



Agenda

- Why Perform Bicyclist and Pedestrian Counts?
- Overall Approach
- Data Collected
- Results
- Next Steps
- Questions/Discussion





Why Do Bike and Ped Counts?

- 1. Investments in bike/ped infrastructure and programs
- 2. Better understand traveler behavior
- 3. Support planning and prioritization of improvements

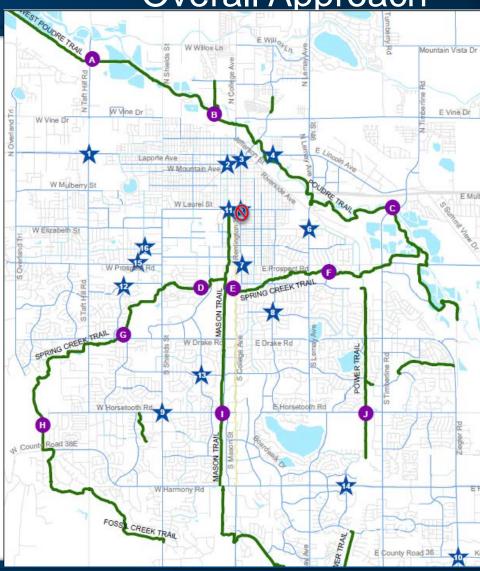


Date	Time Period
Tuesday September 15 (intersection and trail)	7-9 a.m. 12-2 p.m. 5-7 p.m.
Thursday September 17 (trail only)	7-9 a.m. 12-2 p.m. 5-7 p.m.
Saturday September 19 (intersection and trail)	12-2 p.m.

Count Locations

- 11 Trail
- 15 intersection

Overall Approach







Trail Count Data



TRAIL COUNT FORM

Site ID: A Location: Poudre Trail @ Taft Hill Parking Lot

Date: 9/15 9/17 9/19 Time Period: 7-9 a.m. noon-2 p.m. 5-7 p.m.

Volunteer Name:

Weather (circle all that apply): Sunny Cloudy Rainy Windy Hot Cold

Notes:

		Bicyclists			kers irs & strollers)	Runners	Runners/Joggers (s		ners & roller bladers)
		Female	Male	Female	Male	Female	Male	Female	Male
:00-	EB								
:14	WB								
:15-	ЕВ								
:30	WB								



Bicyclists Wearing Helmets



Dogs On-Leash



Dogs Off-Leash



E-Bikes



Bicyclist Intersection Count Data



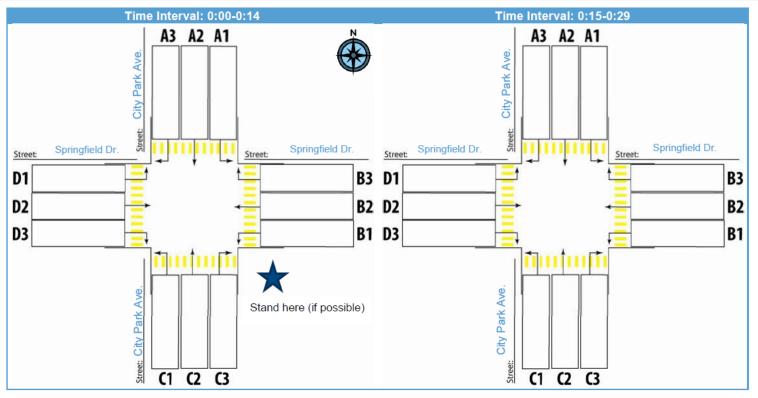
BICYCLIST INTERSECTION COUNT FORM

Site ID:	1	6	Location:	Springfi	eld Dr & City P	City Park Ave	
Date (please circle):	9/15	9/19	Time Period (please circle):	7-9 a.m.	noon-2 p.m.	5-7 p.m.	

Volunteer Name:

Weather (circle all that apply): Sunny Cloudy Rainy Windy Hot Cold

Notes:







Tally: Female Cyclists



Tally: Male Cyclists

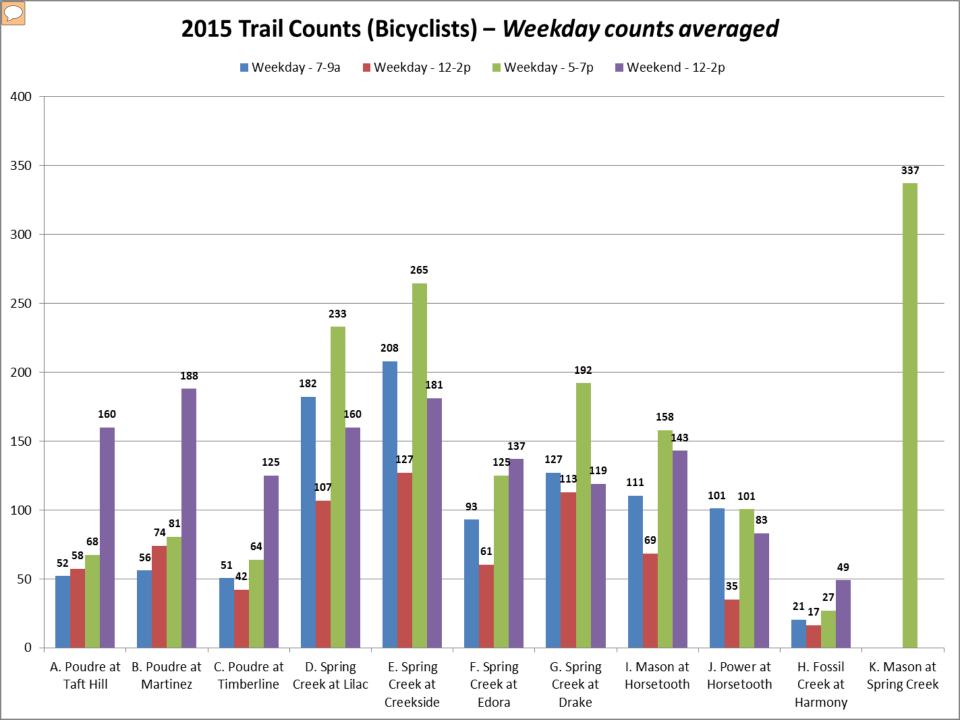


Tally: E-Bikes



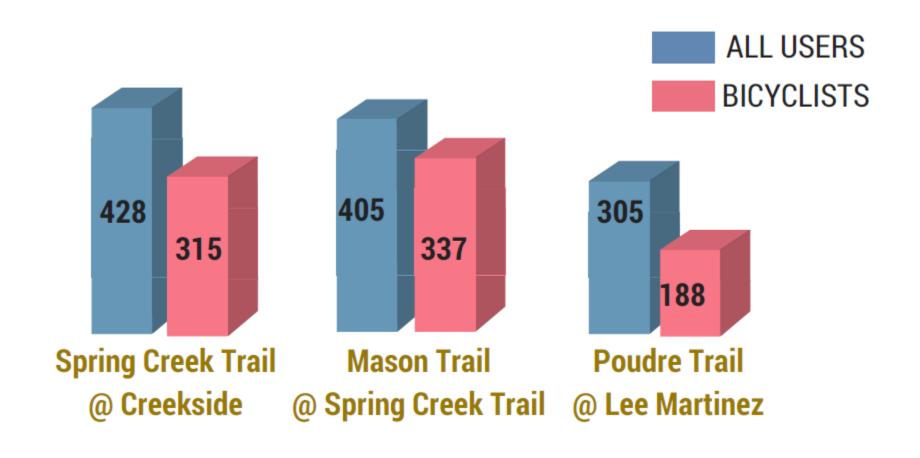
Trail Observations







Trail: Highest Count Locations





Trail: Highest Count Locations



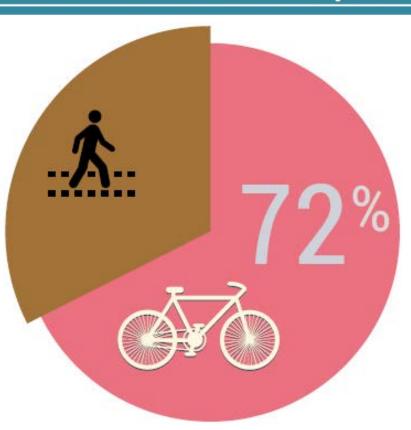
Highest Pedestrian Count Locations

- Poudre Trail at Lee Martinez Park
 - **117** (Weekend, 12-2p)
- Spring Creek Trail at Creekside
 - **113** (Weekday, 5-7p)
- Spring Creek Trail at Edora Park
 - **70** (Weekday,7-9a)



