

Arkansas 2007-2008 School District Rankings

Arkansas Policy Foundation

August 2009

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Overview

The Arkansas Policy Foundation (APF) has provided letter-grade rankings of Arkansas school districts, beginning with the spring 2005 administration of the Iowa Test of Basic Skills (ITBS). For the 2007-2008 school year, the Arkansas Department of Education (ADE) began using the Stanford Achievement Test – 10th Edition (SAT-10). Both the ITBS and SAT-10 are norm-referenced tests that report scores in several formats. These include scaled scores, percentile ranks, and normal curve equivalent scores. Of these, percentile ranks are the easiest to interpret, and they have been the choice for publication by ADE.

Percentile ranks do not lend themselves to direct statistical analysis (Glass & Hopkins, 1996). In previous district letter-grade rankings by APF, Dr. Mark Witkowski stated that percentile ranks were derived from the more statistically appropriate scaled scores, and based his analyses on these scaled scores from the ITBS (Arkansas Policy Foundation, 2006, 2007, 2008). Unfortunately, the scaled scores from the ITBS and SAT-10 are not directly comparable as they are represented in different units. If, in the future, ADE reverts to using ITBS or chooses another norm-referenced test, comparisons of different scoring systems would be as awkward as making comparisons between physical measurements based on English or metric systems. The task is not impossible, just inconvenient.

Just as scaled scores can be converted to percentile ranks, those percentile ranks can be converted to any arbitrary system of (normalized) scaled scores for statistical analysis. The choice in this report was to convert percentile ranks to T-scores, a common standard score based on a normal distribution with a mean of 50 and a standard deviation of 10 points. Regardless of which norm-referenced test ADE should choose to adopt, conversion of percentile ranks to T-scores will provide consistency in interpretation over time.

Dr. Witkowski's reports assigned letter grades to districts based on 9th-grade scores on the math and verbal subtests of the ITBS, and on total (math + verbal) subtest scores. Scores on the mathematics (math) and reading comprehension (reading) portions of the SAT-10 for 9th grade scores are the basis for this report.

In addition to these measures, an attempt has been made to consider economic and social factors outside of a school district's control. The approach has some similarities to one taken in 2006 by Jay P. Green and his associates at the University of Arkansas Department of Education Reform (Green, Barnett, Ritter, & Winters, 2006). They considered "school and district factors" such as ethnicity, poverty (percent free or reduced lunch), enrollments, median family income, percent of adults with high school and college diplomas, percent of families with school-age children who are married, and per-pupil expenditures. Multiple regression was used to determine the

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relationship between these factors and scores on the ITBS and Grade 11 End-of-Course examinations, and this relationship was then used to predict test performance based on school and district factors. A “School Performance Index” (SPI) of 100 was assigned where actual performance and predicted performance were the same. Discrepancies between actual and predicted performance would result in lower or higher SPIs.

There are some statistical issues that create limitations for the SPI. First, percentile ranks on examinations were used as indicators of school or district performance. As has already been mentioned, standard scores are preferable to percentile ranks for statistical analysis. Perhaps more important is that many of the school and district factors (e.g., poverty and median family income) are practically redundant. The presence of redundant predictors is a problem for multiple regression known as “multicollinearity”, and tends to make the final model unstable (Tabachnick & Fidell, 2007). Despite these problems, the use of numerous demographic factors to predict school performance is quite common in the literature (e.g., Coleman et al., 1966, Sutton & Soderstrom, 1999).

If the intent is to measure school performance in the face of demographic and economic factors that could affect that performance, a simpler approach might be possible. The analysis presented in this report used SAT-10 performance in the first grade as a measure of factors that are largely external to the district. The assumption was that the relative contribution of external factors rather than pedagogy is greatest at the earliest grade levels. Therefore, 1st-grade performance could be used as a single indicator of the advantages and disadvantages that exist outside of the school setting, and that are present simultaneously at other grade levels. Although this approach of predicting district high-school performance on standardized tests from concurrent performance at early grades is novel, longitudinal research has demonstrated that performance at early grades is predictive of high-school dropout rates (Ensminger & Slusarcick, 1992) for at-risk students.

Details of the method used in this report to assign letter grades to districts are provided below, but can be summarized as follows:

- 1st and 9th-grade national percentile ranks on SAT-10 math and reading were converted to state-normed T-scores;
- Math and reading letter grades were assigned based on state T-scores at the 9th grade;
- “Adjustment” letter grades were assigned based on the discrepancy between actual 9th-grade scores and what would be predicted given external characteristics measured by 1st-grade scores;
- Overall letter grades were based on the average of 9th-grade math, 9th-grade reading, and adjustment letter grades.

Methodology for District Rankings

Conversion of National Percentile Ranks to State Standard Scores (T-scores)

National percentile ranks for each district’s SAT-10 reading and math scores at the 1st and 9th-grades were converted to standard scores, reported with a mean of 50 and a standard deviation of

10 points (national T-scores). For example, on 9th-grade math, the Star City School District scored at the national 70th percentile. This corresponds to a national T-score of 55.24.

The mean national T-scores for the state's districts and the corresponding standard deviations are as follows:

	1st-grade		9th-grade	
	Math	Reading	Math	Reading
Mean	49.72	47.96	52.86	49.29
Standard Deviation	3.45	3.53	2.49	3.10

The purpose of this report is to compare school districts within Arkansas which, as is reflected in the standard deviations being well below 10, is a more homogenous group than districts from across the nation. For this reason, the T-scores based on national norms were converted to T-scores for the state. From the Star City School District example, the 9th-grade math T-score based on the district's national percentile rank was 55.24. Although more than 5 points above the national average of 50, it is less than 3 points above the state average of 52.86. However, given the smaller state standard deviation, the corresponding state T-score was 59.57.

State Percentile Ranks and Letter Grades for 9th-Grade Math and Reading

To provide some consistency between this report and reports from previous years provided by Witkowski, the following cutoffs were adopted, based on normal distribution percentiles.

