



LEBANON PEDESTRIAN & BICYCLIST ADVISORY COMMITTEE

**FEBRUARY 1, 2022 - 7:00 PM
COUNCIL CHAMBERS, CITY HALL OR
REMOTE VIA VIRTUAL PLATFORM
LEBANONNH.GOV/LIVE**

-
- 1. Call to Order**
 - 2. Approval of Minutes**
 - A. January 4, 2022
 - 3. Open to the Public**
 - 4. Study Items**
 - A. Annual Coordination with Department of Public Works
 - B. Ped/Bike Annual Crash Data Analysis 2006-2021
 - C. Updates from Other Boards
 - Planning Office - Planning Staff
 - Safe Routes to School - Planning Staff
 - City Council - Erling Heistad
 - Planning Board/CIP Meeting - Gregorio Amaro
 - Police Reports - Alan Schnur
 - Mascoma River Greenway Coalition - Colin Smith
 - Class VI Roads - Colin Smith
 - State of NH Updates - Vacant
 - Rails to Trails - Amy Chan
 - Communications Plan - Marie McCormick
 - D. Update on the multimodal and complete streets implementation plan
 - 5. Other Business**
 - A. Updates on City Projects
 - B. Bike Racks/Repair Stations
 - C. SAU88 coordination
 - 6. Future Agenda Items**
 - A. UVEBLLe-bike program 2022
 - B. Master Plan Update Process
 - C. Bike Friendly Community Designation Renewal
 - 7. Adjournment**

The order of agenda items is subject to change.

Lebanon Pedestrian & Bicyclist Advisory Committee Agenda
February 1, 2022

Meetings are open for in-person and remote attendance. Members of the public that wish to attend remotely may do so by going to LebanonNH.gov/Live where you will find instructions on how to enter the meeting. Members of the public will be able to participate and ask questions through the City's virtual platform or by phone. Please note: Should technical difficulties occur during the meeting that disrupts virtual or phone connection(s), the meeting will continue without remote access capabilities.

**Agenda
Pedestrian & Bicyclist Advisory Committee
February 1, 2022**

**Agenda Item #2A
Approval of Minutes**

January 4, 2022

DRAFT

**PEDESTRIAN & BICYCLIST ADVISORY COMMITTEE
REGULAR MEETING MINUTES
CITY COUNCIL CHAMBERS, 51 NORTH PARK STREET &
REMOTE VIA TEAMS LebanonNH.gov/LIVE
7:00 PM, TUESDAY JANUARY 4, 2022**

MEMBERS PRESENT: Colin Smith (Chair); Erling Heistad (City Council); Alan Schnur (remote); Amy Chan; Clifton Below (Alt); Marie McCormick (Vice-Chair); John Kelleher

MEMBERS ABSENT: Gregorio Amaro (Planning Board); George Sykes (City Council Alt)

STAFF PRESENT: Rebecca Owens (Associate Planner)

1) CALL TO ORDER:

Chair Smith called the meeting to order at 7:04 PM.

A roll call was conducted to confirm attendance as one member participated virtually: Mr. Schnur.

Mr. Schnur noted that he was not able to be present at the meeting due to being in the high-risk category for COVID-19 and the number of cases New Hampshire is currently experiencing.

Several members stated that they wished the meeting could be run completely virtually at this time.

Chair Smith promoted Clifton Below to sit as a full member.

2) APPROVAL OF MINUTES

A. December 7, 2021

*A Motion was made by Mr. Heistad to accept the meeting minutes of December 7, 2021, as presented.
Seconded by Ms. McCormick.*

Roll Call Vote:

*Members voting in favor included Mr. Heistad, Ms. Chan, Ms. McCormick, Mr. Schnur, Mr. Kelleher, Mr. Below, and Chair Smith.
None voted Nay.*

**The vote on the MOTION was unanimously approved (7-0).*

3) OPEN TO THE PUBLIC:

A few members of the public were present to listen to the meeting.

