

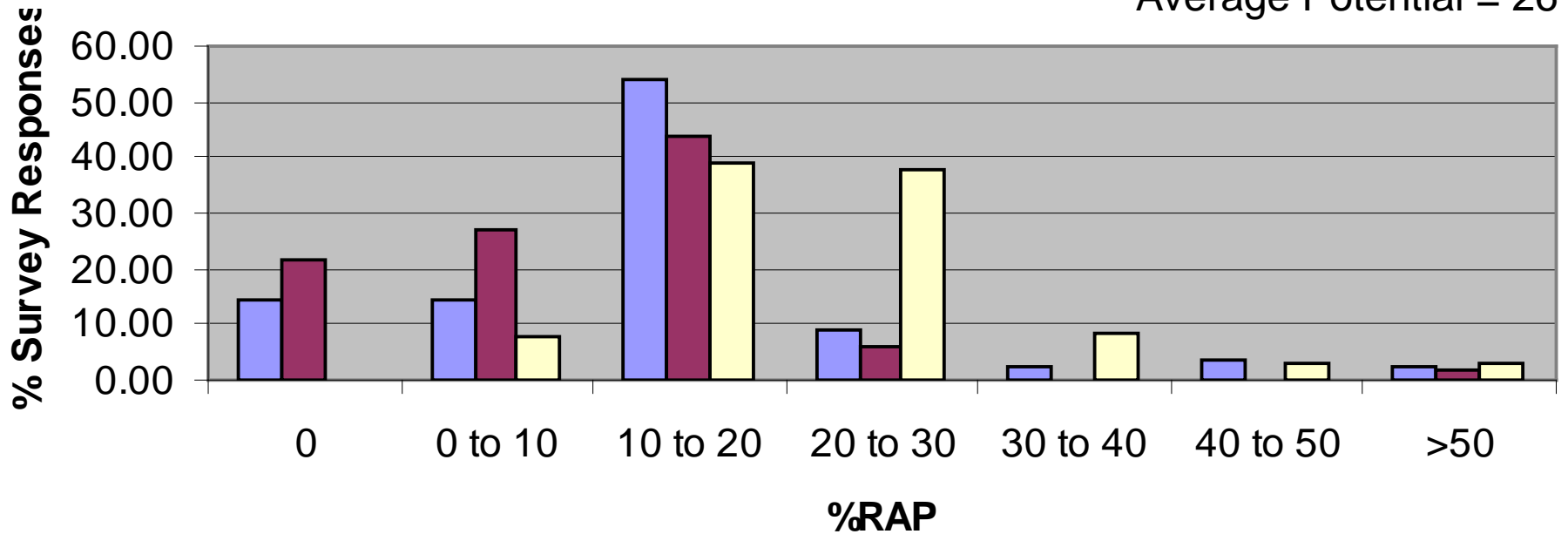
NAPA Survey of Contractors

- ~ 131 responses from all over.
- Objectives
 - Find extent of RAP usage
 - Find the roadblocks to usage



RAP in Surface Mixes

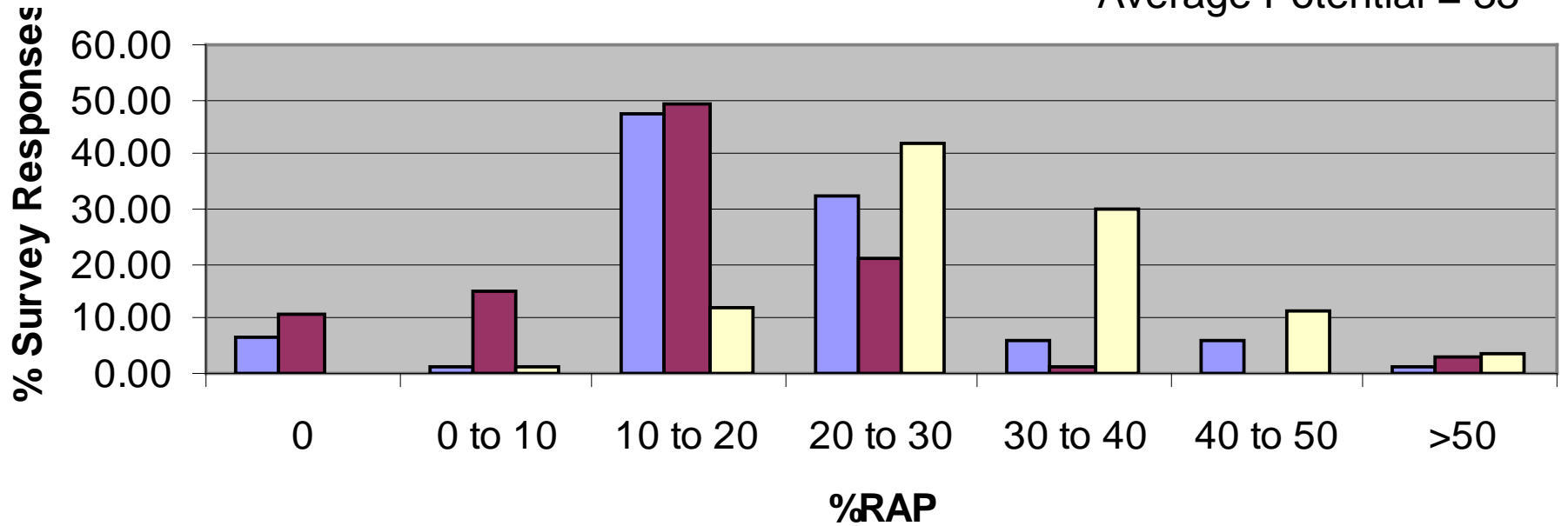
Average Allowed = 18
Average Used = 12
Average Potential = 26