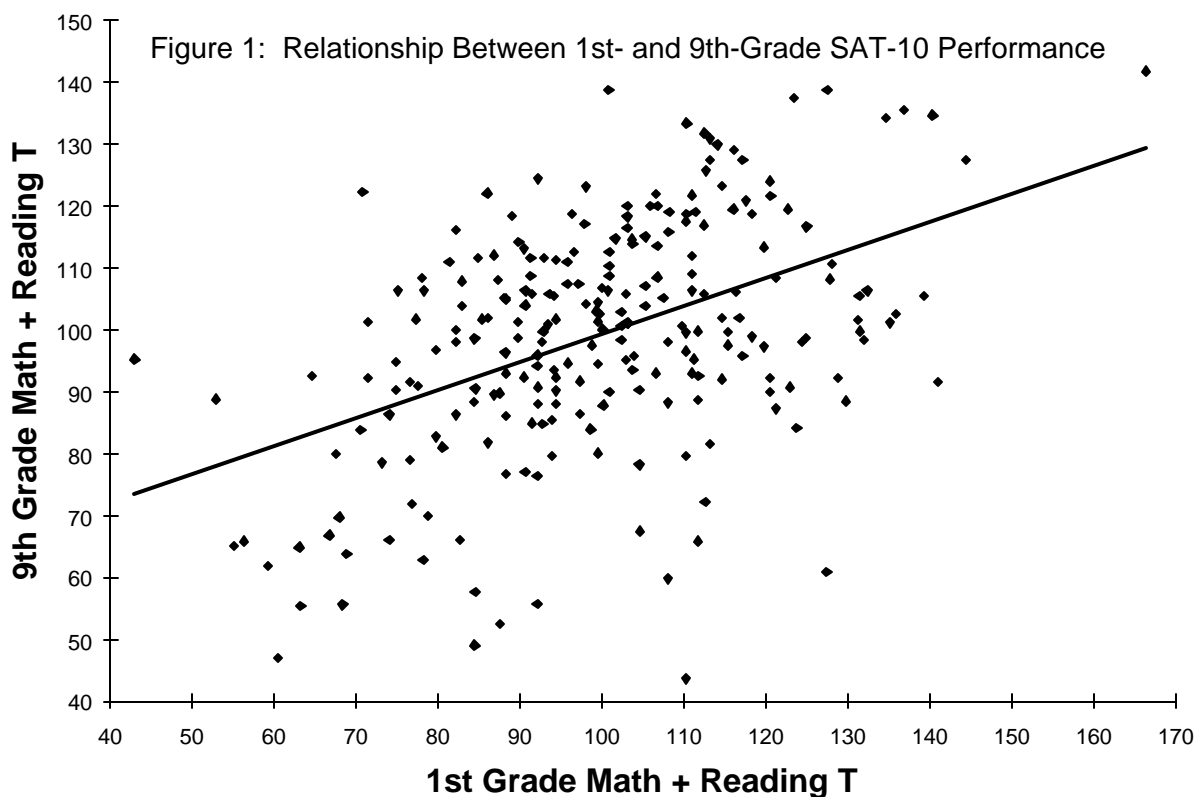
Letter Grade	Minimum Percentile	Minimum State T-score
A	90th	62.81
B	65th	54.85
C	20th	41.58
D	5th	33.55

T-scores below 33.55 indicated a grade of "F." With a T-score of 59.57 in math, Star City School District was assigned a "B" letter grade in math.

Adjustment for External District Characteristics

A number of social and economic characteristics of a district are external to those qualities of the educational program offered by the district that affect student achievement. Rather than attempt to enumerate and provide measures of all of these characteristics, it would seem that the most obvious indicator of a district's challenges (or advantages) would be the preparedness of its youngest students for education. In this report, performance on the SAT-10 at the 1st-grade was chosen to reflect this preparedness. It should be recognized that this use of 1st-grade scores is not meant to resemble a longitudinal analysis, or a measure of growth from 1st to 9th grade. It is simply a measure of external characteristics that could presumably be related to performance at all grade levels.

For each district, the state T-scores for 1st-grade math and reading were summed, as were those for 9th-grade math and reading. Using standard (ordinary least-squares) two-variable regression, these summed scores for the 244 districts that reported 1st and 9th-grade results were used to fit a model that predicted a district's 9th-grade total from the 1st-grade total. A scatter plot showing the relationship between the 1st and 9th-grade totals is presented in Figure 1. The correlation between these totals was moderate ($r = 0.46$), indicating that about 21% of the variation in 9th-grade scores was related to 1st-grade scores.



. The prediction for a district's 9th-grade score given its 1st-grade score can be expressed as:

$$\text{9th-grade predicted total} = (0.45)(\text{1st-grade total}) + 54.33.$$

For Star City School District, the total math and reading state T-scores at the 1st-grade was 96.49, so the predicted 9th-grade total was $(0.45)(96.49) + 54.33$, or 97.75. The actual 9th-grade total was 112.68, or 14.93 points above what was predicted.

Some districts performed better than predicted at the 9th-grade, and some performed worse. The discrepancies between the predicted and actual 9th-grade totals (residuals) were standardized as "adjustment" T-scores. Using the same cutoffs as for 9th-grade reading and math, these T-scores were used to assign adjustment letter grades. Star City School District's adjustment T-score was 59.00, which translates to an adjustment letter grade of B.

Adjustment letter grades could not be determined for six districts that did not report 1st-grade SAT-10 scores. These were five charter schools that did not serve 1st-grade students, and Shirley School District.

Overall District Letter Grades

Using a standard 4-point scale, with an “F” being a 0 and “A” being a 4, the averages of the 9th-grade math, 9th-grade reading, and adjustment grades were used to assign overall letter grades.

Numeric Average	Overall Letter Grade	Number of Districts
4.00	A	9
3.67	A-	8
3.33	B+	10
3.00	B	33
2.67	B-	29
2.33	C+	34
2.00	C	58
1.67	C-	25
1.33	D+	7
1	D	8
.67	D-	8
.33	D-	6
0	F	9

Star City School District received math, reading, and adjustment letter grades of B, C, and B respectively. With a numeric average of 2.67, the district’s overall letter grade was a B-. Letter grades for all 250 evaluated school districts are provided in Table 1. Details of math, reading, and adjustment letter grade assignments, by district, are provided in an appendix to this report.

Table 1: Arkansas School District Rankings Based on Analysis of 2007-2008 SAT-10 Results

Letter grades were based on comparisons of Arkansas schools using normal equivalents (T-scores) of 9th-grade Reading & Math scores, and on an adjustment to those scores based on 1st-grade performance.

