AUSTIN FIRE DEPARTMENT

Risk & Service Delivery Analysis

The Fire Risk and Service Delivery model was developed to measure life & property risks in conjunction with fire service delivery within City of Austin. The results show a need for additional stations based on the current risk and response times.

2016 Model Results

1. Travis Country area *(immediate need)*
2. Loop 360 area *(immediate need)*
3. Manchaca/Slaughter area *(area to watch)*
4. Goodnight Ranch area *(immediate need)*
5. Moore's Crossing area *(immediate need)*
6. Canyon Creek area *(immediate need)*

Immediate Need
Area has significant development, increased population, and response times which are substantially below AFD's goal of 8 mins (call receipt to onscene, 90%).

Area to Watch
Area has significant development, increased population, and response times which are substantially below AFD's goal of 8 mins (call receipt to onscene, 90%).

New fire stations in area have been funded and could impact response times positively. Will review after stations have been in place to determine if an additional station is needed.

Horizon Area
Area has development, increased population, and response times which are below AFD's goal of 8 mins (call receipt to onscene, 90%). If additional developement or population occur, area's ranking could increase.

Fire Zones *(1.5 mile/3 min response planning area)*
1 Final Model Ranking of Fire Zone
Current Fire Stations
Potential Fire Station Site

Model Method

1. **Filter all Fire Zones to include:**
   - Areas with only COA Full Purpose Jurisdiction
   - Exclude areas already serviced by an AFD station
2. **Data elements and weights for calculating COA risk***
   - % of Area Developed (25%)
   - Resident Population (25%)
   - Employee Population (13%)
   - Square footage of all property (37%)
3. **Filter Fire Zones to include those with above average COA risk scores**
4. **Risk/Service Delivery elements and weights for calculating Fire Zone ranks***
   - Response Times (45%)
   - Incident Volume (45%)
   - Homes at risk to Wildfires/Floods (10%)

**All data elements were standardized before combining into composite scores.*

Document Path: G:\Planning\GIS Files\ArcView Projects\Risk and Service Delivery Analysis Final 2016.mxd

Map and data compiled by the Austin Fire Department's Planning & Research Section. For general use only. February 2016