

#### **PWL PROJECTS**

2 PROJECTS

 Controlled by INDOT's PWL Specification, developed by a joint committee of DOT,

FHWA, and Industry.

- (Before this spec we only dealt with FAA)

## **Project Information**

1 ½" Overlays, preceded by 1" mill

Placed a 9.5 mm Superpave surface



## **PWL Spec Information**

• Binder Content = 20%

• Air Voids = 35%

VMA = 10%

Core Density = 35%

#### **PWL Values**

 $\bullet$  AQL = 90

• RQL = <42



## Sampling

- 1 Sample per Sublot
  - 600 tons for Surface
  - 1000 tons for Intermediate and Base



5 Sublots per Lot

## **Plate Samples**

- Random location chosen by PE
- Samples taken from roadway
  - 2 Gyratory Pills
  - 1 Gmm
  - 1 Binder Content

Average/St. Dev. for the 5 Sublot Samples.

## **Density Samples**

Random Location chosen by PE

2 locations per Sublot

10 Roadway CORES per Lot.

Average/St. Dev. Of All 10 Cores.

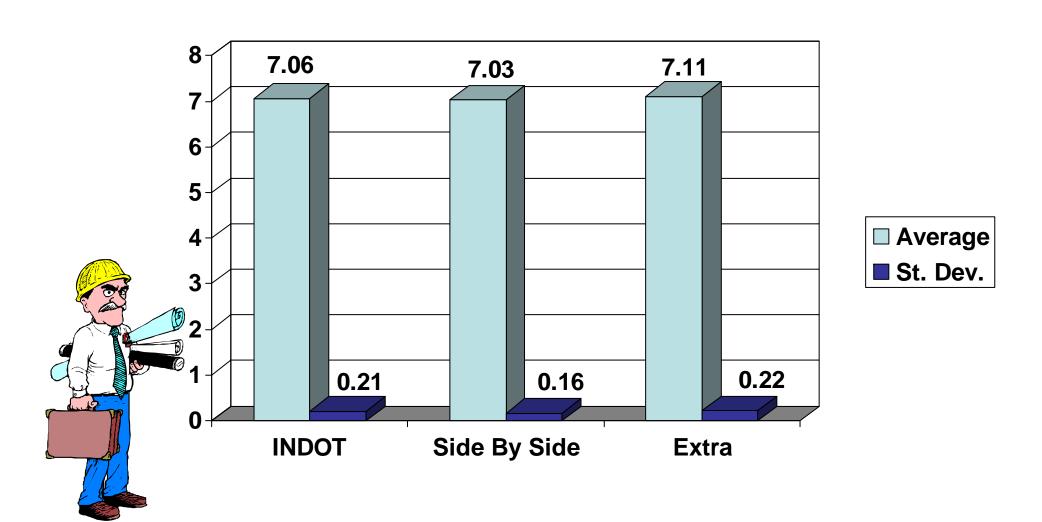
# 3 Sets of Samples (All From Road)

INDOT (Pay)

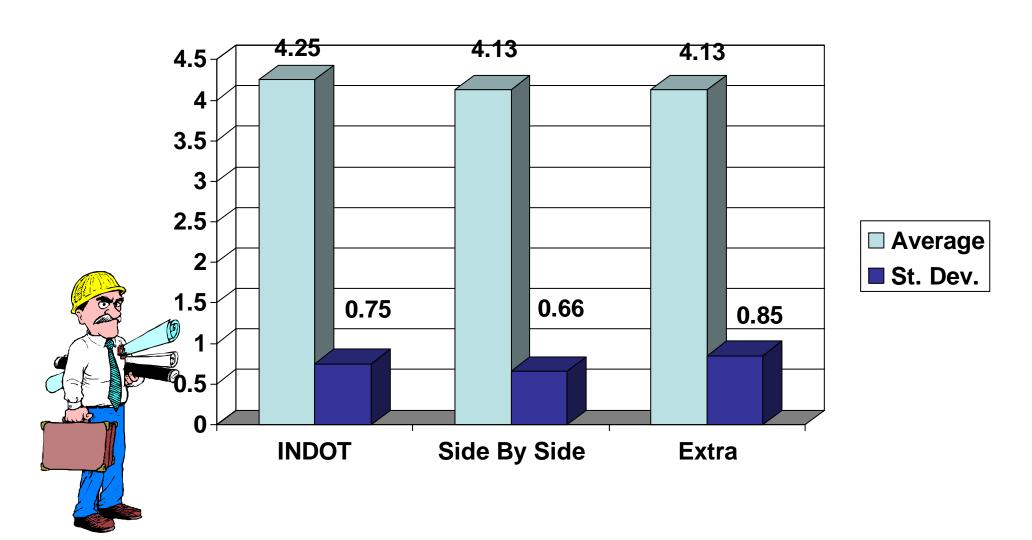
Milestone (QC)

