

# AIMS Coordinators Meeting - Olathe

November 9, 2017



# Agenda

- Intros & Announcements
  - [GIS Edge](#)
- KM/GIS Role
- Web Mapping
- AVL
- Break
- Asset Management

# Web Mapping - Background

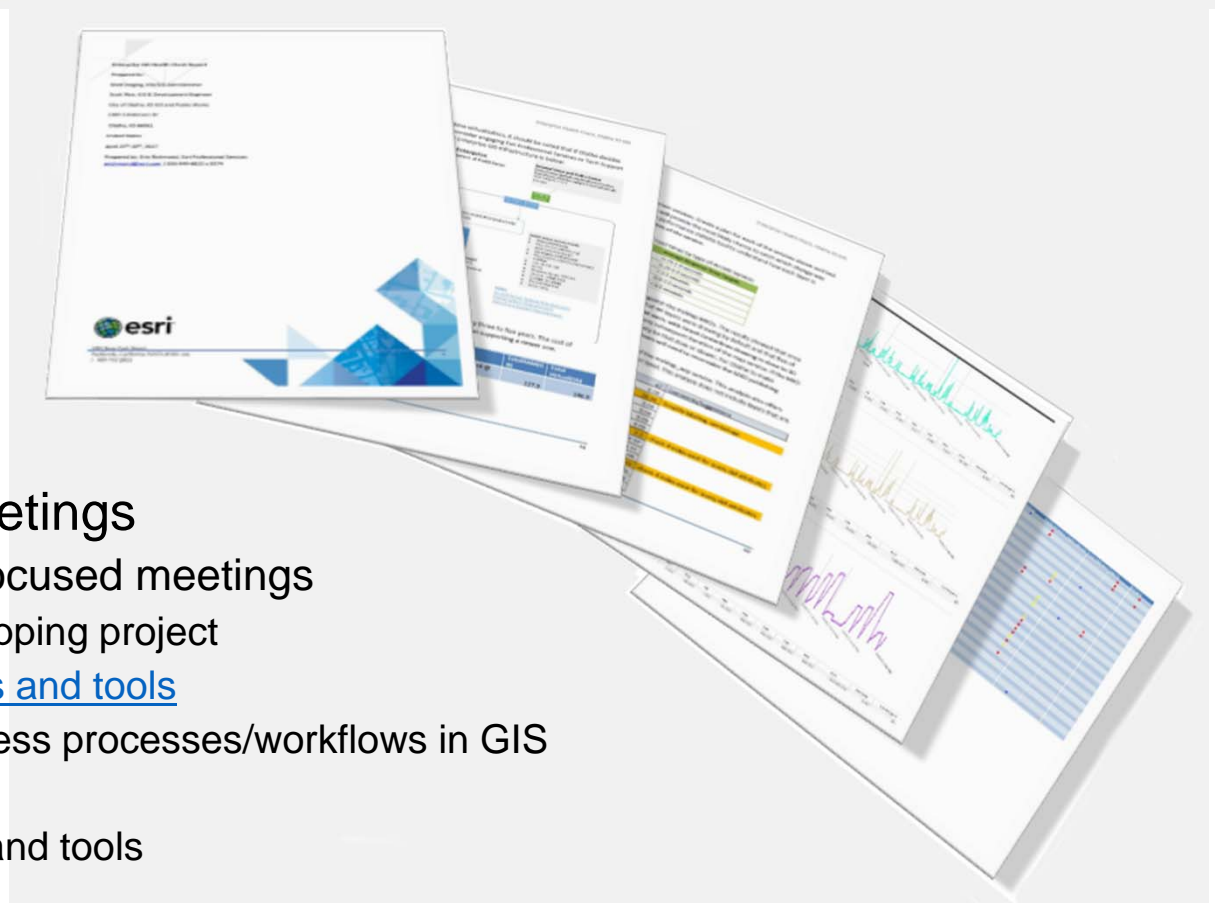
- Background
  - Pre 2006 – IMS
  - 2006 – 2015 – in house developed JavaScript
    - Ahead of OOTB Esri map at time
    - <http://ozone.olatheks.org/ozmaps/mapviewer/>
  - 2016 – present – JavaScript V2
    - Responsive
    - [http://ozone.olatheks.org/ozmaps/mapviewer\\_res/](http://ozone.olatheks.org/ozmaps/mapviewer_res/)
    - Utilizes Esri widgets
  - Looking forward – Portal
    - Esri OOTB has passed our in house development