Trail: 2015 Bike/Ped Split

Overall Bike/Ped Split



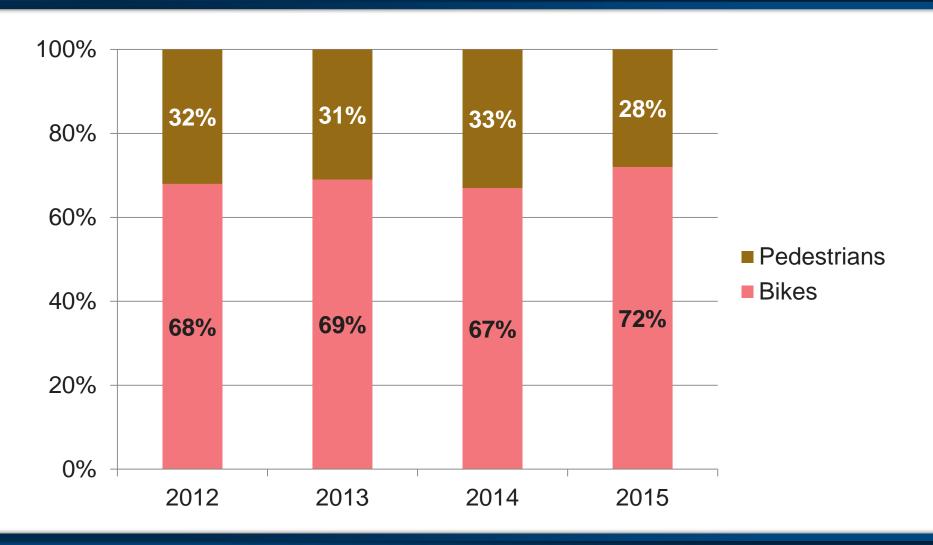
Overall: 72% / 28%

Weekday: 71% / 29%

Weekend: 80% / 20%



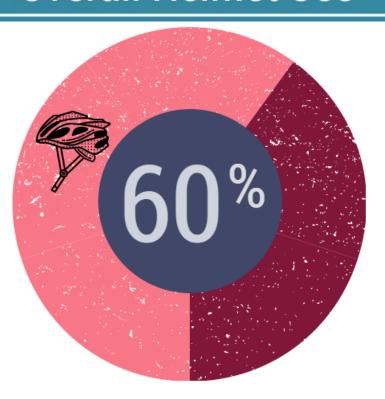
Trail Trends: Bike/Ped Split Over Time





Trail: 2015 Helmet Use

Overall Helmet Use



Overall: 60%

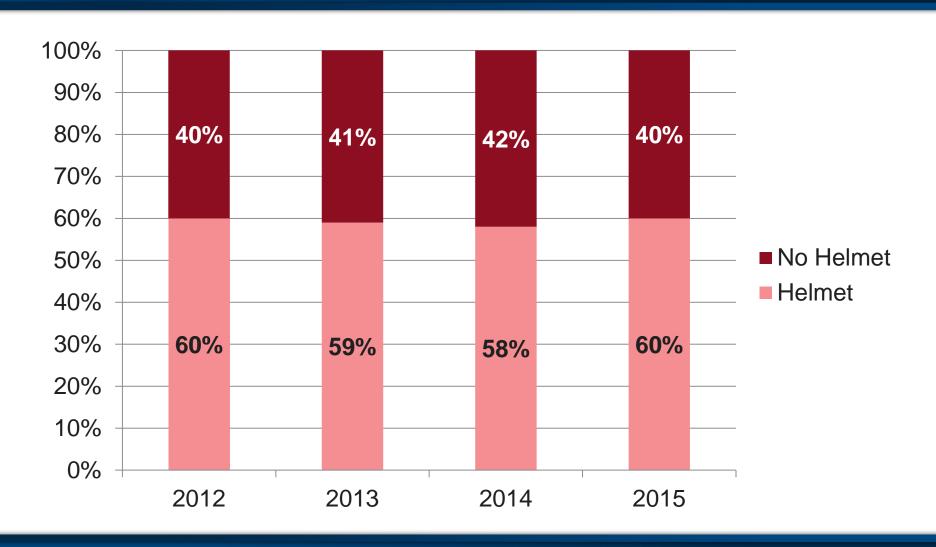
• Weekday: 60%

Weekend: 61%

*Trail helmet use much higher than intersection helmet use (39%)

