



# Analytics/RAMS Updates

2

RAMS Updates

## Asset Data Collection



### 20 Data Items Collected

- 5 New Asset Items
- More complete records on existing RAMS layers
- Integration ongoing

## Asset Data Collection

## Insert Web Page

This app allows you to insert secure web pages starting with https:// into the slide deck. Non-secure web pages are not supported for security reasons.

Please enter the URL below.

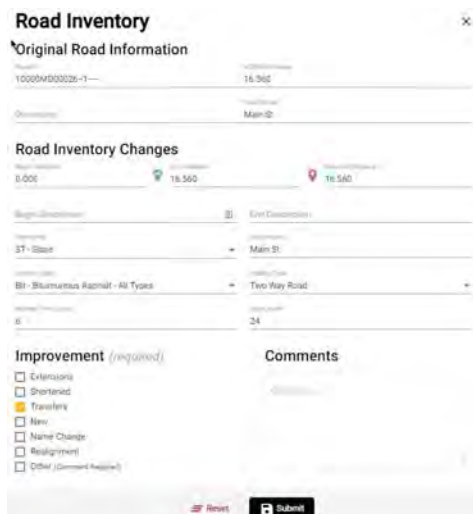
https:// gis.iowadot.gov/portal/apps/storymaps/stories/dc423faff2424718a0827f9cfb73d01f

Note: Many popular websites allow secure access. Please click on the preview button to ensure the web page is accessible.

[Web Viewer Terms](#) | [Privacy & Cookies](#)

Preview

# Local Inventory Submittal



**Road Inventory**

**Original Road Information**

1000M02022-1 15.560

0.000 15.560 15.560

**Road Inventory Changes**

37 - State Main St

88 - Blumensaat Road - All Types Two-Way Road

24

**Improvement (required)**

Extension

Shortened

Transfer

New

Name Change

Realignment

Other (Comment Required)

**Comments**

Reset Submit

- Gathering requirements and determining the feasibility of implementing a web based application
- Pending potential scope of work from Rizing
- Goal
  - Streamlined data submission
    - Increase local participation
      - Ongoing local updates vs yearly
      - Decrease RAMS accuracy lag on Non-Primary Routes



## Analytics Contacts

RAMS Administration – Mike Clement  
[michael.clement@iowadot.us](mailto:michael.clement@iowadot.us)

RAMS Data Quality Manager – Jesse Denker  
[jesse.denker@iowadot.us](mailto:jesse.denker@iowadot.us)

Roadway Data Maintenance Coordination – Josh Schmidt  
[joshua.schmidt@iowadot.us](mailto:joshua.schmidt@iowadot.us)

Roadway Data Maintenance Support – Paul Mauer  
[paul.mauer@iowadot.us](mailto:paul.mauer@iowadot.us)

Railroad and Bridge Data Coordination - Jodi Clement  
[jodi.clement@iowadot.us](mailto:jodi.clement@iowadot.us)

Pavement Management Information - Mark Murphy  
[Mark.murphy@iowadot.us](mailto:Mark.murphy@iowadot.us)

RAMS Support – BJ Covington  
[BJ.Covington@iowadot.us](mailto:BJ.Covington@iowadot.us)





Questions?



BJ Covington  
Analytics Bureau, Iowa DOT  
[bj.covington@iowadot.us](mailto:bj.covington@iowadot.us)





# PATHWEB

- Location Based
  - Information associated to roadway
    - Imagery
    - Pavement Information
    - Asset information

- Help Documentation:

<https://rams.iowadot.gov/Pathweb/Client/userguide/index.html?v=1>



## ACCESSING PATHWEB

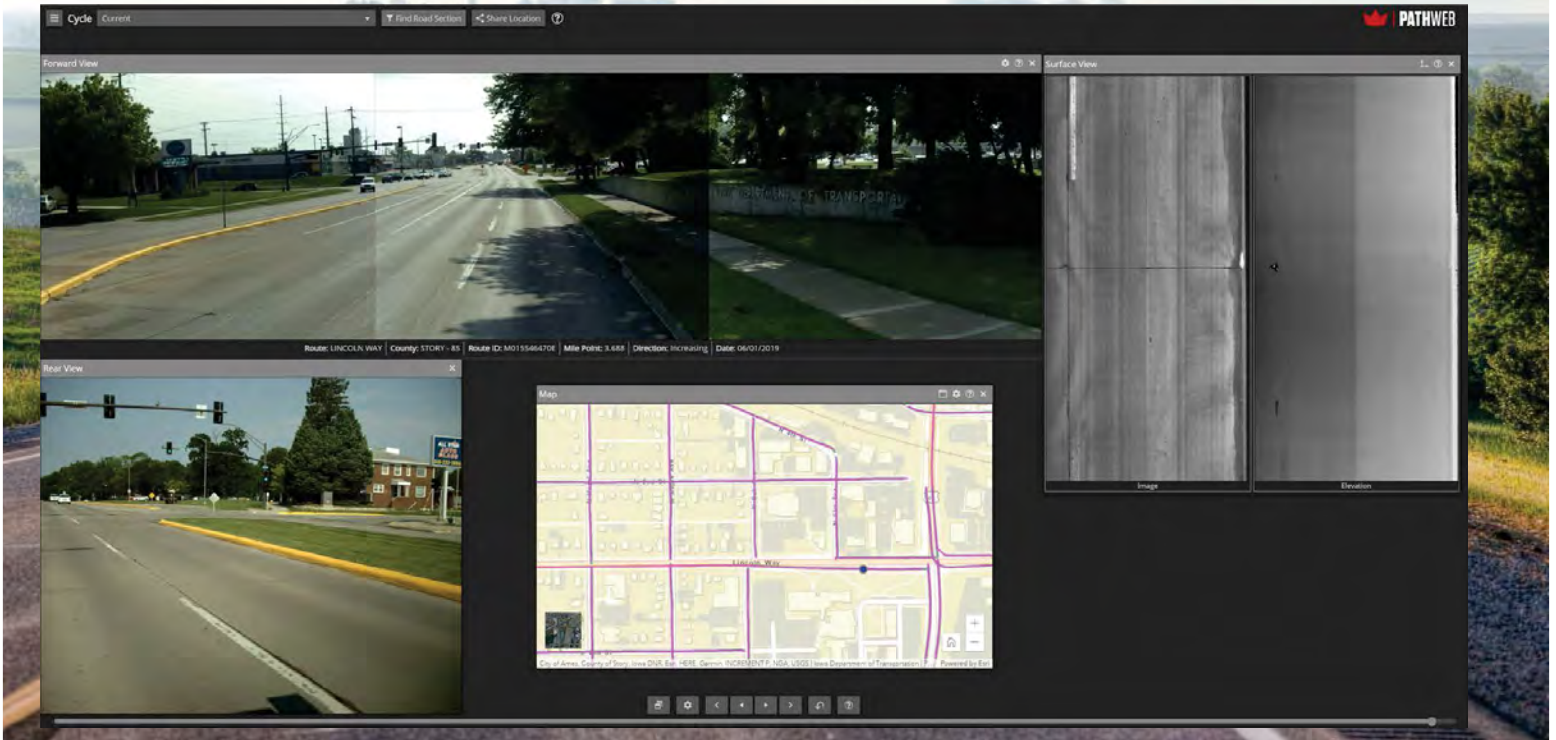
- URL: <https://rams.iowadot.gov/Pathweb>
  - Microsoft Edge
  - Google Chrome
  - Mozilla Firefox
  - Safari
  - Opera

## PATHWEB

- Imagery
  - Forward (Shoulder & Right of Way)
  - Rear
  - Pavement Condition
    - Downward Facing



Pathweb



Utilizing Pathweb

**Basic Controls**

1. **Open Windows**  
Accesses the Menu

2. **Playback Settings**  
Set playback speed

3. **Step Backward**  
Against direction of travel 1 photo

4. **Play Backward**  
Against direction of travel continuously

5. **Play Forward**  
With direction of travel continuously

6. **Step Forward**  
With direction of travel 1 photo

7. **Turn Around**  
Transfer to opposite side of road (not applicable in Iowa)

8. **Help**

**Image Controls**

1 2 3 4 5 6 7 8

**Find Road Section** **Share Location**

**Menu**

**Cycle and Road Search**

The screenshot shows the Pathweb application interface with a red overlay box containing a list of controls and their functions. The list is numbered 1 through 8. Red arrows point from the list to the corresponding UI elements in the application. The 'Basic Controls' section includes buttons for 'Open Windows', 'Playback Settings', 'Step Backward', 'Play Backward', 'Play Forward', 'Step Forward', 'Turn Around', and 'Help'. The 'Image Controls' section includes buttons numbered 1 through 8. The 'Find Road Section' and 'Share Location' buttons are also visible. The 'Menu' and 'Cycle and Road Search' labels are also present.



Utilizing Pathweb

Window Title

Route Information

Forward View

Map

Rear View

Pavement View

Route: LINCOLN HWY | County: STORY - 65 | Route ID: MCT546470E | Mile Mark: 3.088 | Direction: Pro-Rising | Date: 06/01/2014

PATHWEB

This screenshot shows the Pathweb application interface. At the top, there is a navigation bar with a 'Cycle' button and a 'Current' indicator. The main content area is divided into four panels: a large 'Forward View' of a road, a 'Map' panel showing a street grid, a 'Rear View' of the road, and a 'Pavement View' showing a close-up of the road surface. A status bar at the bottom of the main view displays route information: 'Route: LINCOLN HWY | County: STORY - 65 | Route ID: MCT546470E | Mile Mark: 3.088 | Direction: Pro-Rising | Date: 06/01/2014'. The application title 'PATHWEB' is visible in the top right corner.