# Web Mapping - Background

- Victim of own success
- Increased use, decreased performance
  - More services, more users, same old server
- Attempted to install Portal last summer, but the server at the time couldn't handle it
- January 2017 – new server
- With new server installed Portal
  - <https://ucs-arcgis1.olatheks.org/arcgis/home/>
  - Intended destination for all internal maps (Ozone being replaced)

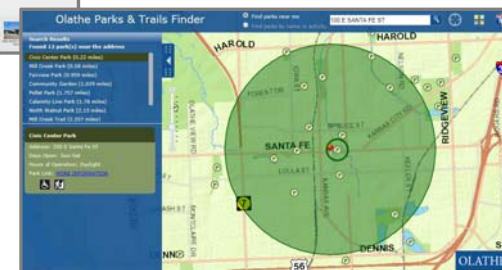
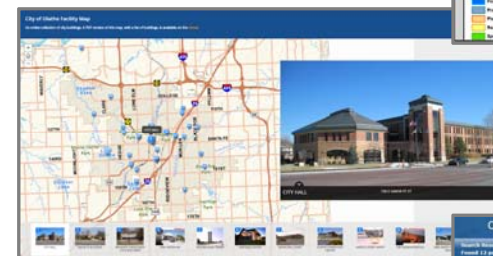
# Web Mapping - Performance

- ESRI Health Check
  - [System Monitor Tools](#)
    - [Definitions](#)
  - [Excel Report](#)
  - [Mxd Perf Stat](#)
  - [System Log Parser](#)
- GIS User Engagement Meetings
  - Agenda for 28 Workgroup focused meetings
    1. Overview of GIS web mapping project
    2. Discuss [existing GIS sites and tools](#)
    3. Discuss workgroup business processes/workflows in GIS
    4. Feedback from users
    5. Goals for updated maps and tools



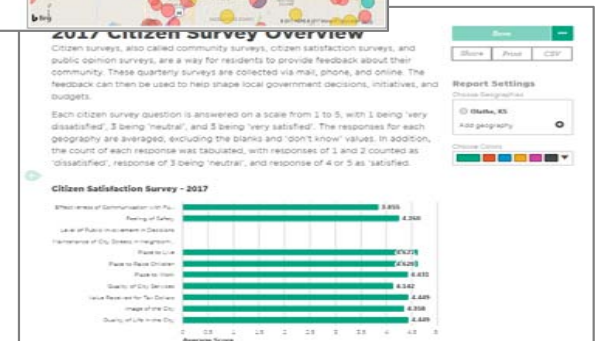
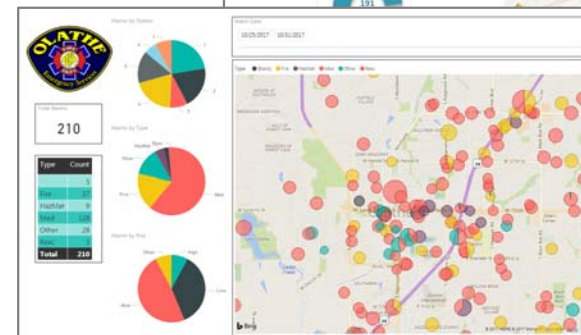
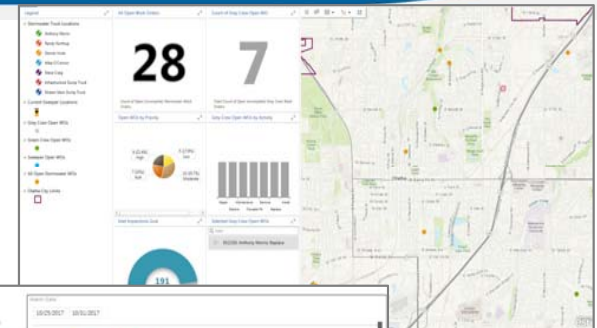
# Web Mapping - Maps

