

## **A New Method for Selecting Successful School Districts for Use in MAEP Base Student Cost Calculations**

**Under the Performance-Based Accreditation System, districts were assigned an accreditation level based on student performance and compliance with process standards.**

**Under the new Mississippi Statewide Accountability System, individual schools are assigned an Achievement Level based on student performance.**

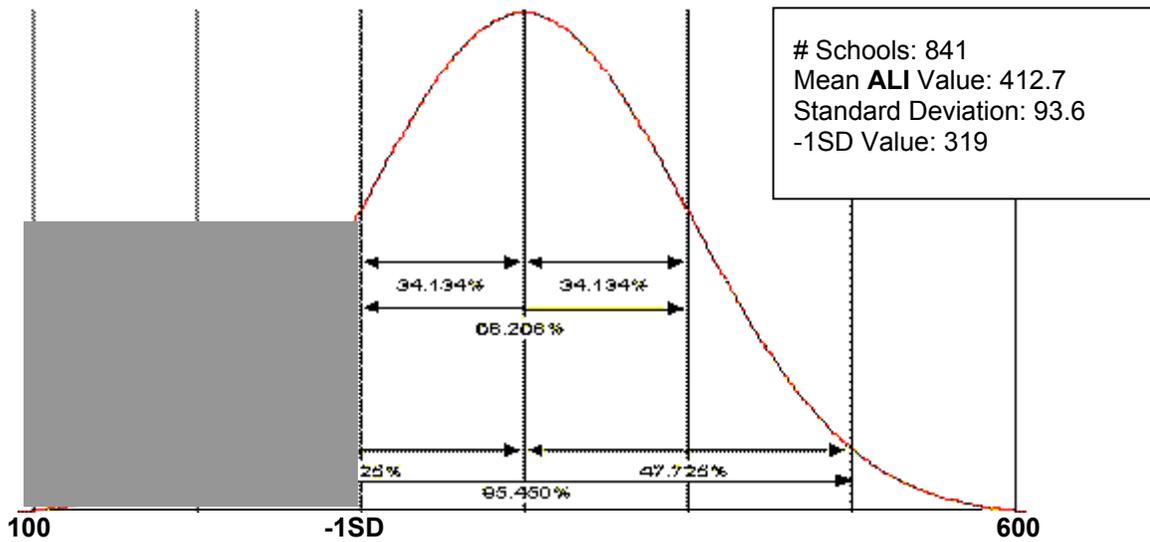
**The new method uses results from the school level Achievement Model to identify successful districts for use in MAEP base student cost calculations.**

### **Steps:**

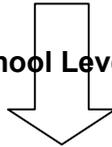
- 1. Convert each school achievement level to an Achievement Level Index (ALI) -- a scale from 100 to 600.**
- 2. Determine the mean and standard deviation for the distribution of school level ALI values.**
- 3. Average the school ALI values for each school district.**
- 4. Determine the mean and standard deviation for the distribution of district level average ALI values.**
- 5. Select all districts falling within  $-1SD$  and  $+1SD$  from the mean in the distribution of district level average ALI values.**
- 6. Delete any district selected in Step 5 if any school in the district falls below  $-1SD$  from the mean in the distribution of school level ALI values.**
- 7. Use the remaining districts in subsequent calculations related to base student cost.**



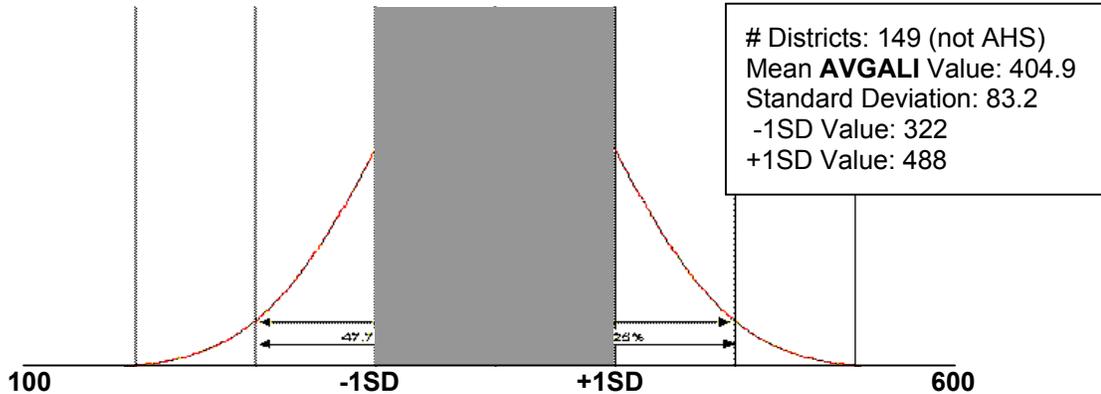
### Distribution of 2004 School ALI Values



Average the School Level ALI Values



### Distribution of District Average ALI Values



#### Old Successful District Selection Criterion:

- District is Level 3 on Performance-Based Accreditation System

#### New (Proposed) Successful District Selection Criteria:

- District average ALI value falls within  $-1SD$  and  $+1SD$  (in the AVGALI shaded area) AND
- The district has no school with an ALI value below  $-1SD$  (in the ALI shaded area)

**Results Using Data from the 2004 Achievement Model  
(Based on Student Performance during 2003/2004)**

**District selection range = AVGALI values between 322 (-1SD) and 488 (+1SD)**

**Expected percentage of values in the range -1SD to +1SD ~ 68%**

**Number of districts in the range = 98 of 149 (66%)**

**Districts in the above selection range with a school falling below 319 (-1SD)**

**There is no expected value for this statistic.**

**Number of selected districts with such a school = 30**

**Successful districts to be used in the next step (application of efficiency criteria)**

	98	districts in the selection range
minus	30	districts with a school in the exclusion range
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	68	districts

**68 Successful Districts**

**Go to the Next Step**