Utilizing Pathweb

Surface View

Transverse Profile

Elevation Inches

Image

Elevation

PATHWEB

This screenshot shows a different view of the Pathweb application. The 'Transverse Profile' window is open, displaying a line graph of 'Elevation Inches' on the y-axis (ranging from -2 to 2) against an unlabeled x-axis. A blue line represents the elevation profile. Below the graph, there is a legend for 'Elevation Inches'. To the right, the 'Surface View' window is open, showing a vertical image of the road surface and a corresponding elevation profile. The 'Image' and 'Elevation' labels are at the bottom of this window. The 'PATHWEB' logo is in the top right corner.



Utilizing Pathweb



Utilizing Pathweb

Map

Location Details

The location details window provides

Location Details

Route	IA 17 N
County	BOONE - 8
Route ID	5001930017N
Mile Point	19.501
Direction	Increasing
Date	05/31/2019
Coordinate	42.026818, -93.815366
Elevation	1160 ft
Grade	-0.2%
Average IRI	33 in/mi
Average Rut	0.15 in
Set	353
Image Frame	01:42:36:08

Help

Go back to the legacy site

Windows

- Forward View
- Forward View Settings
- Surface View
- Rear View
- Map
- Transverse Profile
- Location Details
- Share Location
- IRI Graph
- Map Settings
- Layer Attribute Table
- Playback Settings

Reset Pathweb



Utilizing Pa

<https://gis.iowadot.gov/rams/rest/services/lrs/MapServer>

### lrs (MapServer)

View In: [ArcGIS JavaScript](#) [ArcGIS Online Map Viewer](#) [ArcGIS Earth](#) [ArcMap](#) [ArcGIS Pro](#)  
View Footprint In: [ArcGIS Online Map Viewer](#)

Service Description:

Extending

The layer is added to the Map settings window and displayed in the Map window.

#### Federal Functional Classification

- 1 - INTERSTATE
- 2 - PRINCIPAL ARTERIAL - OTHER FREEWAYS AND EXPRESSWAYS
- 3 - PRINCIPAL ARTERIAL - OTHER
- 4 - MINOR ARTERIAL
- 5 - MAJOR COLLECTOR
- 6 - MINOR COLLECTOR

