of participating in the NFIP is the Town maintaining local ordinances that keep buildings and people out of the floodplain as much as possible. The benefits of participating in this national program include reduced cost flood insurance for residential structures and hazard mapping support from the Federal Emergency Management Agency (FEMA). The Urban Drainage and Flood Control District (UDFCD) works with FEMA to update and maintain hazard mapping to reflect current conditions on a recurring basis (about every 10 years).

At this time, UDFCD has a new flood hazard map for the Dutch Creek floodplain within the Town of Columbine Valley. The Town has had a floodplain ordinance for several decades. The Town has updated the ordinance several times over the years. The last update was in 2013 when the State required additional updates to match the State rules.

This action simply updates the effective date of the maps in the ordinance.

**Attachments:** Trustee Bill #3, Series 2018  
Map illustrating flood plain changes

**Staff Recommendations:** Approve as presented

**Recommended Motion(s):** “I move to approve as presented Trustee Bill #3, Series 2018 on 2<sup>nd</sup> Reading”.



TRUSTEE BILL NO. 3  
SERIES OF 2018

INTRODUCED BY  
TRUSTEE: KATHY BOYLE

A BILL FOR AN ORDINANCE  
OF THE TOWN OF COLUMBINE VALLEY CONCERNING FLOOD DAMAGE  
PREVENTION

NOW THEREFORE BE IT ORDAINED BY THE BOARD OF TRUSTEES OF THE TOWN  
OF COLUMBINE VALLEY, COLORADO, as follows:

Section 1. That Section 15.36.070 of the Municipal Code of the Town of Columbine Valley is hereby amended in its entirety to read as follows:

Section 15.36.070. Basis For Establishing The Areas Of Special Flood Hazard.

The areas of special flood hazard identified by the Federal Emergency Management Agency in a scientific and engineering report entitled, "The Flood Insurance Study for Arapahoe County, Colorado and Incorporated Areas," effective April 18, 2018, with accompanying Flood Insurance Rate Maps (FIRM) and any revisions thereto are hereby adopted by reference and declared to be a part of this ordinance. These Special Flood Hazard Areas identified by the FIS and attendant mapping are the minimum area of applicability of this Ordinance and may be supplemented by studies designated and approved by the Town of Columbine Valley. The Floodplain Administrator shall keep a copy of the Flood Insurance Study (FIS), DFIRMs and/or FIRMs on file and available for public inspection.

Section 2. Should any section clause, sentence, part or portion of this Ordinance be adjudged by any court to be unconstitutional or invalid, the same shall not affect, impair, or invalidate the Ordinance as a whole or any part thereof other than the part or portion declared by such court to be unconstitutional or invalid.

Section 3. The Town Clerk shall certify the passage of this Ordinance and cause notice of its contents and passage to be published.

Section 4. This Ordinance shall be in full force and effect upon the expiration of thirty (30) days after the publication of this Ordinance in the Littleton Independent, Littleton, Colorado, said newspaper being a weekly newspaper duly qualified for publishing legal notices and advertisements within the meaning of the laws of the State of Colorado.

Introduced as Trustee Bill No. 3, series of 2018, at a regular meeting of the Board of Trustees of the Town of Columbine Valley, Colorado, on the 20<sup>th</sup> day of February, 2018, passed by a vote of \_\_\_\_ for and 0 against, on first reading; passed on second reading at a regular meeting of the Board of Trustees held by a vote of \_\_\_\_ for and \_\_\_\_ against on the \_\_\_\_ day

of \_\_\_\_\_, 2018, and ordered published in the Littleton Independent on the \_\_\_\_ day of \_\_\_\_\_, 2018.

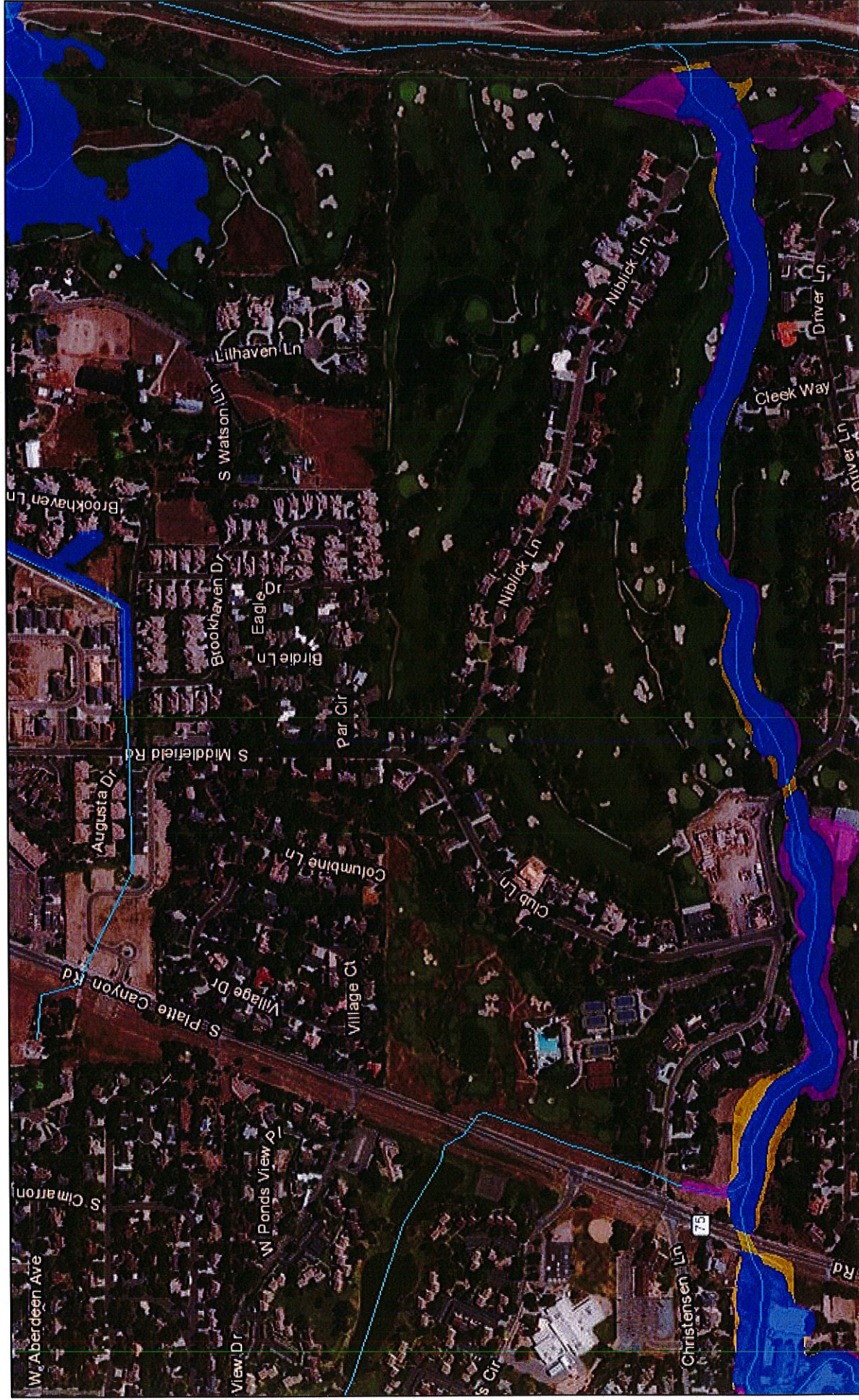
\_\_\_\_\_  
Richard Champion, Mayor

ATTEST:

\_\_\_\_\_  
J.D. McCrumb, Clerk of the Town of Columbine Valley



# ArcGIS Web Map



3 / 13 / 2018 3 : 09 : 44 PM

**Floodplain Changes Since Last FIRM**

- Floodplain Increase
- Floodplain Decrease
- Floodplain No Change
- Streams

1:9,028  
0 0.075 0.15 0.3 mi  
0 0.075 0.15 0.3 km

Esri, HERE, Garmin, © OpenStreetMap contributors  
Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus





**Request for Board of Trustee Action**

**Date:** March 20, 2018

**Title:** Resolution #6, Series 2018 - 2017 Amended Budget

**Presented By:** Jeff Tempas, Town Treasurer

**Prepared By:** Jeff Tempas, Town Treasurer

**Attachments:** Resolution #6, Series 2018  
2017 Amended Budget

**Recommended Motion:** "I move to approve Resolution #6, Series of 2018 amending the 2017 Town Budget as presented."



RESOLUTION NO. 6  
SERIES OF 2018

A RESOLUTION APPROPRIATING ADDITIONAL SUMS OF MONEY TO DEFRAY  
EXPENSES IN EXCESS OF AMOUNTS BUDGETED FOR THE TOWN OF COLUMBINE  
VALLEY, COLORADO.

WHEREAS, the Town of Columbine Valley has experienced substantial development activity in 2017, and additional road replacement/repair expense which had not been anticipated at the time the original budget for 2017 was approved; and

WHEREAS, the Town of Columbine Valley has received unanticipated revenues from new development activity which was not assured at the time the original budget for 2017 was approved; and

WHEREAS, expenses have been incurred in association with the aforementioned development and road replacement/repair expenses which were also unanticipated at the time the original budget for 2017 was approved; and

WHEREAS, Section 29-1-109, CRS, as amended, provides that if, after adoption of the budget, the Town receives unanticipated revenue or revenue not assured at the time of the adoption of the budget, the Board of Trustees may authorize the expenditure of such funds by enacting a supplemental budget and appropriation following the holding of a Public Hearing.

NOW, THEREFORE, BE IT RESOLVED by the Board of Trustees of the Town of Columbine Valley, Colorado:

Section 1. That the appropriation for the General Fund is hereby increased from \$1,694,500 to \$1,930,500 for the purpose of funding inspection, plan review and plan development costs and road replacement/repair expenses associated with new development and road improvement activity in 2017 which had not been anticipated at the time the original budget for 2017 was approved.

Section 2. Should any one or more sections or provisions of this Resolution be judicially determined invalid or unenforceable, such judgment shall not affect, impair, or invalidate the remaining provisions of this Resolution, the intention being that the various sections and provisions are severable.

Section 3. Any and all Resolutions or parts thereof in conflict or inconsistent herewith are, to the extent of such conflict or inconsistency, hereby repealed; provided however, that the repeal of any such Resolution or part thereof shall not revive any other section or part of any Resolution heretofore repealed or superseded.

PASSED, ADOPTED AND APPROVED by a vote of \_\_\_\_\_ for and \_\_\_\_\_ against this  
20<sup>th</sup> day of March, 2018.

\_\_\_\_\_  
JD McCrumb, Clerk

\_\_\_\_\_  
Richard Champion, Mayor



**Town of Columbine Valley**  
**2017 Budget**  
**Narrative Portion**  
**Amended February 2018**

February 20, 2018

The 2017 Town budget consists of a financial portion and a related narrative portion.

Basis of Accounting

The Budget is prepared and accounting records are maintained using a modified accrual basis of accounting. Revenues, such as property taxes and sales taxes are recorded when susceptible to accrual, i.e., both measurable and available. Available means collectible within the budget year or soon thereafter. Expenditures are recorded when a liability is incurred.

General Information

The Town has one General Fund, which is increased by revenues received from various Town imposed taxes and fees. The Fund is decreased by expenditures for (1) Town operating expenses and (2) amounts set aside (reserved) or appropriated for major infrequent purchases such as police vehicles, operating equipment etc., and major one time only public works. Amounts, set aside, are placed in designated or general type reserves. Amounts in these reserves are depleted as a major purchase is made or a major public works project is undertaken. Small reserves have also been established for controlling the spending of restricted lottery receipts (Conservation Trust Fund) and Arapahoe County Open Space Shareback sales tax receipts.

Sources of revenues are explained below. The main sources, however, are property taxes and various sales taxes. The amount of property taxes levied each year has been the maximum permitted in order to fund operating expenses and reserves for major public works deemed needed by the Town. Columbine Valley is subject to various property tax limitation statutes, notably Amendment #1, (TABOR/Bruce Amendment) and others.

The Town's on-going commitments for expenditures are as follows:

- Public Safety – Police protection and municipal court activity (now includes the Town of Bow Mar)
- Sanitation – Trash removal
- Public Works – Town street and property maintenance
- Administration – Town office expense including election, publication, legal and other operating costs
- Planning & Zoning – Town development expenses

Amendment #1

On November 3, 1992, the voters of Colorado passed Amendment #1 that restricts the rate of increase in spending by local governments. The maximum annual percentage change in any year's spending and property tax revenues is limited to 1) inflation (rise in consumer price index) plus 2) a percentage equal to the net percentage change in the Town's actual valuation of all real property. Spending may be increased if the voters in the Town approve additional taxes through an initiative referendum election. Revenues that exceed Amendment #1 limits are refunded in the following year unless the voters approve otherwise. In November 1998 the Town was successful in passing a referred measure to authorize the Town to collect, retain and spend all excess revenue collected in 1998, and thereafter, without regard to any limitations under TABOR provided that no local tax rate or mill levy be increased without further voter approval.

## Sources of Fund Increases

### Property Taxes – General Fund - \$328,683

With the advent of Amendment #1, three separate (limiting) calculations are made to determine the allowable property tax levy for the General Fund. The lowest of the three is the maximum property taxes that the Town may collect. These three calculations for 2017 are as follows:

1. Amendment #1 property tax revenue limitation - \$328,623
2. Amendment #1 mill levy rate limitation - \$374,575
3. Statutory 5.5% property tax revenue limitation - \$336,893

The lowest of the three amounts is the first calculation.

The following simple explanations are a short description of the three calculations, which can be very complicated.

The 1<sup>st</sup> calculation is based upon the percentage increase (2015 to 2016) in actual value of Town real property plus an allowance for the rise in the consumer price index multiplied by the 2016 certified property tax revenue.

The 2<sup>nd</sup> calculation is based upon the 2015 mill levy times the 2016 assessed valuation of the Town real property.

The 3<sup>rd</sup> calculation is based upon the 2015 adjusted assessed valuation of Town real property multiplied by the 2015 mill levy, adjusted for a 5.5% statutory increase.

### Specific Ownership Tax - \$20,954

Specific ownership taxes are collected by the County Department of Motor Vehicles for vehicles registered in the Town. The amount allocated to the Town by the County is based upon its proportionate share of all County imposed property taxes. The budget for 2017 reflects an approximate 7.2% increase from the projected revenue for 2016.

### Sales & Use Tax - \$625,000

The Town collects sales taxes on retail sales within the Town boundaries. These taxes come from sales by Columbine Country Club, its pro shop, CenturyLink, and A T & T. The Town also collects sales tax on automobile purchases by Town residents and on materials purchased for new and remodel home construction. The 2017 Budget provides for the construction of sixteen (16) new homes in two continuing developments in 2017. The 2017 Budget also anticipates remodeling costs to be approximately \$6.6 million generating \$100,000 in sales taxes. Other sales taxes are estimated to be virtually the same as the 2016 projected levels with the exception of a modest increase in sales taxes from Columbine Country Club as the new clubhouse is estimated to be complete in late summer.

### Utility Franchise Fee - \$48,000

Utility franchise fees come from two sources, Public Service Company of Colorado (Xcel Energy) and CenturyLink (formerly Qwest). The fee received from Public Service is 3% of their billings to Town residents. An annual flat fee of \$3 is received from CenturyLink for each local telephone line in the Town. These fees are budgeted to increase by \$3,000 from actual fees projected for 2016. This amount may continue to increase over the next few years largely as a result of additional new homes in the Town.



#### Cable TV - \$28,000

In 2016, the Town granted a non-exclusive fifteen-year cable franchise covering all of Columbine Valley to a new cable operator and is renegotiating an extension of the franchise with the existing cable operator. Both franchise agreements stipulate that the Town receive an annual fee equal to 5% of gross cable receipts by the cable operator. Cable revenues have increased in recent years, likely due to increased premium services and new home construction. Our budget for 2017 anticipates revenues equal to our projection for 2016.

#### Permits Fees - \$326,000

Permit fees (including plan review fees) are based upon the projection of sixteen (16) new homes in 2017 and remodeling activity approximately double that of 2016.

#### Fines - \$72,000

Tickets and fines issued by the Town police are a function of the level of police staff maintained during the year. We anticipate that 2017 revenues will increase over our current projection for 2016 to levels closer to those realized in prior years. These amounts include revenues generated through the issuance of tickets within the Town of Bow Mar ('Bow Mar').

#### Intergovernmental Revenues

Where available, intergovernmental revenues are estimated based upon information and estimates provided by the governmental agencies. Other estimates are made based upon prior year actual revenues. The Colorado Municipal League provides the estimate used for Highway User Tax (Motor Fuel Tax).

- State Highway Users Tax – 2016 projection is \$42,000; 2017 budget is \$46,000
- County Highway Mill Tax – 2016 projection is \$14,000; 2017 budget is \$12,000
- Cigarette Tax Apportionment – 2016 projection is \$800; 2017 budget is \$800
- Motor Vehicle Registration Fees – 2016 projection is \$6,000; 2017 budget is \$6,000

Effective January 1, 2014, the Town renewed its intergovernmental agreement with Bow Mar for a five year term and continues to assume the responsibility for public safety and municipal court activities for that town. In connection with this and the prior agreement and for providing these services, Bow Mar will have paid the Town \$260,910 in 2016 and will pay \$268,216 for 2017. The payments for 2017 and 2018 will be calculated based upon a formula using the then current consumer price index change. The agreement also provides that the Town will refund a portion of this fee in the event the Town is unable to maintain a total police force of six officers for the entire calendar year. There was no refund required under this provision for 2015, and none is projected for 2016.

The Town entered into a new intergovernmental agreement with Bow Mar effective November, 2016 to provide Building Department administrative services. The fee for these services will be \$40,000 in 2017. This agreement will extend through 2018 unless terminated earlier according to the provisions of the agreement.

#### Interest - \$8,000

The estimate for Town funds to be invested during 2017 is an average of \$1,100,000 at an estimated weighted interest rate of .73%.

#### Other - \$15,800

Other revenues include small receipts, miscellaneous in nature, which are received each year plus the sale of a retired police vehicle.

## Sources of Fund Decreases

### Public Safety - \$651,500

Public safety costs include both Town police expense and the expense of operating its municipal court. The Town intends to employ six full time and one or more part time police officers in 2017 to accommodate its expanded coverage area, which includes Bow Mar. Costs include salaries and benefits, uniforms, training, vehicle expense (four owned vehicles) and supplies. Municipal court costs are projected to remain at the projected 2016 level. In 2008 the Town became subject to a new charge from Arapahoe County for providing dispatch services. These services had been provided in the past at no cost to the Town. The annual charge was increased for the first time in 2016 to \$26,380. We have estimated the same payment for 2017.

### Sanitation - \$75,000

The Town contracts with Allied Waste Services for trash removal. A new contract executed in 2012 is for a five year term with no increase in the monthly fee for three years. The fee then increased by four percent in 2016 and will increase again in 2017.

### Administration - \$623,000

Costs that are considered part of administration and their percentage to total administration costs are as follows:

	<u>2016</u>	<u>2017</u>
• Town office salaries and benefits	43%	38%
• Legal, accounting and audit	14%	12%
• Insurance	6%	5%
• Building inspection fees	16%	26%
• Town Hall maintenance and utilities	12%	6%
• Other	9%	13%

Office salaries include four full time employees in 2017 and two full time employees and one part-time employee in 2016. Included in benefits are the cost of health insurance and a pension plan.

Legal fees are very dependent upon activities occurring within the Town. The primary need for legal services in 2017 will be preparation for and attendance at regular meetings of the Town Trustees. We also pay our Treasurer (non-volunteer position) a fixed fee of \$550 per month for services. We incurred a modest increase in the cost of the annual audit of the Town in 2016 due to the continuing integration of several recently expanded reporting requirements.

Insurance costs, other than health insurance, are estimated to increase approximately 5% in 2017. Our insurance carrier is Travelers Insurance effective 2010. Our Workman's Compensation insurance carrier is Pinnacol Assurance.

Building inspection fees are very dependent upon new construction within the Town. The budget for 2017 assumes a normal level of inspections and plan reviews associated with remodeling in the Town and the aforementioned sixteen (16) new homes to be constructed in 2017.

Town Hall maintenance and utilities include normal occupancy costs associated with office space including, but not limited to, water, power, lighting, janitorial services, lawn maintenance, and cleaning supplies.

Other costs include the issuance of periodic newsletters and/or flyers, a Town directory, publication of official notices, election expenses (generally in even years only), office supplies, and the possible archival of all of the Town's historical records.



#### Planning & Zoning - \$69,000

The costs included in this category are all associated with mapping, zoning and developing property within the Town. Incremental costs associated with requests from developers to review and approve new projects within the Town are generally recovered from the developers. The budget for 2017 takes into account the current development activity (three active developments) in the Town. A portion of these costs may be recovered if there is significant activity in planning the active developments within the Town.

#### Public Works - \$512,000

Town property maintenance costs include street and gutter maintenance and repair, snow removal, street lighting, road striping, park maintenance and maintenance and repairs associated with Town equipment. The Town has projected the fourth year of a multi-year street improvement project to be overseen by our consulting engineering firm. We have budgeted \$420,000 towards this effort for 2017. For 2017, the Town has determined to handle snow removal services internally, relying on a new full-time public works employee and additional part-time help, as necessary. This new public works employee will also devote time to property maintenance and repair. Some services, such as street cleaning and sealing are contracted from the City of Littleton or other third-party vendors.

### **General Fund Reserve Activity**

#### Arapahoe County Open Space Shareback Fund – Receipts - \$30,000

This new fund was established to receive a portion of the .25% sales tax enacted in Arapahoe County in 2005 to provide funding for local open space projects. These funds are generally available for the purchase and maintenance of new open space lands within our municipality. As these funds become significant, the Town Trustees will identify and pursue projects which will be appropriate for these funds.

#### Conservation Trust Fund – Receipts - \$ 6,000 and expenditures - \$6,000

The Conservation Trust Fund receives annual proceeds from the state lottery profits. Columbine Valley is one of more than 400 cities, towns, counties and special recreation districts to receive a portion of these funds. Distribution is based upon population. The use of these funds is restricted to park and recreation spending and is currently dedicated to maintenance of the park surrounding the Town Hall.

#### Capital expenditures - \$53,000

The capital expenditures projected for 2017 include a new police vehicle to replace the oldest of the current fleet (\$43,000). The other expenditure (\$10,000) is for an emergency generator to be located at the Town Hall.

#### Reserve Balance

Reserves (Fund Balances) at the beginning of 2016 were \$1,454,873. Of this amount, \$1,097,257 was unrestricted and available for recurring operating needs. Activity for 2016 and 2017 is expected to decrease the unrestricted reserve balance to \$1,039,951. A desirable reserve balance is an amount equal to one year's budgeted recurring operating expenditures, or approximately \$1,400,000, which will require continued vigilance by the Town Trustees to control operating costs as well as capital spending.