- Workgroup Focus
  - [Customer Service](#)
  - [Hydrants & Valves](#)
  - [Planning](#)
  - [Utility Locates](#)
- Current Construction Projects
  - [Projects Map](#)
  - [Development Map](#)
- Story Maps
  - [Facility Map \(internal\)](#)
  - [Sculpture map \(public\)](#)
- [ParkFinder](#)



# Web Mapping - Dashboards

- ESRI
  - [Browser](#) vs [Windows App](#)
- Power BI
  - [Fire Incident BI Map](#)  
(prototype, intended to be public)
- My Sidewalk
  - [Reports](#)



# AVL – Automatic Vehicle Location

- AVL – [GoTrack Site](#)
  - Background
  - API – inputs
  - Main Users
    - [Solid Waste](#)
    - [Sweepers](#)
      - Street segments tracked based off GPS status
      - WO's for leaf, arterial, residential and bike lanes
    - [Snow](#)



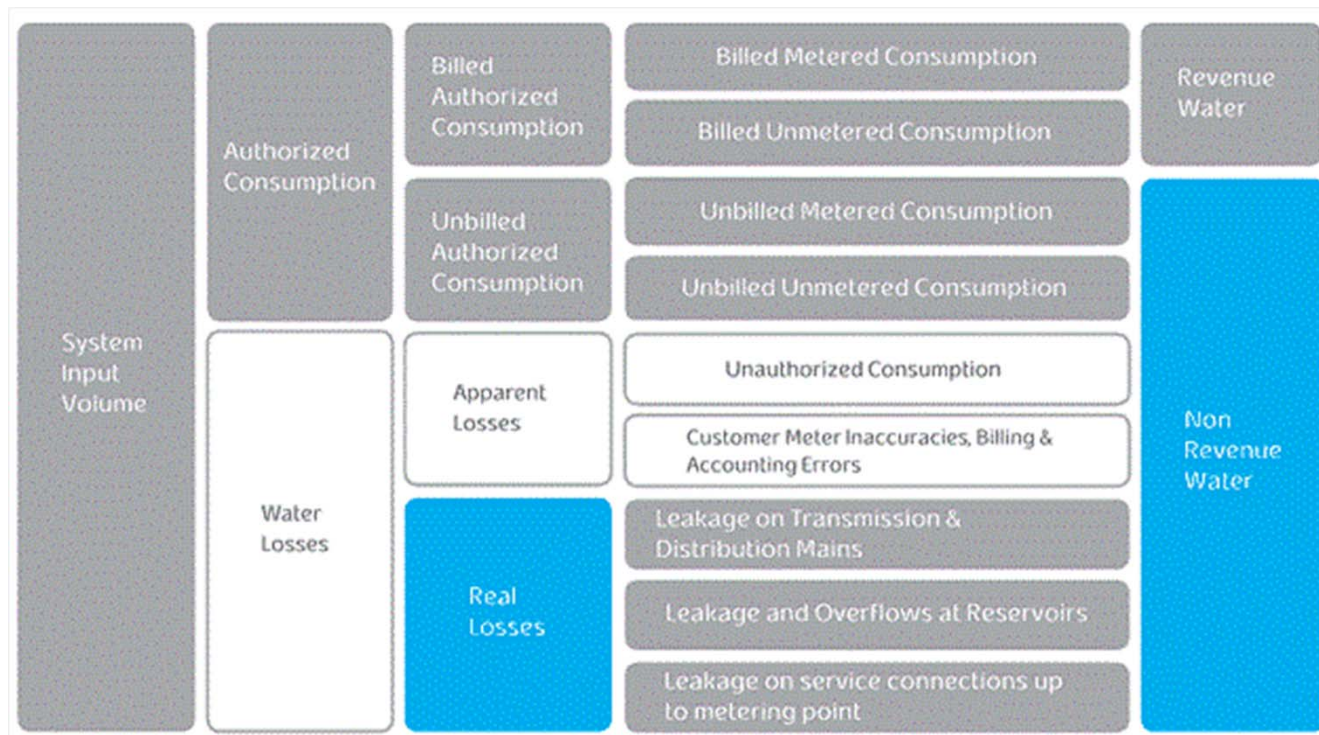


# Asset Management

- CMMS Project
  - Cultural
  - Technical
- Asset Management Plan Framework

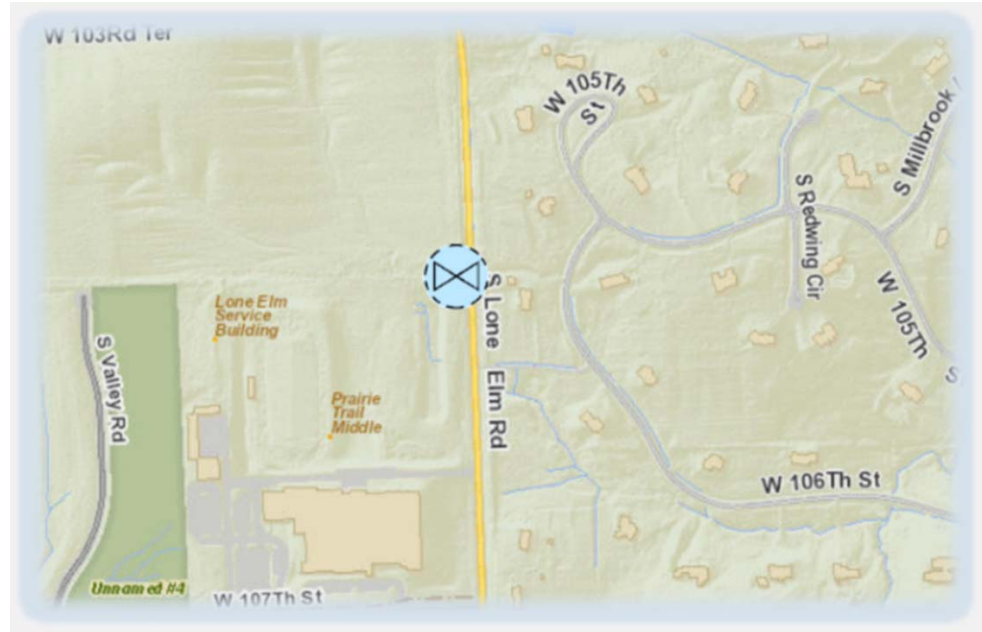


# AM---Non Revenue Water



# AM---Water - Interconnects

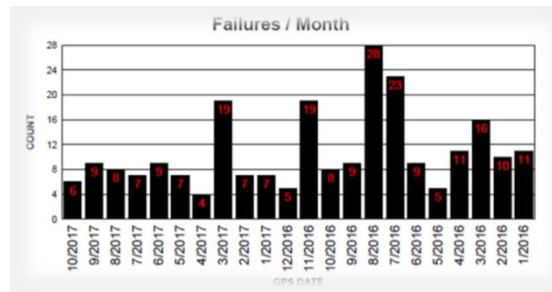
- Why?
- Assemble stakeholders.
- What we did.
- Benefits.





# AM---Water - Failures

- What we capture?
- Data consumption.
- Benefits.