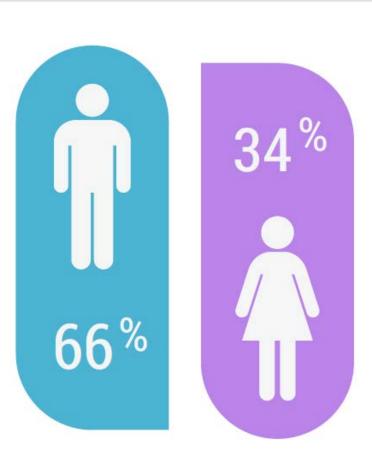


Trail Trends: Helmet Use Over Time





Trail: Bicyclist Male/Female Split

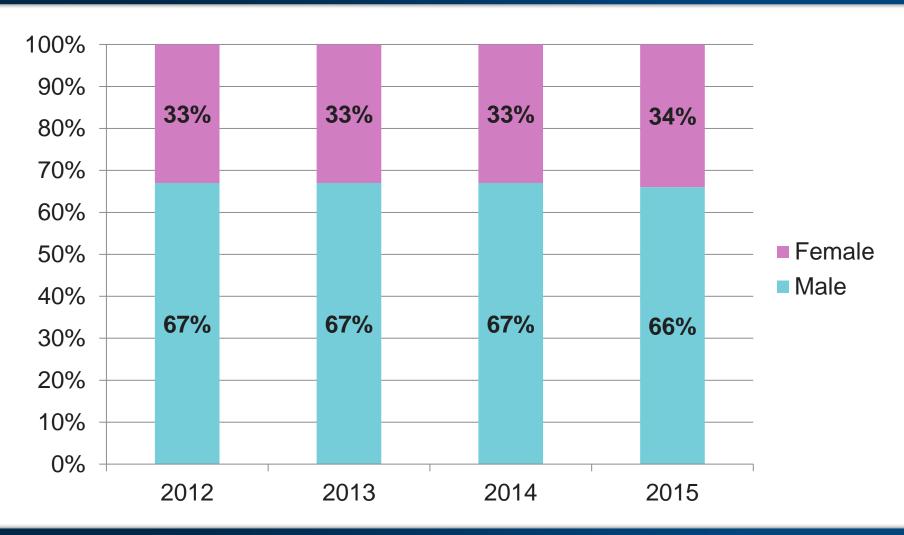


Bicyclists

- Overall: 66% Male / 34% Female
- Weekday: 67% / 33%
- Weekend: 61% / 39%



Trail Trends: Bicyclist Male/Female Split

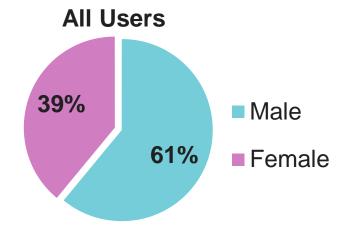




Trail: Male/Female Split

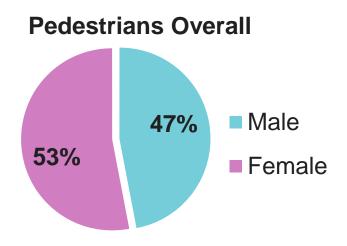
All Users

- Overall: 61% Male / 39% Female
- Weekday: 61% Male / 39% Female
- Weekend: 59% Male / 41% Female



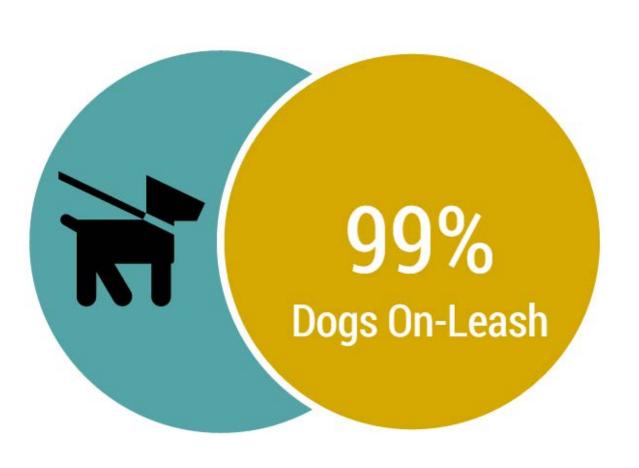
Pedestrians

- Overall: 47% Male / 53% Female
- Weekday: 46% / 54%
- Weekend: 50% / 50%





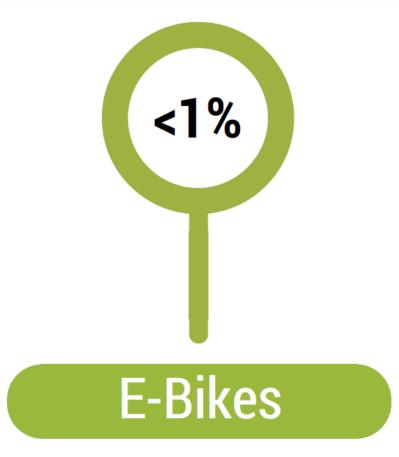
Trail Observations: Dogs



- 99% on-leash
- 526 total
- 7 off-leash



Trail Observations: E-Bikes



- 14 observed on trails
- 10 on intersections
- 24 total





Trail Observations: Sex & Helmet Use

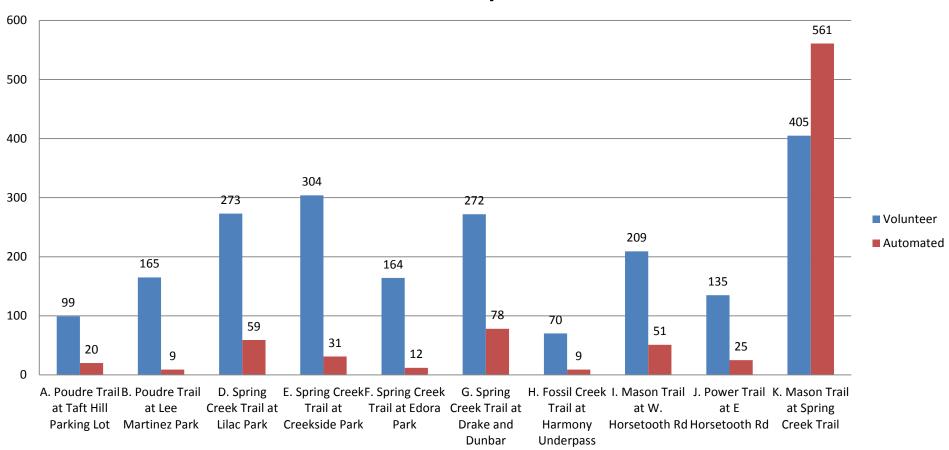
Location	% Male	% Female	Helmet %	
A. Poudre Trail at Taft Hill Parking Lot	62%	38%	65%	
B. Poudre Trail at Lee Martinez Park	60%	40%	62%	
C. Poudre Trail at Timberline	66%	34%	73%	
D. Spring Creek Trail at Lilac Park	66%	34%	58%	Lower than average (66%) male
E. Spring Creek Trail at Creekside Park	64%	36%	55%	Lower than average (34%) female
F. Spring Creek Trail at Edora Park	66%	34%	58%	
G. Spring Creek Trail at Drake and Dunbar	64%	36%	63%	Lower than average (60%) helmet use
H. Fossil Creek Trail at Harmony Underpass	70%	30%	79%	Higher than average
I. Mason Trail at W. Horsetooth Rd	69%	31%	56%	
J. Power Trail at E. Horsetooth Rd	76%	24%	67%	
K. Mason Trail at Spring Creek Trail	72%	28%	54%	
TOTAL	66%	34%	60%	20