Districts with "A" Grades

Rank	District	T-Scores			Letter Grades			
		Math	Reading	Adjustment	Math	Reading	Adjustment	Overall
1	LAKE HAMILTON	70	69	74	A	A	A	A
2	BENTONVILLE	70	69	66	A	A	A	A
3	POTTSVILLE	64	73	67	A	A	A	A
4	FAYETTEVILLE	67	66	68	A	A	A	A
5	CONWAY	64	67	66	A	A	A	A
6	LAKESIDE (Garland Co.)	64	66	65	A	A	A	A
7	MENA	64	66	65	A	A	A	A
8	BRYANT	64	65	64	A	A	A	A
9	SEARCY	64	63	63	A	A	A	A
10	SCRANTON	75	66	58	A	A	B	A-
11	VALLEY VIEW	68	67	62	A	A	B	A-
12	SALEM	67	67	62	A	A	B	A-
13	GREENWOOD	68	66	60	A	A	B	A-
14	MOUNTAINBURG	64	58	72	A	B	A	A-
15	DARDANELLE	63	61	67	A	B	A	A-
16	BISMARCK	58	65	65	B	A	A	A-
17	PARKERS CHAPEL	64	63	55	A	A	B	A-

Districts with "B" Grades

Rank	District	T-Scores			Letter Grades			
		Math	Reading	Adjustment	Math	Reading	Adjustment	Overall
18	BENTON	67	60	62	A	B	B	B+
19	ARMOREL	61	61	68	B	B	A	B+
20	GREENBRIER	64	61	62	A	B	B	B+
21	VILONIA	57	65	62	B	A	B	B+
22	HARRISON	58	66	59	B	A	B	B+
23	BATESVILLE	56	62	64	B	B	A	B+
24	NORFORK	56	66	61	B	A	B	B+
25	GRAVETTE	57	59	65	B	B	A	B+
26	SHERIDAN	64	55	60	A	B	B	B+
27	BERGMAN	63	56	57	A	B	B	B+
28	MOUNTAIN VIEW	62	61	60	B	B	B	B
29	MOUNTAIN HOME	60	60	62	B	B	B	B
30	PERRYVILLE	61	58	63	B	B	B	B
31	FARMINGTON	60	60	61	B	B	B	B
32	ROGERS	60	60	61	B	B	B	B
33	ARKADELPHIA	62	60	58	B	B	B	B

Districts with "B" Grades (continued)

Rank	District	T-Scores			Letter Grades			
		Math	Reading	Adjustment	Math	Reading	Adjustment	Overall
34	VALLEY SPRINGS	60	61	58	B	B	B	B
35	MCCRORY	62	56	61	B	B	B	B
36	SILOAM SPRINGS	61	56	61	B	B	B	B
37	JESSIEVILLE	62	57	59	B	B	B	B
38	WHITE HALL	57	60	61	B	B	B	B
39	HEBER SPRINGS	61	58	59	B	B	B	B
40	WONDERVIEW	61	62	55	B	B	B	B
41	PARIS	61	59	58	B	B	B	B
42	CABOT	58	58	59	B	B	B	B
43	CADDO HILLS	60	58	58	B	B	B	B
44	GREENE COUNTY TECH	61	59	56	B	B	B	B
45	BOONEVILLE	57	60	57	B	B	B	B
46	IZARD COUNTY CONS.	55	58	61	B	B	B	B
47	HUNTSVILLE	62	54	58	B	B	B	B
48	PEA RIDGE	55	60	59	B	B	B	B
49	BEEBE	60	56	58	B	B	B	B
50	MOUNTAIN PINE	56	55	62	B	B	B	B
51	EMERSON-TAYLOR	61	54	58	B	B	B	B
52	NEMO VISTA	55	59	58	B	B	B	B
53	VAN BUREN	56	56	60	B	B	B	B
54	SPRINGDALE	57	56	57	B	B	B	B
55	ELKINS	64	48	58	A	C	B	B
56	WESTSIDE CONS.	55	56	59	B	B	B	B
57	HARMONY GROVE (Ouachita)	56	55	58	B	B	B	B
58	MAYFLOWER	54	54	60	B	B	B	B
59	NETTLETON	54	58	55	B	B	B	B
60	RUSSELLVILLE	54	55	55	B	B	B	B
61	ALPENA	53	61	62	C	B	B	B-
62	GREENLAND	51	61	61	C	B	B	B-
63	MAGNET COVE	58	53	61	B	C	B	B-
64	STAR CITY	60	53	59	B	C	B	B-
65	MARION	58	53	59	B	C	B	B-
66	CLARKSVILLE	62	55	54	B	B	C	B-
67	EAST END	53	56	61	C	B	B	B-
68	JONESBORO	54	52	61	B	C	B	B-
69	VIOLA	61	47	59	B	C	B	B-
70	FOREMAN	57	51	58	B	C	B	B-
71	BUFFALO ISLAND CENTRAL	57	53	56	B	C	B	B-
72	GENOA CENTRAL	56	57	53	B	B	C	B-
73	HARMONY GROVE (Saline Co.)	54	52	60	B	C	B	B-
74	CHARLESTON	58	49	56	B	C	B	B-
75	LINCOLN	54	52	57	B	C	B	B-
76	MURFREESBORO	52	56	56	C	B	B	B-
77	YELLVILLE-SUMMIT	52	55	56	C	B	B	B-
78	EUREKA SPRINGS	50	56	57	C	B	B	B-

Districts with "B" Grades (continued)

Rank	District	T-Scores			Letter Grades			
		Math	Reading	Adjustment	Math	Reading	Adjustment	Overall
79	GENTRY	55	51	56	B	C	B	B-
80	SOUTH SIDE	55	51	56	B	C	B	B-
81	RECTOR	53	54	55	C	B	B	B-
82	FORT SMITH	54	50	57	B	C	B	B-
83	DEER/MT. JUDEA	57	48	55	B	C	B	B-
84	BAY	51	56	54	C	B	B	B-
85	LEAD HILL	45	57	58	C	B	B	B-
86	CALICO ROCK	48	56	55	C	B	B	B-
87	DECATUR	45	51	63	C	C	A	B-
88	CLINTON	47	55	54	C	B	B	B-
89	WOODLAWN	54	55	44	B	B	C	B-