**TOWN OF COLUMBINE VALLEY**  
**2017 BUDGET**  
**FINANCIAL PORTION**  
**Amended February 2018**

**SUMMARY**

**General Fund Activity**

Revenues		
Operating	\$ 1,845,453	
From Reserve	<u>85,047</u>	\$ 1,930,500
Expenditures		
Operating	\$ 1,930,500	
To Reserve	<u>-</u>	<u>1,930,500</u>

**Reserve Activity**

Additions		
2017 Budget (Above)	\$ -	
Arapahoe County Open Space Shareback	30,000	
Conservation Trust Fund	<u>6,000</u>	\$ 36,000

Expenditures		
2017 Budget (Above)	85,047	
Capital Expenditures	53,000	
Major Capital Projects	-	
Conservation Trust Fund	<u>6,000</u>	<u>144,047</u>

Net Increase (Decrease) in Reserves	(108,047)	
Reserves at Beginning of Year	<u>1,505,614</u>	
Reserves at End of Year	<u>\$ 1,397,567</u>	



**TOWN OF COLUMBINE VALLEY**  
**General Fund Revenues & Expenditures**  
**2017 Budget**  
**Amended February 2018**

	Actual 2015	Budget 2016	Actual 2016	Budget 2017
<b>Revenues</b>				
Taxes				
Property Taxes	\$ 306,177	312,843	312,222	328,683
Specific Ownership Taxes	23,165	20,097	23,983	20,954
Sales and Use Taxes	568,295	631,000	710,552	625,000
Utility Franchise Fees	47,141	48,000	44,652	48,000
Cable Television Fees	28,228	25,000	30,568	28,000
Permits and Fines				
Permits, Fees and Services	205,141	149,000	359,835	326,000
Fines	76,765	80,000	62,268	72,000
Intergovernmental				
Town of Bow Mar Police	255,795	260,910	260,910	268,216
Town of Bow Mar Admin			6,685	40,000
State Highway User's Tax	46,584	43,000	44,051	46,000
County Highway Tax Revenue	14,823	12,000	11,668	12,000
Motor Vehicle Registration Fees	5,672	6,000	6,046	6,000
State Cigarette Tax Apportionment	896	650	755	800
Interest	2,093	2,500	6,657	8,000
Other	25,954	9,000	14,389	15,800
From General Reserve	-	65,000	-	85,047
	<u>\$ 1,606,729</u>	<u>1,665,000</u>	<u>1,895,241</u>	<u>1,930,500</u>
<b>Expenditures</b>				
Public Safety	\$ 629,788	668,000	675,931	651,500
Sanitation	67,355	72,000	71,010	75,000
Administration	418,911	435,500	685,295	623,000
Planning and Zoning	72,239	67,000	51,106	69,000
Public Works	311,669	422,500	307,050	512,000
To General Reserve	106,767	-	104,849	-
	<u>\$ 1,606,729</u>	<u>1,665,000</u>	<u>1,895,241</u>	<u>1,930,500</u>
<b>Reserve Additions</b>				
From General Fund	\$ 106,767	-	104,849	-
Arapahoe County Open Space Shareback	28,250	30,000	33,737	30,000
Conservation Trust Fund	6,346	6,000	8,648	6,000
	<u>\$ 141,363</u>	<u>\$ 36,000</u>	<u>\$ 147,234</u>	<u>\$ 36,000</u>
<b>Reserve Expenditures</b>				
To General Fund	-	65,000	-	85,047
Capital Expenditures	39,284	130,000	90,493	53,000
Conservation Trust Fund Expenditures	6,000	6,000	6,000	6,000
	<u>45,284</u>	<u>201,000</u>	<u>96,493</u>	<u>144,047</u>
Net Increase (Decrease) in Reserves	96,079	(165,000)	50,741	(108,047)
Beginning Reserves Balance	1,358,794	1,454,873	1,454,873	1,505,614
Ending Reserves Balance	<u>\$ 1,454,873</u>	<u>1,289,873</u>	<u>1,505,614</u>	<u>1,397,567</u>

**TOWN OF COLUMBINE VALLEY**  
**General Fund Operating Expenditure Detail**  
**2017 Budget**  
**Amended February 2018**

	Actual 2015	Budget 2016	Actual 2016	Budget 2017
<b>Public Safety</b>				
Cruiser Gas, Oil and Maintenance	\$ 24,732	35,000	20,975	30,000
Cruiser Insurance	6,100	6,500	8,125	6,500
Salaries	398,051	405,000	445,367	400,000
FFPA Pension	37,920	37,500	38,557	40,000
Health Insurance	45,160	53,120	38,786	45,000
Workers Comp Insurance	20,145	26,000	18,219	26,000
Uniforms	5,233	8,000	9,245	8,000
Education and Training	652	7,500	2,727	7,500
Supplies and Other	28,330	20,000	31,639	19,620
Arapahoe County dispatch fees	25,800	26,380	26,380	26,380
Municipal Court Judge	8,250	9,000	9,000	9,000
Municipal Court Legal	25,785	27,500	23,606	27,500
Municipal Court Supplies	2,255	2,000	1,805	2,000
Municipal Court Administration	1,375	4,500	1,500	4,000
	<u>\$629,788</u>	<u>668,000</u>	<u>675,931</u>	<u>651,500</u>
<b>Administration</b>				
Advertising	\$ 286	500	378	500
Legal	36,850	40,000	36,378	48,000
Accounting and Audit	19,800	21,000	22,085	26,500
Building Inspection	74,300	74,500	143,576	163,000
Building Maintenance and Utilities	39,117	36,500	34,444	39,000
Salaries	132,849	154,000	149,333	185,000
Payroll Taxes	12,754	12,320	15,930	14,800
Health Insurance	13,867	14,000	17,842	30,000
Pension	6,566	7,700	8,618	9,250
Telephone	5,716	5,500	6,893	5,500
Supplies	5,879	5,000	10,512	25,500
Insurance and Bonds	23,678	27,155	34,452	29,000
Miscellaneous	31,891	22,000	80,411	30,000
Economic Incentive	-	-	104,930	-
County Treasurer's Fees	3,065	3,128	3,125	3,287
Computer expense	5,196	5,000	10,762	5,000
Election Expense	-	2,000	35	2,000
Newsletter and Directory	7,097	5,197	5,591	6,663
	<u>\$418,911</u>	<u>435,500</u>	<u>685,295</u>	<u>623,000</u>
<b>Public Works</b>				
Street and Gutter Maintenance	\$241,809	300,000	232,260	420,000
Snow Removal	12,460	15,600	9,484	8,000
Striping	3,787	3,000	4,707	3,000
Signs Maintenance	450	3,000	1,340	3,000
Vehicle Maintenance	2,055	2,500	7,624	3,500
Other Drainage/Water	11,575	15,400	13,385	13,500
Street Cleaning	-	2,000	-	2,000
Street Lighting	13,916	15,000	13,031	15,000
Ground and Other Maintenance	5,635	3,500	2,680	3,500
Other Maintenance/Homeowner Funds	10,840	10,000	10,000	14,000
NPDES Expense	5,246	9,000	4,864	5,000
Salary	-	20,000	-	15,000
Professional Fees	3,896	23,500	7,675	6,500
	<u>\$311,669</u>	<u>422,500</u>	<u>307,050</u>	<u>512,000</u>



**TOWN OF COLUMBINE VALLEY**  
**Capital and Reserve Expenditure Detail**  
**2017 Budget**  
**Amended February 2018**

	Actual 2015	Budget 2016	Actual 2016	Budget 2017
<b>Capital Expenditures</b>				
Public Safety				
Vehicle	\$ 39,284	-	-	43,000
Other	-	10,000	11,000	-
Administration				
Computer and Peripherals	-	-	-	-
Other		20,000	-	10,000
Public Works				
Streets	-	-	-	-
Other	-	-	16,546	-
	<u>\$ 39,284</u>	<u>30,000</u>	<u>27,546</u>	<u>53,000</u>
<b>Major Capital Projects</b>				
Town Hall Remodel	\$ -	100,000	62,947	-
Other	-	-	-	-
	<u>\$ -</u>	<u>100,000</u>	<u>62,947</u>	<u>-</u>
<b>Conservation Trust Fund Expenditures</b>				
Parks	<u>\$ 6,000</u>	<u>6,000</u>	<u>6,000</u>	<u>6,000</u>













TOWN OF COLUMBINE VALLEY																
Detail and Support for Planning and Zoning Expense Projections																
	2008	2009	2010	2011	2012	2013	2014	2015	2016	2016	2016	2017	Responsibility/Comments			
	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Budget	9 Mo Act	Actual	Budget	DOTSON	DOTSON		
Town planner	840	560	455	2,520	9,048	14,495	31,257	44,366	46,500	60,845	36,106	50,000			2017 COMMENTS	
Town engineers	8,049	12,791	6,567	3,972	6,152	32,683	21,205	27,873	19,000	14,161	15,000	17,500			DETAIL BELOW	
	-	-	-	-	-	-	-	-	1,500	-	-	1,500				
Miscellaneous	8,889	13,351	7,022	6,492	15,200	47,178	52,462	72,239	67,000	75,006	51,106	69,000				
PHIL:																
Planning - no reimb									46,500			50,000				
Planning Asst Planner									23,125			23,125				ANTICIPATE NO CHANGE
Platte Canyon Road									3,500			3,500				ANTICIPATE NO CHANGE
Traffic study/studies									6,000			20,000				RAMPING UP
Contingency									12,500			2,000				PRETTY MUCH DONE
									1,375			1,375				
TROY:																
Planning assistance									19,000			17,500				
Platte Canyon Road									1,000			5,000				DEPENDENT ON WPF
Pavement project supervision									2,500			1,500				PER TROY
Urban Drainage									10,000			3,750				PER TROY
Contingency									5,500			2,250				PER TROY

TOWN OF COLUMBINE VALLEY													
Detail and Support for Public Works Expense Projections													
	2008	2009	2010	2011	2012	2013	2014	2015	2016	2016	2016	2017	
	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Budget	9 Mo Act	Actual	Budget	Responsibility/Comments
													Change
Street/Gutters	51,731	31,141	44,406	39,614	39,512	15,214	289,491	241,809	300,000	12,502	232,260	420,000	PALMER - NOTE A
Snow Removal	2,915	4,303	2,390	4,688	4,056	2,800	6,298	12,460	15,600	8,850	9,484	8,000	PALMER - NOTE B
Striping	2,484	493	1,003	1,352	1,025	1,587	1,828	3,787	3,000	2,716	4,707	3,000	PALMER
Signs	2,297	1,860	2,193	1,213	615	202	6,316	450	3,000	1,226	1,340	3,000	PALMER
Vehicle Maintenance	3,028	4,173	1,652	4,475	1,751	2,833	896	2,055	2,500	4,267	7,624	3,500	PALMER
Other	7,665	6,932	7,442	7,196	8,467	7,134	2,810	877	5,900	485	13,385	6,000	PALMER - NOTE C
Maint/Water - Hunter Run						9,288	9,187	10,698	9,500	4,283		7,500	PALMER - NOTE D
Street Cleaning	442						825		2,000	178		2,000	PALMER
Street Lighting	11,923	12,285	13,576	12,237	16,090	13,263	13,980	13,916	15,000	10,123	13,031	15,000	PALMER
Ground Maintenance	26,507	20,014	22,257	10,493	3,988	9,135	895	5,635	3,500	4,019	2,680	3,500	PALMER - Note 1
Storm water permit activity	9,731	5,168	5,503	3,404	4,157	4,442	2,605	5,246	9,000	4,317	4,864	5,000	PALMER
Homeowner Assn subsidy					8,040		8,040	10,840	10,000	10,000	10,000	14,000	PALMER - Note 2
Salary/wages - Hobbes	-	-	-	5,632	16,795		8,336	3,896	23,500	6,580	-	15,000	PALMER - Note 4
Professional Fees	118,723	86,369	100,422	90,304	104,496	65,898	351,507	311,669	422,500	77,576	307,050	512,000	PALMER - Note 3
													-
													-
													-
													-
													-
													-
													-
													-
													-
													-
													-
													-
													-
													-
													-
													-
													-
													-
													-
													-
													-
													-
													-
													-
													-
													-
													-
													-
													-
													-
													-
													-
													-
													-
													-
													-
													-
													-
													-
													-
													-
													-
													-
													-
													-
													-
													-
													-
													-
													-
													-
													-
													-
													-
													-
													-
													-
													-
													-
													-
													-
													-
													-
													-
													-
													-
													-
													-
													-
													-
													-
													-
													-
													-
													-
													-



4:02 PM

03/13/18

**Town of Columbine Valley**  
**Payroll Liability Balances - CO Withholding Monthly Rpt**  
January 2018

---

	BALANCE
Payroll Liabilities	
CO - Withholding	1,706.00
Total Payroll Liabilities	1,706.00



### **Request for Board of Trustee Action**

**Date:** March 20, 2018

**Title:** Town Speed Limit Discussion

**Presented By:** J.D. McCrumb, Town Administrator

**Background:** At the February meeting, Trustee Boyle discussed lowering the speed limit in parts or all of Town. At that meeting the Board tabled the issue until March and directed staff to produce any document or study relevant to the discussion.

**Attachments:** Brookhaven Study Jan/Feb 2013  
Stolfus Study 7/20/2015  
Stolfus Study 8/30/2017  
CDOT Speed Limit Brochure



## **Speed Limits in the town of Columbine Valley**

### **25 MILES PER HOUR:**

**Old town (except by the country club where it is 15 mph)**

**The Village**

**Brookhaven**

**Hunters Run**

### **20 MILES PER HOUR:**

**Burning Tree**

**Willowcroft ( Willowcroft has one sign when you are leaving the neighborhood, not entering)**

### **15 MILES PER HOUR:**

**Wilder Lane**

**Columbine Country Club at 17 Fairway Lane**

**NO SIGNS:** This may be due to the speed limit signs on the main streets closest to the neighborhood's entrances.

**Avignon**

**Country Club Villas**

**Columbine Valley Estates**

**All Traffic Data Services**

**1/31/13 & 2/1/13**

Brookhaven Lane/So of Bowles

Daily Trips 260

AM/PM Peak Hr.-28/23

Brookhaven Ln/Brookhaven Pl

Daily Trips-337

AM/PM Peak Hr.-47/36



"Regarding trip generation, we are always required and it is typical traffic engineering procedure to use ITE published data. The land use code within ITE for housing is based on a typical residential development, similar to the one that you and I live in. However, ITE does have a category for Senior Adult Housing – Detached. There aren't many studies or data with that use, but there are average trip rates provided. A comparison shows that those units generate about 40 percent of the daily traffic and 30 percent of the peak hour traffic of a typical residential subdivision."



Site Code: 4  
Station ID:  
BROOKHAVEN S/O BOWLES AVE

Start Time	01-Feb-13 Fri	NB	SB	Total
12:00 AM		0	0	0
01:00		0	0	0
02:00		0	0	0
03:00		1	1	0
04:00		0	0	2
05:00		4	0	0
06:00		12	0	4
07:00		<b>26</b>	2	12
08:00		20	<b>5</b>	<b>28</b>
09:00		15	0	25
10:00		15	3	15
11:00		14	0	18
12:00 PM		9	2	14
01:00		<b>15</b>	6	11
02:00		15	6	21
03:00		12	3	21
04:00		13	4	15
05:00		11	<b>13</b>	17
06:00		9	3	<b>24</b>
07:00		3	5	12
08:00		1	1	8
09:00		3	2	2
10:00		1	2	5
11:00		2	1	3
Total		201	59	3
Percent		77.3%	22.7%	260
AM Peak		07:00	08:00	
Vol.		26	5	07:00
PM Peak		13:00	17:00	28
Vol.		15	13	17:00
Total		385	126	24
Percent		75.3%	24.7%	511
ADT		ADT 251	AADT 251	





Site Code: 4  
 Station ID:  
 BROOKHAVEN S/O BOWLES AVE

Start Time	31-Jan-13 Thu	NB	SB	Total
12:00 AM		2	0	2
01:00		0	0	0
02:00		0	0	0
03:00		1	1	2
04:00		0	0	0
05:00		4	0	4
06:00		14	1	15
07:00		<b>22</b>	2	<b>24</b>
08:00		18	<b>4</b>	22
09:00		16	1	17
10:00		10	2	12
11:00		9	1	10
12:00 PM		11	2	13
01:00		12	6	18
02:00		13	1	14
03:00		<b>15</b>	4	19
04:00		7	12	19
05:00		8	<b>15</b>	<b>23</b>
06:00		8	4	12
07:00		1	3	4
08:00		2	0	2
09:00		7	4	11
10:00		2	1	3
11:00		2	3	5
Total		184	67	251
Percent		73.3%	26.7%	
AM Peak		07:00	08:00	07:00
Vol.		22	4	24
PM Peak		15:00	17:00	17:00
Vol.		15	15	23



Site Code: 3  
Station ID:  
BROOKHAVEN LN W/O BROOKHAVEN PL

EB

Start Time	15	16	21	26	31	36	41	46	51	56	61	66	71	76	999	Total
01/31/13	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	2
01:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:00	5	4	0	2	1	1	0	0	0	0	0	0	0	0	0	13
08:00	1	3	3	2	2	0	0	0	0	0	0	0	0	0	0	11
09:00	1	2	4	4	1	0	0	0	0	0	0	0	0	0	0	12
10:00	3	0	5	4	0	0	0	0	0	0	0	0	0	0	0	12
11:00	0	2	4	4	2	0	0	0	0	0	0	0	0	0	0	12
12 PM	0	3	0	5	2	0	0	0	0	0	0	0	0	0	0	10
13:00	0	1	3	5	1	0	0	0	0	0	0	0	0	0	0	10
14:00	2	3	8	2	1	0	0	0	0	0	0	0	0	0	0	16
15:00	0	0	2	11	4	0	0	0	0	0	0	0	0	0	0	17
16:00	1	1	6	8	1	0	0	0	0	0	0	0	0	0	0	17
17:00	0	2	6	6	4	0	0	0	0	0	0	0	0	0	0	18
18:00	1	0	3	4	1	0	0	0	0	0	0	0	0	0	0	9
19:00	1	1	6	3	0	0	0	0	0	0	0	0	0	0	0	11
20:00	1	1	4	6	0	0	0	0	0	0	0	0	0	0	0	12
21:00	0	1	4	7	0	0	0	0	0	0	0	0	0	0	0	12
22:00	0	0	0	2	1	0	0	0	0	0	0	0	0	0	0	3
23:00	0	0	2	1	0	0	0	0	0	0	0	0	0	0	0	3
Total	16	24	60	76	21	3	0	0	0	0	0	0	0	0	0	200

Daily  
15th Percentile : 18 MPH  
50th Percentile : 25 MPH  
85th Percentile : 30 MPH  
95th Percentile : 34 MPH  
  
Mean Speed(Average) : 24 MPH  
10 MPH Pace Speed : 21-30 MPH  
Number in Pace : 136  
Percent in Pace : 68.0%  
Number of Vehicles > 55 MPH : 0  
Percent of Vehicles > 55 MPH : 0.0%





1131

Site Code: 3  
Station ID:

BROOKHAVEN LN W/O BROOKHAVEN PL

WB

Start Time	15	16	21	26	31	36	41	46	51	56	61	66	71	76	Total
	15	20	25	30	35	40	45	50	55	60	65	70	75	999	
01/31/13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:00	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
05:00	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
06:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
07:00	0	0	4	4	3	0	0	0	0	0	0	0	0	0	0
08:00	1	0	3	2	2	0	0	0	0	0	0	0	0	0	11
09:00	0	0	0	4	3	1	0	0	0	0	0	0	0	0	8
10:00	1	0	1	5	1	1	0	0	0	0	0	0	0	0	8
11:00	0	0	2	0	0	0	0	0	0	0	0	0	0	0	9
12 PM	2	0	1	3	1	1	0	0	0	0	0	0	0	0	2
13:00	0	1	1	2	3	0	0	0	0	0	0	0	0	0	8
14:00	0	0	2	1	0	0	0	0	0	0	0	0	0	0	7
15:00	0	1	2	3	6	0	0	0	0	0	0	0	0	0	3
16:00	0	0	2	5	1	0	0	0	0	0	0	0	0	0	12
17:00	0	4	4	5	2	1	0	0	0	0	0	0	0	0	8
18:00	0	0	4	3	1	1	0	0	0	0	0	0	0	0	16
19:00	2	1	0	2	1	0	0	0	0	0	0	0	0	0	9
20:00	0	1	0	0	0	0	0	0	0	0	0	0	0	0	6
21:00	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
22:00	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
23:00	0	0	1	0	1	0	0	0	0	0	0	0	0	0	1
Total	7	8	27	41	26	5	0	0	0	0	0	0	0	0	114

Daily

15th Percentile : 21 MPH  
50th Percentile : 27 MPH  
85th Percentile : 33 MPH  
95th Percentile : 35 MPH

Mean Speed(Average) : 27 MPH  
10 MPH Pace Speed : 22-31 MPH  
Number in Pace : 69  
Percent in Pace : 60.5%  
Number of Vehicles > 55 MPH : 0  
Percent of Vehicles > 55 MPH : 0.0%



Site Code: 3  
Station ID:  
BROOKHAVEN LN W/O BROOKHAVEN PL

WB

Start Time	1 15	16 20	21 25	26 30	31 35	36 40	41 45	46 50	51 55	56 60	61 65	66 70	71 75	76 999	Total
02/01/13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:00	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
03:00	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
04:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:00	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
06:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:00	2	1	2	4	1	1	0	0	0	0	0	0	0	0	11
08:00	0	1	3	6	0	2	0	1	0	0	0	0	0	0	13
09:00	1	1	0	4	0	0	0	0	0	0	0	0	0	0	6
10:00	0	1	1	1	0	0	0	0	0	0	0	0	0	0	3
11:00	0	0	0	1	2	1	0	0	0	0	0	0	0	0	4
12 PM	4	0	3	3	1	0	0	0	0	0	0	0	0	0	11
13:00	0	0	1	3	0	0	0	0	0	0	0	0	0	0	4
14:00	1	2	4	2	2	0	0	0	0	0	0	0	0	0	11
15:00	0	0	1	4	4	0	0	0	0	0	0	0	0	0	9
16:00	0	3	6	2	0	0	0	0	0	0	0	0	0	0	11
17:00	0	5	4	3	3	0	0	0	0	0	0	0	0	0	15
18:00	0	1	2	3	0	0	0	0	0	0	0	0	0	0	6
19:00	0	0	2	0	0	0	0	0	0	0	0	0	0	0	2
20:00	0	1	2	0	0	0	0	0	0	0	0	0	0	0	3
21:00	0	0	1	2	0	0	0	0	0	0	0	0	0	0	3
22:00	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
23:00	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
Total	10	17	33	38	14	4	0	1	0	0	0	0	0	0	117

Daily  
15th Percentile : 18 MPH  
50th Percentile : 25 MPH  
85th Percentile : 31 MPH  
95th Percentile : 35 MPH  
Mean Speed(Average) : 25 MPH  
10 MPH Pace Speed : 21-30 MPH  
Number in Pace : 71  
Percent in Pace : 60.7%  
Number of Vehicles > 55 MPH : 0  
Percent of Vehicles > 55 MPH : 0.0%

Grand Total	17	25	60	79	40	9	0	1	0	0	0	0	0	0	231
-------------	----	----	----	----	----	---	---	---	---	---	---	---	---	---	-----

Overall  
15th Percentile : 19 MPH  
50th Percentile : 26 MPH  
85th Percentile : 32 MPH  
95th Percentile : 35 MPH  
Mean Speed(Average) : 26 MPH  
10 MPH Pace Speed : 21-30 MPH  
Number in Pace : 139  
Percent in Pace : 60.2%  
Number of Vehicles > 55 MPH : 0  
Percent of Vehicles > 55 MPH : 0.0%





Site Code: 3  
Station ID:  
BROOKHAVEN LN W/O BROOKHAVEN PL

EB

Start Time	15	16	21	26	31	36	41	46	51	56	61	66	71	76	Total
	15	20	25	30	35	40	45	50	55	60	65	70	75	999	
02/01/13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:00	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
03:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:00	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
06:00	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
07:00	3	0	2	4	1	0	0	0	0	0	0	0	0	0	10
08:00	0	3	2	4	2	0	0	0	0	0	0	0	0	0	11
09:00	0	2	10	2	1	0	0	0	0	0	0	0	0	0	15
10:00	2	2	2	3	1	0	0	0	0	0	0	0	0	0	10
11:00	1	2	2	7	2	0	0	0	0	0	0	0	0	0	14
12 PM	2	2	3	7	0	0	0	0	0	0	0	0	0	0	14
13:00	1	1	6	8	1	0	0	0	0	0	0	0	0	0	17
14:00	0	0	6	5	1	0	0	0	0	0	0	0	0	0	12
15:00	1	0	13	5	3	0	0	0	0	0	0	0	0	0	22
16:00	2	1	9	4	1	0	0	0	0	0	0	0	0	0	17
17:00	0	3	4	11	0	0	0	0	0	0	0	0	0	0	18
18:00	0	0	6	3	0	0	0	0	0	0	0	0	0	0	9
19:00	0	3	6	2	1	0	0	0	0	0	0	0	0	0	12
20:00	0	2	4	7	1	0	0	0	0	0	0	0	0	0	14
21:00	0	0	4	3	1	0	0	0	0	0	0	0	0	0	8
22:00	0	0	2	2	0	0	0	0	0	0	0	0	0	0	4
23:00	0	0	3	1	0	0	0	0	0	0	0	0	0	0	4
Total	12	22	86	78	16	0	0	0	0	0	0	0	0	0	214