Automated Trail Counter Validation

9/17/15 5-7p

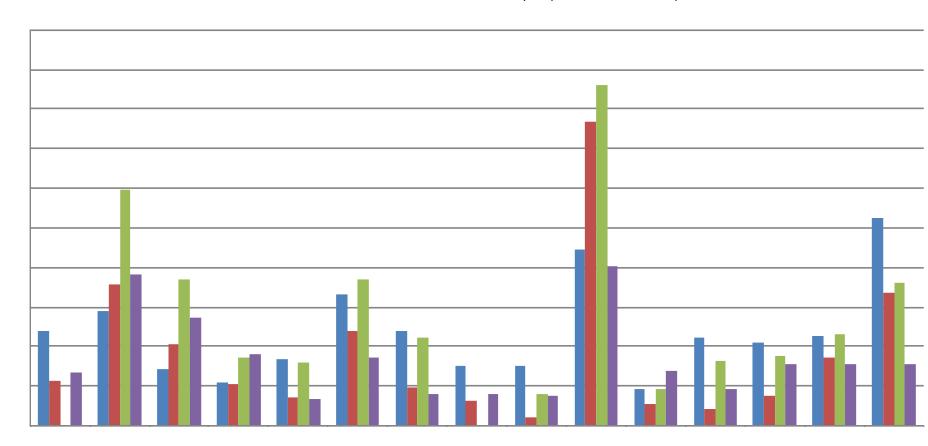




Intersection Observations

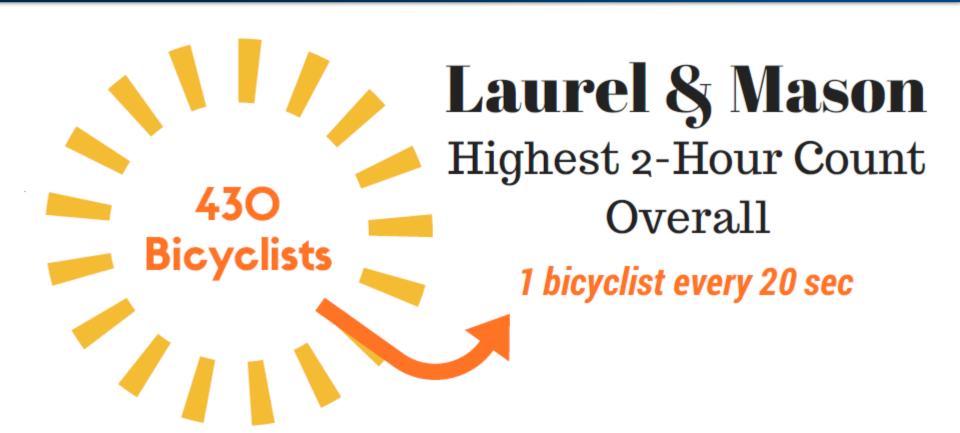


Weekday 5-7p ■ Weekend 12-2p





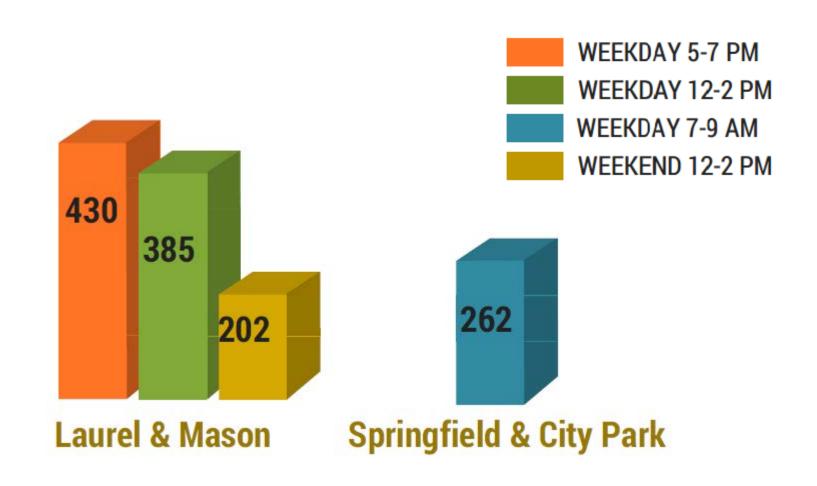
Highest 2-Hour Intersection Count



*Highest count ever recorded

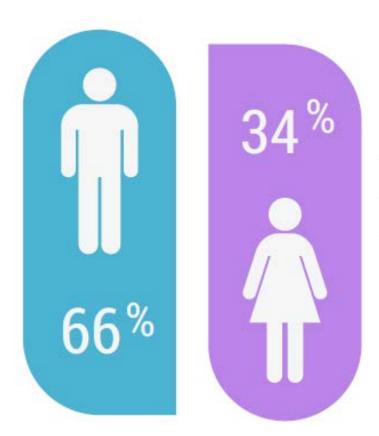


Highest Intersection Count for Each Time Period