5) OTHER BUSINESS

A. SAU 88 LHS/HSS Sitework re Traffic, Bike, Ped Circulation and Parking (*the Committee took this item up at this time*)

Dr. Joanne Roberts, Superintendent Lebanon School District, addressed the Board. She explained that the School Board will be putting forth a proposed bond on the March ballot for a renovation project to the Lebanon High School and Hanover Street School. This project will include renovations to the front entrances, student support offices, student lobbies, and a cafeteria area, among other items. The scope of this project has decreased over time and the cost has been reduced by several million dollars. In order to keep costs down, there is no proposed site work for the parking areas and bike/ped entrances proposed as part of this project. This project will contain renovations to facilities only. She noted that there is a small

1 brick storage building located on Evans Drive that is proposed to be knocked down as part of this project
2 and that a small road near it will be shifted slightly as an entry way. The traffic pattern for bicycles and
3 pedestrians is not proposed to change during these renovations but could be part of future projects through
4 reserve capital funds potentially.

5
6 The Committee discussed the NHDOT Route 120/I89 Exit 18 project and potential related improvements
7 for pedestrians/bicyclists to the Evans Drive/Heater Road area. There has not been much communication
8 on this item in a bit, but the next meeting will likely involve public review and team feedback. Ms.
9 Owens noted that the schools could reemphasize their thoughts on this project if they so choose.

10
11 Mr. Schnur noted that, at the last Ped/Bike Committee meeting, Sarah Riley spoke regarding safety
12 concerns through the school parking lots. He asked if the schools would consider reconfiguring some of
13 the existing parking spaces to make the area safer.

14
15 Dr. Roberts stated that this is not currently being considered, but that she will pass the suggestion along to
16 the school boards. She suggested that others could also attend school board meetings to broach this
17 subject.

18
19 The group discussed updating the Safe Routes to Schools (SRTS) plans and incorporating them with the
20 Walk Bile Ride Leb project.

21 4) STUDY ITEMS:

22 A. Updates from Other Boards

- 23 • Planning Office – Ms. Owens explained that the Village Market site moved forward with
24 conceptual review. This would include several hundred units of housing over many phases. There
25 could also be some underground parking included. The Kleen property, across the River, was
26 recently purchased and could become another housing proposal to the Planning Board. The 402
27 Mt Support Road housing project is still under review. There are several bike/ped comments that
28 have been submitted by the Regional Planning Commission as part of this housing project. The
29 Economic Development Committee and TIF Committee will meet jointly on January 26th to
30 discuss the parking area behind City Hall.

31
32 Ms. Owens also touched on Item B under OTHER BUSINESS: Updates on City Projects (e.g.,
33 TAP Lahaye, Westboro/12A Dry Bridge/River Trail). She explained that the City is going to get a
34 draft scope for the Riverwalk and Main Street improvements for West Lebanon. There are some
35 conceptual elements already put together. Permission was received from the DOT to use the
36 Riverfront area, which could allow a piece to extend toward White River Junction and the
37 Greenway.

38
39 The West Lebanon Revitalization Advisory Committee will present its recommendations to City
40 council on January 19th.

41
42 The Special Assessment Intersection project will likely go to bid in January 2023, for
43 construction in summer 2023. Coordination with the TAP project is being emphasized.

44
45 In response to a question, Ms. Owens explained that there are three similar projects: 1) a City
46 project for the Special Assessment District project; 2) City project with a TAP grant for
47 approximately 950' past that intersection toward the Centerra Parkway; 3) using DOT and City
48 funds, a crossing over Centerra Parkway to connect to the paths along Route 120.

- 49
50 • Safe Routes to School – This was previously discussed.
- 51
52 • City Council – Mr. Heistad stated that the City Council has been primarily focused on the budget,
53 which it seems to be ready to move forward with. Work on the Riverwalk may soon start to get

underway. There will be a meeting on January 26th regarding housing, Lebanon's role in the region, and active/proposed projects.