Daily  
15th Percentile : 20 MPH  
50th Percentile : 25 MPH  
85th Percentile : 29 MPH  
95th Percentile : 32 MPH  
Mean Speed(Average) : 24 MPH  
10 MPH Pace Speed : 21-30 MPH  
Number in Pace : 164  
Percent in Pace : 76.6%  
Number of Vehicles > 55 MPH : 0  
Percent of Vehicles > 55 MPH : 0.0%

Grand Total	28	46	146	154	37	3	0	0	0	0	0	0	0	0	414
-------------	----	----	-----	-----	----	---	---	---	---	---	---	---	---	---	-----

Overall  
15th Percentile : 19 MPH  
50th Percentile : 25 MPH  
85th Percentile : 30 MPH  
95th Percentile : 33 MPH  
Mean Speed(Average) : 24 MPH  
10 MPH Pace Speed : 21-30 MPH  
Number in Pace : 300  
Percent in Pace : 72.5%  
Number of Vehicles > 55 MPH : 0  
Percent of Vehicles > 55 MPH : 0.0%

All Traffic Data Services  
Wheat Ridge, CO 80033  
303-668-0220

File Name : #2 BROOKHAVEN&BROOKHAVEN AM

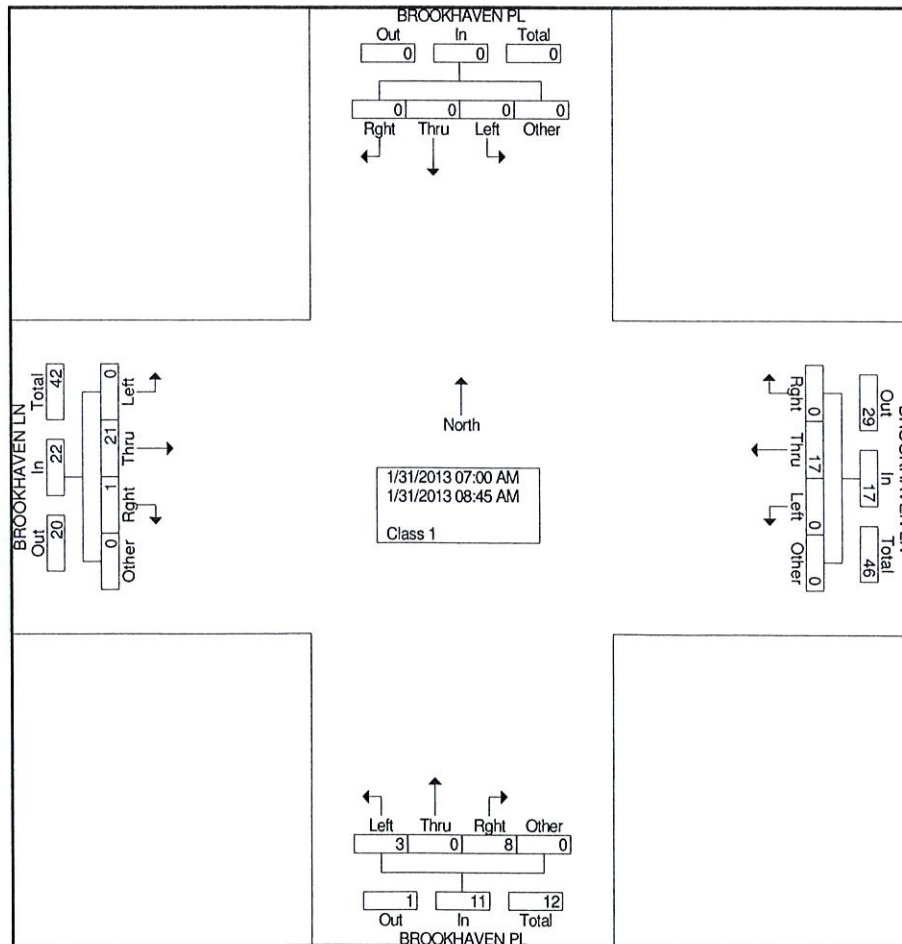
Site Code : 00000000

Start Date : 1/31/2013

Page No : 1

Groups Printed- Class 1

	BROOKHAVEN PL Southbound				BROOKHAVEN LN Westbound				BROOKHAVEN PL Northbound				BROOKHAVEN LN Eastbound				Int. Total
Start Time																	
07:00 AM	0	0	0	0	0	2	0	0	0	0	0	0	0	2	0	0	4
07:15 AM	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	2
07:30 AM	0	0	0	0	0	2	0	0	3	0	1	0	0	3	0	0	9
07:45 AM	0	0	0	0	0	6	0	0	0	0	0	0	0	5	0	0	11
Total	0	0	0	0	0	10	0	0	4	0	1	0	0	11	0	0	26
08:00 AM	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	2
08:15 AM	0	0	0	0	0	0	0	0	2	0	0	0	0	1	0	0	3
08:30 AM	0	0	0	0	0	4	0	0	1	0	0	0	1	3	0	0	9
08:45 AM	0	0	0	0	0	3	0	0	0	0	2	0	0	5	0	0	10
Total	0	0	0	0	0	7	0	0	4	0	2	0	1	10	0	0	24
Grand Total	0	0	0	0	0	17	0	0	8	0	3	0	1	21	0	0	50
Apprch %	0	0	0	0	0	100	0	0	72.7	0	27.3	0	4.5	95.5	0	0	
Total %	0	0	0	0	0	34	0	0	16	0	6	0	2	42	0	0	





All Traffic Data Services  
Wheat Ridge, CO 80033  
303-668-0220

File Name : #2 BROOKHAVEN&BROOKHAVEN PM

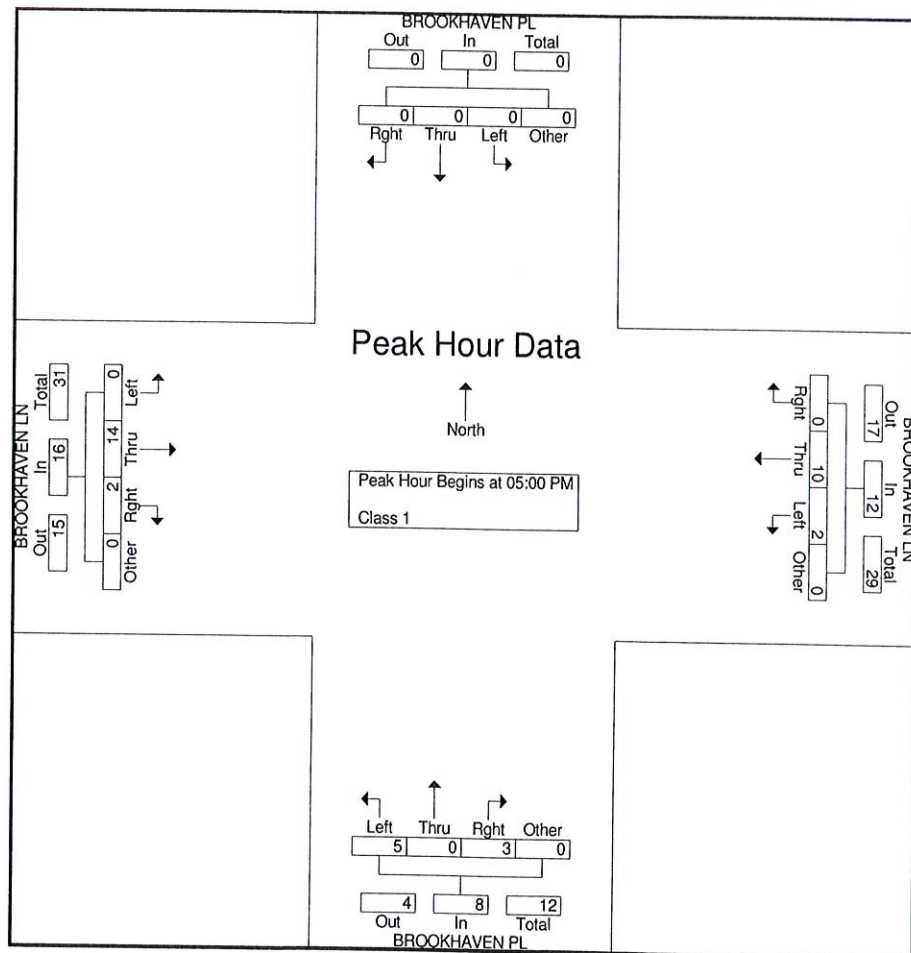
Site Code : 00000000

Start Date : 1/31/2013

Page No : 2

*Jan 2*

	BROOKHAVEN PL Southbound					BROOKHAVEN LN Westbound					BROOKHAVEN PL Northbound					BROOKHAVEN LN Eastbound					
Start Time	Right	Thru	Left	Other	App. Total	Right	Thru	Left	Other	App. Total	Right	Thru	Left	Other	App. Total	Right	Thru	Left	Other	App. Total	Int. Total
Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 05:00 PM																					
05:00 PM	0	0	0	0	0	0	2	0	0	2	3	0	1	0	4	0	5	0	0	5	11
05:15 PM	0	0	0	0	0	0	3	0	0	3	0	0	1	0	1	0	3	0	0	3	7
05:30 PM	0	0	0	0	0	0	3	1	0	4	0	0	2	0	2	0	3	0	0	3	9
05:45 PM	0	0	0	0	0	0	2	1	0	3	0	0	1	0	1	2	3	0	0	5	9
Total Volume	0	0	0	0	0	0	10	2	0	12	3	0	5	0	8	2	14	0	0	16	36
% App. Total	0	0	0	0	0	0	83.3	16.7	0		37.5	0	62.5	0		12.5	87.5	0	0		
PHF	.000	.000	.000	.000	.000	.000	.833	.500	.000	.750	.250	.000	.625	.000	.500	.250	.700	.000	.000	.800	.818



All Traffic Data Services  
Wheat Ridge, CO 80033  
303-668-0220

File Name : #1 BROOKHAVEN&BROOKHAVEN AM

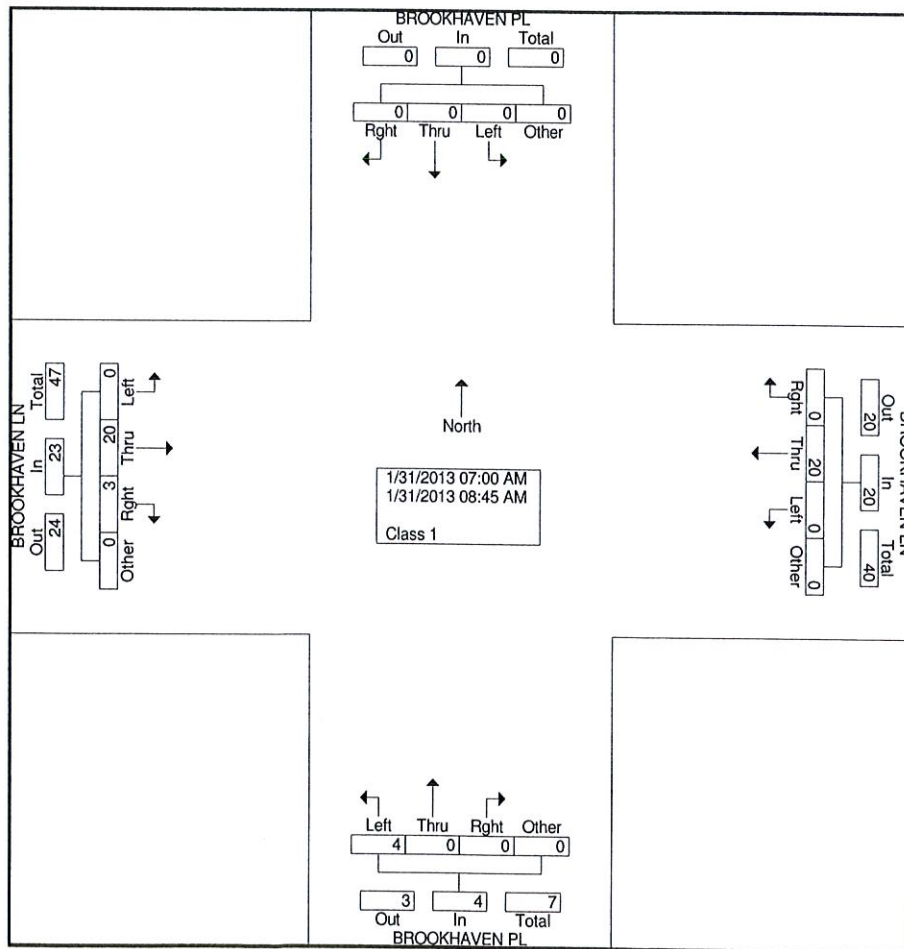
Site Code : 00000000

Start Date : 1/31/2013

Page No : 1

Groups Printed- Class 1

Start Time	BROOKHAVEN PL Southbound				BROOKHAVEN LN Westbound				BROOKHAVEN PL Northbound				BROOKHAVEN LN Eastbound				Int. Total
	Right	Thru	Left	Other	Right	Thru	Left	Other	Right	Thru	Left	Other	Right	Thru	Left	Other	
07:00 AM	0	0	0	0	0	3	0	0	0	0	0	0	0	1	0	0	4
07:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:30 AM	0	0	0	0	0	3	0	0	0	0	0	0	1	3	0	0	7
07:45 AM	0	0	0	0	0	5	0	0	0	0	0	0	0	5	0	0	10
Total	0	0	0	0	0	11	0	0	0	0	0	0	1	9	0	0	21
08:00 AM	0	0	0	0	0	1	0	0	0	0	0	0	0	2	0	0	3
08:15 AM	0	0	0	0	0	0	0	0	0	0	2	0	1	0	0	0	3
08:30 AM	0	0	0	0	0	5	0	0	0	0	2	0	1	5	0	0	13
08:45 AM	0	0	0	0	0	3	0	0	0	0	0	0	0	4	0	0	7
Total	0	0	0	0	0	9	0	0	0	0	4	0	2	11	0	0	26
Grand Total	0	0	0	0	0	20	0	0	0	0	4	0	3	20	0	0	47
Apprch %	0	0	0	0	0	100	0	0	0	0	100	0	13	87	0	0	
Total %	0	0	0	0	0	42.6	0	0	0	0	8.5	0	6.4	42.6	0	0	

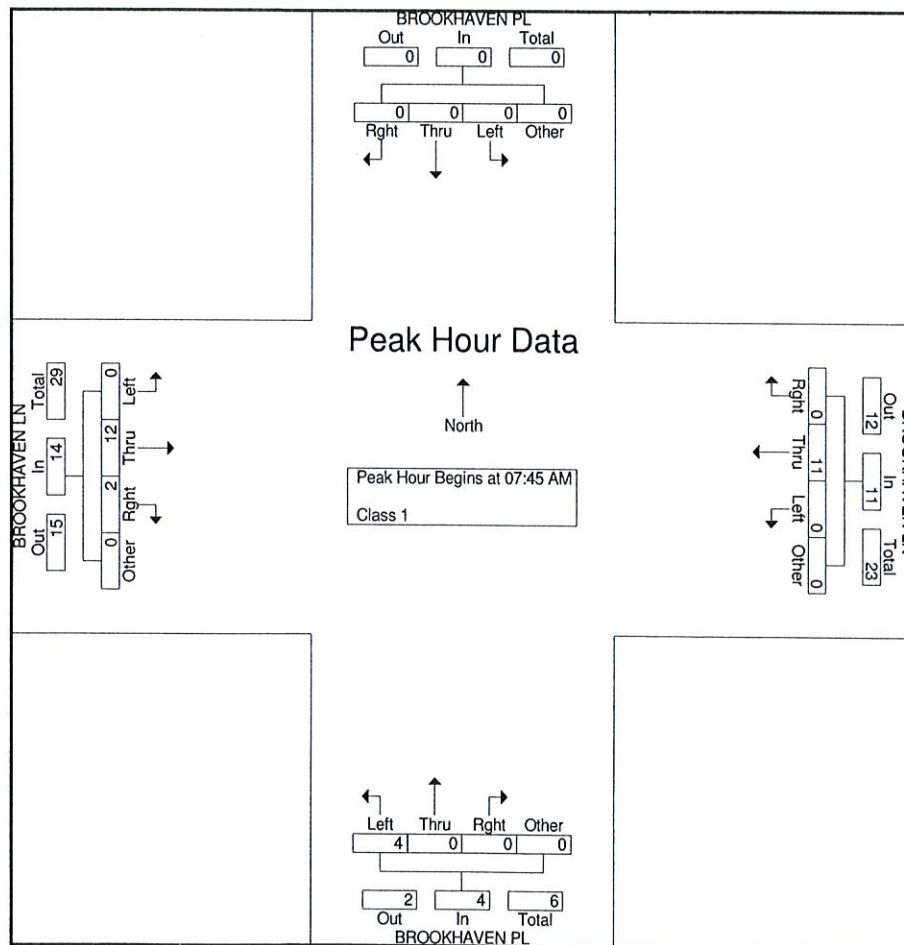




All Traffic Data Services  
Wheat Ridge, CO 80033  
303-668-0220

File Name : #1 BROOKHAVEN&BROOKHAVEN AM  
Site Code : 00000000  
Start Date : 1/31/2013  
Page No : 2

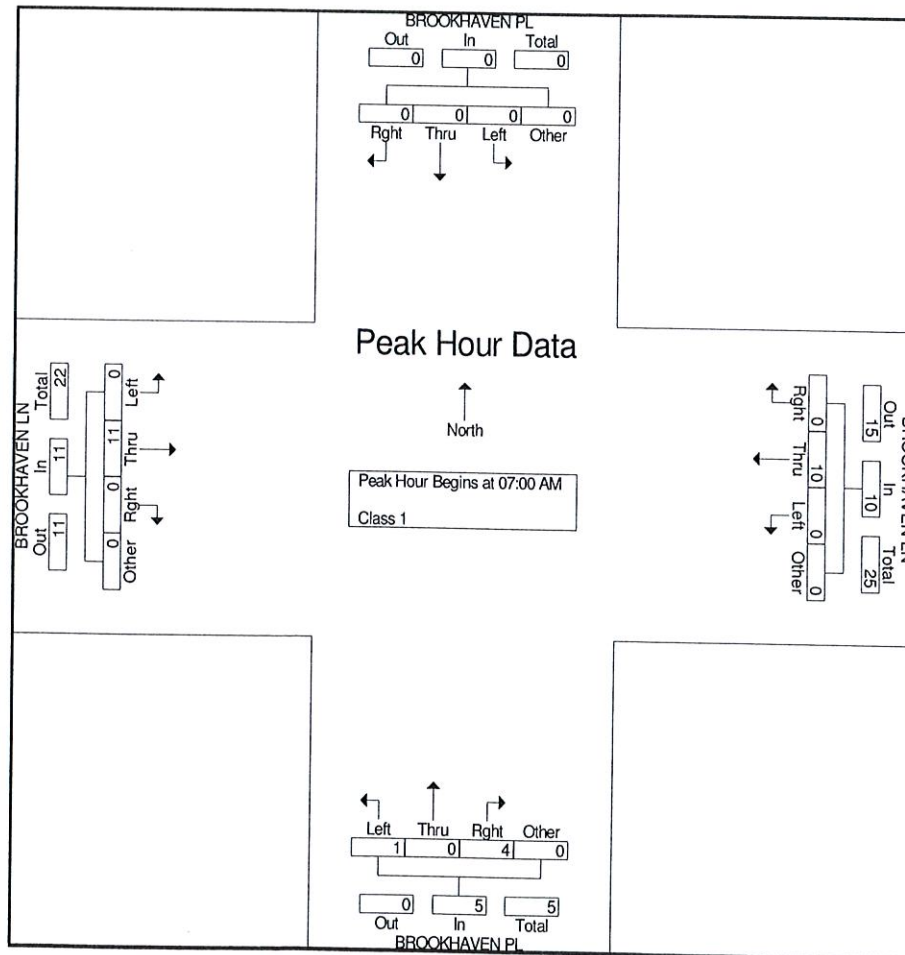
	BROOKHAVEN PL Southbound					BROOKHAVEN LN Westbound					BROOKHAVEN PL Northbound					BROOKHAVEN LN Eastbound					
Start Time	Right	Thru	Left	Other	App. Total	Right	Thru	Left	Other	App. Total	Right	Thru	Left	Other	App. Total	Right	Thru	Left	Other	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 07:45 AM																					
07:45 AM	0	0	0	0	0	0	5	0	0	5	0	0	0	0	0	0	5	0	0	5	10
08:00 AM	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	2	0	0	2	3
08:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2	1	0	0	0	1	3
08:30 AM	0	0	0	0	0	0	5	0	0	5	0	0	2	0	2	1	5	0	0	6	13
Total Volume	0	0	0	0	0	0	11	0	0	11	0	0	4	0	4	2	12	0	0	14	29
% App. Total	0	0	0	0	0	0	100	0	0	100	0	0	100	0	100	14.3	85.7	0	0	0	0
PHF	.000	.000	.000	.000	.000	.000	.550	.000	.000	.550	.000	.000	.500	.000	.500	.500	.600	.000	.000	.583	.558



All Traffic Data Services  
Wheat Ridge, CO 80033  
303-668-0220

File Name : #2 BROOKHAVEN&BROOKHAVEN AM  
Site Code : 00000000  
Start Date : 1/31/2013  
Page No : 2

	BROOKHAVEN PL Southbound					BROOKHAVEN LN Westbound					BROOKHAVEN PL Northbound					BROOKHAVEN LN Eastbound					
Start Time	Right	Thru	Left	Other	App. Total	Right	Thru	Left	Other	App.Total	Right	Thru	Left	Other	App. Total	Right	Thru	Left	Other	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 07:00 AM																					
07:00 AM	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	2	0	0	2	4
07:15 AM	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	1	0	0	1	2
07:30 AM	0	0	0	0	0	0	2	0	0	2	3	0	1	0	4	0	3	0	0	3	9
07:45 AM	0	0	0	0	0	0	6	0	0	6	0	0	0	0	0	0	5	0	0	5	11
Total Volume	0	0	0	0	0	0	10	0	0	10	4	0	1	0	5	0	11	0	0	11	26
% App. Total	0	0	0	0		0	100	0	0		80	0	20	0		0	100	0	0		
PHF	.000	.000	.000	.000	.000	.000	.417	.000	.000	.417	.333	.000	.250	.000	.313	.000	.550	.000	.000	.550	.591







July 20, 2015

J.D. McCrumb  
Town Administrator  
Town of Columbine Valley, Colorado  
2 Middlefield Road  
Columbine Valley, CO 80123

Re: Results of Speed and Cut-Thru Traffic Studies

Mr. McCrumb:

Stolfus & Associates, Inc. (Stolfus) have completed the speed and cut-thru traffic studies requested by the Town of Columbine Valley. All traffic data was collected between June 16<sup>th</sup> and June 18<sup>th</sup>. Prior to the collection of data, Mr. Brian Smith of the Columbine Valley Country Club confirmed that there were no organized events occurring at the club that would generate higher than normal traffic volumes along Fairway Lane.

#### Speed Study

The speed study was conducted along eastbound Fairway Lane entering the Town of Columbine Valley. The location of the study is indicated on the attached map.

The following provides a summary of the speed study results:

Number of Observations: 2,756  
Average Speed: 25.6 MPH  
85<sup>th</sup> Percentile Speed: 29.2 MPH

Typically, the posted speed limit is set at the 85<sup>th</sup> percentile speed based on the presumption that most drivers travel at a speed that is reasonable and prudent for the conditions. Some discretion is permitted when setting speed limits (typically they are set at 85<sup>th</sup> percentile speed +/- 5 MPH).

Based upon the speed study, a 25 MPH posted speed limit is appropriate.

Data from the speed study is also attached.

#### Cut-thru Traffic Study

A license plate survey was conducted on June 17<sup>th</sup> and June 18<sup>th</sup> at the locations shown on the attached map. The purpose of the survey was to determine the extent to which northbound Platte Canyon Road traffic destined for eastbound Bowles Avenue is "cutting thru" Town to

bypass congestion at the Platte Canyon Road / Bowles Avenue intersection. Congestion and traffic patterns are most conducive to cut-thru behavior during the weekday a.m. peak hour; therefore, the study was conducted between 7 a.m. and 9 a.m. on both days. The results are shown in Table 1 (raw data is also attached).