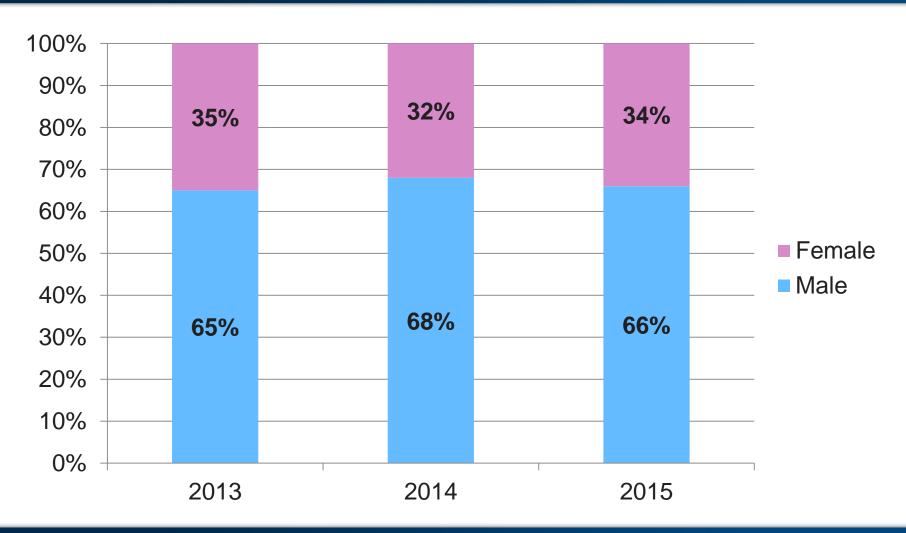
Intersection Male/Female Split



- Overall: 66% male, 34% female
- Weekday: 66% male, 34% female
- Weekend: 67% male, 33% female



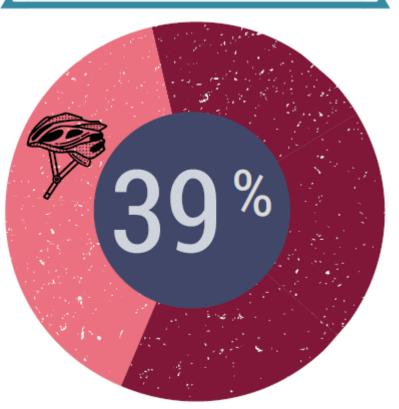
Intersection Male/Female Split Over Time







Overall Helmet Use



Overall: 39%

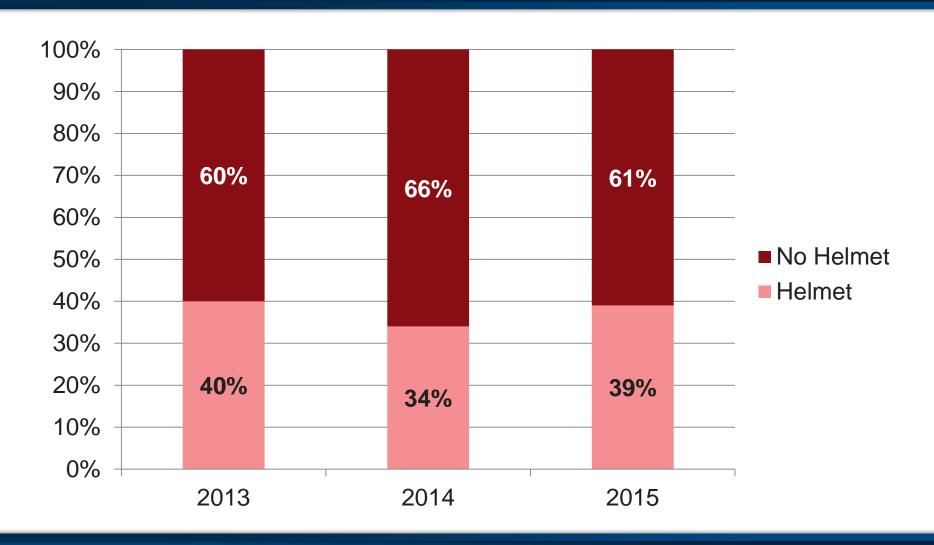
Weekday: 39%

Weekend: 40%

*Helmet use significantly lower compared to trails (60%)