Mr. Below noted that the Council transferred leftover funds from the Greenway to pave the Northern Rail Trail between Spencer Street and Bank Street Extension and improve the section coming into the Town Hall parking lot. This will extend the Rail Trail closer to connect with the Greenway. Approaching the last section or two, there is some concern about the width of the path. There is a possibility of extending it toward the grass side of the path.

- Planning Board/CIP – None at this time.
- Police Reports – Mr. Schnur explained that the Police Department has released a table showing that there were 8 crashes involving pedestrians/bicyclists in 2021. There were two crashes in November and two in December. He plans to analyze this data and present information to the Committee in February. There was one crash reported in the Hanover Street-Evans Drive crosswalk, which is the second pedestrian crash there within three years. There were 7 crashes reported in 2020.
- Mascoma River Greenway – Ms. Owens explained that the Recreation Department is reviewing opportunities with DOT to revisit the rights to the bridges and to expand the Greenway toward Riverside Park. DOT wanted to know what the owners of Twin State Gravel would like to do with that land, and the owners indicated that they might like to reserve the right to rail access in the future. This limits some of the options.
- Class VI Roads – No updates.
- State of NH Updates – No updates.
- Rails to Trails – Ms. Chan explained that the Cycling Without Age project is progressing. Special permission is needed from the Bureau of Trails for the trishaw (similar to a rickshaw), as it does not fit into any of their categories. This project will still be available to the City, even if it is not able to be run by the Friends of the Northern Rail Trail (FNRT). It is hoped that some sort of provision or exception can be found for the trishaw. The trishaw is an e-bike that will be driven by a volunteer cyclist pilot. This person will give rides to seniors either on the Rail Trail or around town.
- Communications Plan – Ms. McCormick explained that January will be a time to put out reminders about the Rail Trail and recreational opportunities. It will also link to winter safety reminders. There was discussion regarding the NFRT asking people to self-report bike/ped crashes that occur along the Rail Trail. There may be a Curb the Carb/bike-to-work day event scheduled for May.

Ms. Chan stated that the City recently received an RTP Grant to allow for there to be repairs done on two bridges in Lebanon this summer.

B. Update on the multimodal and complete streets implementation plan

Ms. Owens stated that the multimodal plan, Walk Bike Ride Leb, is on the City's website. This involves working to implement the City's Complete Streets Policy. The project team would like to know if anyone on the Committee wants to volunteer to help with traffic mapping/field work for the project. It would also like to know if there are any volunteers to be interviewed regarding the plan.

C. Discussion re: NH DOT Rt. 120 / I-89 Exit projects alternative matrix

Ms. Owens stated that the proposed letter to the DOT, City Council and Regional Planning Commission regarding this project, voted on at the last meeting, will be worked on shortly. Ms. McCormick noted that this

discussion could include information regarding the schools as well. Mr. Below noted that there has been discussion that street lighting does not seem necessary along Evans Drive due to lack of use. It seems that Heater Road may be the more significant connection.

D. Discussion re: Winter Safety
This was previously discussed.

5) OTHER BUSINESS:

A. SAU 88 LHS/HSS Sitework re Traffic, Bike, Ped Circulation and Parking
This was discussed earlier in the meeting.

B. Updates on City Projects (e.g., TAP Lahaye, Westboro/12A Dry Bridge/River Trail)
This was discussed earlier in the meeting.

C. FYI - VT Bike Walk Summit 2022
This will be discussed at a future meeting.

6) FUTURE AGENDA ITEMS & FOLLOW-UP NEEDS:

A. UVEBLL e-bike programming 2022
Ms. Owens explained that the e-bike training/lending library last year was successful but also was laborious for staff. The Committee discussed possible reducing the number of weeks the training is held this year. The Committee also discussed looking into volunteers to run the program, such as for community service hours, or through employee volunteers from local businesses.