Districts with "C" Grades

Rank	District	T-Scores			Letter Grades			
		Math	Reading	Adjustment	Math	Reading	Adjustment	Overall
90	MOUNT IDA	56	52	54	B	C	C	C+
91	DOVER	52	57	53	C	B	C	C+
92	MAGAZINE	52	53	57	C	C	B	C+
93	BERRYVILLE	54	53	53	B	C	C	C+
94	WESTSIDE	50	51	59	C	C	B	C+
95	MT. VERNON/ENOLA	58	52	49	B	C	C	C+
96	HOXIE	52	54	53	C	B	C	C+
97	WYNNE	55	51	52	B	C	C	C+
98	COUNTY LINE	53	56	50	C	B	C	C+
99	OUACHITA	56	48	53	B	C	C	C+
100	OZARK	51	56	51	C	B	C	C+
101	DANVILLE	50	52	55	C	C	B	C+
102	HIGHLAND	52	50	55	C	C	B	C+
103	CONCORD	50	56	52	C	B	C	C+
104	CLEVELAND COUNTY	55	51	50	B	C	C	C+
105	JASPER	52	56	48	C	B	C	C+
106	ALMA	50	56	50	C	B	C	C+
107	MARKED TREE	52	48	55	C	C	B	C+
108	POYEN	55	47	52	B	C	C	C+
109	MANILA	55	46	53	B	C	C	C+
110	GURDON	56	42	54	B	C	C	C+
111	OUACHITA RIVER	47	51	54	C	C	B	C+
112	SOUTHSIDE	51	56	45	C	B	C	C+
113	MALVERN	48	49	54	C	C	B	C+
114	BRADLEY	60	46	45	B	C	C	C+
115	WALDRON	47	48	54	C	C	B	C+
116	GUY-PERKINS	54	47	48	B	C	C	C+
117	COTTER	54	51	43	B	C	C	C+
118	STUTTGART	48	45	56	C	C	B	C+
119	KIRBY	45	54	49	C	B	C	C+
120	CUSHMAN	46	43	56	C	C	B	C+

Districts with "C" Grades (continued)

Rank	District	T-Scores			Letter Grades			
		Math	Reading	Adjustment	Math	Reading	Adjustment	Overall
121	OMAHA	45	58	42	C	B	C	C+
122	HECTOR	48	54	43	C	B	C	C+
123	MAMMOTH SPRING	43	56	45	C	B	C	C+
124	LAMAR	52	52	53	C	C	C	C
125	CEDARVILLE	51	52	52	C	C	C	C
126	FOUNTAIN LAKE	51	53	51	C	C	C	C
127	MONTICELLO	52	50	53	C	C	C	C
128	GLEN ROSE	50	53	51	C	C	C	C
129	MANSFIELD	51	51	51	C	C	C	C
130	GOSNELL	51	49	52	C	C	C	C
131	JACKSON COUNTY	53	48	50	C	C	C	C
132	BAUXITE	49	52	50	C	C	C	C
133	DES ARC	53	46	52	C	C	C	C
134	CENTERPOINT	51	50	50	C	C	C	C
135	WEINER	49	51	50	C	C	C	C
136	WEST SIDE	50	52	48	C	C	C	C
137	LONOKE	47	51	51	C	C	C	C
138	ATKINS	53	49	47	C	C	C	C
139	CAMDEN-FAIRVIEW	50	47	51	C	C	C	C
140	SOUTH CONWAY COUNTY	51	49	47	C	C	C	C
141	BRADFORD	53	47	47	C	C	C	C
142	WEST FORK	48	50	49	C	C	C	C
143	WICKES	50	47	49	C	C	C	C
144	FOUKE	48	48	50	C	C	C	C
145	MULBERRY	50	42	53	C	C	C	C
146	POCAHONTAS	50	50	46	C	C	C	C
147	ASHDOWN	50	48	47	C	C	C	C
148	LAWRENCE COUNTY	44	51	49	C	C	C	C
149	TWIN RIVERS	47	45	52	C	C	C	C
150	TWO RIVERS	46	49	48	C	C	C	C
151	MELBOURNE	46	56	42	C	B	D	C
152	SPRING HILL	55	41	47	B	D	C	C
153	HAMPTON	46	47	49	C	C	C	C
154	CAVE CITY	48	50	45	C	C	C	C
155	DEWITT	51	46	46	C	C	C	C
156	EAST POINSETT COUNTY	48	43	51	C	C	C	C
157	NEWPORT	45	46	51	C	C	C	C
158	NASHVILLE	48	47	47	C	C	C	C
159	HACKETT	49	46	47	C	C	C	C
160	MIDLAND	51	49	42	C	C	C	C
161	PIGGOTT	46	53	43	C	C	C	C
162	PARAGOULD	48	46	48	C	C	C	C
163	WESTERN YELL COUNTY	47	46	48	C	C	C	C
164	PANGBURN	47	51	43	C	C	C	C
165	RIVERVIEW	47	51	43	C	C	C	C

Districts with "C" Grades (continued)

Rank	District	T-Scores			Letter Grades			
		Math	Reading	Adjustment	Math	Reading	Adjustment	Overall
166	OZARK MOUNTAIN	47	46	47	C	C	C	C
167	CUTTER-MORNING STAR	45	51	44	C	C	C	C
168	BARTON-LEXA	44	50	45	C	C	C	C
169	WHITE COUNTY CENTRAL	47	49	43	C	C	C	C
170	GREEN FOREST	48	44	46	C	C	C	C
171	ROSE BUD	43	48	47	C	C	C	C
172	HAMBURG	50	43	44	C	C	C	C
173	MAYNARD	45	45	48	C	C	C	C
174	HORATIO	46	47	43	C	C	C	C
175	DIERKS	44	47	46	C	C	C	C
176	SEARCY COUNTY	48	45	43	C	C	C	C
177	HAZEN	45	47	42	C	C	C	C
178	HOT SPRINGS	49	42	43	C	C	C	C
179	EL DORADO	44	42	45	C	C	C	C
180	CARLISLE	45	43	43	C	C	C	C
181	NORTH LITTLE ROCK	43	42	44	C	C	C	C
182	WARREN	50	41	49	C	D	C	C-
183	HILLCREST	48	51	41	C	C	D	C-
184	SMACKOVER	42	48	48	D	C	C	C-
185	MAGNOLIA	48	41	48	C	D	C	C-
186	WATSON CHAPEL	41	46	49	D	C	C	C-
187	LAVACA	38	51	44	D	C	C	C-
188	CEDAR RIDGE	42	47	45	D	C	C	C-
189	TRUMANN	46	41	47	C	D	C	C-
190	FLIPPIN	36	51	45	D	C	C	C-
191	SOUTH MISSISSIPPI COUNTY	47	37	49	C	D	C	C-
192	MCGEHEE	46	47	40	C	C	D	C-
193	PRAIRIE GROVE	46	47	38	C	C	D	C-
194	DEQUEEN	47	40	43	C	D	C	C-
195	JUNCTION CITY	43	48	39	C	C	D	C-
196	PRESCOTT	47	42	41	C	C	D	C-
197	CROSS COUNTY	41	45	43	D	C	C	C-
198	BALD KNOB	47	43	39	C	C	D	C-
199	LITTLE ROCK	40	43	45	D	C	C	C-
200	DREW CENTRAL	42	43	43	D	C	C	C-
201	BEARDEN	37	42	47	D	C	C	C-
202	NORPHLET	47	45	34	C	C	D	C-
203	BLEVINS	40	42	44	D	C	C	C-
204	PULASKI COUNTY SPECIAL	38	43	43	D	C	C	C-
205	QUITMAN	44	45	35	C	C	D	C-
206	FORDYCE	37	42	44	D	C	C	C-