Intersection Helmet Use Over Time







Intersection: Sex and Helmet Use

Location	% Male	% Female	Helmet %
1. Laporte Ave. & N. Taft Hill Rd.	65%	35%	44%
2. W. Mountain Ave. & Mason St.	61%	39%	41%
3. Walnut St. & Linden St.	64%	36%	37%
4. E. Lincoln Ave. & 1st St.	75%	25%	34%
6. E. Elizabeth St. & S. Lemay Ave.	79%	21%	43%
7. E. Prospect Rd. & Remington St.	60%	40%	38%
8. Columbia Rd. & Stover St.	70%	30%	53%
9. W. Horsetooth Rd. & S. Shields St.	74%	26%	53%
10. Kechter Rd. & Ziegler Rd.	68%	32%	74%
11. W. Laurel St. & S. Mason St.	64%	36%	29%
12. W. Stuart St. & Constitution Ave.	64%	36%	48%
13. W. Swallow Rd. & Meadowlark Ave.	65%	35%	62%
14. E. Harmony Rd. & McMurry Ave.	74%	26%	67%
15. W. Prospect Rd. & Heatheridge/Lynnwood	66%	34%	27%
16. Springfield Dr. & City Park Ave.	73%	27%	66%
TOTAL	66%	34%	39%

Lower than average (66%) male

Lower than average (34%) female

Lower than average (60%) helmet use

Higher than average





Next Steps

- Sharing/reporting data
- Automated counter validation
- Use 24hr automated counter data
 - Create expansion factor
 - Yearly predictions on trail use
- Next year's count
 - Add travel survey at schools
 - Measure all modes of travel



Discussion/ Questions?

Thank You!

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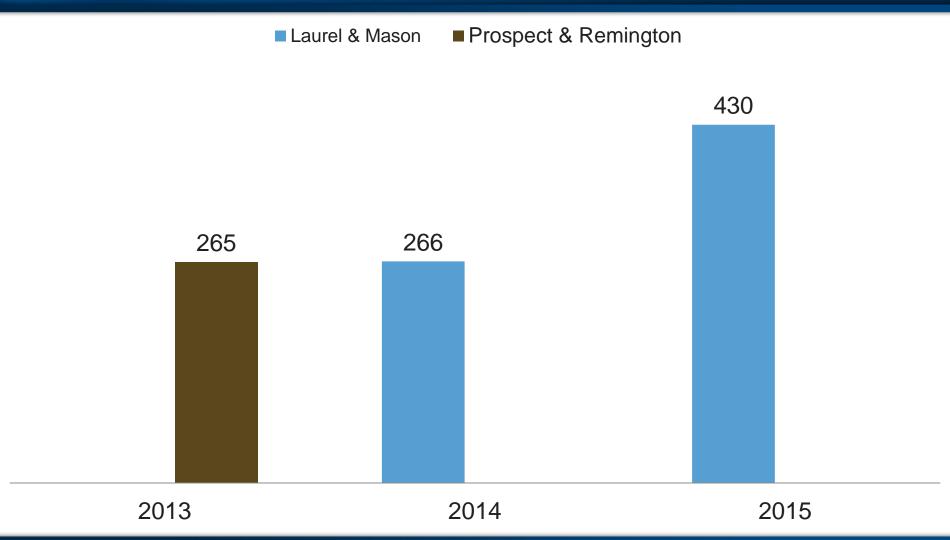
Tracey Lipfert FC Moves Intern tlipfert@fcgov.com







