# Survey on RAP Use



### **Survey Results**

- >51 Responses (Including Ontario)
- ➤ Data as of Mid 2007
- > Dependent on Person Responding
- **➢ Good Baseline for ETG**

#### Questions

- >% RAP Allowed & Used
  - Mix Type
  - Plant Type
- > Special Requirements
- **≻ Major Obstacles** 
  - Specifications
  - Industry Use

#### Questions

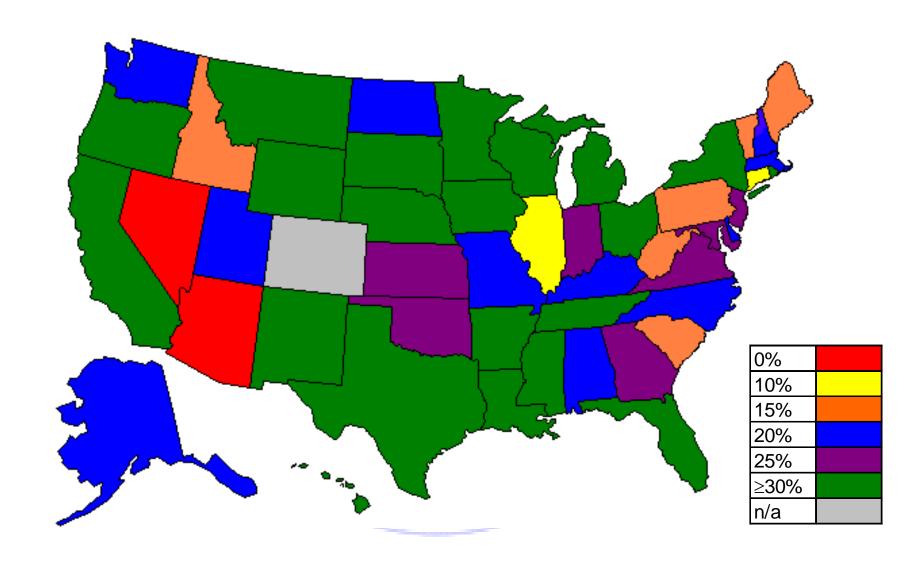
- > Research Needs
- >Experience with "High Percentage"
  Use
- >Ownership of RAP

# **Findings**

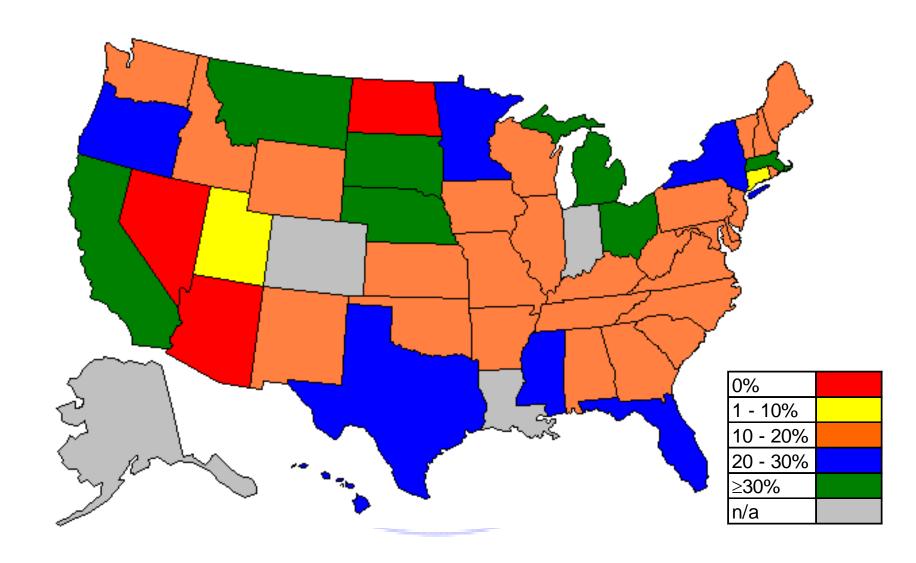
- ➤ Most States Allowed RAP use
- Most Specifications Limited Practical Use of Higher Percentages
- > Some Differences on Mix Type
- > Few Limits Based on Plant Type
  - Georgia
  - Hawaii
  - Massachusetts