5) OTHER BUSINESS

D. Election of Officers - Chair and Vice Chair
Mr. Heistad nominated Mr. Smith as Chair of the Pedestrian and Bicyclist Advisory Committee. Ms. Chan seconded the nomination. Mr. Smith accepted the nomination. There were no other nominations for Chair.

A Motion was made by Mr. Heistad to name Colin Smith as Chair of the Pedestrian and Bicyclist Advisory Committee.

Seconded by Ms. Chan.

Roll Call Vote:

Members voting in favor included Mr. Heistad, Ms. Chan, Ms. McCormick, Mr. Schnur, Mr. Kelleher, Mr. Below.

None voted Nay. Chair Smith abstained.

**The vote on the MOTION was approved (6-0-1).*

Mr. Below nominated Ms. McCormick as Vice Chair of the Pedestrian and Bicyclist Advisory Committee. Ms. Chan seconded the nomination. Ms. McCormick accepted the nomination. There were no other nominations for Vice Chair.

A Motion was made by Mr. Below to name Marie McCormick as Vice Chair of the Pedestrian and Bicyclist Advisory Committee.

Seconded by Ms. Chan.

Roll Call Vote:

Members voting in favor included Mr. Heistad, Ms. Chan, Mr. Schnur, Mr. Kelleher, Mr. Below, and Chair Smith.

None voted Nay. Ms. McCormick abstained.

1 ****The vote on the MOTION was approved (6-0-1).***
2
3

4 **7) FUTURE AGENDA ITEMS & FOLLOW-UP NEEDS:**
5

6 B. Bike Friendly Community Designation Renewal
7 This will be discussed at a future meeting.
8

9 **8) ADJOURMENT:**
10

11 *A Motion was made by Mr. Below to adjourn the meeting.*
12 *Seconded by Ms. McCormick.*
13

14 ***Roll Call Vote:***

15 *Members voting in favor included Mr. Heistad, Ms. Chan, Ms. McCormick, Mr. Schnur, Mr. Kelleher, Mr.*
16 *Below, and Chair Smith.*
17 *None voted Nay.*
18

19 ****The vote on the MOTION was unanimously approved (7-0).***
20

21 **The meeting was adjourned at 9:00 PM.**
22
23

24 Respectfully submitted,
25 Kristan Patenaude, Recording Secretary

Agenda
Pedestrian & Bicyclist Advisory Committee
February 1, 2022

Agenda Item #4B
Study Items

**Ped/Bike Annual Crash
Data Analysis 2006-2021**

**2006-2021
Lebanon NH
Pedestrian and Bicyclist crash data
(Provisional)**

LPBAC Presentation,
February 1, 2022
by Alan Schnur

1

Aim of data collection and analysis

Aim: To tabulate and analyze data on crashes involving pedestrians and bicyclists in Lebanon City with the intent to:

- **Look for patterns**
- **Measure trends**
- **Identify any common causative factors**
in order to recommend interventions to prevent future crashes.
- **DATA FOR ACTION!**

2

Data sources used, 2006-2021

- 2006-2019: Lebanon Police Dept. reports with 16 variables
- 2020: Lebanon Police Department report with 12 variables
 - Missing important information needed for analysis, including
 - Details of location (e.g. Parking Lot, Crosswalk, Driveway)
 - Detailed description of crash
 - Severity of injury
- 2021: Lebanon Police Dept. report with 15 variables
- 2015-2019: Lebanon Fire Department EMS report for Incident type “323” (only pedestrians), with 5 variables
 - Compared reports with LPD data and following additional crashes involving pedestrians found:
 - 2015: 2 crashes (January, October)
 - 2016: 1 crash (November)
 - 2019: 1 crash (November)
- Awaiting Lebanon Fire Dept. EMS Report for 2020 and 2021
- **All data provided to LPBAC through Lebanon Planning Office.**