■ %RAP Allowed ■ %RAP Used ■ Potential RAP Usage

RAP in Binder Mixes

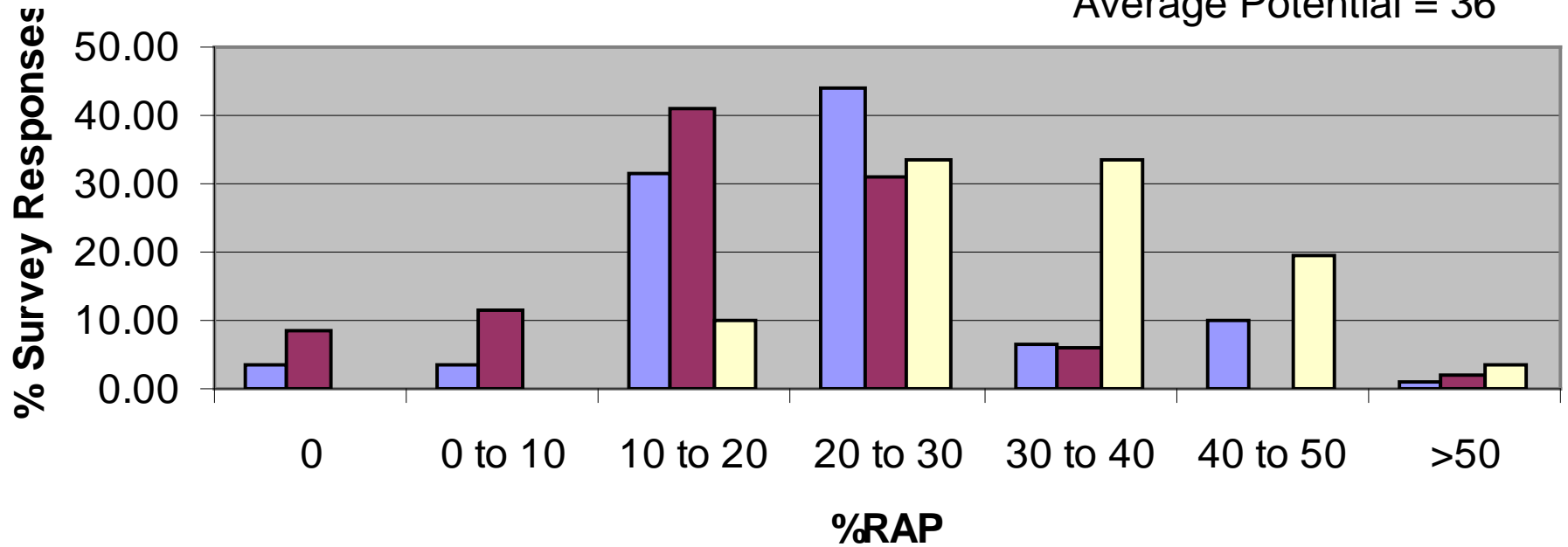
Average Allowed = 23
Average Used = 18
Average Potential = 33