"Extra" Sample, This sample is being used to develop verification tolerances for a later "Contractor Acceptance" specification. A different random location was used.

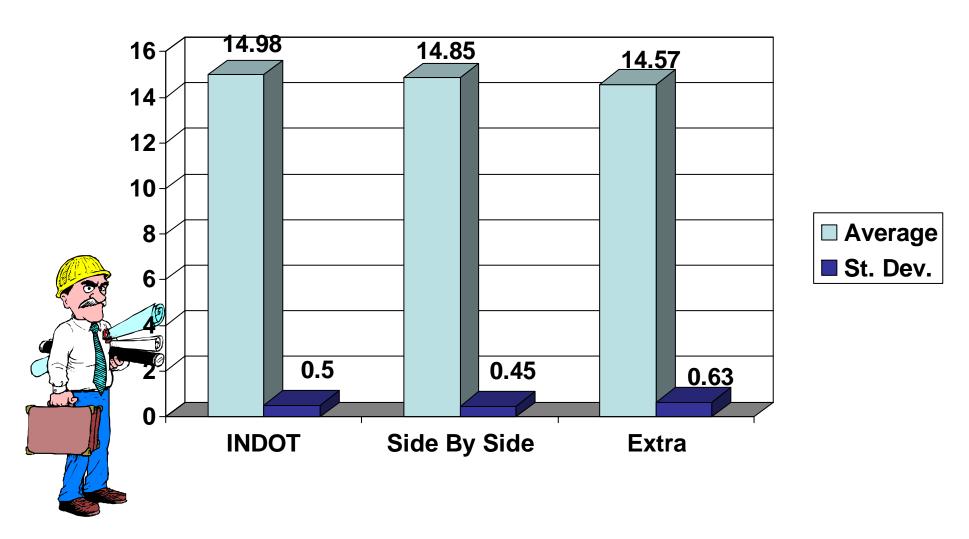
#### **US-31 Binder Content**



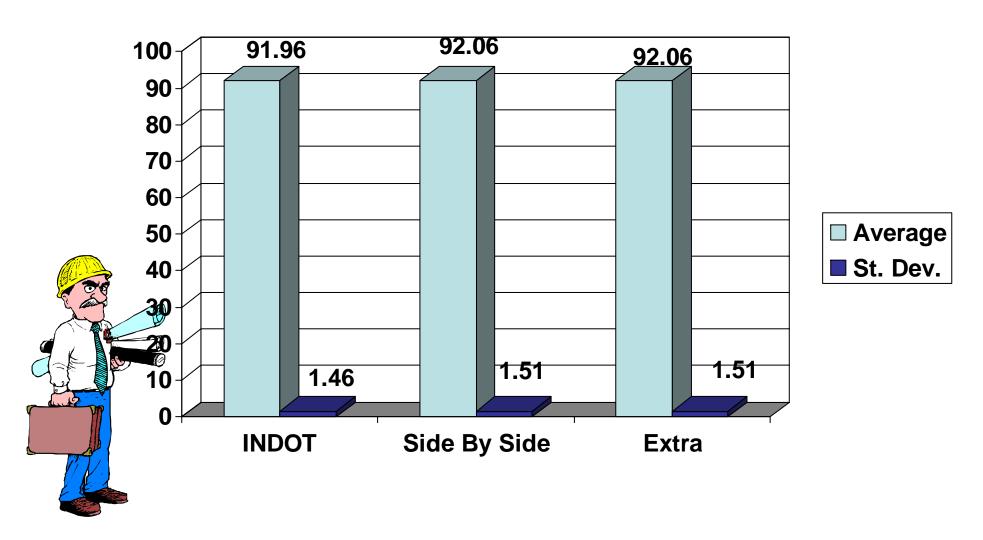
#### **US-31 Air Voids**



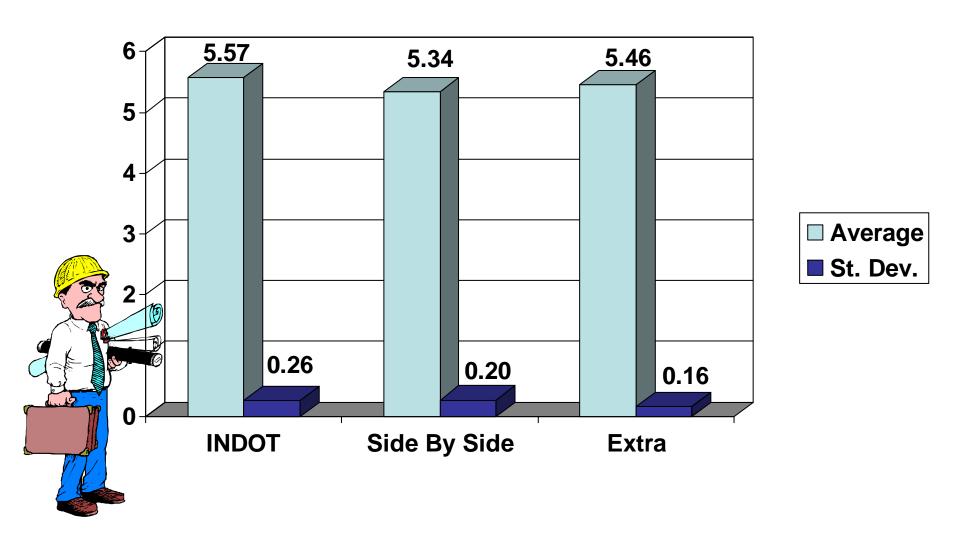
#### **US-31 VMA**



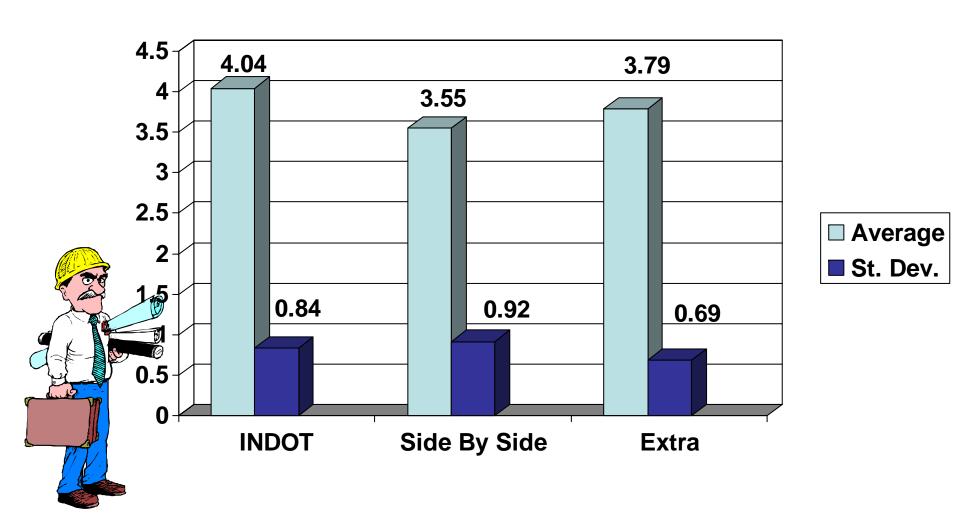