Districts with "D" Grades

Rank	District	T-Scores			Letter Grades			
		Math	Reading	Adjustment	Math	Reading	Adjustment	Overall
207	RIVERSIDE	36	52	40	D	C	D	D+
208	VAN COVE	42	42	41	D	C	D	D+
209	BROOKLAND	42	46	37	D	C	D	D+
210	DUMAS	40	39	45	D	D	C	D+
211	HARRISBURG	44	41	34	C	D	D	D+
212	SLOAN-HENDRIX	38	42	39	D	C	D	D+
213	HARTFORD	43	39	36	C	D	D	D+
214	ENGLAND	42	38	40	D	D	D	D
215	TEXARKANA	41	36	40	D	D	D	D
216	BRINKLEY	44	34	39	C	F	D	D
217	CORNING	42	38	35	D	D	D	D
218	HOPE	37	39	38	D	D	D	D
219	CROSSETT	37	41	36	D	D	D	D
220	NEVADA COUNTY	36	35	40	D	D	D	D
221	PINE BLUFF	31	34	42	F	D	C	D
222	MINERAL SPRINGS	33	36	41	F	D	D	D-
223	WEST MEMPHIS	36	34	38	D	F	D	D-
224	LEE COUNTY	35	30	41	D	F	D	D-
225	OSCEOLA	32	34	39	F	D	D	D-
226	MARVELL	36	30	37	D	F	D	D-
227	STRONG-HUTTIG	29	34	37	F	D	D	D-
228	BLYTHEVILLE	34	32	35	D	F	D	D-
229	LAFAYETTE COUNTY	35	27	34	D	F	D	D-
230	PALESTINE/WHEATLEY	32	33	39	F	F	D	D-
231	MARMADUKE	32	40	30	F	D	F	D-
232	STEPHENS	33	28	38	F	F	D	D-
233	CLARENDON	29	38	29	F	D	F	D-
234	LAKESIDE (Chicot Co.)	38	27	27	D	F	F	D-
235	DELIGHT	22	39	19	F	D	F	D-

Districts with "F" Grades

Rank	District	T-Scores			Letter Grades			
		Math	Reading	Adjustment	Math	Reading	Adjustment	Overall
236	FORREST CITY	31	24	33	F	F	F	F
237	DERMOTT	29	26	32	F	F	F	F
238	AUGUSTA	26	32	29	F	F	F	F
239	HELENA/W. HELENA	32	27	24	F	F	F	F
240	TURRELL	27	28	26	F	F	F	F
241	EARLE	26	26	25	F	F	F	F
242	HUGHES	20	27	29	F	F	F	F
243	DOLLARWAY	25	24	24	F	F	F	F
244	HERMITAGE	26	17	14	F	F	F	F

The following districts did not report SAT-10 results for the 1st grade, which were necessary for calculating "Adjustment" grades. Letter grades in 9th-Grade Reading and Math are reported.

Rank	District	T-Scores			Letter Grades			
		Math	Reading	Adjustment	Math	Reading	Adjustment	Overall
1	HAAS HALL ACADEMY	72	82	n/a	A	A	n/a	n/a
2	LISA ACADEMY	77	73	n/a	A	A	n/a	n/a
3	NWA ACADEMY FINE ART	60	74	n/a	B	A	n/a	n/a
4	KIPP DELTA COLLEGE PREP	67	60	n/a	A	B	n/a	n/a
5	ACADEMICS PLUS	46	49	n/a	C	C	n/a	n/a
6	SHIRLEY	47	47	n/a	C	C	n/a	n/a

Letter Grades and District Characteristics

Demographic and economic characteristics of the communities within which districts operate were not explicitly used in assigning letter grades. However, the relationships of these characteristics to the assigned letter grades were examined, revealing some expected and some surprising patterns.

Poverty and Adult Educational Levels

Compared to the best districts, the poorest-performing districts have approximately double the percentage of students eligible for free or reduced lunch, double the percentage of single-parent households, and half the percentage of adults with a minimum of a 4-year bachelor's degree. The percentage of adults with at least a high-school education was also directly related to district performance.

Table 2: District Averages for Indicators of Poverty and Adult Education

Grade	% Free or Reduced Lunch	% Single-Parent Households	% Adults with High-School Education	% Adults with 4-year Degree
A	48	10	87	23
A-	43	10	81	15
B+	42	9	84	17
B	51	10	81	15
B-	53	11	79	14
C+	62	10	76	11
C	59	10	77	12
C-	60	12	77	14
D+	60	12	76	10
D	72	14	75	13
D-	80	16	72	10
F	95	19	68	10

Geographic Characteristics

Data presented in Table 3 indicate that districts in sparsely-populated areas face challenges in educating students. The general trend is that as student density (students per square mile) decreases, so does district performance.