**Table 1**  
**Results of License Plate Matching Study**

Street	Date	Collected Plates	Matches	
			Middlefield Road	Brookhaven Lane
Fairway Lane	6/17/2015	128	6	0
	6/18/2015	146	6	1
Village Court	6/17/2015	16	1	0
	6/18/2015	22	4	0

Along Fairway Lane, a total of 274 license plates were recorded entering Town between 7 and 9 a.m. Of these, 12 matches were recorded with vehicles leaving Town via Middlefield Road. One match was recorded using Brookhaven Lane.

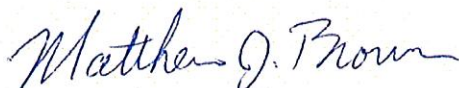
A total of 38 license plates were recorded entering Town via Village Court. Five matches were recorded leaving Town via Middlefield Road.

Based upon the small number of license plate matches, cut thru traffic along the subject roadways does not appear to be a significant problem for the Town.

Thank you for the opportunity to conduct this study for the Town of Columbine Valley. Please let me know if I can be of further assistance or if there are any questions regarding the results.

Regards,

**STOLFUS & ASSOCIATES, INC.**

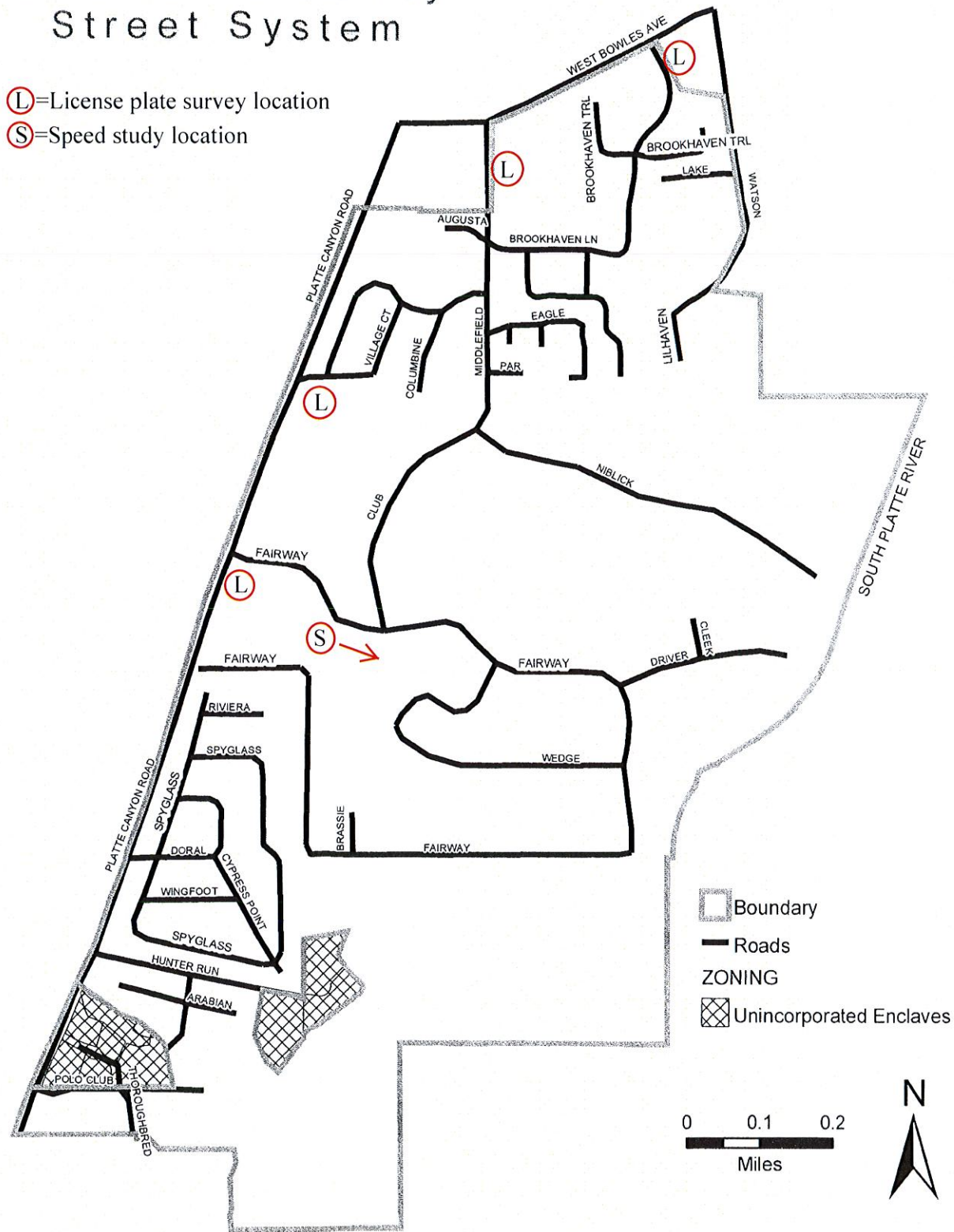


Matthew J. Brown, P.E.  
Senior Transportation Engineer



# Map D Columbine Valley Street System

- (L)=License plate survey location  
 (S)=Speed study location



Columbine Valley Traffic Study

Location:	Eastbound Fairway Ln
Start Date:	6/16/2015
Start Time:	0:00
Posted Speed:	25

Date/Time	5-14 MPH	15-19 MPH	20-24 MPH	25-29 MPH	30-34 MPH	35-39 MPH	40-44 MPH	45-49 MPH	50-54 MPH	55-59 MPH	60-64 MPH	65-69 MPH	70-74 MPH	75-79 MPH	80-99 MPH	Total
06/16/2015 00:00 - 00:14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06/16/2015 00:15 - 00:29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06/16/2015 00:30 - 00:44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06/16/2015 00:45 - 00:59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06/16/2015 01:00 - 01:14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06/16/2015 01:15 - 01:29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06/16/2015 01:30 - 01:44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06/16/2015 01:45 - 01:59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06/16/2015 02:00 - 02:14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06/16/2015 02:15 - 02:29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06/16/2015 02:30 - 02:44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06/16/2015 02:45 - 02:59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06/16/2015 03:00 - 03:14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06/16/2015 03:15 - 03:29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06/16/2015 03:30 - 03:44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06/16/2015 03:45 - 03:59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06/16/2015 04:00 - 04:14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06/16/2015 04:15 - 04:29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06/16/2015 04:30 - 04:44	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
06/16/2015 04:45 - 04:59	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0	3
06/16/2015 05:00 - 05:14	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	4
06/16/2015 05:15 - 05:29	0	0	1	3	2	1	0	0	0	0	0	0	0	0	0	7
06/16/2015 05:30 - 05:44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06/16/2015 05:45 - 05:59	0	0	3	4	0	0	0	0	0	0	0	0	0	0	0	7
06/16/2015 06:00 - 06:14	0	0	3	3	0	0	0	0	0	0	0	0	0	0	0	6
06/16/2015 06:15 - 06:29	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	3
06/16/2015 06:30 - 06:44	0	0	1	3	0	0	0	0	0	0	0	0	0	0	0	4
06/16/2015 06:45 - 06:59	1	0	8	5	0	0	0	0	0	0	0	0	0	0	0	14
06/16/2015 07:00 - 07:14	0	0	2	6	1	0	0	0	0	0	0	0	0	0	0	9
06/16/2015 07:15 - 07:29	0	1	7	11	0	0	0	0	0	0	0	0	0	0	0	19
06/16/2015 07:30 - 07:44	0	1	4	9	1	0	0	0	0	0	0	0	0	0	0	15
06/16/2015 07:45 - 07:59	0	5	8	5	0	0	0	0	0	0	0	0	0	0	0	18
06/16/2015 08:00 - 08:14	0	1	9	7	1	0	0	0	0	0	0	0	0	0	0	18
06/16/2015 08:15 - 08:29	0	1	10	11	2	0	0	0	0	0	0	0	0	0	0	24
06/16/2015 08:30 - 08:44	0	2	10	9	2	0	0	0	0	0	0	0	0	0	0	23
06/16/2015 08:45 - 08:59	0	1	7	6	2	0	0	0	0	0	0	0	0	0	0	16
06/16/2015 09:00 - 09:14	0	1	5	9	1	0	0	0	0	0	0	0	0	0	0	16
06/16/2015 09:15 - 09:29	0	2	8	4	4	0	0	0	0	0	0	0	0	0	0	18
06/16/2015 09:30 - 09:44	0	2	4	6	1	0	0	0	0	0	0	0	0	0	0	13
06/16/2015 09:45 - 09:59	0	0	8	5	2	0	0	0	0	0	0	0	0	0	0	15
06/16/2015 10:00 - 10:14	0	0	4	12	1	0	0	0	0	0	0	0	0	0	0	17
06/16/2015 10:15 - 10:29	0	2	13	10	0	0	0	0	0	0	0	0	0	0	0	25
06/16/2015 10:30 - 10:44	0	2	8	8	1	0	0	0	0	0	0	0	0	0	0	19
06/16/2015 10:45 - 10:59	0	1	3	8	1	0	0	0	0	0	0	0	0	0	0	13
06/16/2015 11:00 - 11:14	0	2	5	3	1	0	0	0	0	0	0	0	0	0	0	11
06/16/2015 11:15 - 11:29	0	0	6	10	1	0	0	0	0	0	0	0	0	0	0	17
06/16/2015 11:30 - 11:44	0	2	10	12	4	0	0	0	0	0	0	0	0	0	0	28
06/16/2015 11:45 - 11:59	0	1	14	19	2	0	0	0	0	0	0	0	0	0	0	36
06/16/2015 12:00 - 12:14	0	2	6	6	1	0	0	0	0	0	0	0	0	0	0	15
06/16/2015 12:15 - 12:29	0	0	5	16	4	0	0	0	0	0	0	0	0	0	0	25
06/16/2015 12:30 - 12:44	0	4	4	7	0	0	0	0	0	0	0	0	0	0	0	15
06/16/2015 12:45 - 12:59	0	1	3	7	0	0	0	0	0	0	0	0	0	0	0	11
06/16/2015 13:00 - 13:14	0	0	8	6	1	0	0	0	0	0	0	0	0	0	0	15
06/16/2015 13:15 - 13:29	0	0	8	13	0	0	0	0	0	0	0	0	0	0	0	21
06/16/2015 13:30 - 13:44	0	3	3	10	0	0	0	0	0	0	0	0	0	0	0	16
06/16/2015 13:45 - 13:59	0	2	5	6	2	0	0	0	0	0	0	0	0	0	0	15
06/16/2015 14:00 - 14:14	1	2	5	6	0	0	0	0	0	0	0	0	0	0	0	14
06/16/2015 14:15 - 14:29	0	2	7	7	0	0	0	0	0	0	0	0	0	0	0	16
06/16/2015 14:30 - 14:44	0	3	4	8	3	0	0	0	0	0	0	0	0	0	0	18
06/16/2015 14:45 - 14:59	1	2	9	7	0	0	0	0	0	0	0	0	0	0	0	19
06/16/2015 15:00 - 15:14	1	0	6	5	2	0	0	0	0	0	0	0	0	0	0	14
06/16/2015 15:15 - 15:29	0	0	3	6	0	0	0	0	0	0	0	0	0	0	0	9
06/16/2015 15:30 - 15:44	0	0	11	7	0	0	0	0	0	0	0	0	0	0	0	18
06/16/2015 15:45 - 15:59	0	1	6	12	1	0	0	0	0	0	0	0	0	0	0	20
06/16/2015 16:00 - 16:14	0	3	6	8	1	1	0	0	0	0	0	0	0	0	0	19
06/16/2015 16:15 - 16:29	0	2	12	10	5	0	1	0	0	0	0	0	0	0	0	30
06/16/2015 16:30 - 16:44	0	4	10	9	2	0	0	0	0	0	0	0	0	0	0	25
06/16/2015 16:45 - 16:59	0	2	8	6	0	0	0	0	0	0	0	0	0	0	0	16
06/16/2015 17:00 - 17:14	0	0	1	11	0	0	0	0	0	0	0	0	0	0	0	12
06/16/2015 17:15 - 17:29	0	0	5	13	4	0	0	0	0	0	0	0	0	0	0	22
06/16/2015 17:30 - 17:44	0	0	6	4	2	0	0	0	0	0	0	0	0	0	0	12
06/16/2015 17:45 - 17:59	0	0	4	5	1	0	0	0	0	0	0	0	0	0	0	10
06/16/2015 18:00 - 18:14	0	1	5	7	1	2	0	0	0	0	0	0	0	0	0	16
06/16/2015 18:15 - 18:29	0	0	4	6	1	0	0	0	0	0	0	0	0	0	0	11
06/16/2015 18:30 - 18:44	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	2
06/16/2015 18:45 - 18:59	0	1	4	2	1	0	0	0	0	0	0	0	0	0	0	8
06/16/2015 19:00 - 19:14	0	1	0	3	1	0	0	0	0	0	0	0	0	0	0	5
06/16/2015 19:15 - 19:29	1	0	4	3	0	0	0	0	0	0	0	0	0	0	0	8
06/16/2015 19:30 - 19:44	0	1	1	3	0	0	0	0	0	0	0	0	0	0	0	5
06/16/2015 19:45 - 19:59	0	0	3	3	0	0	0	0	0	0	0	0	0	0	0	6
06/16/2015 20:00 - 20:14	0	0	2	3	0	0	0	0	0	0	0	0	0	0	0	5
06/16/2015 20:15 - 20:29	0	0	4	3	0	0	0	0	0	0	0	0	0	0	0	7
06/16/2015 20:30 - 20:44	0	2	1	3	0	0	0	0	0	0	0	0	0	0	0	6
06/16/2015 20:45 - 20:59	0	1	2	3	0	0	0	0	0	0	0	0	0	0	0	6
06/16/2015 21:00 - 21:14	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
06/16/2015 21:15 - 21:29	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
06/16/2015 21:30 - 21:44	0	0	3	1	0	0	0	0	0	0	0	0	0	0	0	4
06/16/2015 21:45 - 21:59	0	0	2	3	0	0	0	0	0	0	0	0	0	0	0	5
06/16/2015 22:00 - 22:14	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
06/16/2015 22:15 - 22:29	0	0	1	3	0	0	0	0	0	0	0	0	0	0	0	4
06/16/2015 22:30 - 22:44	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
06/16/2015 22:45 - 22:59	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	3
06/16/2015 23:00 - 23:14	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	2
06/16/2015 23:15 - 23:29	0	1	0	2	1	0	0	0	0	0	0	0	0	0	0	4
06/16/2015 23:30 - 23:44	0	0	0	0	0	0	0	0	0	0	0	0				



Columbine Valley Traffic Study  
Location: Eastbound Fairway Ln  
Start Date: 6/16/2015  
Start Time: 0:00  
Posted Speed: 25

date/Time	5-14 MPH	15-19 MPH	20-24 MPH	25-29 MPH	30-34 MPH	35-39 MPH	40-44 MPH	45-49 MPH	50-54 MPH	55-59 MPH	60-64 MPH	65-69 MPH	70-74 MPH	75-79 MPH	80-99 MPH	Total
06/17/2015 00:30 - 00:44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06/17/2015 00:45 - 00:59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06/17/2015 01:00 - 01:14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06/17/2015 01:15 - 01:29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06/17/2015 01:30 - 01:44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06/17/2015 01:45 - 01:59	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
06/17/2015 02:00 - 02:14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06/17/2015 02:15 - 02:29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06/17/2015 02:30 - 02:44	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
06/17/2015 02:45 - 02:59	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
06/17/2015 03:00 - 03:14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06/17/2015 03:15 - 03:29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06/17/2015 03:30 - 03:44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06/17/2015 03:45 - 03:59	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
06/17/2015 04:00 - 04:14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06/17/2015 04:15 - 04:29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06/17/2015 04:30 - 04:44	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
06/17/2015 04:45 - 04:59	0	0	2	4	0	0	0	0	0	0	0	0	0	0	0	6
06/17/2015 05:00 - 05:14	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	4
06/17/2015 05:15 - 05:29	0	0	3	5	2	0	0	0	0	0	0	0	0	0	0	10
06/17/2015 05:30 - 05:44	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
06/17/2015 05:45 - 05:59	0	0	2	3	0	0	0	0	0	0	0	0	0	0	0	5
06/17/2015 06:00 - 06:14	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
06/17/2015 06:15 - 06:29	0	0	2	1	0	0	0	0	0	0	0	0	0	0	0	3
06/17/2015 06:30 - 06:44	0	0	2	1	1	0	0	0	0	0	0	0	0	0	0	4
06/17/2015 06:45 - 06:59	0	0	4	4	0	0	0	0	0	0	0	0	0	0	0	8
06/17/2015 07:00 - 07:14	0	2	4	8	1	0	0	0	0	0	0	0	0	0	0	15
06/17/2015 07:15 - 07:29	0	1	6	14	2	1	0	0	0	0	0	0	0	0	0	24
06/17/2015 07:30 - 07:44	0	3	6	11	3	0	0	0	0	0	0	0	0	0	0	23
06/17/2015 07:45 - 07:59	0	1	5	12	0	0	0	0	0	0	0	0	0	0	0	18
06/17/2015 08:00 - 08:14	0	0	3	8	0	0	0	0	0	0	0	0	0	0	0	11
06/17/2015 08:15 - 08:29	0	0	3	11	0	0	0	0	0	0	0	0	0	0	0	14
06/17/2015 08:30 - 08:44	0	2	9	10	2	0	0	0	0	0	0	0	0	0	0	23
06/17/2015 08:45 - 08:59	0	2	3	8	0	0	0	0	0	0	0	0	0	0	0	13
06/17/2015 09:00 - 09:14	0	1	6	7	0	0	0	0	0	0	0	0	0	0	0	14
06/17/2015 09:15 - 09:29	0	1	3	9	1	0	0	0	0	0	0	0	0	0	0	14
06/17/2015 09:30 - 09:44	0	0	3	4	1	0	0	0	0	0	0	0	0	0	0	8
06/17/2015 09:45 - 09:59	0	2	6	5	3	0	0	0	0	0	0	0	0	0	0	16
06/17/2015 10:00 - 10:14	0	1	4	5	0	0	0	0	0	0	0	0	0	0	0	10
06/17/2015 10:15 - 10:29	0	1	10	5	0	0	0	0	0	0	0	0	0	0	0	16
06/17/2015 10:30 - 10:44	0	0	7	4	3	0	0	0	0	0	0	0	0	0	0	14
06/17/2015 10:45 - 10:59	0	0	5	10	2	0	0	0	0	0	0	0	0	0	0	17
06/17/2015 11:00 - 11:14	0	0	3	13	1	0	0	0	0	0	0	0	0	0	0	17
06/17/2015 11:15 - 11:29	0	1	6	8	2	0	0	0	0	0	0	0	0	0	0	17
06/17/2015 11:30 - 11:44	0	0	9	14	3	0	0	0	0	0	0	0	0	0	0	26
06/17/2015 11:45 - 11:59	0	1	8	11	5	0	0	0	0	0	0	0	0	0	0	25
06/17/2015 12:00 - 12:14	0	4	8	11	6	0	0	0	0	0	0	0	0	0	0	29
06/17/2015 12:15 - 12:29	0	0	5	13	4	0	0	0	0	0	0	0	0	0	0	22
06/17/2015 12:30 - 12:44	0	4	8	14	0	0	0	0	0	0	0	0	0	0	0	26
06/17/2015 12:45 - 12:59	1	1	5	7	1	0	0	0	0	0	0	0	0	0	0	15
06/17/2015 13:00 - 13:14	0	1	9	7	0	0	0	0	0	0	0	0	0	0	0	17
06/17/2015 13:15 - 13:29	0	1	5	8	1	0	0	0	0	0	0	0	0	0	0	15
06/17/2015 13:30 - 13:44	0	1	3	7	0	0	0	0	0	0	0	0	0	0	0	11
06/17/2015 13:45 - 13:59	0	2	6	6	1	0	0	0	0	0	0	0	0	0	0	15
06/17/2015 14:00 - 14:14	0	0	4	8	1	0	0	0	0	0	0	0	0	0	0	13
06/17/2015 14:15 - 14:29	0	3	5	5	1	0	0	0	0	0	0	0	0	0	0	9
06/17/2015 14:30 - 14:44	0	0	7	2	0	0	0	0	0	0	0	0	0	0	0	14
06/17/2015 14:45 - 14:59	0	0	4	7	0	0	0	0	0	0	0	0	0	0	0	11
06/17/2015 15:00 - 15:14	0	0	7	8	2	0	0	0	0	0	0	0	0	0	0	17
06/17/2015 15:15 - 15:29	0	0	6	10	1	0	0	0	0	0	0	0	0	0	0	17
06/17/2015 15:30 - 15:44	1	0	2	7	1	0	0	0	0	0	0	0	0	0	0	11
06/17/2015 15:45 - 15:59	0	1	8	13	1	0	0	0	0	0	0	0	0	0	0	23
06/17/2015 16:00 - 16:14	0	0	12	6	2	1	0	0	0	0	0	0	0	0	0	21
06/17/2015 16:15 - 16:29	0	1	7	10	1	0	0	0	0	0	0	0	0	0	0	19
06/17/2015 16:30 - 16:44	0	1	2	9	0	0	0	0	0	0	0	0	0	0	0	12
06/17/2015 16:45 - 16:59	0	0	2	5	1	0	0	0	0	0	0	0	0	0	0	8
06/17/2015 17:00 - 17:14	0	0	7	7	1	0	0	0	0	0	0	0	0	0	0	15
06/17/2015 17:15 - 17:29	0	1	3	7	1	0	0	0	0	0	0	0	0	0	0	12
06/17/2015 17:30 - 17:44	0	0	8	10	1	0	0	0	0	0	0	0	0	0	0	19
06/17/2015 17:45 - 17:59	0	2	8	6	3	0	0	0	0	0	0	0	0	0	0	19
06/17/2015 18:00 - 18:14	0	0	6	6	2	0	0	0	0	0	0	0	0	0	0	14
06/17/2015 18:15 - 18:29	0	0	3	7	3	0	0	0	0	0	0	0	0	0	0	13
06/17/2015 18:30 - 18:44	0	1	1	3	1	0	0	0	0	0	0	0	0	0	0	6
06/17/2015 18:45 - 18:59	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	2
06/17/2015 19:00 - 19:14	0	0	1	3	0	0	0	0	0	0	0	0	0	0	0	4
06/17/2015 19:15 - 19:29	0	1	1	7	0	0	0	0	0	0	0	0	0	0	0	9
06/17/2015 19:30 - 19:44	0	0	3	3	1	0	0	0	0	0	0	0	0	0	0	7
06/17/2015 19:45 - 19:59	0	0	2	1	2	0	0	0	0	0	0	0	0	0	0	5
06/17/2015 20:00 - 20:14	0	0	4	1	0	0	0	0	0	0	0	0	0	0	0	5
06/17/2015 20:15 - 20:29	0	0	1	4	1	0	0	0	0	0	0	0	0	0	0	7
06/17/2015 20:30 - 20:44	0	0	2	5	0	0	0	0	0	0	0	0	0	0	0	6
06/17/2015 20:45 - 20:59	0	0	4	2	1	0	0	0	0	0	0	0	0	0	0	7
06/17/2015 21:00 - 21:14	0	1	3	3	1	0	0	0	0	0	0	0	0	0	0	8
06/17/2015 21:15 - 21:29	0	1	1	3	0	0	0	0	0	0	0	0	0	0	0	5
06/17/2015 21:30 - 21:44	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	4
06/17/2015 21:45 - 21:59	0	0	1	2	1	0	0	0	0	0	0	0	0	0	0	4
06/17/2015 22:00 - 22:14	0	0	2	4	0	0	0	0	0	0	0	0	0	0	0	6
06/17/2015 22:15 - 22:29	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	2
06/17/2015 22:30 - 22:44	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	2
06/17/2015 22:45 - 22:59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06/17/2015 23:00 - 23:14	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
06/17/2015 23:15 - 23:29	0	0	1	3	1	0	0	0	0	0	0	0	0	0	0	5
06/17/2015 23:30 - 23:44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06/17/2015 23:45 - 23:59	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
06/18/2015 00:00 - 00:14	0	0	0	0	0	0	0	0	0	0	0	0	0			

Columbine Valley Traffic Study

Location:	Eastbound Fairway Ln
Start Date:	6/16/2015
Start Time:	0:00
Posted Speed:	25