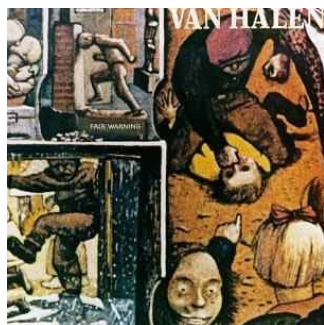
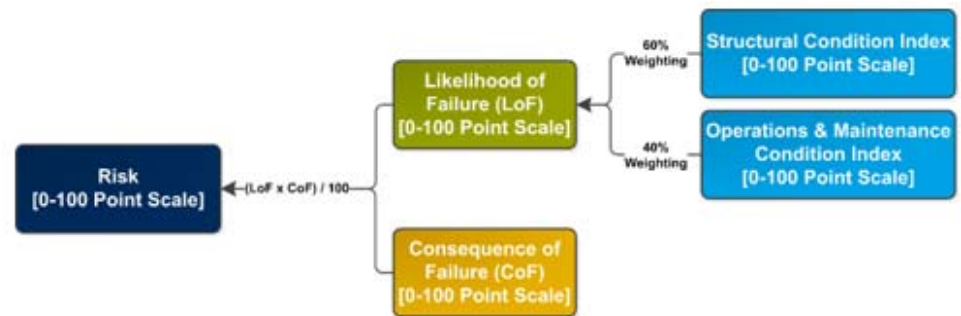


A screenshot of a "Failure Information" form. The form has a title bar with "Failure Information" and "ID: 735". The form is divided into "Attributes" and "Comments" sections. The "Attributes" section contains several dropdown menus and text boxes. The "Comments" section is a large text area. The "Attributes" section includes: Asset Type: Water Main (dropdown), Failure Type: Shear (dropdown), Failure Cause: Ground Shift (dropdown), Failure Location: (dropdown), Comments: (text area), Asset ID: 16512 (dropdown), Hydrant ID: (dropdown), Main ID: 29661 (dropdown), Valve ID: (dropdown). The bottom section includes: GPS Date: 08/12/2015 10:07, Address #: 16512 (dropdown), Last Modified: 10/30/2017 11:36, Route: W 133RD ST (dropdown), Entry Date: (text box).

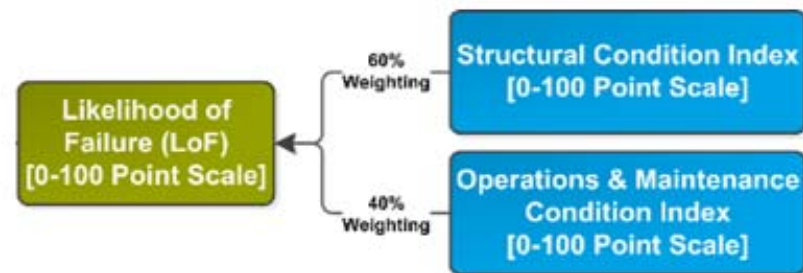
Attribute	Value
Asset Type	Water Main
Failure Type	Shear
Failure Cause	Ground Shift
Failure Location	
Comments	
Asset ID	16512
Hydrant ID	
Main ID	29661
Valve ID	
GPS Date	08/12/2015 10:07
Address #	16512
Last Modified	10/30/2017 11:36
Route	W 133RD ST
Entry Date	