Table 3: Averages for District
Geographic Characteristics

Grade	Square Miles	Enrollment	Student Density
A	221	5315	39
A-	147	1384	10
B+	182	2377	16
B	220	2937	21
B-	159	1603	20
C+	224	1002	7
C	220	1379	14
C-	261	2845	17
D+	156	904	6
D	240	2181	10
D-	286	1333	10
F	257	1273	6

Geographic characteristics that are related to district performance are also apparent from considering the percentage of districts within each of the state's Education Service Cooperatives that received grades in the A/B range and in the D/F range. Educational cooperatives are discussed more thoroughly in a previous report from the Arkansas Policy Foundation (Murphy Commission, 1998). The accompanying map identifies those cooperatives that had percentages of districts greater than the state percentages in the A/B and D/F ranges. Three cooperatives were ambiguous. Pulaski County Schools had percentages above the state values in both ranges. DeQueen/Mena and Wilbur Mills had percentages below the state values in both ranges. Nonetheless, the oft-cited line running the southwest to the northeast corner of the state is predictive of performance. Cooperatives above the line serve high percentage of A/B districts. Those below the line serve a high percentage of D/F districts. Other than the three "ambiguous" cooperatives, the only exceptions are the Dawson and Western Arkansas cooperatives. The actual percentages for each cooperative are presented in Table 4.

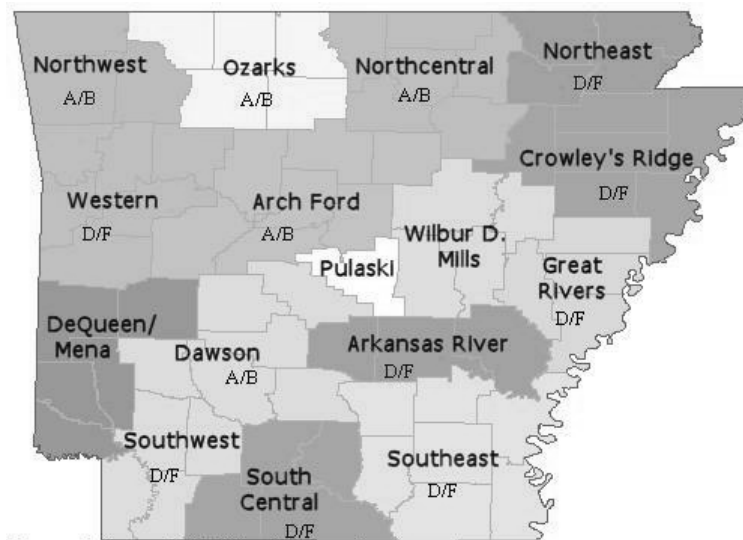


Table 4: Percent of Districts within each Cooperative Assigned A/B and D/F Grades

Cooperative Name	A/B	D/F
Arch Ford Education Service Coop	56	4
Arkansas River Education Coop	29	29
Crowley's Ridge Education Coop	30	30
Dawson Education Service Coop	45	5
DeQueen/Mena Education Coop	21	14
Great Rivers Coop	0	88
Northcentral Arkansas Education Coop	44	0
Northeast Arkansas Education Coop	8	17
Northwest Arkansas Education Service Coop	88	0
Ozarks Unlimited Resource Coop	41	0
Pulaski County Schools	50	25
South Central Arkansas Educ. Coop	18	18
Southeast Service Coop	15	46
Southwest Arkansas Education Coop	11	33
Western Arkansas Coop	41	7
Wilbur Mills Education Coop	35	12
STATE	36	16

District Expenditures

It is generally assumed that higher teacher salaries are related to the ability to recruit the most effective teachers, and therefore should be related to better student performance. Table 5 suggests that this is especially true when considering the top-performing schools from this evaluation. The highest average salaries (approximately \$48,000) were seen in the districts assigned an “A”. The lowest (approximately \$39,000) were seen in those districts assigned a “D+”. However, those assigned a grade of “F” had higher average salaries than all but 3 of the other 11 letter-grade groups.

Table 5: Averages for District Expenditures

Grade	Average Teacher Salaries	Per Pupil Expenditures (Total)	Per Pupil Expenditures (Instructional)	Percent Instructional
A	\$47,980	\$7,861	\$4,928	63
A-	\$42,105	\$7,460	\$4,654	62
B+	\$44,479	\$7,608	\$4,766	63
B	\$42,786	\$7,779	\$4,830	62
B-	\$41,220	\$8,192	\$5,035	61
C+	\$39,806	\$8,052	\$5,166	64
C	\$40,714	\$8,100	\$4,983	62
C-	\$40,531	\$8,479	\$5,198	61
D+	\$39,035	\$8,119	\$5,093	63
D	\$41,456	\$8,653	\$5,276	61
D-	\$41,252	\$9,265	\$5,600	60
F	\$42,201	\$9,740	\$5,807	60

The poorest-performing districts were the least economical in terms of both total per-pupil expenditures and instructional per-pupil expenditures. When instructional expenditures are expressed as a percentage of total expenditures, this percentage is slightly lower in the poorest-performing districts.

Loss of Students

Students may leave a district for a number of reasons. Those reported by the Arkansas Department of Education include moving to another district, incarceration, death, or a number of personal issues (e.g., difficulty with peers, marriage, pregnancy). Table 6 provides information on student attrition due to moving, incarceration and dropouts/withdrawals for reasons other than moving, incarceration, or death. There is no apparent pattern relating district performance to the percentage of students that move to another district. The relationship between district performance and other reasons for leaving the district is disturbing. Although the percentage of students who are incarcerated is small in absolute terms, the risk of incarceration for students in districts assigned a grade of “F” was at least twice as great as for any other category—a finding which clearly warrants further study. Students in districts assigned grades of “D” or “F” also had a greater risk for dropping out or withdrawing from school for other reasons.

Table 6: District Averages Related to Student Attrition

Grade	% Moving Out of District	% Students Incarcerated	% Dropouts and Withdrawals
A	2.66	0.05	1.06
A-	3.16	0.01	0.61
B+	2.69	0.02	0.89
B	2.96	0.04	0.97
B-	3.23	0.03	0.93
C+	3.88	0.02	0.91
C	3.94	0.03	0.96
C-	3.06	0.03	1.27
D+	3.14	0.00	1.40
D	3.41	0.03	1.18
D-	2.89	0.06	1.67
F	3.47	0.12	2.06

Instructional Materials – State-Approved Lists

School districts may select their own instructional materials or choose materials that are available from a state-approved list (A.C.A. § 6-21-403). Requests for materials from the state-approved list for various content areas are made on a staggered, six-year cycle. The most recent requests for English/Language Arts and for Mathematics were made in 2005 and 2006, respectively. Although the list of specific materials available from the state-approved list is lengthy, the requests from individual districts cite publishers and grade levels. The Arkansas Department of Education’s Office of Curriculum, Assessment, and Research provided the author of this report with summaries of requests made by Arkansas school districts in 2005 and 2006. These summaries were examined for districts that, in this report, received grades of “A” in reading or math. The publishers of instructional materials that were requested were noted separately for grades K-8 and 9-12.

