AirSage 30-Test Data Analysis
Incident and Weather Impact

Prepared by TOPS Laboratory
March 27, 2008
(Flood Event added June 25, 2008)
Incident Impact Analysis

• Friday March 14
• I-94 WB @ Mile Marker 255
• Right lane blocked from 2:05 PM to 2:50 PM
• Traffic backup cleared by 3:15 PM
• AirSage segments related to incident:
  – Segment 31178 (Point A to Point B)
  – Segment 31411 (Point B to Point C)
• There were no 911 Flags in the Airsage Data
• Sample days for comparison
  – Feb 25, Monday, Cloudy day
  – Mar 20, Thursday, Cloudy day
  – Mar 21, Friday, Snow day
Incident Location vs. AirSage Segments
Incident Day Analysis
Segment 31178

03/14/2008 Incident Day

02/25/2008 Cloudy Day
Snowy Day Analysis
Segment 31178

03/20/2008 Cloudy Day

03/21/2008 Snowy Day
Incident Day Analysis
Segment 31411

03/14/2008 Incident Day
02/25/2008 Cloudy Day

Incident!
Snowy Day Analysis
Segment 31411

03/20/2008 Cloudy Day

03/21/2008 Snowy Day
Weather Impact Analysis

• Selected Days:
  – March 20, 2008, Cloudy day
  – March 21, 2008, Snowy day

• Random selected AirSage segments
  – Segment 30107
    • HWY 16 EB @ HWY 83
  – Segment 30189
    • I-94 EB @ County Rd C
  – Segment 31344
    • US 18 WB @ HWY 67
Snowy Day Analysis
Segment 30107 (HWY 16)

03/20/2008 Cloudy Day

03/21/2008 Snowy Day
Snowy Day Analysis
Segment 30189 (I-94)

03/20/2008 Cloudy Day

03/21/2008 Snowy Day
Snowy Day Analysis
Segment 31344 (US 18)

03/20/2008 Cloudy Day

03/21/2008 Snowy Day
I-94 EB Comparison of Airsage segments to STOC TrafficData.XML links.

A---B: AirSage Segment 30194 / STOC XML Links 26001, 26004, 26038, 26039, 26040.
B---C: AirSage Segment 31500 / STOC XML Links 26004, 26005, 26006, 26007
C---D: AirSage Segment 30198 / STOC XML Links 26008-26014
D---E: AirSage Segment 31334 / STOC XML Links 26015-26020, 26037
STOC XML March 20 (Cloudy)

STOC XML March 21 (Snow)

AirSage March 20 (Cloudy)

AirSage March 21 (Snow)
C---D: AirSage Segment 30198 / STOC XML Links 26008-26014

STOC XML March 20 (Cloudy)

STOC XML March 21 (Snow)

AirSage March 20 (Cloudy)

AirSage March 21 (Snow)
I-94 WB Comparison of AirSage segments to STOC TrafficData.XML links.

A---B: AirSage Segment 31341 / STOC XML Links 6013-6018, 6033.
B---C: AirSage Segment 31126 / STOC XML Links 6019-6022.
C---D: AirSage Segment 30203 / STOC XML Links 6023, 6024, 6025.
D---E: AirSage Segment 30197 / STOC XML Links 6026-6032.
C---D: AirSage Segment 30203 / STOC Links 6023-6025
STOC XML March 20 (Cloudy)

STOC XML March 21 (Snow)

AirSage March 20 (Cloud)

AirSage March 21 (Snow)
Airsage Data analysis

A----B: Airsage FID 94
Location ID: 31495

Incident Type: Flooding
County: Jefferson
Roadway: IH 094W
Direction: WB
Cross Street: Sth 26
Lanes Affected: All lanes blocked (one direction)
Time Incident Occurred: 7:00:00 PM