# **US-31 Density**



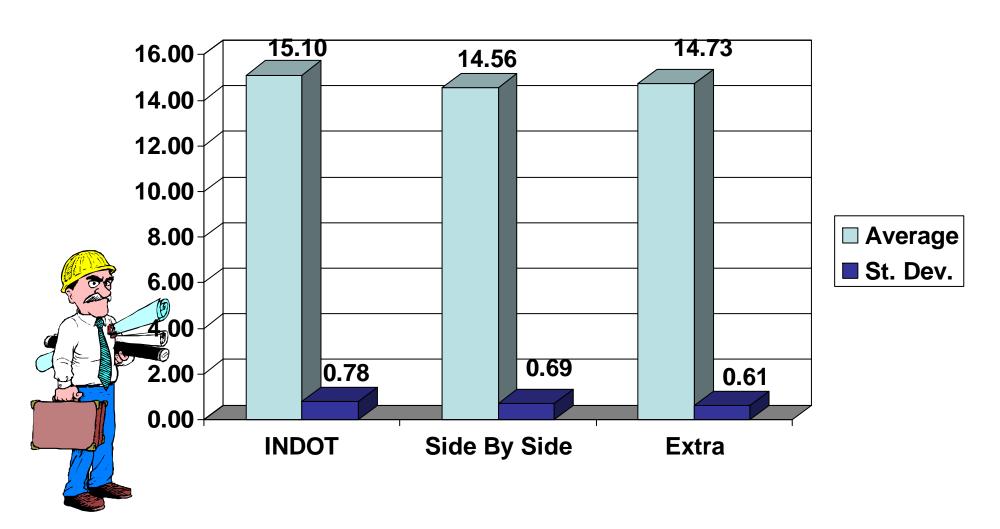
#### **US-35 Binder Content**



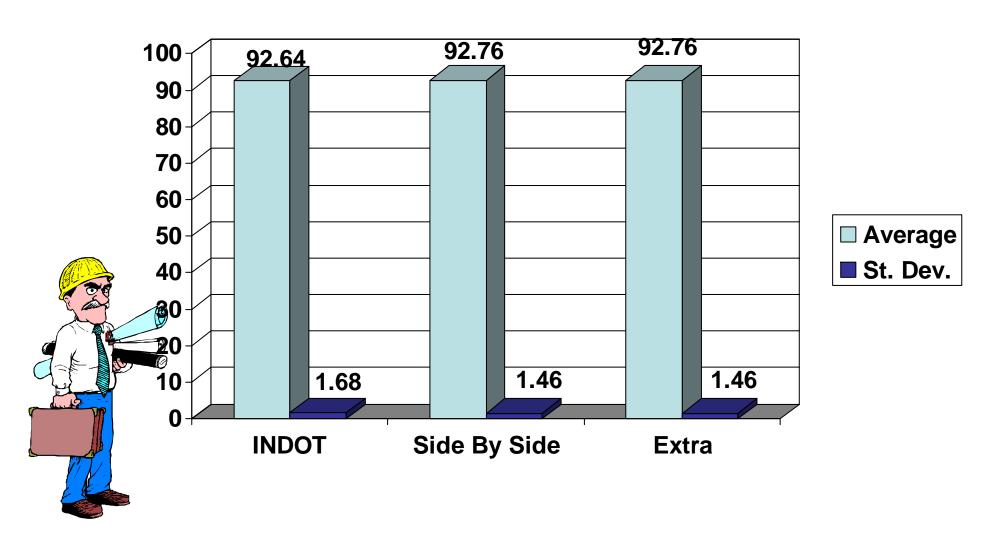
#### **US-35 Air Voids**



#### **US-35 VMA**



# **US-35** Density



### **Keys to Success Plant/Lab**

- Know what's in your Stockpile
- Produce HMA at consistent Temperatures
- Keep Plant Components in Calibration
  - Cold Feeds
  - Asphalt Pump/Meter
  - Belts
- Don't let your silo's run empty.
- Communicate with Paving crews

## **Keys to Success Paving Crew**

- Run Paver/MTD/rollers at steady consistent speeds
- Don't allow paver/MTD hopper to run empty
- Send a "Bad" load back to plant.
  - Good sampling procedures, IT'S YOUR PAY.
- Communicate with the HMA Plant

# Total Group Effort for Success

 ALWAYS PRODUCE PWL MIX PRIOR TO STARTING YOUR PROJECT