The selection of instructional materials in English/Language Arts, by publisher, are reported in Table 7 for districts receiving grades of “A” in reading, based on 9th-grade SAT-10 reading performance (17 districts). Because districts could request materials by more than one publisher, the totals exceed 100% at both grade ranges. Materials published by Macmillan/McGraw-Hill and Harcourt School Publishers were tied as the most popular for grades K-8. Perhaps the most striking finding for grades 9-12 was that the majority of “A” districts (9 of 17) did not choose their materials from the state adoption list.

Table 7: Grades K-8 English/Language Arts
Percentage of "A" (Reading) Districts Requesting Materials
from Various Publishers

Publisher	Grades K-8	Grades 9-12
Macmillan/McGraw-Hill	41	
Holt, Rinehart & Winston	35	24
Harcourt School Publishers	41	
Great Source Edu. Group	18	6
Prentice Hall	18	18
Houghton Mifflin	18	
Glencoe/McGraw-Hill	12	12
None Requested	6	53

The selection of instructional materials in Mathematics, by publisher, are reported in Table 8 for districts receiving grades of “A” in math, based on 9th-grade SAT-10 math performance (21 districts). Materials published by Prentice Hall and Harcourt School Publishers were tied as the most popular for the “A” districts for grades K-8. For grades 9-12, materials from Prentice Hall were chosen most frequently, followed by McDougal Littell. Contrary to what was seen in the English/Language Arts area, all 21 districts requested instructional materials for mathematics from the state-approved list in grades 9-12.

Table 8: Grades K-8 Mathematics
Percentage of "A" (Math) Districts Requesting Materials from
Various Publishers

Publisher	Grades K-8	Grades 9-12
Prentice Hall	38	76
Harcourt School Publishers	38	
Wright Group	33	
Glencoe/McGraw-Hill	24	48
Holt, Rinehart & Winston	19	14
Scott Foresman	29	
McDougal Littell	19	67
Great Source Edu. Group	5	
Thomson Learning		24
None Requested	10	0

Instructional Materials – “What Works Clearing House”

The U.S. Department of Education’s Institute of Education Sciences, “What Works Clearinghouse” (WWC) provides information on scientific evidence regarding effectiveness of a number of instructional programs in

several subject areas. The nine districts that received overall “A” grades were invited to respond to a survey on use of WWC-identified programs. Although WWC does not make recommendations regarding instructional materials, it does provide an “evidence rating” for programs determined by evaluation of research on four factors: quality of the research design, statistical significance, effect size, and consistency of findings across studies.

Of the nine districts were asked to participate in the survey, four responded. Although obviously a small sample, the results of the survey are reported in Table 9. Only those instructional programs that received WWC evidence ratings indicative of “positive” or “potentially positive” effects are reported.

Table 9: Use of Instructional Materials Identified by “What Works Clearing House” for 4 of 9 Districts receiving an Overall “A” grade.

Area/Program	# of Districts	"What Works Clearing House" Evidence Rating
<i>Early Childhood Education</i>		
Phonological Awareness Training	3	Positive Effects
Shared Book Reading	3	Potentially Positive Effects
Phonological Awareness Training + Letter Knowledge Training	2	Potentially Positive Effects
<i>Beginning Reading</i>		
Accelerated Reader/Reading Renaissance	4	Potentially Positive Effects
Reading Recovery®	2	Positive Effects
Peer-Assisted Learning Strategies (PALS)	2	Potentially Positive Effects
ClassWide Peer Tutoring	1	Potentially Positive Effects
Earobics®	1	Positive/Potentially Positive Effects
Fluency Formula™	1	Potentially Positive Effects
<i>English Language Learners</i>		
Peer Tutoring and Response Groups	1	Positive Effects
Instructional Conversations and Literature Logs	1	Potentially Positive Effects
Reading Mastery / SRA / McGraw-Hill	1	Potentially Positive Effects
<i>Elementary School Math</i>		
Everyday Mathematics	2	Potentially Positive Effects
<i>Character Education</i>		
Too Good for Drugs and Violence (TGFD & V)	1	Positive Effects
Positive Action	1	Positive Effects
Too Good For Violence (TGFV)	1	Potentially Positive Effects
Building Decision Skills	1	Potentially Positive Effects
<i>Dropout Prevention</i>		
Talent Search	2	Potentially Positive Effects
Career Academies	1	Potentially Positive Effects
Job Corps	1	Potentially Positive Effects

Sources of Data Used for this Report

Results of 2008 SAT-10 Administration

Arkansas Department of Education - http://arkansased.org/testing/excel/sat10_district_08.xls

Adult Educational Levels; Single-Parent Households

SchoolDataDirect - <http://www.schooldatadirect.org/>

Area in Square Miles; District Expenditures

Arkansas Public Computer Network Annual Statistical Reports - <http://www.apscn.org/reports/caja/asr/asr.htm>

Enrollments; Free or Reduced Lunch; Dropouts & Withdrawals; Districts by Education Service Cooperatives

Arkansas Department of Education Data Center - <http://adedata.arkansas.gov/>

Instructional Materials

Arkansas Department of Education, Office of Curriculum, Assessment, and Research -

http://arkansased.org/teachers/instructional_material.html

“What Works Clearing House”, Institute of Education Sciences, U.S. Department of Education –

<http://ies.ed.gov/ncee/wwc/>

Map of Education Service Cooperatives

Arkansas Department of Education - http://www.arkansased.org/schools/schools_coops.html

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Appendix: Detailed Description of Assignment of Letter Grades, by District