3

2021 crash data overview

Number	Month	Ped/Bike	Type—Location	Comments
21-001	April	Ped.	Other—West Lebanon	Work-related
21-002	July	Ped.	Intersection—Route 120	
21-003	July	Ped.	Parking Lot —Home Depot	Ped. age=>65 years
21-004	Sept.	Bike	Moulton Ave. —near LMS	E-bike
21-005	Nov.	Ped.	Intersection—I-89 Exit 20	Crossing against light
21-006	Nov.	Ped.	Parking Lot —Staples	Ped. age=>65 years
21-007	Dec.	Ped.	In Crosswalk —Hanover St.	Ped. wearing headphones
21-008	Dec.	Ped.	In Crosswalk —Evans Dr.	Same location as 2018 fatal crash

Source: Lebanon Police Dept. data provided to LPBAC through Lebanon Planning Office.

4

No. of Lebanon NH Crashes Involving Pedestrians and Bicyclists, 2006-2021*

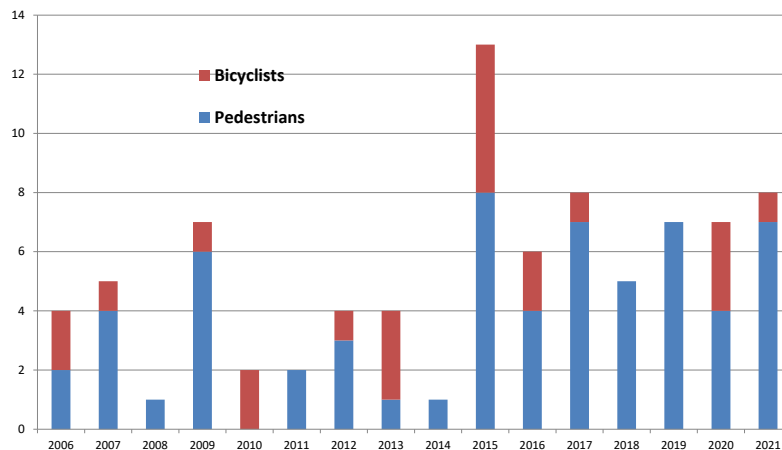
Year	Pedestrians	Bicyclists	Total
2006-2010	13	6	19
2011	2	0	2
2012	3	1	4
2013	1	3	4
2014	1	0	1
2015	8	5	13
2016	4	2	6
2017	7	1	8
2018	5	0	5
2019	7	0	7
2020	4	3	7
2021	7	1	8
Total	62	22	84
Average/year	3.9	1.4	5.3

* Includes LFD EMS data: Pedestrian-involved crashes in 2015 (2), in 2016 (1) and in 2019 (1).

Source: Leb. Police Dept. data & Leb. Fire Dept. EMS data provided to LPBAC through Leb. Planning Office.

5

Crashes involving pedestrians and bicyclists, by Year, Lebanon NH, 2006-2021* (n=84 crashes)

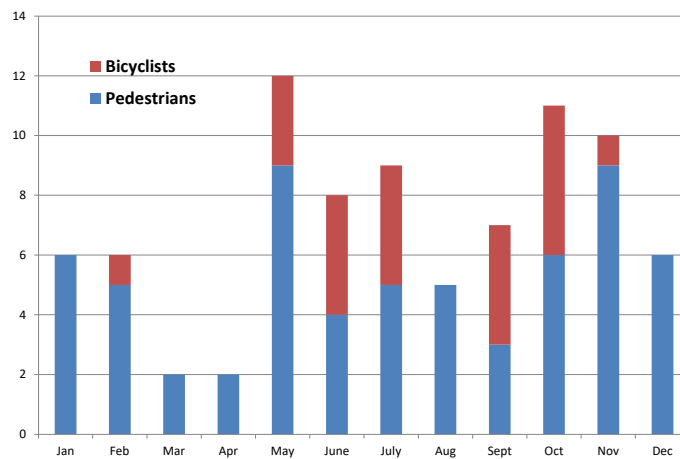


* Includes LFD EMS data: Pedestrian-involved crashes in 2015 (2), in 2016 (1) and in 2019 (1).