- New Hampshire
- South Carolina

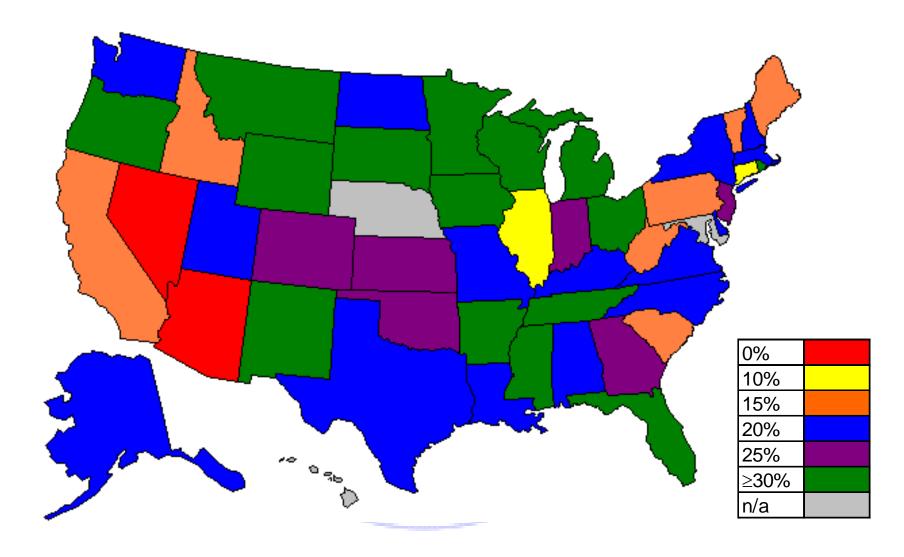
# **Base Mixes -- Specified**



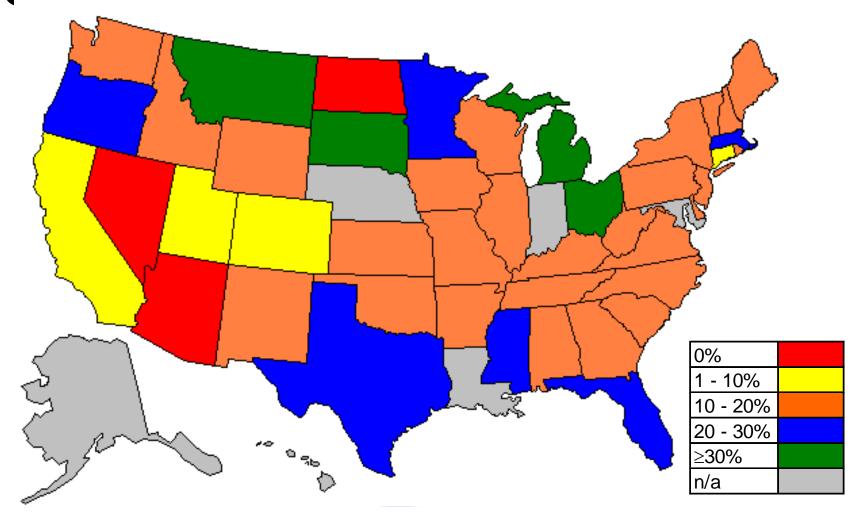
### **Base Mixes -- Average Use**



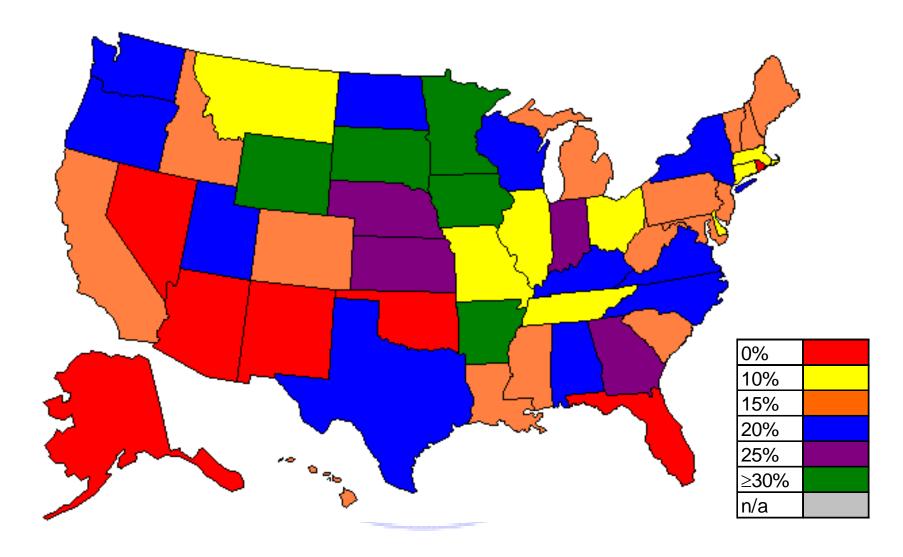
# Intermediate Mixes -- Specified



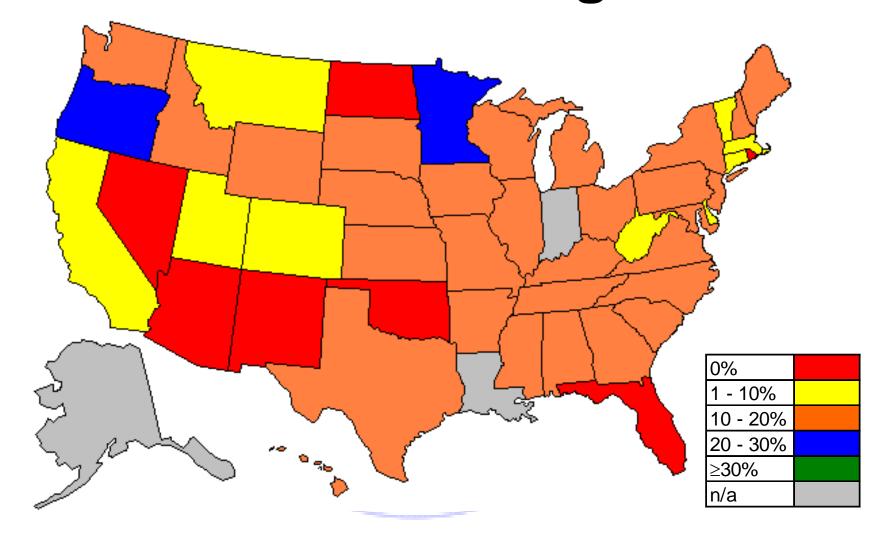
# Intermediate Mixes -- Average Use



# **Surface Mixes -- Specified**



## **Surface Mixes -- Average Use**



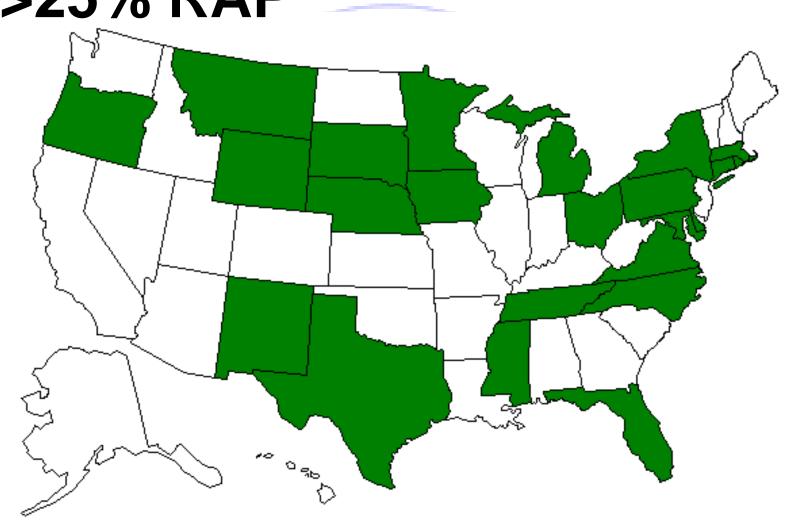
## **Specification Barriers**

- > Quality Concerns
- Consistency of RAP
- > Durability of Mixes
- ➤ Ability to Meet Volumetric Requirements
