Marriage of the City of Dallas
CTP and CRS

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Jarred Overbey, P.E., CFM – Halff Associates
Jack Young, P.E., CFM – Halff Associates

April 2017

Agenda

History of Floodplain Management in Dallas

- 1965 – City adopts Stormwater Management Ordinance
- 1968 - Bachman Branch Stormwater Management Plan
- 1972 – Stricter Floodplain Management Ordinance
- 1972 – Joes Creek and Upper White Rock Creek FMP
- 1978 – FEMA FIS - Dallas County
- 1982 – FEMA FIS - City of Dallas
CRS Program Overview

- NFIP Community Rating System (CRS)
- Rating System
- Reduce Flood Insurance Premiums

CRS Credited Activities

- Public Information Activities (300 Series)
- Mapping and Regulations (400 Series)
- Flood Damage Reduction Activities (500 Series)
- Warning and Response (600 Series)

City of Dallas CRS Program

Table 116-1: CRS classes, credit points, and membership discount.

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<th>2,000-3,999</th>
<th>4,000-5,999</th>
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**FEMA Map Modernization**

- Nationwide
- 5-Year Plan began in 2004
- $1 Billion Budget

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**FEMA Map Mod – City of Dallas**

- Map Modernization began for Dallas County in 2004
- City of Dallas funded 130 stream miles of detailed studies from 2005-2008
- City of Dallas participates in the Map Needs Assessment Project to address remaining 250 stream miles of detailed studies

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**CTP Program Overview**

- Cooperating Technical Partners (CTP)
  
- FEMA program that partners FEMA with a NFIP state, regional, and local agencies to support funding for RiskMAP project
City of Dallas Becomes a FEMA Cooperating Technical Partner

Watershed Based Approach for Flood Mapping

City of Dallas CTP Multi-Year Risk MAP Plan Overview
NVUE Stream Mile Percentage

![NVUE Stream Mile Percentage Chart]

CTP Deliverables

- Detailed H&H Regulatory Studies
- Depth Grids
- Changes Since Last FIRM

CRS and CTP Bond Grows Stronger
City of Dallas CRS Program

<table>
<thead>
<tr>
<th>CRS Class</th>
<th>Credit Points (cT)</th>
<th>In SPFA</th>
<th>Outside SPFA</th>
<th>Premium Reduction</th>
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<td>0-499</td>
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</table>

CRS Class 4: 30% $910,000
CRS Class 5: 25% $758,000
CRS Class 6: 20% $607,000
CRS Class 7: 15% $455,000
CRS Class 8: 10% $303,000
CRS Class 9: 5% $152,000
CRS Class 10: 0% $0

Dallas Insurance Policies

City of Dallas Insurance Profile
Total Number of Policies: 4,160
Total value of Insured Property: $1,082,045,200
Total Insurance Premiums: $3,033,479

CRS Credited Activities

- Public Information Activities (300 Series)
- Mapping and Regulations (400 Series)
- Flood Damage Reduction Activities (500 Series)
- Warning and Response (600 Series)


**410 FLOODPLAIN MAPPING**

**OBJECT:** IMPROVE QUALITY OF MAPPING USED TO IDENTIFY AND REGULATE DEVELOPMENT

- New Study (NS)
- Leverage (LEV)
- State Review (SR)
- Higher Study Standards (HSS)
- More Restrictive Floodway Standard (FWS)
- Floodplain Mapping of Special Flood-Related Hazards (MAPSH)
- Cooperating Technical Partner (CTP)

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**Fruits of the Marriage**

CTP  CRS

- Reduced Flood Insurance Premiums
- Better Floodplain Management
- Updated Citywide Floodplain Data
Future of Relationship

- Continue CTP Program
- Develop Non-Regulatory Products such as AOMI to aid flood risk mitigation
- Study remaining 10% of streams
- Achieve a Class 4 CRS Rating

Questions?