Source: Leb. Police Dept. data & Leb. Fire Dept. EMS data provided to LPBAC through Leb. Planning Office.

6

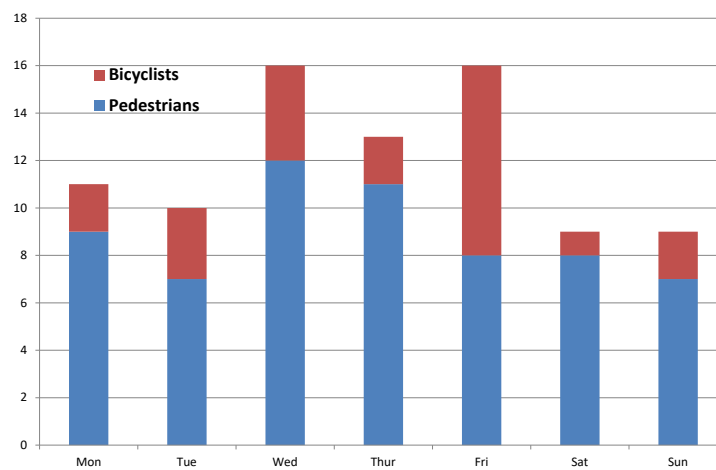
Crashes involving pedestrians and bicyclists, by Month, Lebanon NH, 2006-2021* (n=84 crashes)



Source: Leb. Police Dept. data (2006-2021); and Leb. Fire Dept. EMS data (2015-2019) provided to LPBAC.

7

Crashes involving pedestrians and bicyclists, by Day of the week, Lebanon NH, 2006-2021* (n=84 crashes)



Source: Leb. Police Dept. data (2006-2021); and Leb. Fire Dept. EMS data (2015-2019) provided to LPBAC.

8

Crashes involving pedestrians and bicyclists, by Time of Day, Lebanon NH, 2006-2021 (n=84)

Crash Time of day:

- **Pedestrians: During daylight = 42 (68%):**

8:00 am to 11:00 am = 7 crashes

11:00 am to 3:00 pm = 20 crashes

3:00 pm to 6:00 pm = 15 crashes

- **Pedestrians: Dusk or after dark = 20 (32%)**

- **Bicyclists: During daylight = 20 (91%):**

Sun-up to 12:59 pm = 6 crashes

1:00 pm to sundown = 14 crashes

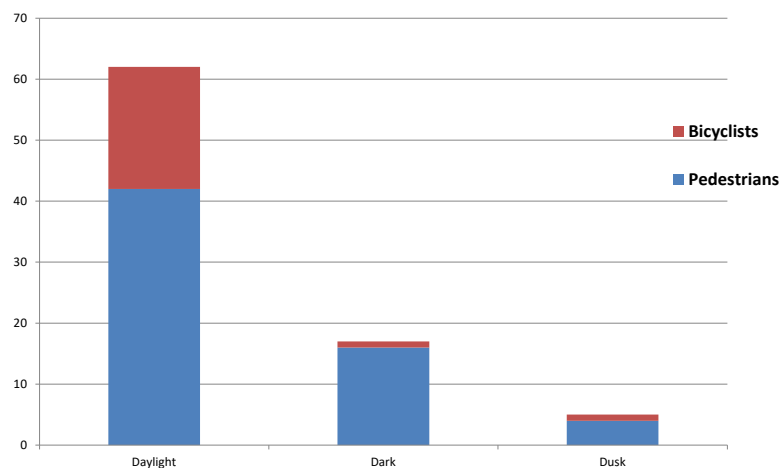
- **Bicyclists: Dusk or after dark = 2 (9%)**

[Most common bike crash time around 5 pm = 7 crashes]

Source: Leb. Police Dept. data (2006-2021); and Leb. Fire Dept. EMS data (2015-2019) provided to LPBAC.

