City of Waukee – GIS Dept

Evan Koester – GIS Coordinator
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Introductions

- Evan Koester – Waukee GIS Coordinator
- City of Waukee for 1.5ish years
- ISU GIS Lab 2 previous years
- Iowa Geologic and Water Survey (DNR) 2 previous years

- How about you?
Waukee Facts:

- 17,077 (2013)
- 13,790 (2010)
- 5,126 (2000)
- 13.3 Sq Miles
Waukee Facts:

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- 13,790 (2010)
- 5,126 (2000)

- 13.3 Sq Miles
- Much of it is still empty
Users of Waukee GIS Data

- Water Dept.
- Streets Dept.
- GIS Dept.
- Wastewater Dept.
- Engineering Dept.
- Gas Dept. (Locator)
- Stormwater Dept.
- Other City Depts.
- Outside Entities (Several)
GIS is a Geographic Information System

- Remember the “S” or “System” part of GIS
- Geographic Information by itself is useful, but how much more useful is a GISystem than geographic information by itself?
GIS is a Geographic Information System

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Waukee GIS Prior to GIS Coordinator

- Hired contractor to create our infrastructure database
Waukee GIS Prior to GIS Coordinator

- GPS and attribute infrastructure
- Size of sanitary sewer main?
- Pipe material
- Installation date
- Source material
Waukee GIS Prior to GIS Coordinator

- Engineering Dept. would update GIS as errors were found or new structures were built.
- Engineering would print maps for other infrastructure maintenance.
- A few people in city would use ArcReader to view information.
Waukee GIS Prior to GIS Coordinator

- Water and gas dept. use handheld GPS’s with ArcPad to switch out utility meters
- Works but no automatic uploads/downloads, difficult to read, small screen, adding text is difficult, and the screen wears out.
Current Waukee GIS Uses

- GIS Dept. now collects all new infrastructure
  - New Subdivisions and errors
  - Road construction estimates
  - Updating/finding infrastructure
Current Waukee GIS Uses

- Water Department:
  - Hydrant flushing – we have ~1,100 hydrants that need regular flushing (also test gmp, flow psi, and static psi)
Current Waukee GIS Uses

- Water Department:
  - Hydrant flushing – we have ~1,100 hydrants that need regular flushing (also test gmp, flow psi, and static psi)
  - Valve exercising – we have ~ 2,500 valves that need to be exercised
  - Hydrant painting
  - Hydrant signage
Current Waukee GIS Uses

- Streets Department
  - Sign inventory
  - Monitor Street Pavement Patching
Current Waukee GIS Uses

- **Stormwater Department:**
  - We are required to regularly inspect all construction sites for stormwater regulation compliance
  - We are required to inspect all active subdivisions and submit quarterly reports
  - We are required to inspect all infrastructure every 5 years
Current Waukee GIS Uses
Current Waukee GIS Uses

- Wastewater Department
  - Sanitary Jetting
  - Sanitary Cameraing
Future Waukee GIS Uses

- How to record property easements?
- They are official property records recorded by county officials.
- Work with document management system?
Future Waukee GIS Uses

- 911 Response
- Defining a response location from an emergency call requires referenced addresses and address ranges
Future Waukee GIS Uses

- How we manage and give access to data?
Questions?