■ %RAP Allowed ■ %RAP Used ■ Potential RAP Useage

RAP in Base Mixes

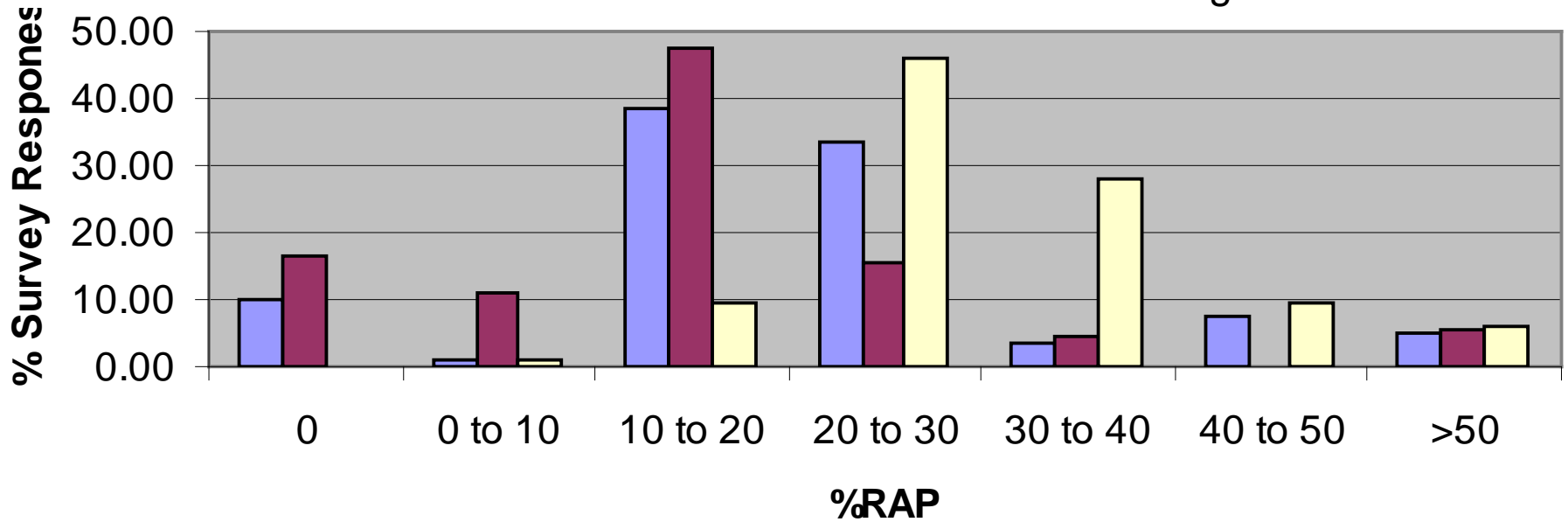
Average Allowed = 27
Average Used = 21
Average Potential = 36



■ %RAP Allowed ■ %RAP Used ■ Potential RAP Usage

RAP in Shoulder Mixes

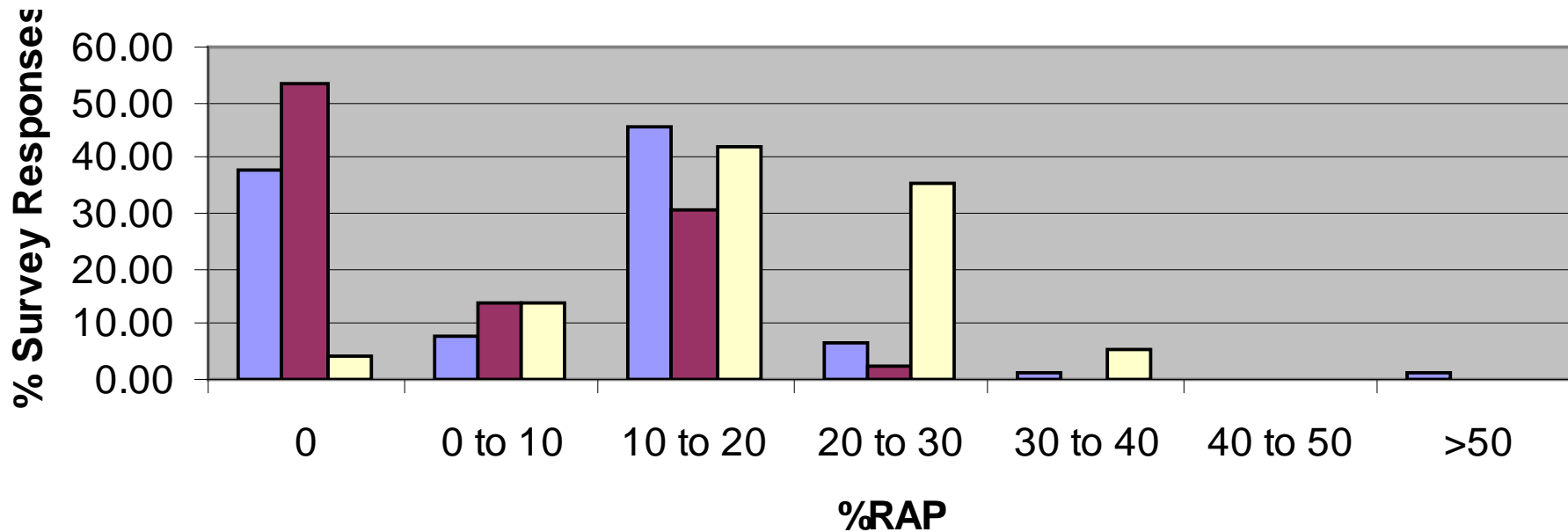
Average Allowed = 26
Average Used = 20
Average Potential = 36