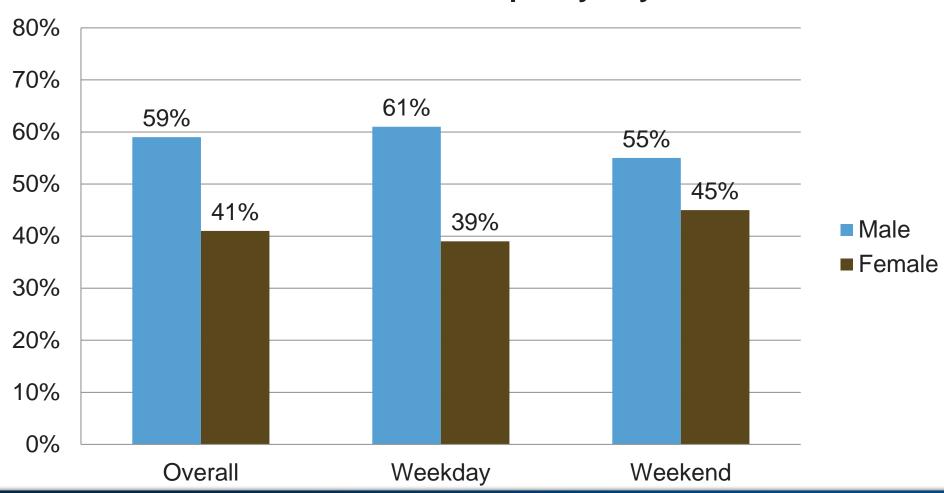
Highest Intersection Counts Over Time





Trail Observations: All Users

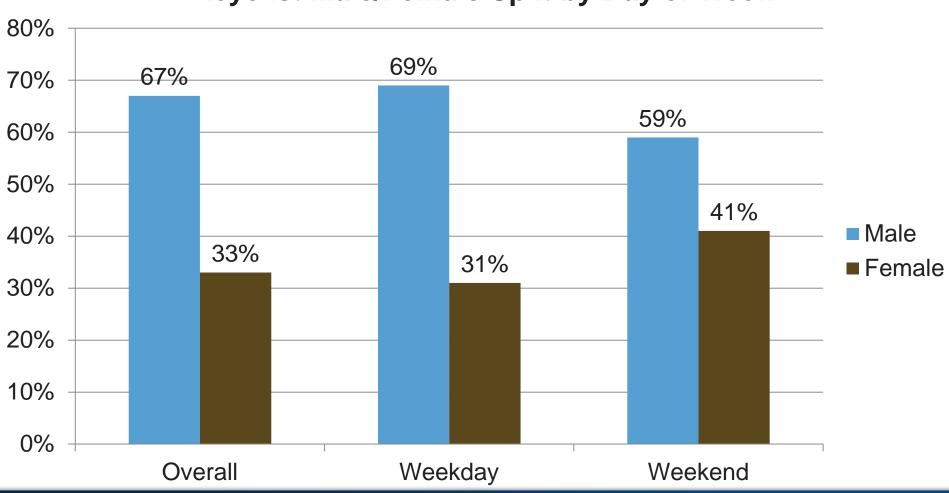
Male/Female Trail User Split by Day of Week





Trail Observations: Bicyclists

Bicyclist Male/Female Split by Day of Week





Automated Trail Counter Validation

Difference (Volunteer – Automated)

Lagation	9/15/2015	9/17/2015	9/15/2015	9/17/2015	9/15/2015	9/17/2015	9/19/2015
Location	7-9a	7-9a	12-2p	12-2p	5-7p	5-7p	12-2p
A. Poudre Trail at Taft Hill Parking Lot	33	-4	45	34	147	91	2
B. Poudre Trail at Lee Martinez Park	62	-23	117	54	289	141	54
D. Spring Creek Trail at Lilac Park	168	106	156	131	114	270	242
E. Spring Creek Trail at Creekside Park	240	163	166	137	185	397	254
F. Spring Creek Trail at Edora Park	148	N/A	92	N/A	157	220	N/A
G. Spring Creek Trail at Drake and Dunbar	98	2	31	75	86	174	128
H. Fossil Creek Trail at Harmony Underpass	30	-737	11	15	63	15	46
I. Mason Trail at W. Horsetooth Rd	61	59	-9	61	105	125	80
J. Power Trail at E Horsetooth Rd	105	N/A	4	-43	77	94	58
K. Mason Trail at Spring Creek Trail	N/A	N/A	N/A	N/A	N/A	-156	N/A



% Difference ((Volunteer – Automated)/ Volunteer

Location	9/15/2015	9/17/2015	9/15/2015	9/17/2015	9/15/2015	9/17/2015	9/19/2015
Location	7-9a	7-9a	12-2p	12-2p	5-7p	5-7p	12-2p
A. Poudre Trail at Taft Hill Parking Lot	38%	-6%	65%	53%	90%	82%	2%
B. Poudre Trail at Lee Martinez Park	50%	-31%	76%	52%	95%	94%	33%
D. Spring Creek Trail at Lilac Park	69%	46%	91%	83%	62%	82%	89%
E. Spring Creek Trail at Creekside Park	85%	74%	87%	73%	86%	93%	84%
F. Spring Creek Trail at Edora Park	91%	N/A	100%	N/A	93%	95%	N/A
G. Spring Creek Trail at Drake and Dunbar	49%	1%	34%	41%	50%	69%	47%
H. Fossil Creek Trail at Harmony Underpass	68%	-2106%	52%	68%	95%	63%	66%
I. Mason Trail at W. Horsetooth Rd	41%	43%	-12%	58%	60%	71%	38%
J. Power Trail at E Horsetooth Rd	70%	N/A	6%	-88%	73%	79%	43%
K. Mason Trail at Spring Creek Trail	N/A	N/A	N/A	N/A	N/A	-39%	N/A



Automated Trail Counter Validation