Date/Time	5-14 MPH	15-19 MPH	20-24 MPH	25-29 MPH	30-34 MPH	35-39 MPH	40-44 MPH	45-49 MPH	50-54 MPH	55-59 MPH	60-64 MPH	65-69 MPH	70-74 MPH	75-79 MPH	80-99 MPH	Total
06/18/2015 01:00 - 01:14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06/18/2015 01:15 - 01:29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06/18/2015 01:30 - 01:44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06/18/2015 01:45 - 01:59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06/18/2015 02:00 - 02:14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06/18/2015 02:15 - 02:29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06/18/2015 02:30 - 02:44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06/18/2015 02:45 - 02:59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06/18/2015 03:00 - 03:14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06/18/2015 03:15 - 03:29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06/18/2015 03:30 - 03:44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06/18/2015 03:45 - 03:59	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
06/18/2015 04:00 - 04:14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06/18/2015 04:15 - 04:29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06/18/2015 04:30 - 04:44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06/18/2015 04:45 - 04:59	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	2
06/18/2015 05:00 - 05:14	0	0	1	3	0	0	0	0	0	0	0	0	0	0	0	4
06/18/2015 05:15 - 05:29	0	0	3	4	5	0	0	0	0	0	0	0	0	0	0	12
06/18/2015 05:30 - 05:44	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0
06/18/2015 05:45 - 05:59	0	0	3	2	1	0	0	0	0	0	0	0	0	0	0	6
06/18/2015 06:00 - 06:14	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	4
06/18/2015 06:15 - 06:29	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	2
06/18/2015 06:30 - 06:44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06/18/2015 06:45 - 06:59	0	0	2	3	0	0	0	0	0	0	0	0	0	0	0	5
06/18/2015 07:00 - 07:14	0	1	3	3	1	0	0	0	0	0	0	0	0	0	0	8
06/18/2015 07:15 - 07:29	0	0	5	8	0	0	0	0	0	0	0	0	0	0	0	13
06/18/2015 07:30 - 07:44	0	0	19	23	1	0	0	0	0	0	0	0	0	0	0	43
06/18/2015 07:45 - 07:59	0	1	8	14	4	0	0	0	0	0	0	0	0	0	0	27
06/18/2015 08:00 - 08:14	0	1	7	8	2	0	0	0	0	0	0	0	0	0	0	18
06/18/2015 08:15 - 08:29	0	1	4	8	0	0	0	0	0	0	0	0	0	0	0	13
06/18/2015 08:30 - 08:44	1	1	5	7	0	0	0	0	0	0	0	0	0	0	0	14
06/18/2015 08:45 - 08:59	0	2	9	3	1	0	0	0	0	0	0	0	0	0	0	15
06/18/2015 09:00 - 09:14	1	2	5	8	1	0	0	0	0	0	0	0	0	0	0	17
06/18/2015 09:15 - 09:29	0	1	7	13	0	0	0	0	0	0	0	0	0	0	0	21
06/18/2015 09:30 - 09:44	0	3	7	5	0	0	0	0	0	0	0	0	0	0	0	15
06/18/2015 09:45 - 09:59	0	0	6	11	0	0	0	0	0	0	0	0	0	0	0	17
06/18/2015 10:00 - 10:14	0	0	4	4	0	0	0	0	0	0	0	0	0	0	0	8
06/18/2015 10:15 - 10:29	0	4	5	4	0	0	0	0	0	0	0	0	0	0	0	13
06/18/2015 10:30 - 10:44	0	0	10	12	1	0	0	0	0	0	0	0	0	0	0	23
06/18/2015 10:45 - 10:59	0	2	5	12	1	0	0	0	0	0	0	0	0	0	0	20
06/18/2015 11:00 - 11:14	0	0	3	6	1	0	0	0	0	0	0	0	0	0	0	10
06/18/2015 11:15 - 11:29	0	0	6	10	1	0	0	0	0	0	0	0	0	0	0	17
06/18/2015 11:30 - 11:44	2	0	6	4	2	0	0	0	0	0	0	0	0	0	0	14
06/18/2015 11:45 - 11:59	0	2	9	9	0	0	0	0	0	0	0	0	0	0	0	20
06/18/2015 12:00 - 12:14	0	0	5	5	1	0	0	0	0	0	0	0	0	0	0	11
06/18/2015 12:15 - 12:29	0	1	6	14	0	0	0	0	0	0	0	0	0	0	0	21
06/18/2015 12:30 - 12:44	0	1	10	10	0	0	0	0	0	0	0	0	0	0	0	21
06/18/2015 12:45 - 12:59	1	2	8	6	1	0	0	0	0	0	0	0	0	0	0	18
06/18/2015 13:00 - 13:14	1	0	2	11	1	0	0	0	0	0	0	0	0	0	0	15
06/18/2015 13:15 - 13:29	0	1	14	14	1	0	0	0	0	0	0	0	0	0	0	30
06/18/2015 13:30 - 13:44	0	1	8	10	1	0	0	0	0	0	0	0	0	0	0	20
06/18/2015 13:45 - 13:59	0	0	7	7	1	0	0	0	0	0	0	0	0	0	0	15
06/18/2015 14:00 - 14:14	1	0	8	9	0	0	0	0	0	0	0	0	0	0	0	18
06/18/2015 14:15 - 14:29	0	1	7	5	0	0	0	0	0	0	0	0	0	0	0	13
06/18/2015 14:30 - 14:44	0	4	7	10	2	0	0	0	0	0	0	0	0	0	0	23
06/18/2015 14:45 - 14:59	0	2	6	4	3	0	0	0	0	0	0	0	0	0	0	15
06/18/2015 15:00 - 15:14	0	0	3	10	2	1	0	0	0	0	0	0	0	0	0	16
06/18/2015 15:15 - 15:29	0	1	5	6	0	0	0	0	0	0	0	0	0	0	0	12
06/18/2015 15:30 - 15:44	0	1	10	8	3	0	0	0	0	0	0	0	0	0	0	22
06/18/2015 15:45 - 15:59	1	2	4	8	2	0	0	0	0	0	0	0	0	0	0	17
06/18/2015 16:00 - 16:14	1	1	7	7	0	0	0	0	0	0	0	0	0	0	0	16
06/18/2015 16:15 - 16:29	0	3	5	3	1	0	0	0	0	0	0	0	0	0	0	12
06/18/2015 16:30 - 16:44	0	6	7	6	0	0	0	0	0	0	0	0	0	0	0	19
06/18/2015 16:45 - 16:59	0	2	2	6	2	0	0	0	0	0	0	0	0	0	0	12
06/18/2015 17:00 - 17:14	0	0	7	10	2	0	0	0	0	0	0	0	0	0	0	19
06/18/2015 17:15 - 17:29	0	1	7	5	0	0	0	0	0	0	0	0	0	0	0	13
06/18/2015 17:30 - 17:44	0	3	7	7	1	0	0	0	0	0	0	0	0	0	0	18
06/18/2015 17:45 - 17:59	0	3	4	7	2	0	0	0	0	0	0	0	0	0	0	16
06/18/2015 18:00 - 18:14	0	0	5	5	0	0	0	0	0	0	0	0	0	0	0	10
06/18/2015 18:15 - 18:29	2	1	4	4	0	0	0	0	0	0	0	0	0	0	0	11
06/18/2015 18:30 - 18:44	0	1	1	4	2	0	0	0	0	0	0	0	0	0	0	8
06/18/2015 18:45 - 18:59	0	0	5	2	0	0	0	0	0	0	0	0	0	0	0	7
06/18/2015 19:00 - 19:14	0	0	1	3	0	0	0	0	0	0	0	0	0	0	0	4
06/18/2015 19:15 - 19:29	1	0	3	4	0	0	0	0	0	0	0	0	0	0	0	8
06/18/2015 19:30 - 19:44	1	3	2	6	1	0	0	0	0	0	0	0	0	0	0	13
06/18/2015 19:45 - 19:59	0	0	6	1	0	0	0	0	0	0	0	0	0	0	0	7
06/18/2015 20:00 - 20:14	0	1	7	3	1	0	0	0	0	0	0	0	0	0	0	12
06/18/2015 20:15 - 20:29	0	2	3	6	0	0	0	0	0	0	0	0	0	0	0	11
06/18/2015 20:30 - 20:44	0	1	2	1	0	0	0	0	0	0	0	0	0	0	0	4
06/18/2015 20:45 - 20:59	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	3
06/18/2015 21:00 - 21:14	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	3
06/18/2015 21:15 - 21:29	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2
06/18/2015 21:30 - 21:44	0	0	2	3	0	0	0	0	0	0	0	0	0	0	0	5
06/18/2015 21:45 - 21:59	0	0	3	1	1	0	0	0	0	0	0	0	0	0	0	5
06/18/2015 22:00 - 22:14	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	2
06/18/2015 22:15 - 22:29	0	2	1	5	0	0	0	0	0	0	0	0	0	0	0	8
06/18/2015 22:30 - 22:44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06/18/2015 22:45 - 22:59	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	2
06/18/2015 23:00 - 23:14	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	2
06/18/2015 23:15 - 23:29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06/18/2015 23:30 - 23:44	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
06/18/2015 23:45 - 23:59	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
Total	24	186	1008	1335	195	7	1	0	0	0	0	0	0	0	0	275



# Highland Data Collection LLC

Columbine Valley License Plate Study

Start Date: 6/17/2015

Start Time: 7:00 AM

Location:	1. Fairway Lane(EB)	Match	2. Village Court(EB)	Match	3. Middlefield Road(NB)	Match	4. Brookhaven Lane(NB)	Match
	Time	License	Time	License	Time	License	Time	License
	7:03 EJY		7:12 XZB		7:00 EQN		7:06 PAI	
	7:04 RJL		7:14 QLX	Y	7:02 NMQ		7:06 XVL	
	7:05 382		7:17 SUP		7:04 YXT		7:07 ZUM	
	7:06 WBI		7:19 HZJ		7:06 GPP		7:09 RMV	
	7:06 TYE	Y	7:32 QKV		7:06 7TL		7:10 XGJ	
	7:07 150		7:43 CME		7:07 QLD		7:11 GAK	
	7:09 NYB		7:56 EIP		7:07 WVD		7:11 SHJ	
	7:12 EUG		8:02 QTJ		7:07 NZG		7:11 XNY	
	7:12 PLB		8:02 XIM		7:10 XYN		7:15 IEZ	
	7:14 SRY		8:15 589		7:10 OBY		7:19 ZTY	
	7:14 MMU		8:30 ZYB		7:10 MCG		7:26 537	
	7:15 XDF		8:34 UKE		7:12 TYE	Y	7:28 VFQ	
	7:15 QKW		8:44 CQR		7:12 VKQ		7:35 O21	
	7:17 NQW		8:52 ZTH		7:12 RTD		7:36 WCK	
	7:17 XNY		8:52 TVZ		7:14 EUQ		7:36 SHG	
	7:19 ZTM		8:53 RFY		7:16 QLX	Y	7:39 CEW	
	7:20 VRI				7:17 VQL		7:43 ZUM	
	7:21 WUG				7:18 GUP		7:43 450	
	7:21 TIG				7:19 WQD		7:46 QCA	
	7:22 JLO				7:20 923		7:46 X60	
	7:22 CMS				7:20 HQF		7:47 SFD	
	7:23 QLQ				7:21 HZL		7:47 WDP	
	7:23 XVE				7:21 TKM		7:48 UKC	
	7:23 FJD				7:22 QLA		7:55 EKE	
	7:23 YHY				7:22 YNP		7:57 YXT	
	7:24 XNY				7:22 YED		8:00 ZTZ	
	7:25 WKI				7:25 ILB		8:05 NPL	
	7:25 FFQ				7:25 WWY		8:07 Temp Tag	
	7:25 NMU				7:27 HPW		8:12 TWA	
	7:25 TJY				7:28 QCA		8:17 BOB	
	7:27 Temp Tag				7:28 QLH		8:18 NSZ	
	7:27 BQN				7:28 SFP		8:20 FJO	
	7:28 NQB				7:28 AQM		8:21 ZIC	
	7:28 QLX				7:29 ZUJ		8:22 WDU	
	7:28 RPP				7:29 TJM		8:26 PLD	
	7:29 4FL				7:30 RPT		8:27 OVO	
	7:30 CAF				7:31 ZTY		8:30 YVP	
	7:31 ERU	Y			7:31 ZNK		8:30 SUJ	
	7:31 QDA				7:31 CFD		8:34 250	
	7:32 XVJ	Y			7:33 ERU	Y	8:35 PAI	
	7:32 OVO				7:33 VQT		8:40 IEZ	
	7:33 FVM				7:34 XVJ	Y	8:46 XLZ	
	7:33 FKW				7:34 XVA		8:49 SVJ	
	7:35 ZVE				7:34 YZA		8:56 UKJ	
	7:35 QLA				7:34 UUD		8:56 ZZT	
	7:36 SUB				7:34 PLD		8:59 PSW	
	7:38 SIQ	Y			7:35 RHR			
	7:39 VNZ				7:35 SPK			
	7:40 ZWI				7:36 XGD			
	7:40 WKJ				7:36 CAE			
	7:42 Temp Tag				7:37 YCC			
	7:43 HAB				7:38 PTC			
	7:43 XAB				7:39 426			
	7:44 WFI				7:39 WTJ			
	7:44 RJX				7:40 ZLA			
	7:44 JBB				7:40 FKU			
	7:45 KVO				7:40 SIQ	Y		
	7:47 VAX				7:41 177			
	7:48 UDK				7:42 MSB			
	7:49 QTT				7:44 XNY			
	7:50 WJZ	Y			7:45 514			

# Highland Data Collection LLC

Columbine Valley License Plate Study

Start Date: 6/17/2015

Start Time: 7:00 AM

Location:	1. Fairway Lane(EB)	Match	2. Village Court(EB)	Match	3. Middlefield Road(NB)	Match	4. Brookhaven Lane(NB)	Match
	Time		License		Time		License	
	7:50 OER				7:46 QSF			
	7:50 XAG				7:46 HNV			
	7:50 QTO				7:46 ZWW			
	7:53 MCG				7:46 RJZ			
	7:53 TWA				7:47 ZTZ			
	7:54 VBW				7:48 NQW			
	7:54 QTT				7:50 K60			
	7:54 XSH				7:50 YXI			
	7:54 EVQ				7:51 UTM			
	7:57 YKL				7:51 FRN			
	7:58 WQJ				7:52 QIG			
	7:58 ZAD				7:52 YCC			
	8:01 VXB				7:52 UKD			
	8:01 RZP				7:52 WJZ		Y	
	8:01 887				7:52 LJD			
	8:01 QTI				7:52 QDA			
	8:02 JCC				7:53 WFT			
	8:04 UYB				7:54 XYU			
	8:06 VFQ				7:54 PGC			
	8:11 XVH				7:55 BHQ			
	8:13 ZNA				7:56 XQR			
	8:15 EJY				8:02 UKC			
	8:18 RYG				8:03 QSF			
	8:20 WKI				8:03 QLX			
	8:21 QAX				8:04 HHN			
	8:21 AAT				8:04 LID			
	8:21 NKS				8:04 JZW			
	8:23 KZB				8:04 SOZ			
	8:23 993				8:05 LIV			
	8:25 OSZ				8:05 NEK			
	8:25 LWF				8:06 436			
	8:25 MOM				8:06 RGC			
	8:26 FAZ				8:08 IQM			
	8:28 QGK				8:10 ZLL			
	8:29 WCU				8:11 YPL			
	8:30 SUB				8:11 G15			
	8:30 YVE				8:11 VOP			
	8:31 KUJ				8:11 DYZ			
	8:31 RIR				8:12 BDQ			
	8:31 CAA				8:12 QLS			
	8:33 TXX				8:13 NQW			
	8:35 GGM				8:14 PRF			
	8:35 RPP				8:15 FJD			
	8:36 NQW				8:15 KPN			
	8:37 OEM				8:15 QLC			
	8:37 OVT				8:15 926			
	8:38 QPM				8:16 SMV			
	8:39 ITE				8:17 QLC			
	8:40 ELC				8:17 MQY			
	8:41 NQB				8:17 TLD			
	8:41 ZPZ				8:17 IYW			
	8:41 YZB				8:17 XVJ			
	8:42 NLC				8:18 LLI			
	8:44 PVR				8:19 QLO			
	8:44 235				8:19 KWQ			
	8:46 EQB				8:22 QLQ			
	8:46 172				8:22 YMN			
	8:47 VCE				8:23 ZJO			
	8:47 EQZ				8:23 QNR			
	8:48 UVD				8:23 O76			
	8:48 ZLH				8:25 SOF			



# Highland Data Collection LLC

Columbine Valley License Plate Study

Start Date: 6/17/2015

Start Time: 7:00 AM

Location:	1. Fairway Lane(EB)	Match	2. Village Court(EB)	Match	3. Middlefield Road(NB)	Match	4. Brookhaven Lane(NB)	Match
	Time		License		Time		License	
	8:51 O23				8:25 VFQ			
	8:53 MCL	Y			8:26 720			
	8:54 WRG				8:26 YCG			
	8:56 NQW				8:27 LIR			
	8:56 PLL				8:27 VFQ			
	8:59 TNN				8:27 QVO			
					8:28 WIO			
					8:29 FJS			
					8:30 LIB			
					8:30 RTK			
					8:31 FLG			
					8:32 XQT			
					8:32 XVO			
					8:33 ZLE			
					8:35 QLK			
					8:36 MFP			
					8:39 EJY			
					8:39 SSL			
					8:39 XVL			
					8:40 NNI			
					8:40 FVM			
					8:40 DVW			
					8:41 XZG			
					8:41 GKI			
					8:42 CEP			
					8:45 J27			
					8:45 SXW			
					8:45 JLK			
					8:46 III			
					8:47 NYV			
					8:47 ZXI			
					8:48 CIA			
					8:48 X60			
					8:50 FBQ			
					8:50 YDR			
					8:50 YYZ			
					8:52 QMG			
					8:52 LTX			
					8:52 ZZG			
					8:53 YPZ			
					8:53 ZPR			
					8:54 DVP			
					8:54 WQD			
					8:54 UKE			
					8:54 Temp Tag			
					8:55 SER			
					8:56 MCL	Y		
					8:59 OKN			
					8:59 UKE			
					8:59 IYL			

# Highland Data Collection LLC

Columbine Valley License Plate Study

Start Date: 6/18/2015

Start Time: 7:00 AM

Location:	1. Fairway Lane(EB)			2. Village Court(EB)			3. Middlefield Road(NB)			4. Brookhaven Lane(NB)		
	Time	License	Match	Time	License	Match	Time	License	Match	Time	License	Match
	7:06	ETQ		7:08	ZEV		7:01	NMQ		7:29	VFQ	
	7:09	NYB		7:13	589		7:01	WTM		7:31	NPC	
	7:09	JMQ		7:17	QLX	Y	7:04	QAD		7:37	MCU	
	7:11	BQN		7:29	SUP	Y	7:05	QLS		7:41	PAT	
	7:12	Temp Tag		7:38	UGS		7:06	ZTY		7:48	660	
	7:14	XDF		7:39	NIQ		7:08	ZPZ		7:50	Temp Tag	Y
	7:15	VFQ		7:53	HZJ	Y	7:08	NZG		7:50	ZTZ	
	7:16	YXM		8:00	XIM		7:09	KMJ		7:54	WDP	
	7:16	WUG		8:04	VZV		7:09	KLA		7:56	QAZ	
	7:17	993		8:10	KKS	Y	7:09	FIQ		7:59	YXT	
	7:22	FFQ		8:12	YXL		7:09	PQK		8:00	ZIC	
	7:23	TKD		8:14	WFR		7:10	RDT		8:01	TWA	
	7:23	SUB		8:25	XNY		7:12	CSZ		8:06	XNW	
	7:23	QLX		8:29	YZJ		7:12	D44		8:07	VZN	
	7:24	XHG		8:31	VXB		7:12	XNY		8:11	OVW	
	7:26	Temp Tag		8:33	YTW		7:13	ZEV		8:16	ZTY	
	7:26	WXB		8:38	WKR		7:15	XRA		8:21	YYZ	
	7:26	TJY	Y	8:40	CUW		7:16	YXZ		8:22	SUJ	
	7:28	SEV		8:45	TVS		7:16	YED		8:25	YYZ	
	7:29	CAF		8:45	SXN		7:17	RHR	Y	8:25	XBS	
	7:30	OVO		8:55	MHJ		7:18	QLX		8:29	WDK	
	7:30	377		8:58	OIW		7:19	AAV		8:37	OPY	
	7:30	CMS	Y				7:21	SJJ		8:39	DRK	
	7:31	TKD					7:21	LCM		8:41	ENQ	
	7:31	O36					7:23	BFZ		8:42	SEN	
	7:32	SUB					7:26	PQH		8:42	EKE	
	7:32	XVR	Y				7:27	ZWW		8:44	IXM	
	7:32	OSG					7:28	TMD		8:48	WKO	
	7:32	XMY					7:29	BHQ		8:56	922	
	7:32	ZCE					7:30	SUP	Y			
	7:32	Temp Tag					7:30	PAX				
	7:33	UDK					7:31	TJY	Y			
	7:33	EDM					7:31	ILB				
	7:33	NQB					7:32	660				
	7:35	WFD					7:34	XVR	Y			
	7:35	RJX					7:34	XLZ				
	7:35	ZCN					7:34	UUO				
	7:35	RFW					7:34	NYR				
	7:35	WWP					7:34	CMS	Y			
	7:36	EQW					7:36	RHR				
	7:36	XPP					7:37	AQH				
	7:36	CAF					7:37	KZG				
	7:38	TIG					7:37	QLX				
	7:38	741					7:37	WWB				
	7:39	URA					7:38	YZN				
	7:39	YKL	Y				7:42	YKL	Y			
	7:39	BQL					7:42	XVL				
	7:39	SEN					7:43	KJY				
	7:39	QDM					7:43	UKD				
	7:39	TWA					7:43	VES				
	7:39	MHC					7:45	ZLA				
	7:40	BQC					7:45	982				
	7:41	VEG					7:45	XGA				
	7:41	XAG	Y				7:45	UKE				
	7:42	VHR					7:45	XAG	Y			
	7:42	NZC					7:46	SPK				
	7:42	VEA					7:46	X60				
	7:43	MTN					7:46	YLD				
	7:44	OER					7:47	QKU				
	7:44	QTT					7:47	EQY				



# Highland Data Collection LLC

Columbine Valley License Plate Study

Start Date: 6/18/2015

Start Time: 7:00 AM

Location:	1. Fairway Lane(EB)			2. Village Court(EB)			3. Middlefield Road(NB)			4. Brookhaven Lane(NB)		
	Time	License	Match	Time	License	Match	Time	License	Match	Time	License	Match
	7:44	ILD					7:50	WJZ	Y			
	7:44	AZC					7:51	765				
	7:45	VNU					7:51	VKQ				
	7:45	Temp Tag	Y				7:51	HHN				
	7:45	XXD					7:54	50Z				
	7:48	OCN					7:54	ESE				
	7:48	WJZ	Y				7:55	HZJ	Y			
	7:48	YKL					7:55	XNY				
	7:49	WKJ					7:56	PGC				
	7:49	XXD					7:58	514				
	7:49	NKS					7:58	NYM				
	7:49	XVD					7:58	XVC				
	7:50	RRA					7:58	YNP				
	7:52	ZZE					7:59	IIP				
	7:52	UDK					7:59	HQS				
	7:52	SRY					8:00	LJB				
	7:53	XAG					8:00	QIG				
	7:53	TZN					8:01	JMU				
	7:54	XWE					8:01	IJY				
	7:54	ZZO					8:03	IYR				
	7:54	QFI					8:03	VFD				
	7:54	HHN					8:03	QLX				
	7:55	EVQ					8:04	WDK				
	7:56	RQV					8:05	378				
	7:56	PLI					8:05	WKJ				
	7:56	VAW					8:08	VBW				
	7:58	RJX					8:08	QTT				
	7:58	ZFE					8:09	WCZ				
	7:59	CMS					8:09	DEQ				
	8:00	XBK					8:10	RJX				
	8:00	WIN					8:10	ZUJ				
	8:02	WQW					8:11	KKS	Y			
	8:03	FL1					8:13	QUC				
	8:04	NME					8:14	NQH				
	8:04	UYB					8:14	QLX				
	8:05	VXB					8:14	III				
	8:06	XSM					8:15	IYF				
	8:07	SKI					8:15	TKM				
	8:07	VRV					8:15	QLR				
	8:08	VFQ					8:15	OAA				
	8:08	GOS					8:16	YXI				
	8:12	XVH					8:17	QUC				
	8:12	WJF					8:19	UVL				
	8:12	NBT					8:19	CFD				
	8:13	YOM					8:20	DYZ				
	8:13	QZP					8:21	415				
	8:19	EJY					8:21	226				
	8:20	OVT					8:22	VLC				
	8:20	WFT					8:22	DQV				
	8:20	LWF					8:23	YXT				
	8:20	OND					8:23	HUJ				
	8:20	VNZ					8:24	KRD				
	8:20	QDK					8:25	EQZ				
	8:20	FAK					8:25	NQW				
	8:22	QAX					8:26	OIQ				
	8:22	QDK					8:26	ONU				
	8:24	PFC					8:27	EAR				
	8:25	VWH					8:30	QFT				
	8:25	KVJ					8:30	YBA				
	8:28	101					8:30	LSP				

# Highland Data Collection LLC

Columbine Valley License Plate Study

Start Date: 6/18/2015

Start Time: 7:00 AM

Location:	1. Fairway Lane(EB)			2. Village Court(EB)			3. Middlefield Road(NB)			4. Brookhaven Lane(NB)		
	Time	License	Match	Time	License	Match	Time	License	Match	Time	License	Match
	8:28	RJS					8:33	803				
	8:30	WMU					8:33	625				
	8:30	WNB					8:33	Q8W				
	8:30	JCC					8:34	RTC				
	8:31	SHN					8:34	VDQ				
	8:32	DZC					8:35	NEK				
	8:32	RYG					8:35	JAQ				
	8:34	MOM					8:36	PLI				
	8:34	OEM					8:37	VNY				
	8:37	CAA					8:38	BDQ				
	8:37	ITE					8:38	QLS				
	8:39	150					8:39	RSJ				
	8:44	ERV					8:40	QLK				
	8:44	SUB					8:40	XVL				
	8:46	QLX					8:41	HFD				
	8:49	QTO					8:41	VIG				
	8:50	NLC					8:42	CEP				
	8:51	ZPE					8:43	CEW				
	8:54	ZPZ					8:44	YFZ				
	8:54	VFQ					8:45	GZS				
	8:54	WCU					8:46	LKE				
	8:55	NQW					8:47	VIG				
	8:56	QGZ					8:47	JLM				
	8:56	ER6					8:48	XSH				
	8:58	MCL					8:48	YXR				
	8:59	ZNN					8:48	FEQ				
							8:48	YPZ				
							8:49	QDW				
							8:49	JSU				
							8:52	FEQ				
							8:58	XUJ				





August 30<sup>th</sup>, 2017

J.D. McCrumb  
Town Administrator  
Town of Columbine Valley, Colorado  
2 Middlefield Road  
Columbine Valley, CO 80123

Re: Results of Speed Study

Mr. McCrumb:

Stolfus & Associates, Inc. (Stolfus) have completed the speed study requested by the Town of Columbine Valley. All traffic data was collected between August 20<sup>th</sup> and August 26<sup>th</sup>, 2007.