■ %RAP Allowed ■ %RAP Used ■ Potential RAP Usage

Average Allowed = 12
Average Used = 6
Average Potential = 20

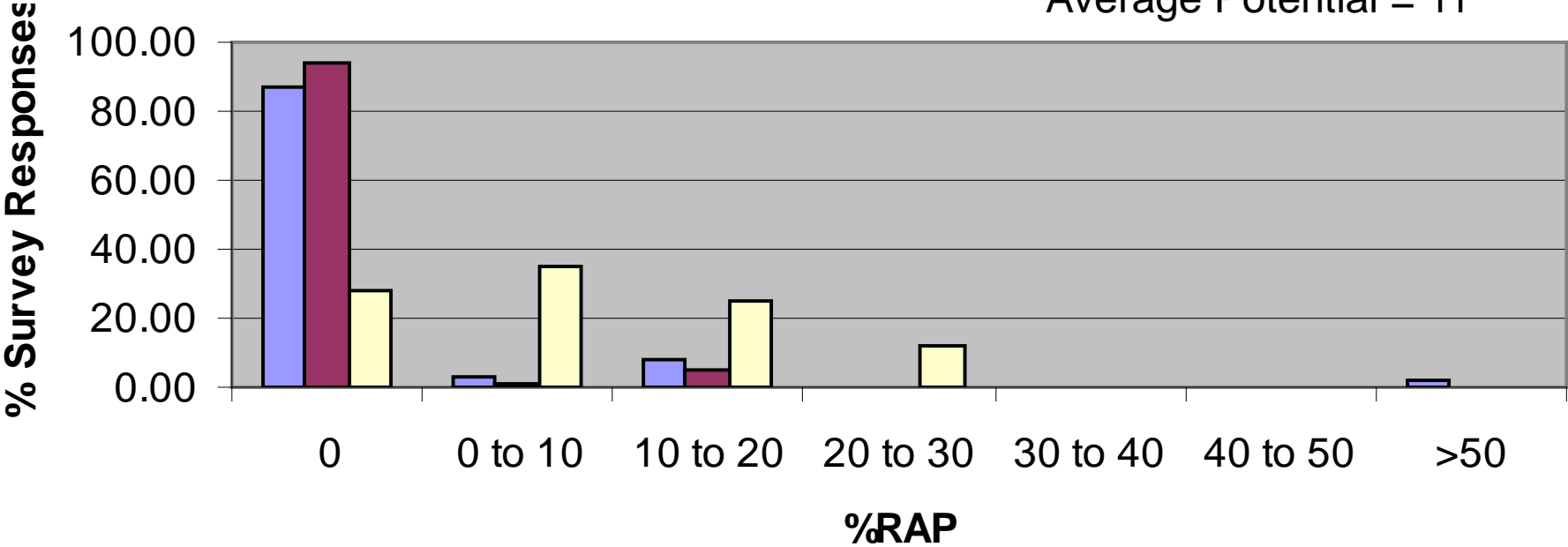
RAP in Polymer Modified Mixtures



■ %RAP Allowed ■ %RAP Used ■ Potential RAP Useage

RAP in SMA

Average Allowed = 3
Average Used = 1
Average Potential = 11



■ %RAP Allowed ■ %RAP Used ■ Potential RAP Usage

What is limiting RAP?

- Specification limits Superpave
- Specification limits surface
- Lack of knowledge by specifiers
- Specification limits PMA
- Binder Issues

The Survey Says. . .

- RAP availability an issue in some areas.
- In some cases Contractors can do more recycling under the existing specs. Need to consider how it's handled.
- Not much consistency between states on what's allowed.
- Contractors and agencies need to work together to get RAP percentages increased, especially in surface mixes.