- > Stiffness of Binder
- **≻Use with Polymers** ►

#### **Industry Barriers**

- **≻**Control of RAP
- > Dust & Moisture
- >Increased QC
- > State Specifications

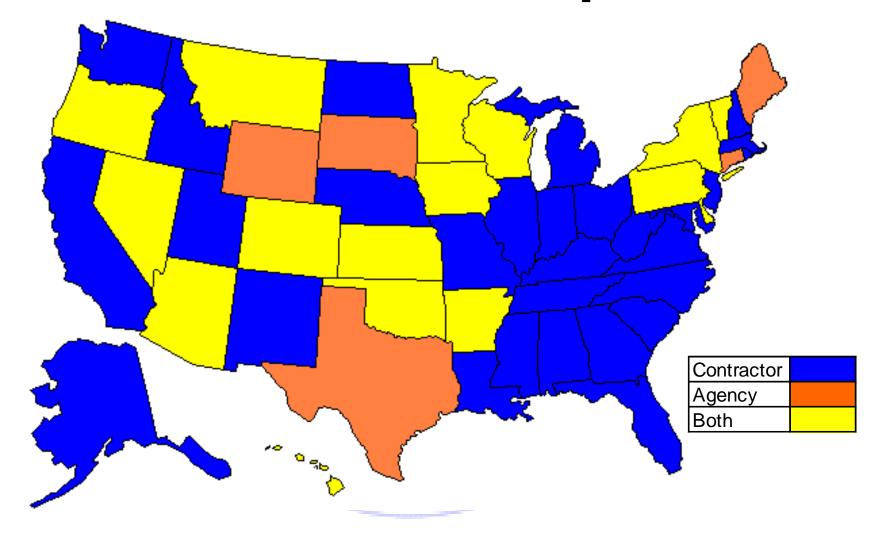
# Recent Experience Utilizing >25% RAP



## "High RAP" Experience

- > Limited Experience
- > Some Restrictions on Mix Type
  - Base Courses More Common
- > Responses Indicated Interest to Learn More

### Who Retains Ownership of RAP?



#### What's Next?

- **≻** Good Baseline
- > Identify Focus Areas
  - High Users
  - Target Areas
- >Another Survey Fall 2008?