Speed Study

The speed study was conducted along eastbound Fairway Lane entering the Town of Columbine Valley. The study was conducted along the straight section of roadway located near 13 Fairway Lane.

The following provides a summary of the speed study results:

Number of Observations: 4810  
Average Speed: 24.4 MPH  
85<sup>th</sup> Percentile Speed: 28.8 MPH

Monday through Friday  
Number of Observations: 3866  
Average Speed: 24.5 MPH  
85<sup>th</sup> Percentile Speed: 28.9 MPH

Saturday & Sunday  
Number of Observations: 944  
Average Speed: 24.1 MPH  
85<sup>th</sup> Percentile Speed: 28.7 MPH

As you recall, a speed study at this same location was conducted back in 2015. The 85<sup>th</sup> percentile speed during that study was 29.2 MPH. The results for the August 2017 study are therefore comparable with speeds recorded in the past.

Mr. J.D. McCrumb  
August 30, 2017  
Page 2

Typically, the posted speed limit is set at the 85<sup>th</sup> percentile speed based on the presumption that most drivers travel at a speed that is reasonable and prudent for the conditions. Some discretion is permitted when setting speed limits (typically they are set at 85<sup>th</sup> percentile speed +/- 5 MPH).

Based upon the speed study, a 25 MPH posted speed limit is appropriate.

Data from the speed study is also attached.

Regards,

**STOLFUS & ASSOCIATES, INC.**

A handwritten signature in blue ink that reads "Matthew J. Brown". The signature is written in a cursive, flowing style.

Matthew J. Brown, P.E.  
Senior Transportation Engineer



# Highland Data Collection LLC

## Columbine Valley Speed Study 2017

Location: Fairway Ln between Platte Canyon Rd and Club Ln

Start Date: 8/19/2017

Start Time: 11:00

Posted Speed: 25

Interval: 15 Min

Title: East Bound Speeds

Date/Time	5-14 MPH	15-19 MPH	20-24 MPH	25-29 MPH	30-34 MPH	35-39 MPH	Total
08/19/2017 11:00 - 11:14	3	6	4	1	0	0	14
08/19/2017 11:15 - 11:29	0	1	9	7	0	0	17
08/19/2017 11:30 - 11:44	0	2	5	3	0	0	10
08/19/2017 11:45 - 11:59	0	2	4	3	1	0	10
08/19/2017 12:00 - 12:14	2	0	6	4	1	0	13
08/19/2017 12:15 - 12:29	1	2	5	4	0	0	12
08/19/2017 12:30 - 12:44	0	0	4	5	0	0	9
08/19/2017 12:45 - 12:59	1	1	4	8	0	0	14
08/19/2017 13:00 - 13:14	1	2	4	4	0	0	11
08/19/2017 13:15 - 13:29	1	0	4	4	1	0	10
08/19/2017 13:30 - 13:44	0	1	7	3	1	0	12
08/19/2017 13:45 - 13:59	0	0	7	8	0	0	15
08/19/2017 14:00 - 14:14	1	1	5	2	1	0	10
08/19/2017 14:15 - 14:29	1	3	5	3	0	0	12
08/19/2017 14:30 - 14:44	0	0	7	2	0	0	9
08/19/2017 14:45 - 14:59	0	4	6	5	0	0	15
08/19/2017 15:00 - 15:14	1	0	5	5	3	0	14
08/19/2017 15:15 - 15:29	0	0	5	2	0	0	7
08/19/2017 15:30 - 15:44	0	1	4	3	0	0	8
08/19/2017 15:45 - 15:59	1	0	9	5	2	0	17
08/19/2017 16:00 - 16:14	0	0	4	2	3	0	9
08/19/2017 16:15 - 16:29	1	5	4	8	0	0	18
08/19/2017 16:30 - 16:44	0	1	7	6	1	0	15
08/19/2017 16:45 - 16:59	0	0	6	7	1	0	14
08/19/2017 17:00 - 17:14	0	3	2	4	0	0	9
08/19/2017 17:15 - 17:29	0	2	4	2	0	0	8
08/19/2017 17:30 - 17:44	0	0	9	1	1	0	11
08/19/2017 17:45 - 17:59	0	1	4	2	0	0	7
08/19/2017 18:00 - 18:14	2	0	4	3	0	0	9
08/19/2017 18:15 - 18:29	0	4	1	6	0	0	11
08/19/2017 18:30 - 18:44	0	0	4	6	1	0	11
08/19/2017 18:45 - 18:59	0	1	7	4	0	0	12
08/19/2017 19:00 - 19:14	0	4	3	2	3	0	12
08/19/2017 19:15 - 19:29	0	1	1	2	0	0	4
08/19/2017 19:30 - 19:44	0	1	8	5	0	0	14
08/19/2017 19:45 - 19:59	0	0	4	4	0	0	8
08/19/2017 20:00 - 20:14	0	1	1	0	0	0	2

Date/Time	5-14 MPH	15-19 MPH	20-24 MPH	25-29 MPH	30-34 MPH	35-39 MPH	Total
08/19/2017 20:15 - 20:29	0	1	0	0	1	0	2
08/19/2017 20:30 - 20:44	0	1	0	1	0	0	2
08/19/2017 20:45 - 20:59	0	1	5	2	0	0	8
08/19/2017 21:00 - 21:14	0	1	0	2	0	0	3
08/19/2017 21:15 - 21:29	0	1	1	2	0	0	4
08/19/2017 21:30 - 21:44	0	0	2	1	0	0	3
08/19/2017 21:45 - 21:59	0	0	0	2	0	0	2
08/19/2017 22:00 - 22:14	0	0	3	2	0	0	5
08/19/2017 22:15 - 22:29	0	0	1	0	0	0	1
08/19/2017 22:30 - 22:44	0	0	1	0	0	0	1
08/19/2017 22:45 - 22:59	0	0	0	1	0	0	1
08/19/2017 23:00 - 23:14	0	0	1	0	0	0	1
08/19/2017 23:15 - 23:29	0	0	1	0	0	0	1
08/19/2017 23:30 - 23:44	0	1	1	2	1	0	5
08/19/2017 23:45 - 23:59	0	0	0	0	0	0	0
08/20/2017 00:00 - 00:14	0	0	0	0	0	0	0
08/20/2017 00:15 - 00:29	0	0	0	0	0	0	0
08/20/2017 00:30 - 00:44	0	0	0	1	0	0	1
08/20/2017 00:45 - 00:59	0	0	1	0	0	0	1
08/20/2017 01:00 - 01:14	0	0	0	0	0	0	0
08/20/2017 01:15 - 01:29	0	0	0	0	0	0	0
08/20/2017 01:30 - 01:44	0	0	0	0	0	0	0
08/20/2017 01:45 - 01:59	0	0	0	0	0	0	0
08/20/2017 02:00 - 02:14	0	0	0	0	0	0	0
08/20/2017 02:15 - 02:29	0	0	0	0	0	0	0
08/20/2017 02:30 - 02:44	0	0	0	0	0	0	0
08/20/2017 02:45 - 02:59	0	0	0	0	0	0	0
08/20/2017 03:00 - 03:14	0	1	0	0	0	0	1
08/20/2017 03:15 - 03:29	0	0	0	0	0	0	0
08/20/2017 03:30 - 03:44	0	0	0	0	0	0	0
08/20/2017 03:45 - 03:59	0	0	0	0	0	0	0
08/20/2017 04:00 - 04:14	0	0	0	0	0	0	0
08/20/2017 04:15 - 04:29	0	0	0	0	0	0	0
08/20/2017 04:30 - 04:44	0	0	0	0	0	0	0
08/20/2017 04:45 - 04:59	0	0	0	0	0	0	0
08/20/2017 05:00 - 05:14	0	0	0	2	0	0	2
08/20/2017 05:15 - 05:29	0	0	2	6	0	0	8
08/20/2017 05:30 - 05:44	0	0	0	0	0	0	0
08/20/2017 05:45 - 05:59	0	0	0	1	0	0	1
08/20/2017 06:00 - 06:14	0	0	0	0	0	1	1
08/20/2017 06:15 - 06:29	0	0	0	1	0	0	1
08/20/2017 06:30 - 06:44	0	1	2	1	0	0	4
08/20/2017 06:45 - 06:59	0	1	2	3	1	0	7
08/20/2017 07:00 - 07:14	0	0	4	1	0	0	5
08/20/2017 07:15 - 07:29	0	0	1	2	0	0	3
08/20/2017 07:30 - 07:44	0	0	0	1	0	0	1



Date/Time	5-14 MPH	15-19 MPH	20-24 MPH	25-29 MPH	30-34 MPH	35-39 MPH	Total
08/20/2017 07:45 - 07:59	0	0	0	3	1	0	4
08/20/2017 08:00 - 08:14	0	0	0	0	1	0	1
08/20/2017 08:15 - 08:29	0	0	1	3	0	0	4
08/20/2017 08:30 - 08:44	0	0	1	1	0	0	2
08/20/2017 08:45 - 08:59	0	1	1	3	0	0	5
08/20/2017 09:00 - 09:14	0	0	4	0	1	0	5
08/20/2017 09:15 - 09:29	1	0	2	2	1	0	6
08/20/2017 09:30 - 09:44	0	1	5	5	1	0	12
08/20/2017 09:45 - 09:59	0	0	5	4	0	0	9
08/20/2017 10:00 - 10:14	0	1	1	4	0	0	6
08/20/2017 10:15 - 10:29	0	2	2	7	0	0	11
08/20/2017 10:30 - 10:44	0	1	4	2	1	0	8
08/20/2017 10:45 - 10:59	0	1	3	0	0	0	4
08/20/2017 11:00 - 11:14	0	0	8	5	0	0	13
08/20/2017 11:15 - 11:29	0	1	5	2	0	0	8
08/20/2017 11:30 - 11:44	1	0	6	3	2	0	12
08/20/2017 11:45 - 11:59	0	1	4	3	1	1	10
08/20/2017 12:00 - 12:14	0	0	3	6	3	0	12
08/20/2017 12:15 - 12:29	0	2	0	2	0	0	4
08/20/2017 12:30 - 12:44	0	2	4	7	0	0	13
08/20/2017 12:45 - 12:59	0	2	6	6	0	0	14
08/20/2017 13:00 - 13:14	0	1	4	7	1	0	13
08/20/2017 13:15 - 13:29	0	1	4	3	1	0	9
08/20/2017 13:30 - 13:44	0	0	8	6	1	0	15
08/20/2017 13:45 - 13:59	0	0	4	4	0	0	8
08/20/2017 14:00 - 14:14	0	0	3	7	0	0	10
08/20/2017 14:15 - 14:29	1	0	5	7	0	0	13
08/20/2017 14:30 - 14:44	0	2	7	2	2	0	13
08/20/2017 14:45 - 14:59	0	0	3	6	0	0	9
08/20/2017 15:00 - 15:14	0	0	0	6	1	0	7
08/20/2017 15:15 - 15:29	0	0	4	3	0	0	7
08/20/2017 15:30 - 15:44	0	1	6	2	0	0	9
08/20/2017 15:45 - 15:59	0	1	6	5	0	0	12
08/20/2017 16:00 - 16:14	1	3	6	3	0	0	13
08/20/2017 16:15 - 16:29	1	1	7	5	0	1	15
08/20/2017 16:30 - 16:44	1	0	4	3	0	0	8
08/20/2017 16:45 - 16:59	0	4	3	3	1	0	11
08/20/2017 17:00 - 17:14	0	3	7	4	0	0	14
08/20/2017 17:15 - 17:29	0	1	2	6	0	0	9
08/20/2017 17:30 - 17:44	1	1	8	1	0	0	11
08/20/2017 17:45 - 17:59	0	0	1	3	0	0	4
08/20/2017 18:00 - 18:14	0	1	1	1	0	0	3
08/20/2017 18:15 - 18:29	1	3	2	1	0	0	7
08/20/2017 18:30 - 18:44	0	3	7	1	0	0	11
08/20/2017 18:45 - 18:59	1	3	1	1	0	0	6
08/20/2017 19:00 - 19:14	0	1	1	0	2	0	4

Date/Time	5-14 MPH	15-19 MPH	20-24 MPH	25-29 MPH	30-34 MPH	35-39 MPH	Total
08/20/2017 19:15 - 19:29	0	4	2	1	0	0	7
08/20/2017 19:30 - 19:44	0	2	1	1	0	0	4
08/20/2017 19:45 - 19:59	0	0	5	4	0	0	9
08/20/2017 20:00 - 20:14	0	4	1	1	0	0	6
08/20/2017 20:15 - 20:29	0	3	3	0	0	0	6
08/20/2017 20:30 - 20:44	0	1	0	1	1	0	3
08/20/2017 20:45 - 20:59	0	0	3	1	0	0	4
08/20/2017 21:00 - 21:14	0	0	1	2	0	0	3
08/20/2017 21:15 - 21:29	0	0	3	2	0	0	5
08/20/2017 21:30 - 21:44	0	0	0	0	0	0	0
08/20/2017 21:45 - 21:59	0	1	0	0	0	0	1
08/20/2017 22:00 - 22:14	0	0	1	0	0	0	1
08/20/2017 22:15 - 22:29	0	0	0	0	0	0	0
08/20/2017 22:30 - 22:44	0	0	0	0	0	0	0
08/20/2017 22:45 - 22:59	0	0	0	2	0	0	2
08/20/2017 23:00 - 23:14	0	0	0	0	0	0	0
08/20/2017 23:15 - 23:29	0	0	0	0	0	0	0
08/20/2017 23:30 - 23:44	0	0	0	1	0	0	1
08/20/2017 23:45 - 23:59	0	0	0	0	0	0	0
08/21/2017 00:00 - 00:14	0	0	0	0	0	0	0
08/21/2017 00:15 - 00:29	0	0	0	0	0	0	0
08/21/2017 00:30 - 00:44	0	0	0	0	0	0	0
08/21/2017 00:45 - 00:59	0	0	0	0	0	0	0
08/21/2017 01:00 - 01:14	0	0	1	0	0	0	1
08/21/2017 01:15 - 01:29	0	0	0	0	0	0	0
08/21/2017 01:30 - 01:44	0	0	0	0	0	0	0
08/21/2017 01:45 - 01:59	0	0	0	0	0	0	0
08/21/2017 02:00 - 02:14	0	0	0	0	0	0	0
08/21/2017 02:15 - 02:29	0	0	1	0	0	0	1
08/21/2017 02:30 - 02:44	0	0	0	0	0	0	0
08/21/2017 02:45 - 02:59	0	0	0	0	0	0	0
08/21/2017 03:00 - 03:14	0	0	0	0	0	0	0
08/21/2017 03:15 - 03:29	0	0	0	0	0	0	0
08/21/2017 03:30 - 03:44	0	0	0	0	0	0	0
08/21/2017 03:45 - 03:59	0	0	0	0	0	0	0
08/21/2017 04:00 - 04:14	0	0	0	0	0	0	0
08/21/2017 04:15 - 04:29	0	0	0	0	0	0	0
08/21/2017 04:30 - 04:44	0	1	0	0	0	0	1
08/21/2017 04:45 - 04:59	0	0	0	0	0	0	0
08/21/2017 05:00 - 05:14	0	0	5	1	0	0	6
08/21/2017 05:15 - 05:29	0	0	2	6	1	0	9
08/21/2017 05:30 - 05:44	0	0	0	1	1	0	2
08/21/2017 05:45 - 05:59	0	0	3	4	1	0	8
08/21/2017 06:00 - 06:14	0	0	0	1	0	0	1
08/21/2017 06:15 - 06:29	0	0	2	5	0	1	8
08/21/2017 06:30 - 06:44	0	1	5	0	1	0	7



Date/Time	5-14 MPH	15-19 MPH	20-24 MPH	25-29 MPH	30-34 MPH	35-39 MPH	Total
08/21/2017 06:45 - 06:59	0	0	6	4	1	0	11
08/21/2017 07:00 - 07:14	0	1	7	5	0	0	13
08/21/2017 07:15 - 07:29	0	4	5	7	0	0	16
08/21/2017 07:30 - 07:44	1	1	8	6	0	0	16
08/21/2017 07:45 - 07:59	0	0	8	8	0	1	17
08/21/2017 08:00 - 08:14	0	2	18	14	1	0	35
08/21/2017 08:15 - 08:29	0	2	8	14	1	0	25
08/21/2017 08:30 - 08:44	1	2	10	14	0	0	27
08/21/2017 08:45 - 08:59	0	3	5	6	0	0	14
08/21/2017 09:00 - 09:14	1	1	4	6	1	0	13
08/21/2017 09:15 - 09:29	1	0	4	5	0	0	10
08/21/2017 09:30 - 09:44	0	0	7	3	0	0	10
08/21/2017 09:45 - 09:59	0	3	2	6	0	0	11
08/21/2017 10:00 - 10:14	0	3	3	1	2	0	9
08/21/2017 10:15 - 10:29	0	1	8	7	1	0	17
08/21/2017 10:30 - 10:44	0	1	5	4	1	0	11
08/21/2017 10:45 - 10:59	0	1	10	4	0	0	15
08/21/2017 11:00 - 11:14	1	2	4	6	0	0	13
08/21/2017 11:15 - 11:29	0	3	5	7	0	0	15
08/21/2017 11:30 - 11:44	2	1	6	1	0	0	10
08/21/2017 11:45 - 11:59	0	3	2	2	3	0	10
08/21/2017 12:00 - 12:14	0	1	8	3	1	0	13
08/21/2017 12:15 - 12:29	0	1	4	4	1	0	10
08/21/2017 12:30 - 12:44	0	2	5	4	0	0	11
08/21/2017 12:45 - 12:59	1	0	1	5	0	0	7
08/21/2017 13:00 - 13:14	0	2	2	6	1	0	11
08/21/2017 13:15 - 13:29	0	0	2	4	1	0	7
08/21/2017 13:30 - 13:44	0	1	3	1	3	0	8
08/21/2017 13:45 - 13:59	0	0	5	2	0	0	7
08/21/2017 14:00 - 14:14	0	1	3	3	0	1	8
08/21/2017 14:15 - 14:29	2	1	2	7	1	1	14
08/21/2017 14:30 - 14:44	0	0	8	4	2	0	14
08/21/2017 14:45 - 14:59	0	2	8	8	1	0	19
08/21/2017 15:00 - 15:14	2	0	7	2	0	0	11
08/21/2017 15:15 - 15:29	0	0	4	10	1	0	15
08/21/2017 15:30 - 15:44	0	1	7	5	1	0	14
08/21/2017 15:45 - 15:59	0	2	5	8	1	0	16
08/21/2017 16:00 - 16:14	0	5	1	5	2	0	13
08/21/2017 16:15 - 16:29	0	0	4	4	0	0	8
08/21/2017 16:30 - 16:44	1	0	4	1	1	0	7
08/21/2017 16:45 - 16:59	0	0	8	3	1	0	12
08/21/2017 17:00 - 17:14	0	1	3	8	2	0	14
08/21/2017 17:15 - 17:29	0	2	5	5	1	0	13
08/21/2017 17:30 - 17:44	0	1	7	6	1	0	15
08/21/2017 17:45 - 17:59	0	2	4	6	1	0	13
08/21/2017 18:00 - 18:14	0	2	5	5	0	0	12

Date/Time	5-14 MPH	15-19 MPH	20-24 MPH	25-29 MPH	30-34 MPH	35-39 MPH	Total
08/21/2017 18:15 - 18:29	0	0	2	7	1	0	10
08/21/2017 18:30 - 18:44	0	0	4	2	1	0	7
08/21/2017 18:45 - 18:59	0	1	1	1	1	0	4
08/21/2017 19:00 - 19:14	0	0	2	0	0	0	2
08/21/2017 19:15 - 19:29	0	0	1	3	0	0	4
08/21/2017 19:30 - 19:44	1	1	3	2	1	0	8
08/21/2017 19:45 - 19:59	0	0	0	2	0	0	2
08/21/2017 20:00 - 20:14	0	2	1	3	0	0	6
08/21/2017 20:15 - 20:29	0	0	6	1	1	0	8
08/21/2017 20:30 - 20:44	0	0	4	4	0	0	8
08/21/2017 20:45 - 20:59	1	0	0	0	0	0	1
08/21/2017 21:00 - 21:14	0	0	0	3	0	0	3
08/21/2017 21:15 - 21:29	0	0	1	1	0	0	2
08/21/2017 21:30 - 21:44	0	0	1	0	0	0	1
08/21/2017 21:45 - 21:59	0	0	1	0	0	0	1
08/21/2017 22:00 - 22:14	0	0	1	1	1	0	3
08/21/2017 22:15 - 22:29	0	0	1	1	0	0	2
08/21/2017 22:30 - 22:44	0	0	0	0	0	0	0
08/21/2017 22:45 - 22:59	0	0	0	0	0	0	0
08/21/2017 23:00 - 23:14	0	0	0	0	0	0	0
08/21/2017 23:15 - 23:29	0	0	0	0	0	0	0
08/21/2017 23:30 - 23:44	0	0	0	0	0	0	0
08/21/2017 23:45 - 23:59	0	0	0	0	0	0	0
08/22/2017 00:00 - 00:14	0	0	0	0	0	0	0
08/22/2017 00:15 - 00:29	0	0	0	0	0	0	0
08/22/2017 00:30 - 00:44	0	0	0	0	0	0	0
08/22/2017 00:45 - 00:59	0	0	0	0	0	0	0
08/22/2017 01:00 - 01:14	0	0	0	0	0	0	0
08/22/2017 01:15 - 01:29	0	0	0	0	0	0	0
08/22/2017 01:30 - 01:44	0	0	0	0	0	0	0
08/22/2017 01:45 - 01:59	0	0	0	0	0	0	0
08/22/2017 02:00 - 02:14	0	0	0	0	0	0	0
08/22/2017 02:15 - 02:29	0	0	0	0	0	0	0
08/22/2017 02:30 - 02:44	0	0	0	0	0	0	0
08/22/2017 02:45 - 02:59	1	0	0	1	0	0	2
08/22/2017 03:00 - 03:14	0	0	0	0	0	0	0
08/22/2017 03:15 - 03:29	0	0	0	0	0	0	0
08/22/2017 03:30 - 03:44	0	0	1	0	0	0	1
08/22/2017 03:45 - 03:59	0	0	0	0	0	0	0
08/22/2017 04:00 - 04:14	0	0	0	0	0	0	0
08/22/2017 04:15 - 04:29	0	0	0	0	0	0	0
08/22/2017 04:30 - 04:44	0	0	0	0	0	0	0
08/22/2017 04:45 - 04:59	0	0	0	0	0	0	0
08/22/2017 05:00 - 05:14	0	0	3	0	0	0	3
08/22/2017 05:15 - 05:29	0	0	3	8	2	0	13
08/22/2017 05:30 - 05:44	0	0	1	0	1	0	2



