No Adverse Impact Floodplain Management: Tools and Techniques to Reduce Flood Risk

Flood Resilience Workshop III:
Opportunities for Flood Hazard Mitigation and Climate Adaptation in the District
November 15, 2013
Association of State Floodplain Managers

Mission: Mitigate the losses, costs, and human suffering caused by flooding.

and

Protect the natural and beneficial functions of floodplains.

ASFPM Chapters

15,000 members

- 35 Chapters
- State Assoc. & Pending Chapters
Briefing Overview

No Adverse Impact Floodplain Management

NFIP Community Rating System

Sidebar: Reduce Legal Liabilities
So, who manages flood risk, anyway?

Federal Role
- National Flood Insurance Act
- FEMA, USACE, HUD, DOT, EPA & other federal agencies
- National Flood Insurance Program
- USACE Programs

State Role

Local Role

Private Sector

Personal Role
FLOODPLAIN MANAGEMENT: ROLES

• So, who manages flood risk, anyway?
• Federal Role
• State Role
  – State Floodplain Managers & Hazard Mitigation Officers
  – State Land Use Programs & Policies
  – State Emergency Management
  – Cooperating Technical Partners
• Local Role
• Private Sector
• Personal Role
So, who manages flood risk, anyway?

- Federal Role
- State Role
- Local Role
  - Development Standards & Review
  - Permitting & Codes Enforcement
  - Local Emergency Management Programs
  - Community Rating System
- Private Sector
- Personal Role
So, who manages flood risk, anyway?

Federal Role

State Role

Local Role

Private Sector
  – Raise awareness
  – Plan for business continuity and resilient workforce
  – Partner, participate, contribute

Personal Role
FLOODPLAIN MANAGEMENT: ROLES

• So, who manages flood risk, anyway?
• Federal Role
• State Role
• Local Role
• Private Sector
• Personal Role
  – Risks & Decisions
  – Information & Preparation
  – Responsibility & Expectations
- Hazard Identification
- Planning
- Regulations and Standards
- Mitigation Actions
- Infrastructure
- Emergency Services
- Education and Outreach
Incorporate Flood Mitigation in Local Planning
Raise Public Awareness
Form Partnerships to Support Floodplain Management
Limit or Restrict Development in Floodprone Areas
Adopt and Enforce Building Codes and Development Standards
Align Floodplain and Stormwater Planning and Management
Adopt Policies to Reduce Stormwater Runoff
• Update Community Hazard Mitigation Plan
  – Robust Flood Risk Assessment
  – Plan for gradual restoration of floodplains
• Remove and Prohibit Critical Facilities from Floodprone Areas
• Join NFIP Community Rating System
• Establish Local Funding Mechanisms for Flood Mitigation
• Conduct Regular Maintenance of Drainage Systems and Flood Control Structures
Local Planning & Regulations III (Sea-Level Rise)

- Map and Assess Vulnerability
  - Adopt the “Substantive Knowledge Standard”
- Manage Development in High-Risk Areas
  - New Development
  - Redevelopment
  - Infrastructure
- Tie Land Use Planning and Regulations to Public Safety
- Restore and Protect Natural Buffers
NAI Benefits

• Helps ensure the actions of any community or property owner do not adversely impact others/coastal resources

• Incorporates multi-objective-management and watershed planning principles
Benefits of NAI to your community:

- Reduce your flood losses and costs over time
- Reduce likelihood of your actions increasing flood damage to others
- Reduce challenges and lawsuits
Benefits of NAI to your community:

- Reduce flood insurance premiums through the Community Rating System
- Incorporate multiple objectives
- Protect natural resources and values of floodplains
• You are more likely to be successfully sued for permitting risky development than for preventing it.
• You are your community’s first and last line of defense against tomorrow’s flood disaster.
• NAI Steps:
  – Adopt higher standards tied to public safety and tailored to your community.
  – Identify ALL the Impacts of a Proposed Development.
  – Notify Potentially Impacted Property Owners and Communities of the Impacts of Any Proposed Development.
  – Mitigate Impacts.
Discounts on insurance premiums for strong local floodplain management

- Public Information
- Mapping and Regulations
- Flood Damage Reduction
- Flood Preparedness
### NFIP Community Rating System

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<th>CRS Class</th>
<th>Credit Points (cT)</th>
<th>Premium Reduction</th>
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<tr>
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<tr>
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</tr>
</tbody>
</table>

**Table 110-1. CRS classes, credit points, and premium discounts.**
Legal Approach to NAI

- Tie Standards (Ordinances, Permits, Plans & Processes) Directly to Public Safety
- On The Record
- Transparent & Consistent
  - Identify impacts of proposed development
  - Notify potentially affected parties; adjacent, downstream
  - Mitigate impacts
Today’s Choices Avoid or Create Tomorrow’s Disasters

If we continue to encourage at-risk development and ignore the impact to others, can we accept the consequences…

… and, are you willing to pay for it?