# AM---Sewer Main OCI

- LoF---[CCTV Inspections](#)
- CoF---[GIS](#)
- INI---[Various](#)
- BRE



DEFECT SEVERITY	WEIGHTING
1	1
2	2
3	30
4	60
5	120

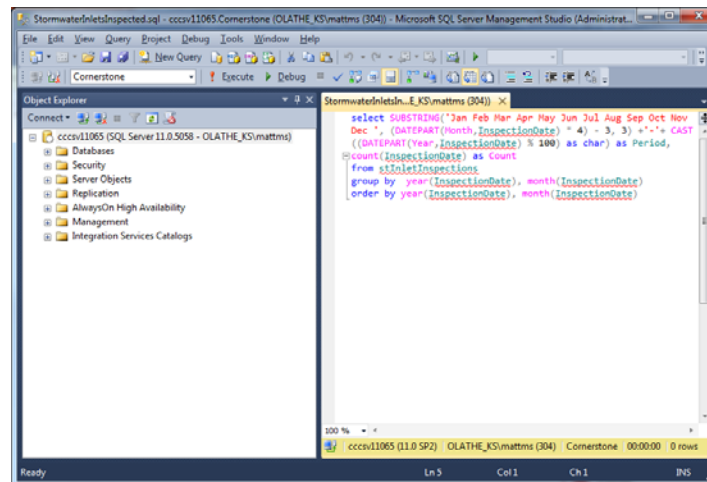


# AM---KPIs---Stormwater, Water, Streets

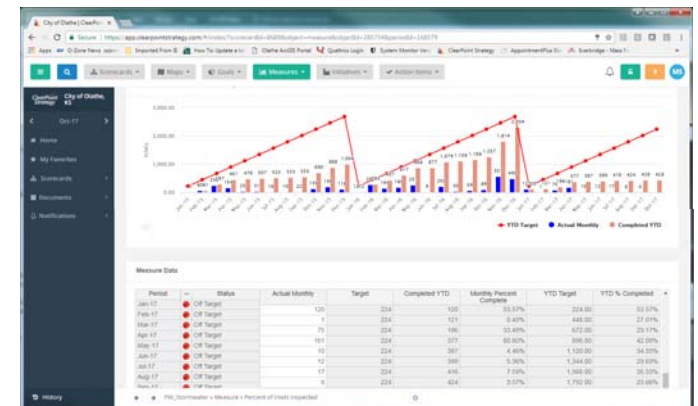
Collect



Aggregate



Report



# AM---Traffic

- [Traffic](#) (Signals, [Signs](#), [Street Lights](#), Markings, [Locators](#), [Counts](#))
  - Organized in CG –
  - Field Data Collection – trimble 6000 and Junos
  - KCPL Buyback - conversion of KCPL and audit data
  - How we chose to represent Markings
    - [Option1](#)
    - [Option2](#)
    - [Option3](#)

The screenshot displays a software interface for managing traffic signals. It is divided into several sections:

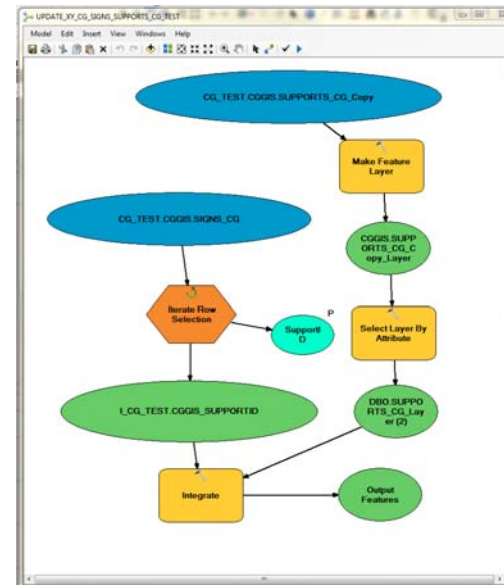
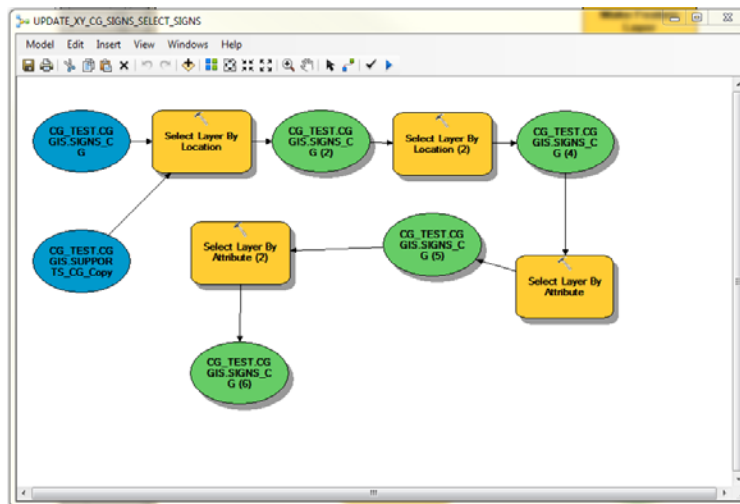
- Signal Group:** Shows details for a signal group with ID 1, Description '11th and Black Bob', Route '11th', and Intersecting Route 'Black Bob'. It also includes fields for Origin, Retired, and Complexity.
- Support Information:** A table listing various support items with columns for ID, Description, Type, Is Signal, Is Light Support, and Is Cap.
- Head Units:** A table listing head units with columns for ID, Description, Code, Unit Source, Support, Street ID, Direction, Visibility, Units, and File.
- Cabinet Information:** A table showing cabinet details with columns for ID, Jurisdiction, UTILITYPROVIDER, SUBTYPE, METERID, and ACCOUNTNUMBER. The current record is ID 1806, City of Olathe - Signals, KCPL, Single, 99821107.
- Controllers:** A table listing controllers with columns for ID, Description, Code, Master, Phases, Preset, Password, Phone Number, and Offset.
- Detectors:** A table listing detectors with columns for ID, Description, Code, Offset, Origin, Replace, Retired, Location, and Notes.

At the bottom, there are navigation buttons for 'Olathe Signa...', 'Signal Group', 'Signal Over', and 'Signal Group'.



# AM---Traffic

- Signs
  - Sign Integrate



# AM---Streets/Pavement

- Streets/Pavement

- Repairs (Failures)

- Pothole
    - Base Repair
    - Curb Repair
    - Level Patch
    - Transverse Crack
    - CREP(concrete re-elevation project)
    - Wide Crack

- OCl & Projections

- 10 years of projects to show impact of streets sales tax
    - Local, Collector and Arterial calcs

```
'Static dSum As Double
Dim sourceField
'adjust the source field name below
sourceField = [TodaySOCl]
'-----
If (sourceField >= 0 and sourceField <= 42.5) Then
dsum = sourceField - 0.5
ElseIf (sourceField > 42.5 and sourceField <= 50) Then
dsum = sourceField - 1
ElseIf (sourceField > 50 and sourceField <= 61.5) Then
dsum = sourceField - 1.5
ElseIf (sourceField > 61.5 and sourceField <= 67) Then
dsum = sourceField - 2
ElseIf (sourceField > 67 and sourceField <= 69) Then
dsum = sourceField - 3.5
ElseIf (sourceField > 69 and sourceField <= 76.5) Then
dsum = sourceField - 4
ElseIf (sourceField > 76.5 and sourceField <= 80.5) Then
dsum = sourceField - 3.5
ElseIf (sourceField > 80.5 and sourceField <= 84) Then
dsum = sourceField - 3
ElseIf (sourceField > 84 and sourceField <= 87) Then
dsum = sourceField - 2.5
ElseIf (sourceField > 87 and sourceField <= 91.5) Then
dsum = sourceField - 2
ElseIf (sourceField > 91.5 and sourceField <= 93.5) Then
dsum = sourceField - 1.5
ElseIf (sourceField > 93.5 and sourceField <= 98) Then
dsum = sourceField - 1
ElseIf (sourceField > 98 and sourceField <= 100) Then
dsum = sourceField - 0.5
Else
dsum = 0
End If

!

__esri_field_calculator_splitter__
dsum
```