Date/Time	5-14 MPH	15-19 MPH	20-24 MPH	25-29 MPH	30-34 MPH	35-39 MPH	Total
08/22/2017 05:45 - 05:59	0	1	2	2	0	0	5
08/22/2017 06:00 - 06:14	0	0	0	5	1	0	6
08/22/2017 06:15 - 06:29	0	0	1	3	3	0	7
08/22/2017 06:30 - 06:44	0	0	2	6	0	0	8
08/22/2017 06:45 - 06:59	0	0	7	10	0	0	17
08/22/2017 07:00 - 07:14	0	0	3	4	2	0	9
08/22/2017 07:15 - 07:29	0	0	5	4	0	0	9
08/22/2017 07:30 - 07:44	0	1	6	3	0	0	10
08/22/2017 07:45 - 07:59	0	0	9	8	2	0	19
08/22/2017 08:00 - 08:14	0	4	9	5	1	1	20
08/22/2017 08:15 - 08:29	1	2	1	6	4	0	14
08/22/2017 08:30 - 08:44	0	0	5	3	0	0	8
08/22/2017 08:45 - 08:59	0	2	7	8	1	1	19
08/22/2017 09:00 - 09:14	1	2	6	5	0	0	14
08/22/2017 09:15 - 09:29	1	4	7	7	0	0	19
08/22/2017 09:30 - 09:44	0	1	1	4	1	0	7
08/22/2017 09:45 - 09:59	0	0	6	4	0	0	10
08/22/2017 10:00 - 10:14	1	1	5	3	0	0	10
08/22/2017 10:15 - 10:29	0	1	3	6	1	0	11
08/22/2017 10:30 - 10:44	0	0	4	5	1	0	10
08/22/2017 10:45 - 10:59	0	1	4	7	1	0	13
08/22/2017 11:00 - 11:14	0	0	4	7	1	0	12
08/22/2017 11:15 - 11:29	0	0	7	4	1	0	12
08/22/2017 11:30 - 11:44	0	3	9	2	1	0	15
08/22/2017 11:45 - 11:59	0	1	2	3	1	0	7
08/22/2017 12:00 - 12:14	0	1	9	5	1	0	16
08/22/2017 12:15 - 12:29	0	4	8	10	1	0	23
08/22/2017 12:30 - 12:44	0	1	5	6	1	0	13
08/22/2017 12:45 - 12:59	1	5	5	3	1	0	15
08/22/2017 13:00 - 13:14	0	2	5	3	0	0	10
08/22/2017 13:15 - 13:29	0	0	4	4	1	0	9
08/22/2017 13:30 - 13:44	0	0	4	5	0	0	9
08/22/2017 13:45 - 13:59	0	1	4	2	0	0	7
08/22/2017 14:00 - 14:14	0	2	6	6	1	0	15
08/22/2017 14:15 - 14:29	0	2	7	5	1	0	15
08/22/2017 14:30 - 14:44	0	1	6	3	0	0	10
08/22/2017 14:45 - 14:59	0	4	7	4	1	0	16
08/22/2017 15:00 - 15:14	0	1	4	6	0	0	11
08/22/2017 15:15 - 15:29	1	1	8	5	2	0	17
08/22/2017 15:30 - 15:44	0	0	7	8	0	0	15
08/22/2017 15:45 - 15:59	0	0	7	5	0	0	12
08/22/2017 16:00 - 16:14	1	1	10	4	1	0	17
08/22/2017 16:15 - 16:29	0	0	8	4	3	0	15
08/22/2017 16:30 - 16:44	0	0	4	10	3	0	17
08/22/2017 16:45 - 16:59	0	0	9	6	0	0	15
08/22/2017 17:00 - 17:14	0	1	6	7	1	0	15

Date/Time	5-14 MPH	15-19 MPH	20-24 MPH	25-29 MPH	30-34 MPH	35-39 MPH	Total
08/22/2017 17:15 - 17:29	0	1	1	3	1	0	6
08/22/2017 17:30 - 17:44	0	1	6	3	0	0	10
08/22/2017 17:45 - 17:59	0	1	1	2	1	0	5
08/22/2017 18:00 - 18:14	0	2	1	4	1	0	8
08/22/2017 18:15 - 18:29	0	1	3	3	2	0	9
08/22/2017 18:30 - 18:44	0	0	3	2	0	0	5
08/22/2017 18:45 - 18:59	1	2	8	4	0	0	15
08/22/2017 19:00 - 19:14	0	1	2	3	0	0	6
08/22/2017 19:15 - 19:29	0	0	3	1	0	0	4
08/22/2017 19:30 - 19:44	0	0	3	2	0	0	5
08/22/2017 19:45 - 19:59	0	0	0	1	0	0	1
08/22/2017 20:00 - 20:14	0	0	3	2	0	0	5
08/22/2017 20:15 - 20:29	0	0	1	4	0	0	5
08/22/2017 20:30 - 20:44	0	0	3	1	0	0	4
08/22/2017 20:45 - 20:59	0	0	1	1	0	0	2
08/22/2017 21:00 - 21:14	0	1	1	3	0	0	5
08/22/2017 21:15 - 21:29	0	0	1	0	0	0	1
08/22/2017 21:30 - 21:44	0	0	1	2	0	0	3
08/22/2017 21:45 - 21:59	0	0	0	1	0	0	1
08/22/2017 22:00 - 22:14	0	0	0	0	0	0	0
08/22/2017 22:15 - 22:29	1	0	0	1	0	0	2
08/22/2017 22:30 - 22:44	0	0	0	0	0	0	0
08/22/2017 22:45 - 22:59	0	0	1	0	0	0	1
08/22/2017 23:00 - 23:14	0	0	0	0	0	0	0
08/22/2017 23:15 - 23:29	0	0	0	0	0	0	0
08/22/2017 23:30 - 23:44	0	0	1	1	0	0	2
08/22/2017 23:45 - 23:59	0	0	0	0	1	0	1
08/23/2017 00:00 - 00:14	0	0	0	0	0	0	0
08/23/2017 00:15 - 00:29	0	0	0	0	0	0	0
08/23/2017 00:30 - 00:44	0	0	0	0	0	0	0
08/23/2017 00:45 - 00:59	0	0	0	0	0	0	0
08/23/2017 01:00 - 01:14	0	0	0	0	0	0	0
08/23/2017 01:15 - 01:29	0	0	0	0	0	0	0
08/23/2017 01:30 - 01:44	0	0	0	0	0	0	0
08/23/2017 01:45 - 01:59	0	0	0	0	0	0	0
08/23/2017 02:00 - 02:14	0	0	0	0	0	0	0
08/23/2017 02:15 - 02:29	0	0	0	0	0	0	0
08/23/2017 02:30 - 02:44	0	0	0	0	0	0	0
08/23/2017 02:45 - 02:59	0	0	2	0	0	0	2
08/23/2017 03:00 - 03:14	0	0	0	0	0	0	0
08/23/2017 03:15 - 03:29	0	0	0	0	0	0	0
08/23/2017 03:30 - 03:44	0	0	1	1	0	0	2
08/23/2017 03:45 - 03:59	0	0	0	0	0	0	0
08/23/2017 04:00 - 04:14	0	0	2	0	0	0	2
08/23/2017 04:15 - 04:29	0	0	0	0	0	0	0
08/23/2017 04:30 - 04:44	0	0	0	0	0	0	0

Date/Time	5-14 MPH	15-19 MPH	20-24 MPH	25-29 MPH	30-34 MPH	35-39 MPH	Total
08/23/2017 04:45 - 04:59	0	0	0	1	0	0	1
08/23/2017 05:00 - 05:14	0	0	2	2	0	0	4
08/23/2017 05:15 - 05:29	0	0	4	6	0	0	10
08/23/2017 05:30 - 05:44	0	0	0	1	0	0	1
08/23/2017 05:45 - 05:59	0	0	1	1	1	0	3
08/23/2017 06:00 - 06:14	0	0	2	2	0	0	4
08/23/2017 06:15 - 06:29	0	0	5	2	0	1	8
08/23/2017 06:30 - 06:44	0	1	6	0	1	0	8
08/23/2017 06:45 - 06:59	0	0	6	6	0	0	12
08/23/2017 07:00 - 07:14	0	3	6	4	2	0	15
08/23/2017 07:15 - 07:29	0	1	2	5	1	0	9
08/23/2017 07:30 - 07:44	0	1	10	3	0	0	14
08/23/2017 07:45 - 07:59	0	4	10	11	2	0	27
08/23/2017 08:00 - 08:14	0	4	6	12	1	0	23
08/23/2017 08:15 - 08:29	0	1	12	8	0	0	21
08/23/2017 08:30 - 08:44	1	4	10	3	1	0	19
08/23/2017 08:45 - 08:59	0	5	12	2	0	0	19
08/23/2017 09:00 - 09:14	0	5	3	2	0	0	10
08/23/2017 09:15 - 09:29	0	1	3	7	0	0	11
08/23/2017 09:30 - 09:44	0	4	4	1	0	0	9
08/23/2017 09:45 - 09:59	0	3	7	3	0	0	13
08/23/2017 10:00 - 10:14	0	4	5	1	0	0	10
08/23/2017 10:15 - 10:29	0	5	6	5	0	0	16
08/23/2017 10:30 - 10:44	1	0	3	2	0	0	6
08/23/2017 10:45 - 10:59	0	3	0	6	2	0	11
08/23/2017 11:00 - 11:14	1	1	6	4	0	0	12
08/23/2017 11:15 - 11:29	0	2	7	7	0	0	16
08/23/2017 11:30 - 11:44	0	2	7	8	1	0	18
08/23/2017 11:45 - 11:59	0	2	8	6	0	0	16
08/23/2017 12:00 - 12:14	0	1	5	1	0	0	7
08/23/2017 12:15 - 12:29	0	2	9	6	2	0	19
08/23/2017 12:30 - 12:44	0	3	11	8	0	1	23
08/23/2017 12:45 - 12:59	0	3	5	6	0	0	14
08/23/2017 13:00 - 13:14	0	2	7	9	1	0	19
08/23/2017 13:15 - 13:29	1	1	5	6	2	0	15
08/23/2017 13:30 - 13:44	0	1	6	5	2	0	14
08/23/2017 13:45 - 13:59	0	2	8	6	0	0	16
08/23/2017 14:00 - 14:14	0	0	5	7	0	0	12
08/23/2017 14:15 - 14:29	0	2	4	5	0	0	11
08/23/2017 14:30 - 14:44	0	1	5	8	0	0	14
08/23/2017 14:45 - 14:59	1	1	3	7	2	0	14
08/23/2017 15:00 - 15:14	1	0	3	6	1	0	11
08/23/2017 15:15 - 15:29	0	1	10	2	3	0	16
08/23/2017 15:30 - 15:44	0	0	7	5	0	0	12
08/23/2017 15:45 - 15:59	0	2	6	11	0	0	19
08/23/2017 16:00 - 16:14	0	0	6	4	0	0	10



Date/Time	5-14 MPH	15-19 MPH	20-24 MPH	25-29 MPH	30-34 MPH	35-39 MPH	Total
08/23/2017 16:15 - 16:29	0	0	3	8	2	0	13
08/23/2017 16:30 - 16:44	0	0	3	9	0	0	12
08/23/2017 16:45 - 16:59	0	0	6	3	0	0	9
08/23/2017 17:00 - 17:14	0	2	7	2	1	1	13
08/23/2017 17:15 - 17:29	0	2	8	6	3	0	19
08/23/2017 17:30 - 17:44	0	1	2	8	1	0	12
08/23/2017 17:45 - 17:59	0	0	4	0	0	0	4
08/23/2017 18:00 - 18:14	0	0	5	6	0	0	11
08/23/2017 18:15 - 18:29	2	3	3	5	1	0	14
08/23/2017 18:30 - 18:44	0	0	3	5	2	0	10
08/23/2017 18:45 - 18:59	0	2	1	4	0	0	7
08/23/2017 19:00 - 19:14	0	0	3	2	0	0	5
08/23/2017 19:15 - 19:29	0	0	1	5	0	0	6
08/23/2017 19:30 - 19:44	0	1	2	1	0	0	4
08/23/2017 19:45 - 19:59	0	3	8	4	0	0	15
08/23/2017 20:00 - 20:14	0	2	3	3	0	0	8
08/23/2017 20:15 - 20:29	0	0	1	3	0	0	4
08/23/2017 20:30 - 20:44	0	0	0	2	0	0	2
08/23/2017 20:45 - 20:59	0	0	2	2	0	0	4
08/23/2017 21:00 - 21:14	0	1	1	8	0	0	10
08/23/2017 21:15 - 21:29	0	0	3	1	0	0	4
08/23/2017 21:30 - 21:44	0	0	3	2	0	0	5
08/23/2017 21:45 - 21:59	0	0	1	0	0	0	1
08/23/2017 22:00 - 22:14	0	0	0	1	0	0	1
08/23/2017 22:15 - 22:29	0	0	0	0	0	0	0
08/23/2017 22:30 - 22:44	0	0	0	0	0	0	0
08/23/2017 22:45 - 22:59	0	0	0	0	0	0	0
08/23/2017 23:00 - 23:14	0	0	0	0	0	0	0
08/23/2017 23:15 - 23:29	0	1	1	0	0	0	2
08/23/2017 23:30 - 23:44	1	0	0	0	0	0	1
08/23/2017 23:45 - 23:59	0	0	0	0	0	0	0
08/24/2017 00:00 - 00:14	0	0	0	0	0	0	0
08/24/2017 00:15 - 00:29	0	0	0	0	0	0	0
08/24/2017 00:30 - 00:44	0	0	0	0	0	0	0
08/24/2017 00:45 - 00:59	0	0	0	0	0	0	0
08/24/2017 01:00 - 01:14	0	0	0	0	0	0	0
08/24/2017 01:15 - 01:29	0	0	0	0	0	0	0
08/24/2017 01:30 - 01:44	0	0	0	0	0	0	0
08/24/2017 01:45 - 01:59	0	0	0	0	0	0	0
08/24/2017 02:00 - 02:14	0	0	0	0	0	0	0
08/24/2017 02:15 - 02:29	0	0	0	0	0	0	0
08/24/2017 02:30 - 02:44	0	0	0	0	0	0	0
08/24/2017 02:45 - 02:59	0	0	0	0	0	0	0
08/24/2017 03:00 - 03:14	0	0	0	0	0	0	0
08/24/2017 03:15 - 03:29	0	0	0	0	0	0	0
08/24/2017 03:30 - 03:44	0	0	0	0	0	0	0

Date/Time	5-14 MPH	15-19 MPH	20-24 MPH	25-29 MPH	30-34 MPH	35-39 MPH	Total
08/24/2017 03:45 - 03:59	0	0	0	0	0	0	0
08/24/2017 04:00 - 04:14	0	0	0	0	0	0	0
08/24/2017 04:15 - 04:29	0	0	0	0	0	0	0
08/24/2017 04:30 - 04:44	0	0	0	0	0	0	0
08/24/2017 04:45 - 04:59	0	0	0	0	0	0	0
08/24/2017 05:00 - 05:14	0	0	4	4	0	0	8
08/24/2017 05:15 - 05:29	0	0	2	3	0	0	5
08/24/2017 05:30 - 05:44	0	0	1	4	0	0	5
08/24/2017 05:45 - 05:59	0	1	0	3	0	1	5
08/24/2017 06:00 - 06:14	1	0	0	1	1	0	3
08/24/2017 06:15 - 06:29	0	1	3	2	3	0	9
08/24/2017 06:30 - 06:44	0	1	1	2	0	0	4
08/24/2017 06:45 - 06:59	0	2	2	5	1	0	10
08/24/2017 07:00 - 07:14	0	1	4	4	2	0	11
08/24/2017 07:15 - 07:29	0	3	10	6	1	0	20
08/24/2017 07:30 - 07:44	0	0	1	14	0	0	15
08/24/2017 07:45 - 07:59	0	3	8	12	3	0	26
08/24/2017 08:00 - 08:14	0	2	12	11	0	0	25
08/24/2017 08:15 - 08:29	0	1	6	11	3	0	21
08/24/2017 08:30 - 08:44	0	1	1	5	0	0	7
08/24/2017 08:45 - 08:59	0	0	6	2	0	0	8
08/24/2017 09:00 - 09:14	0	4	2	5	2	0	13
08/24/2017 09:15 - 09:29	1	1	8	7	0	0	17
08/24/2017 09:30 - 09:44	0	1	8	0	0	0	9
08/24/2017 09:45 - 09:59	1	1	7	6	0	0	15
08/24/2017 10:00 - 10:14	0	0	4	1	0	0	5
08/24/2017 10:15 - 10:29	0	0	8	3	1	0	12
08/24/2017 10:30 - 10:44	0	1	12	4	2	0	19
08/24/2017 10:45 - 10:59	0	4	7	10	3	0	24
08/24/2017 11:00 - 11:14	1	2	3	9	1	0	16
08/24/2017 11:15 - 11:29	1	3	7	8	1	0	20
08/24/2017 11:30 - 11:44	0	1	8	7	0	0	16
08/24/2017 11:45 - 11:59	3	1	3	3	0	0	10
08/24/2017 12:00 - 12:14	1	0	2	3	0	0	6
08/24/2017 12:15 - 12:29	0	1	13	8	0	0	22
08/24/2017 12:30 - 12:44	0	2	4	9	1	0	16
08/24/2017 12:45 - 12:59	0	3	5	11	1	0	20
08/24/2017 13:00 - 13:14	0	0	5	8	0	0	13
08/24/2017 13:15 - 13:29	0	0	5	4	1	0	10
08/24/2017 13:30 - 13:44	0	2	3	2	1	0	8
08/24/2017 13:45 - 13:59	0	4	0	5	0	0	9
08/24/2017 14:00 - 14:14	0	3	2	3	0	0	8
08/24/2017 14:15 - 14:29	0	3	6	2	0	0	11
08/24/2017 14:30 - 14:44	1	2	8	3	0	0	14
08/24/2017 14:45 - 14:59	0	1	7	3	0	0	11
08/24/2017 15:00 - 15:14	2	2	10	4	1	0	19

Date/Time	5-14 MPH	15-19 MPH	20-24 MPH	25-29 MPH	30-34 MPH	35-39 MPH	Total
08/24/2017 15:15 - 15:29	0	1	4	3	1	0	9
08/24/2017 15:30 - 15:44	0	2	3	2	0	0	7
08/24/2017 15:45 - 15:59	0	6	6	9	0	0	21
08/24/2017 16:00 - 16:14	0	1	6	6	0	0	13
08/24/2017 16:15 - 16:29	0	1	4	4	2	0	11
08/24/2017 16:30 - 16:44	1	0	2	2	0	0	5
08/24/2017 16:45 - 16:59	0	2	3	4	0	0	9
08/24/2017 17:00 - 17:14	0	1	3	0	1	0	5
08/24/2017 17:15 - 17:29	1	0	5	6	0	0	12
08/24/2017 17:30 - 17:44	0	0	6	3	0	0	9
08/24/2017 17:45 - 17:59	0	1	1	4	1	0	7
08/24/2017 18:00 - 18:14	0	1	3	6	0	1	11
08/24/2017 18:15 - 18:29	0	1	2	8	1	0	12
08/24/2017 18:30 - 18:44	1	2	3	3	0	0	9
08/24/2017 18:45 - 18:59	0	1	13	6	0	0	20
08/24/2017 19:00 - 19:14	1	1	9	4	0	0	15
08/24/2017 19:15 - 19:29	0	1	2	3	0	0	6
08/24/2017 19:30 - 19:44	0	0	3	4	0	0	7
08/24/2017 19:45 - 19:59	0	1	1	1	0	0	3
08/24/2017 20:00 - 20:14	0	0	6	3	0	0	9
08/24/2017 20:15 - 20:29	0	1	2	0	0	0	3
08/24/2017 20:30 - 20:44	0	0	1	2	0	0	3
08/24/2017 20:45 - 20:59	0	0	2	0	1	0	3
08/24/2017 21:00 - 21:14	0	0	2	1	0	0	3
08/24/2017 21:15 - 21:29	0	0	0	2	0	0	2
08/24/2017 21:30 - 21:44	0	0	2	0	0	0	2
08/24/2017 21:45 - 21:59	0	0	3	1	1	0	5
08/24/2017 22:00 - 22:14	0	0	1	1	0	0	2
08/24/2017 22:15 - 22:29	0	0	1	0	0	0	1
08/24/2017 22:30 - 22:44	0	0	0	2	1	0	3
08/24/2017 22:45 - 22:59	0	0	2	0	0	0	2
08/24/2017 23:00 - 23:14	0	0	0	0	0	0	0
08/24/2017 23:15 - 23:29	0	0	0	0	0	0	0
08/24/2017 23:30 - 23:44	0	0	0	0	0	0	0
08/24/2017 23:45 - 23:59	0	0	0	0	0	0	0
08/25/2017 00:00 - 00:14	0	0	0	0	0	0	0
08/25/2017 00:15 - 00:29	0	0	0	0	0	0	0
08/25/2017 00:30 - 00:44	0	0	0	0	0	0	0
08/25/2017 00:45 - 00:59	0	0	0	0	0	0	0
08/25/2017 01:00 - 01:14	0	0	0	0	0	0	0
08/25/2017 01:15 - 01:29	0	0	0	0	0	0	0
08/25/2017 01:30 - 01:44	0	0	0	0	0	0	0
08/25/2017 01:45 - 01:59	0	0	0	0	0	0	0
08/25/2017 02:00 - 02:14	0	0	0	0	0	0	0
08/25/2017 02:15 - 02:29	0	0	0	0	0	0	0
08/25/2017 02:30 - 02:44	0	0	1	0	0	0	1