9

Crashes involving pedestrians and bicyclists, by Light conditions, Lebanon NH, 2006-2021* (n=84 crashes)



Source: Leb. Police Dept. data (2006-2021); and Leb. Fire Dept. EMS data (2015-2019) provided to LPBAC.

10

**Crashes involving pedestrians and bicyclists, by Light conditions, and by year, Lebanon NH, 2006-2021*
(n=84 crashes)**

	<=2015	2016-17	2018-19	2020-21	TOTAL
Daylight: Ped	20	9	8	5	42
Dark/dusk: Ped	8	2	4	6	20
Daylight: Bike	13	3	0	4	20
Dark/dusk: Bike	2	0	0	0	2

**NOTE: "Dusk" starts from around sundown.
"Dark" starts from 30 minutes after sundown.**

Source: Leb. Police Dept. data (2006-2021); and Leb. Fire Dept. EMS data (2015-2019) provided to LPBAC.

11

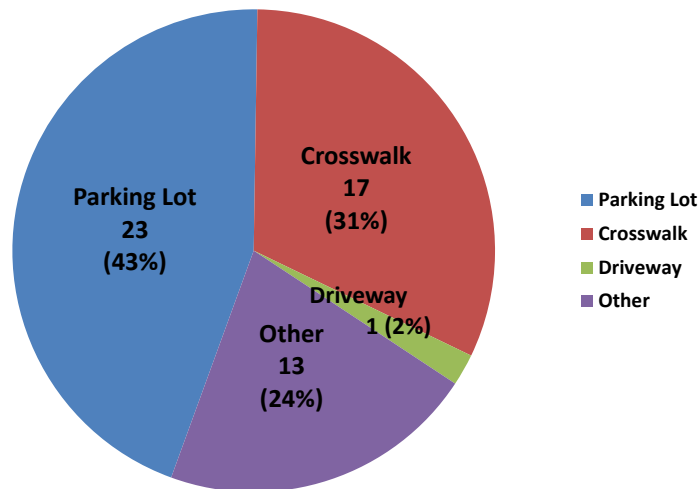
Injury severity of crashes involving Pedestrians, Dusk or Dark, as % of Total Pedestrian injuries, Lebanon NH, 2006-2019

Injury type	No. of Ped. crashes when Dusk/Dark	No. of Ped. crashes TOTAL	% of Crashes when Dusk/Dark
None	0	4	0.0%
Slight	4	21	19.0%
Moderate	5	13	38.5%
Serious	2	6	33.3%
Fatality	1	1	100.0%
Unknown	2	2	100.0%
Total	14	47	29.8%

NOTE: 1 pedestrian fatality in 2010 not included in LPD data and not shown in chart.
LPD data for 2020 and 2021 did not allow analysis of injury severity.
Source: Lebanon Police Dept. data provided to LPBAC through Lebanon Planning Office.

12

No. and Per Cent of crashes involving Pedestrians, by Type of Location, Lebanon NH, 2006-2021 (n=54)



NOTE: Main location shown. If overlap (e.g. crosswalk within parking lot), only one location selected.

Source: Lebanon Police Dept. data 2006-2019, 2021 provided to LPBAC through Lebanon Planning Office.

13

Crashes involving Pedestrians, by Age, Lebanon NH, 2016-2021 (n=34 crashes)

Year	Number of Total crashes	Avg. Age Park.Lot	Avg. Age All Peds	Comment
2016	4	71.0	63.5	2 crashes: age NA
2017	7	68.8	59.3	
2018	5	45.5	39.7	1 crash: 2 peds, (Total=6 peds)
2019	7	57.0	55.5	1 crash: age NA
2020	4	NA	56.0	
2021	7	71.0	45.6	
2016-2021 Average (in years)		63.0*	51.8	
2016-2021 Median (in years)		70*	56	
2016-2021 Range of ages		(7 to 95 years*) (7 to 95 years)		

NOTES: 1) Age data not available for the years before 2016.