We will

of the

p

Map

Map

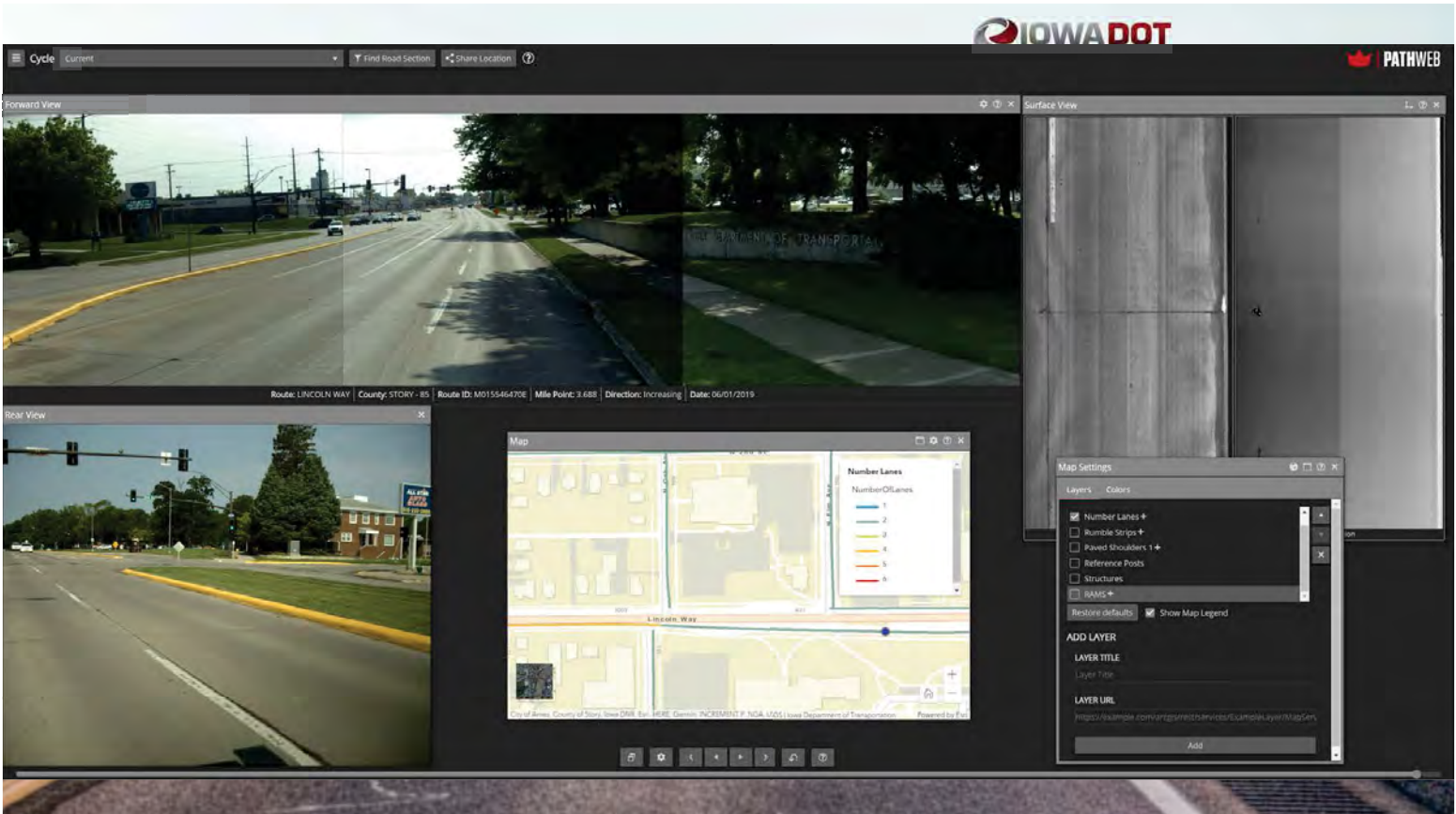
Map Settings

Layer Title

LAYER URL

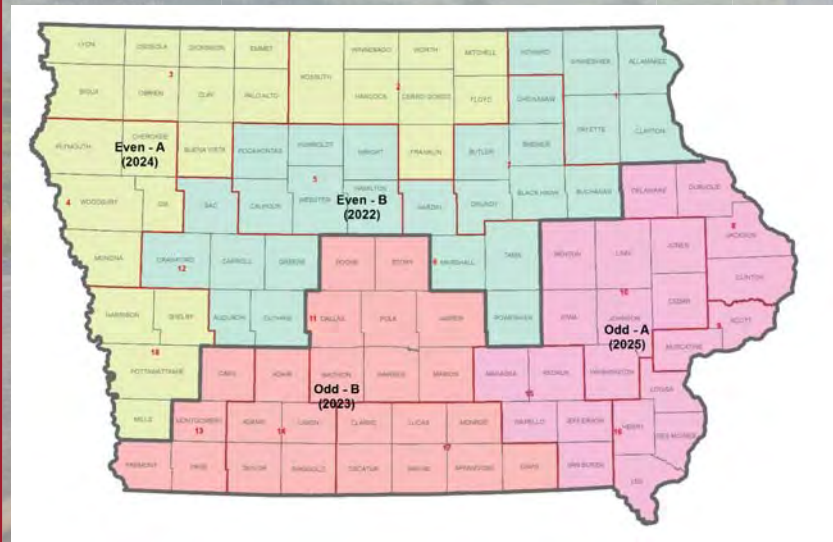
Add

- Lane Type (9)
- Left Shoulder Curbed (48)
- Left Shoulder Rumble (49)
- Left Shoulder Tied (50)
- Left Shoulder Type (51)





# PATHWEB UPDATES



**Interstate** – Gathered every year

**Even** - Non-Interstate Primary route collection (Every other year)

**Odd** - Non-Interstate Primary route collection (Every other year)

**A/B** - Non-primary collection (Four Year Cycle)

Updated data is constantly added to Pathweb as it becomes available

## Analytics Bureau Contacts

Peggi Knight – Bureau Chief

Karen Carroll – Analytics Team Lead  
 Karen.carroll@iowadot.us

### RAMS Management

Mike Clement – RAMS Administrator  
 Michael.clement@iowadot.us  
 Jesse Denker – Quality Control Manager  
 Jessee.denker@iowadot.us  
 Mark Murphy – PMIS Manager  
 Mark.murphy@iowadot.us  
 BJ Covington – Local/Secondary Roadway  
 Bj.Covington@iowadot.us

### Business Data Management

Josh Schmidt – Lead Maintainer  
 Joshua.Schmidt@iowadot.us  
 Paul Mauer – Primary Roads Maintainer  
 Paul.mauer@iowadot.us  
 Jodi Clement – Bridges/Structures and  
 Railroad Data Maintainer  
 Jodi.clement@iowadot.us



THANK YOU



BJ Covington  
Analytics Bureau  
[BJ.Covington@iowadot.us](mailto:BJ.Covington@iowadot.us)