Date/Time	5-14 MPH	15-19 MPH	20-24 MPH	25-29 MPH	30-34 MPH	35-39 MPH	Total
08/25/2017 02:45 - 02:59	0	0	0	0	0	0	0
08/25/2017 03:00 - 03:14	0	0	0	0	0	0	0
08/25/2017 03:15 - 03:29	0	0	0	0	0	0	0
08/25/2017 03:30 - 03:44	0	0	0	0	0	0	0
08/25/2017 03:45 - 03:59	0	0	0	0	0	0	0
08/25/2017 04:00 - 04:14	0	0	0	0	0	0	0
08/25/2017 04:15 - 04:29	0	0	0	0	0	0	0
08/25/2017 04:30 - 04:44	0	0	1	0	0	0	1
08/25/2017 04:45 - 04:59	0	0	0	0	0	0	0
08/25/2017 05:00 - 05:14	0	0	3	1	0	0	4
08/25/2017 05:15 - 05:29	0	1	4	7	2	0	14
08/25/2017 05:30 - 05:44	0	0	0	2	0	0	2
08/25/2017 05:45 - 05:59	0	0	2	2	0	1	5
08/25/2017 06:00 - 06:14	0	2	1	2	0	0	5
08/25/2017 06:15 - 06:29	1	1	1	4	0	1	8
08/25/2017 06:30 - 06:44	0	2	1	1	1	0	5
08/25/2017 06:45 - 06:59	0	1	3	2	0	0	6
08/25/2017 07:00 - 07:14	0	1	2	2	0	0	5
08/25/2017 07:15 - 07:29	0	1	4	1	1	0	7
08/25/2017 07:30 - 07:44	0	3	5	7	2	0	17
08/25/2017 07:45 - 07:59	0	1	5	3	1	0	10
08/25/2017 08:00 - 08:14	0	4	4	7	0	0	15
08/25/2017 08:15 - 08:29	1	1	7	6	1	0	16
08/25/2017 08:30 - 08:44	0	2	10	8	0	0	20
08/25/2017 08:45 - 08:59	0	0	9	11	2	0	22
08/25/2017 09:00 - 09:14	0	2	4	3	1	0	10
08/25/2017 09:15 - 09:29	1	1	4	2	2	0	10
08/25/2017 09:30 - 09:44	0	3	4	6	2	0	15
08/25/2017 09:45 - 09:59	0	1	4	3	0	0	8
08/25/2017 10:00 - 10:14	0	0	5	6	1	0	12
08/25/2017 10:15 - 10:29	0	1	6	6	1	0	14
08/25/2017 10:30 - 10:44	0	1	4	4	2	0	11
08/25/2017 10:45 - 10:59	0	1	3	7	1	0	12
08/25/2017 11:00 - 11:14	0	0	8	2	3	0	13
08/25/2017 11:15 - 11:29	0	0	7	5	0	0	12
08/25/2017 11:30 - 11:44	1	1	9	5	0	0	16
08/25/2017 11:45 - 11:59	0	2	7	2	2	0	13
08/25/2017 12:00 - 12:14	1	2	6	6	2	0	17
08/25/2017 12:15 - 12:29	0	3	7	1	2	0	13
08/25/2017 12:30 - 12:44	0	0	3	7	0	0	10
08/25/2017 12:45 - 12:59	0	1	8	3	1	0	13
08/25/2017 13:00 - 13:14	0	1	5	7	1	0	14
08/25/2017 13:15 - 13:29	0	1	6	6	0	0	13
08/25/2017 13:30 - 13:44	0	1	4	7	0	0	12
08/25/2017 13:45 - 13:59	1	2	6	6	0	0	15
08/25/2017 14:00 - 14:14	0	3	9	1	0	0	13

Date/Time	5-14 MPH	15-19 MPH	20-24 MPH	25-29 MPH	30-34 MPH	35-39 MPH	Total
08/25/2017 14:15 - 14:29	0	3	3	3	1	0	10
08/25/2017 14:30 - 14:44	0	0	5	5	1	0	11
08/25/2017 14:45 - 14:59	0	0	7	7	2	0	16
08/25/2017 15:00 - 15:14	1	2	3	8	1	1	16
08/25/2017 15:15 - 15:29	1	1	2	6	2	0	12
08/25/2017 15:30 - 15:44	0	1	1	6	0	0	8
08/25/2017 15:45 - 15:59	0	2	8	10	1	0	21
08/25/2017 16:00 - 16:14	0	1	5	1	0	0	7
08/25/2017 16:15 - 16:29	1	1	6	6	1	0	15
08/25/2017 16:30 - 16:44	0	2	2	6	0	0	10
08/25/2017 16:45 - 16:59	0	0	3	8	2	0	13
08/25/2017 17:00 - 17:14	0	0	3	1	2	0	6
08/25/2017 17:15 - 17:29	0	1	6	4	0	0	11
08/25/2017 17:30 - 17:44	1	1	6	5	0	0	13
08/25/2017 17:45 - 17:59	0	1	4	5	0	0	10
08/25/2017 18:00 - 18:14	0	0	4	3	0	0	7
08/25/2017 18:15 - 18:29	0	0	9	2	1	0	12
08/25/2017 18:30 - 18:44	0	1	8	4	1	0	14
08/25/2017 18:45 - 18:59	0	1	3	2	2	0	8
08/25/2017 19:00 - 19:14	0	1	1	6	1	0	9
08/25/2017 19:15 - 19:29	0	0	2	3	0	0	5
08/25/2017 19:30 - 19:44	0	1	0	2	0	0	3
08/25/2017 19:45 - 19:59	0	0	2	2	0	0	4
08/25/2017 20:00 - 20:14	0	0	1	2	0	0	3
08/25/2017 20:15 - 20:29	0	0	4	3	0	0	7
08/25/2017 20:30 - 20:44	0	0	3	1	0	0	4
08/25/2017 20:45 - 20:59	0	0	4	1	0	0	5
08/25/2017 21:00 - 21:14	0	1	5	2	0	0	8
08/25/2017 21:15 - 21:29	0	0	2	2	0	0	4
08/25/2017 21:30 - 21:44	0	1	0	0	1	0	2
08/25/2017 21:45 - 21:59	0	0	0	1	0	0	1
08/25/2017 22:00 - 22:14	0	0	1	1	0	0	2
08/25/2017 22:15 - 22:29	0	0	1	1	0	0	2
08/25/2017 22:30 - 22:44	1	0	2	0	0	0	3
08/25/2017 22:45 - 22:59	0	0	5	2	0	0	7
08/25/2017 23:00 - 23:14	0	0	0	1	0	0	1
08/25/2017 23:15 - 23:29	0	0	0	1	0	0	1
08/25/2017 23:30 - 23:44	0	1	0	2	0	0	3
08/25/2017 23:45 - 23:59	0	1	1	1	0	0	3
08/26/2017 00:00 - 00:14	0	0	0	1	0	0	1
08/26/2017 00:15 - 00:29	0	0	1	0	0	0	1
08/26/2017 00:30 - 00:44	0	0	0	0	0	0	0
08/26/2017 00:45 - 00:59	0	0	0	0	0	0	0
08/26/2017 01:00 - 01:14	0	0	0	0	0	0	0
08/26/2017 01:15 - 01:29	0	0	0	0	0	0	0
08/26/2017 01:30 - 01:44	0	0	0	0	0	0	0

Date/Time	5-14 MPH	15-19 MPH	20-24 MPH	25-29 MPH	30-34 MPH	35-39 MPH	Total
08/26/2017 01:45 - 01:59	0	0	0	0	0	0	0
08/26/2017 02:00 - 02:14	0	0	0	0	0	0	0
08/26/2017 02:15 - 02:29	0	0	0	0	0	0	0
08/26/2017 02:30 - 02:44	0	0	0	0	0	0	0
08/26/2017 02:45 - 02:59	0	0	1	0	0	0	1
08/26/2017 03:00 - 03:14	0	0	0	0	0	0	0
08/26/2017 03:15 - 03:29	0	0	0	0	0	0	0
08/26/2017 03:30 - 03:44	0	0	0	0	0	0	0
08/26/2017 03:45 - 03:59	0	0	0	0	0	0	0
08/26/2017 04:00 - 04:14	0	0	0	0	0	0	0
08/26/2017 04:15 - 04:29	0	0	0	0	0	0	0
08/26/2017 04:30 - 04:44	0	0	0	0	0	0	0
08/26/2017 04:45 - 04:59	0	0	0	0	0	0	0
08/26/2017 05:00 - 05:14	0	0	4	1	0	0	5
08/26/2017 05:15 - 05:29	0	0	2	2	2	0	6
08/26/2017 05:30 - 05:44	0	0	0	1	0	0	1
08/26/2017 05:45 - 05:59	0	0	2	0	0	0	2
08/26/2017 06:00 - 06:14	0	0	1	0	0	0	1
08/26/2017 06:15 - 06:29	0	0	0	1	0	0	1
08/26/2017 06:30 - 06:44	0	1	1	0	0	0	2
08/26/2017 06:45 - 06:59	0	1	0	3	0	0	4
08/26/2017 07:00 - 07:14	0	0	1	2	0	0	3
08/26/2017 07:15 - 07:29	0	1	2	0	0	0	3
08/26/2017 07:30 - 07:44	0	0	2	1	0	0	3
08/26/2017 07:45 - 07:59	1	0	4	1	0	0	6
08/26/2017 08:00 - 08:14	0	1	4	7	1	0	13
08/26/2017 08:15 - 08:29	1	1	5	2	0	0	9
08/26/2017 08:30 - 08:44	1	0	4	2	0	0	7
08/26/2017 08:45 - 08:59	0	1	4	6	1	0	12
08/26/2017 09:00 - 09:14	2	1	1	3	1	0	8
08/26/2017 09:15 - 09:29	1	3	1	3	0	0	8
08/26/2017 09:30 - 09:44	0	4	5	1	0	0	10
08/26/2017 09:45 - 09:59	2	1	7	2	0	0	12
08/26/2017 10:00 - 10:14	0	0	7	3	0	0	10
08/26/2017 10:15 - 10:29	0	1	6	2	0	0	9
08/26/2017 10:30 - 10:44	0	1	2	3	0	0	6
08/26/2017 10:45 - 10:59	0	5	4	3	0	0	12
	94	518	2018	1897	266	17	4810



Speed as it relates to accident causality is primarily related to speed differentials. Speed differential is the range of vehicle speeds within the traffic stream. A large variation in these speeds complicates the driving task and necessitates sudden braking, multiple lane changes and other compensating driving maneuvers.

A speed limit properly set, will establish a middle ground for all drivers encouraging some to speed up while enticing others to slow down. This then reduces turbulence within the traffic stream and limits conflict points and reduces accidents.

There is no question, however, that speed plays a role in accident severity. Once an accident has begun to occur the degree of damage to a vehicle and its occupants is directly related to the speed the vehicle is going.

**SPEED  
LIMIT  
TOO  
HIGH**

#### **REALISTIC SPEED LIMITS**

An appropriate, "just right" speed limit will result in the maximum number of vehicles traveling at about the same speed, thus reducing conflicts caused by speed differentials. The 85th percentile speed, that speed at or below which 85% of the traffic is moving, is widely accepted as being closest to that "just right" speed limit - a case of Majority Rule. Of course, other Traffic Investigation factors must be taken into consideration.

Following are some reasons for establishing realistic speed limits:

- A) To provide guidance to the driver, especially strangers to the area, as to what is a suitable speed for normal conditions;
- B) Reasonable speed limits with adequate signing tend to reduce the speed difference between vehicles. The accident rate is less when the majority of vehicles are traveling at about the same speed;
- C) To furnish enforcement personnel with a guide as to what is an appropriate speed for a segment of road so that enforcement actions may be consistent and fair;
- D) To improve the overall credibility of all traffic control devices.

#### **WHAT YOU CAN DO**

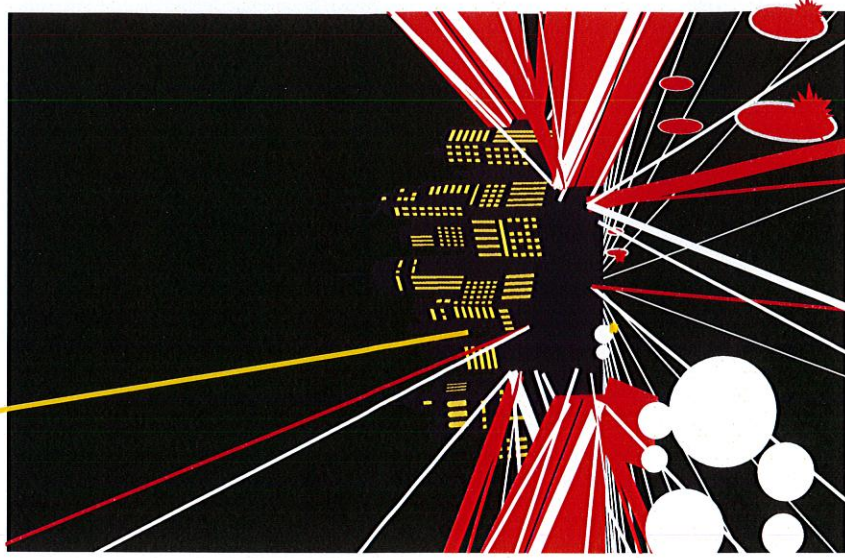
Anyone may report a road segment where the speed limit seems to be too high or too low. If the segment is a portion of county road or city street, contact should be made with that county or municipality. If the segment is a portion of the State Highway System, including U.S. and Interstate routes, contact should be with the Region's Traffic and Safety Engineer of the Colorado Department of Transportation.



**Safety and Traffic Engineering Branch**  
**4201 East Arkansas Avenue**  
**EP Suite 770**  
**Denver, Colorado 80222**

**8/02**

# **Establishing Realistic SPEED LIMITS**





## Why Speed Limits?

Speed limits are supposed to do two things. The primary purpose of speed limits is to enhance safety by reducing risks imposed by drivers speed choices. The intent is to reduce disparities in speeds and reduce the potential for vehicle conflicts. A related function of speed limits is to provide the basis for enforcement and sanctions for those who drive at speeds excessive for conditions and endanger others.

## LAW

Prima facie speed limits are those which, "on the face of it," are reasonable and prudent under normal conditions. Normally a driver may exceed a prima facie limit if it is safe to do so; however it is up to the driver to prove that he was driving in a safe manner under existing conditions.

In Colorado, basic prima facie speed limits are:

- 20 mph on narrow, winding mountain roads
- 25 mph in any business district
- 30 mph in any residential district
- 40 mph on open mountain highways

Absolute speed limits are those which may not be legally exceeded under any circumstances. These are:

- 65 mph on open highways
- 75 mph on rural interstate routes

Section 42-4-1102, Colorado Revised Statutes, requires that speed limits are not to be higher or lower than the basic prima facie speed limits unless a Traffic Investigation has justified the change. This law applies to all State Highways, County Roads and City Streets. For State Highways, including portions within municipal corporate limits, the Investigation to justify an increase or decrease of existing speed limits is normally conducted by, and approved by, the Safety and Traffic Engineering Branch of the Colorado Department of Transportation.

Each Investigation to determine an appropriate speed limit should consider the following factors applicable to the portion of road being studied.

- Prevailing speed data (85th percentile)
- Roadside development
- Accident experience
- Road characteristics
- Pace speed
- Parking practices/pedestrian activity

The use of vehicle speed data as one of the factors evaluated for selecting a suitable speed limit is based upon the following fundamental concepts deeply rooted in the United States system of government and law:

- A) Laws cannot be effectively enforced without the consent and voluntary compliance of the public;
- B) Laws are established for the protection of the public and the regulation of the unreasonable behavior of a few individuals;
- C) The normally careful and competent actions of a reasonable person should be considered legal;
- D) Most drivers are reasonable people who will drive carefully at a speed which is suitable for existing conditions.

## MISCONCEPTIONS

It is a popular misconception that reducing the speed limit will automatically slow the speed of traffic, while raising the speed limit will automatically cause an increase in the speed of traffic.

"Before and After" speed studies show that there are no significant changes in vehicle

speeds after speed limits are changed. "Before and After" accident studies usually do not show any significant change in accident rates after speed limits are increased or decreased. National studies go further and say that "it is generally at the upper boundary of a speed range where crash involvement rates are lowest."

## UNREALISTIC SPEED LIMITS

Traffic investigations have shown that most people will drive the roadway as they perceive the conditions and will ignore a speed limit that is unrealistically too low or too high. A realistic speed limit is voluntarily obeyed by the reasonable majority and more enforcement effort can be applied to the unreasonable few who drive too fast or too slow.



An unrealistic speed limit that is "too low" will:

- A) Make the behavior of the majority unlawful;
- B) If enforced - cause antagonism toward enforcement personnel and traffic laws in general;
- C) Create a bad image of the community for visitors and tourists;
- D) Result in speed differentials in the traffic flow.



**Request for Board of Trustee Action**

**Date:** March 20, 2018

**Title:** Trustee Bill #4, Series 2018 – Towing of Vehicles

**Presented By:** Lee Schiller, Town Attorney

**Prepared By:** Lee Schiller, Town Attorney

**Background:** The Town has seen an increase in circumstances necessitating the need for the provisions in this ordinance. Such instances include:

- vehicles left in one location for a continuous period of more than seventy-two hours
- inoperable vehicles on any public property or on any private property other than the person's property, without the consent of the property owner
- vehicles with three or more separate parking citations and at least three of these citations remain unpaid

Trustee Bill #4, Series 2018 qualifies the specific conditions and requirements for removing nuisance vehicles.

**Attachments:** Trustee Bill #4, Series 2018

**Staff Recommendations:** Approve as presented

**Recommended Motion(s):** "I move to approve as presented Trustee Bill #4, Series 2018 on 1<sup>st</sup> Reading".



A BILL FOR AN ORDINANCE  
OF THE TOWN OF COLUMBINE VALLEY CONCERNING ABANDONED AND  
INOPERABLE VEHICLES ON PUBLIC AND PRIVATE PROPERTY

WHEREAS, the Town has encountered issues with enforcing its ordinances regarding the parking of vehicles overnight, as well as the parking of inoperable and abandoned vehicles, which are parked on both private and public property; and

WHEREAS, the Board of Trustees recognizes the need to update the Town's ordinances to prevent the nuisance caused by the overnight parking of vehicles, and the parking of inoperable and abandoned vehicles; and

WHEREAS, the Board of Trustees finds that updating the Town's parking ordinance concerning overnight parking of vehicles and the parking of inoperable and abandoned vehicles on public and private property and providing for the towing of such vehicles, is in the best interests of the Town and its residents.

NOW THEREFORE, BE IT ORDAINED BY THE BOARD OF TRUSTEES OF THE TOWN OF COLUMBINE VALLEY, COLORADO, as follows:

Section 1. Section 10.04.020 of the Municipal Code of the Town of Columbine Valley is hereby amended to add the following definitions to Subsection (e) as follows:

Section 1212(e) – Definitions.

- iv. Abandoned vehicle means:
  - (a) Any motor vehicle left unattended on private property without the consent of the owner or lessee of such property;
  - (b) Any motor vehicle left unattended on public property, including any portion of the street right-of-way, within the corporate limits of the Town, for a period of seventy-two (72) hours;
  - (c) Any vehicle that meets the definition of inoperable vehicle as provided for herein.
- v. Inoperable vehicle means any vehicle that is mechanically or legally inoperable or requires repairs in order to be operable, or is unable to move under its own power. A presumption shall exist that vehicles are inoperable when:

- (a) One (1) or more tires are flat or wheels missing;
- (b) Components of the vehicle which are essential for its operation or control are missing, damaged or deteriorated; or
- (c) Any vehicle that is not licensed and registered as required by Article 3, Title 42, C.R.S., for a period greater than thirty-one (31) days.

Section 2. Subsection B(1) – Misuse of Wireless Telephone, of Section 10.04.020 of the Municipal Code of the Town of Columbine Valley is hereby renumbered as Subsection B(2). Subsection B(1) is hereby amended to read as follows:

1. Towing and Impoundment of Vehicles.
  - (a) Applicability. The provisions of this section shall apply to the towing, impoundment and sale of abandoned motor vehicles within the Town. Except as expressly modified hereby, the provisions of C.R.S. § 42-4-1801 *et seq.*, as amended, shall apply to the towing, impoundment and sale of abandoned motor vehicles found on public property within the Town and the provisions of C.R.S. § 42-4-2101 *et seq.*, as amended, shall apply to the towing, impoundment and sale of abandoned motor vehicles found on private property.
2. Authority to Tow and Impound Vehicles.
  - (a) Any vehicle left in one location upon any public property or on any private property, without the consent of the property owner, for twenty-four hours or more than the time limited by any signs that apply to that location, or for a continuous period of more than seventy-two hours at any otherwise unregulated location, constitutes an abandoned vehicle, which is a public nuisance. Proof that the vehicle's odometer shows movement of no more than two-tenths of a mile during a period of at least twenty-four hours after the time limited by any signs that apply to that location, or at least seventy-two hours at any otherwise unregulated location, shall constitute prima facie evidence that the vehicle was left in one location.
  - (b) Any inoperable vehicle or any parts thereof left on any public property or on any private property other than the person's property, without the consent of the property owner, constitutes an inoperable vehicle, which is a public nuisance.
  - (c) If a peace officer has probable cause to believe that a vehicle left unattended on public or private property is an abandoned or inoperable motor vehicle, the officer shall leave under the windshield wiper or otherwise attach to the vehicle a conspicuous warning notice that:



- (i) States the date and the time that the notice was attached to the motor vehicle;
- (ii) Orders removal of an inoperable vehicle, as prescribed by subsection (b) of this section, or the moving of an abandoned vehicle, as prescribed by subsection (a) of this section, from the location within seven days of the notice;
- (iii) Warns that, if the vehicle is still parked in violation of subsection (a) or (b) of this section after seven days from the date of the notice, it may be impounded by order of the police department and that the vehicle owner will be liable for the expenses of such impoundment; and
- (iv) Advises the person in possession of the vehicle that such person has rights pursuant to C.R.S. § 42-4-1801 *et seq.*, and C.R.S. § 42-4-2101 *et seq.*
- (v) Within forty-eight (48) hours of the time that a notice is attached to a vehicle under subsection (c) of this section, the Town Administrator shall give written notice by certified or first class mail to the registered owner of the vehicle containing all of the information described in subsection (c) of this section. The notice shall also advise the owner that if the vehicle is towed and is not claimed by the owner or the owner's authorized agent and the amount of any accrued removal and storage charges and the impoundment fee are not paid within thirty days from the date and time that the vehicle is impounded, the vehicle will be sold.
- (vi) If the vehicle is not registered in Colorado, or if the license plate or vehicle identification number is expired, altered or missing, the Town Administrator shall send the notice required in this section as soon as is reasonably practicable, but without regard to the forty-eight (48) hour limit. If the Town Administrator is unable to send notice because the location of the vehicle owner cannot be located, then the notice attached to the vehicle under subsection (c) of this section shall be sufficient.
- (vii) If an abandoned or inoperable vehicle or any parts thereof is still parked in violation of subsection (a) or (b) of this section after seven (7) days from the date and time that the notice prescribed by subsection (c) of this section is attached to the vehicle, a police officer may cause the vehicle and parts thereof to be removed and impounded by a towing carrier.



- (viii) A police officer may direct an operator to tow a vehicle for safe keeping to an impound lot of the Town's choosing if the vehicle has received three (3) or more separate parking citations and at least three (3) of these citations remain outstanding, or have not been paid in the time required by law, subject to the notice provided in section (d) above.

3. Post-Impoundment Procedures.

- (a) The Town shall follow the post-impoundment procedures in C.R.S. § 42-4-1801 *et seq.*, and C.R.S. § 42-4-2101 *et seq.*, as applicable and amended, including the procedures for any hearing requested by the owner of the towed vehicle. The hearing shall be conducted by the Municipal Judge.

Section 3. Should any section clause, sentence, part or portion of this Ordinance be adjudged by any court to be unconstitutional or invalid, the same shall not affect, impair, or invalidate the Ordinance as a whole or any part thereof other than the part or portion declared by such court to be unconstitutional or invalid.

Section 4. The Town Clerk shall certify the passage of this Ordinance and cause notice of its contents and passage to be published.

Section 5. This Ordinance shall be in full force and effect upon the expiration of thirty (30) days after the publication of this Ordinance in the Littleton Independent, Littleton, Colorado, said newspaper being a weekly newspaper duly qualified for publishing legal notices and advertisements within the meaning of the laws of the State of Colorado.

Introduced as Trustee Bill No. 4, series of 2018, at a regular meeting of the Board of Trustees of the Town of Columbine Valley, Colorado, on the 20<sup>th</sup> day of March, 2018, passed by a vote of \_\_\_\_ for and 0 against, on first reading; passed on second reading at a regular meeting of the Board of Trustees held by a vote of \_\_\_\_ for and \_\_\_\_ against on the \_\_\_\_ day of \_\_\_\_\_, 2018, and ordered published in the Littleton Independent on the \_\_\_\_ day of \_\_\_\_\_, 2018.

\_\_\_\_\_  
Richard Champion, Mayor

ATTEST:

\_\_\_\_\_  
J.D. McCrumb, Clerk of the Town of Columbine Valley