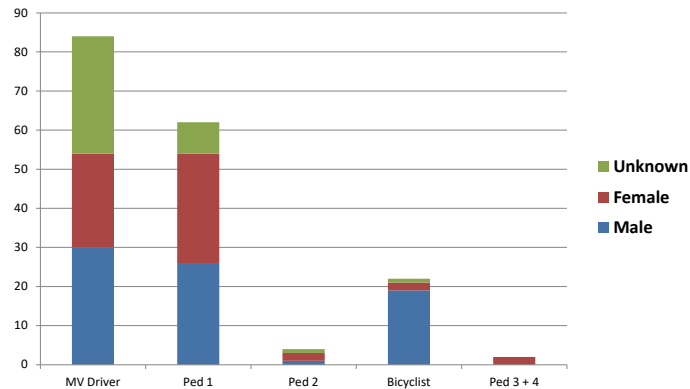
2) *Parking lot crash avg./median age only for 2016-2019 and 2021.

Parking Lot information not available for 2020.

Source: Lebanon Police Dept. data provided to LPBAC through Lebanon Planning Office.

14

Crashes involving pedestrians and bicyclists, by Gender, Lebanon NH, 2006-2021 (n=84 crashes)



NOTE: Some crashes involved more than one Pedestrian: Total of 68 Pedestrians in 62 crashes.
Gender not known for 8 pedestrians involved in crashes.
Gender of Motor Vehicle Driver not available for 2020-2021.

Source: Leb. Police Dept. data (2006-2021); and Leb. Fire Dept. EMS data (2015-2019) provided to LPBAC.

15

Analysis/discussion - Pedestrians

- Increased number of crashes from 2015 to 2021.
- Another crash at Evans Drive/Hanover St. intersection crosswalk in 2021 – same location as 2018 fatal crash.
- Largest number of crashes involving pedestrians in May and November.
- Dusk and Dark is most dangerous time for pedestrians.
 - Increased risk of crashes for pedestrians at dusk/after dark.
 - Greater risk of more serious injuries to pedestrians in crashes at dusk/after dark.
- Parking lots and crosswalks remain locations with most crashes involving pedestrians.
- Seniors are pedestrians at most risk.
 - Average age of pedestrians hit in all crashes = 51.8 years
 - Average age of pedestrians hit in Parking Lots = 63.0 years
- Pedestrian crashes on every day of the week – most on Wednesday (12 crashes), followed by Thursday (11).

16

Analysis/discussion – Bicyclists

- 3 Bike crashes reported in 2020, and 1 in 2021, after none reported in 2018 and 2019.
- First e-bike crash reported -- in 2021.
 - Near Lebanon Middle School
- Largest number of Bike crashes in October (5), followed by June (4), July (4) and September (4).
- No Bike crashes reported for colder months of Dec., Jan., Mar., April from 2006-2021.
- Except for 1 crash each in February and November, all crashes involving bicyclists from May to October.
- Most dangerous day for Bike crashes is Friday.
- Most common Bike crash time is around 5pm, possibly on commute home
- 19 out of 21 bicyclists involved in crashes were male.
 - The gender of one bicyclist was not shown in the data.

17

Possible interventions – for discussion

- Reduced Motor Vehicle speed limit (25mph) within the City established! Need to evaluate impact
- Communicate risks and ways to prevent crashes
- Pedestrian education focused on:
 - Need for caution in Parking Lots, and when crossing street -- even in crosswalk.
 - Increased risk of being involved in crash after dark
 - Higher risk of injuries if involved in crash after dark
 - Higher risk of crash involvement and injury for seniors
 - Special materials for children and seniors
- Bicyclist education
- Driver education highlighting greater attention required in parking lots and when approaching crosswalks.
- Increased signage (for MVs/pedestrians)
- Road Safety Surveys/Assessments

18