Math and Reading Letter Grades

District	9th-Grade Mathematics - National Percentile Rank	9th-Grade Reading Comprehension - National Percentile Rank	9th Grade Math - National T	9th Grade Reading - National T	9th Grade Math - State T	9th Grade Reading - State T	Math	Reading
ACADEMICS PLUS	57	46	51.76	49.00	45.59	49.06	C	C
ALMA	61	55	52.79	51.26	49.72	56.35	C	B
ALPENA	64	61	53.58	52.79	52.90	61.31	C	B
ARKADELPHIA	72	59	55.83	52.28	61.92	59.64	B	B
ARMOREL	71	61	55.53	52.79	60.74	61.31	B	B
ASHDOWN	61	45	52.79	48.74	49.72	48.25	C	C
ATKINS	64	46	53.58	49.00	52.90	49.06	C	C
AUGUSTA	38	26	46.95	43.57	26.22	31.55	F	F
BALD KNOB	58	39	52.02	47.21	46.61	43.29	C	C
BARTON-LEXA	55	47	51.26	49.25	43.55	49.87	C	C
BATESVILLE	67	62	54.40	53.05	56.18	62.15	B	B
BAUXITE	60	50	52.53	50.00	48.68	52.30	C	C
BAY	62	54	53.05	51.00	50.77	55.54	C	B
BEARDEN	49	38	49.75	46.95	37.49	42.45	D	C
BEEBE	70	54	55.24	51.00	59.57	55.54	B	B
BENTON	76	60	57.06	52.53	66.88	60.47	A	B
BENTONVILLE	78	70	57.72	55.24	69.53	69.21	A	A
BERGMAN	73	54	56.13	51.00	63.12	55.54	A	B
BERRYVILLE	65	51	53.85	50.25	53.98	53.11	B	C
BISMARCK	69	65	54.96	53.85	58.42	64.73	B	A
BLEVINS	51	37	50.25	46.68	39.51	41.60	D	C
BLYTHEVILLE	46	26	49.00	43.57	34.46	31.55	D	F
BOONEVILLE	68	59	54.68	52.28	57.29	59.64	B	B
BRADFORD	64	43	53.58	48.24	52.90	46.61	C	C
BRADLEY	70	42	55.24	47.98	59.57	45.79	B	C
BRINKLEY	55	28	51.26	44.17	43.55	33.50	C	F
BROOKLAND	53	42	50.75	47.98	41.52	45.79	D	C
BRYANT	74	65	56.43	53.85	64.35	64.73	A	A
BUFFALO ISLAND CENTR	68	51	54.68	50.25	57.29	53.11	B	C
CABOT	69	57	54.96	51.76	58.42	57.99	B	B
CADDO HILLS	70	57	55.24	51.76	59.57	57.99	B	B
CALICO ROCK	59	55	52.28	51.26	47.64	56.35	C	B
CAMDEN-FAIRVIEW	61	43	52.79	48.24	49.72	46.61	C	C

CARLISLE	56	39	51.51	47.21	44.57	43.29	C	C
CAVE CITY	59	47	52.28	49.25	47.64	49.87	C	C
CEDAR RIDGE	53	43	50.75	48.24	41.52	46.61	D	C
CEDARVILLE	62	50	53.05	50.00	50.77	52.30	C	C
CENTERPOINT	62	47	53.05	49.25	50.77	49.87	C	C
CHARLESTON	69	46	54.96	49.00	58.42	49.06	B	C
CLARENDON	41	33	47.72	45.60	29.36	38.11	F	D
CLARKSVILLE	72	53	55.83	50.75	61.92	54.73	B	B
CLEVELAND COUNTY	66	48	54.12	49.50	55.07	50.68	B	C
CLINTON	58	53	52.02	50.75	46.61	54.73	C	B
CONCORD	61	54	52.79	51.00	49.72	55.54	C	B
CONWAY	74	68	56.43	54.68	64.35	67.39	A	A
CORNING	53	33	50.75	45.60	41.52	38.11	D	D
COTTER	65	49	53.85	49.75	53.98	51.49	B	C
COUNTY LINE	64	54	53.58	51.00	52.90	55.54	C	B
CROSS COUNTY	52	41	50.50	47.72	40.51	44.96	D	C
CROSSETT	49	36	49.75	46.42	37.49	40.74	D	D
CUSHMAN	57	39	51.76	47.21	45.59	43.29	C	C
CUTTER-MRG.STAR	56	48	51.51	49.50	44.57	50.68	C	C
DANVILLE	61	50	52.79	50.00	49.72	52.30	C	C
DARDANELLE	73	61	56.13	52.79	63.12	61.31	A	B
DECATUR	56	48	51.51	49.50	44.57	50.68	C	C
DEER/MT. JUDEA	68	45	54.68	48.74	57.29	48.25	B	C
DELIGHT	34	34	45.88	45.88	21.92	39.00	F	D
DEQUEEN	58	35	52.02	46.15	46.61	39.87	C	D
DERMOTT	41	21	47.72	41.94	29.36	26.29	F	F
DES ARC	64	42	53.58	47.98	52.90	45.79	C	C
DEWITT	62	42	53.05	47.98	50.77	45.79	C	C
DIERKS	55	43	51.26	48.24	43.55	46.61	C	C
DOLLARWAY	37	19	46.68	41.22	25.16	23.98	F	F
DOVER	63	56	53.32	51.51	51.83	57.17	C	B
DREW CENTRAL	53	39	50.75	47.21	41.52	43.29	D	C
DUMAS	51	34	50.25	45.88	39.51	39.00	D	D
EARLE	38	21	46.95	41.94	26.22	26.29	F	F
EAST END	64	54	53.58	51.00	52.90	55.54	C	B
EAST POINSETT COUNTY	59	39	52.28	47.21	47.64	43.29	C	C
EL DORADO	55	38	51.26	46.95	43.55	42.45	C	C
ELKINS	74	45	56.43	48.74	64.35	48.25	A	C
EMERSON-TAYLOR	71	52	55.53	50.50	60.74	53.92	B	B
ENGLAND	53	33	50.75	45.60	41.52	38.11	D	D
EUREKA	61	54	52.79	51.00	49.72	55.54	C	B
FARMINGTON	70	60	55.24	52.53	59.57	60.47	B	B
FAYETTEVILLE	76	67	57.06	54.40	66.88	66.49	A	A
FLIPPIN	48	49	49.50	49.75	36.48	51.49	D	C
FORDYCE	49	37	49.75	46.68	37.49	41.60	D	C
FOREMAN	68	49	54.68	49.75	57.29	51.49	B	C
FORREST CITY	43	19	48.24	41.22	31.41	23.98	F	F
FORT SMITH	65	47	53.85	49.25	53.98	49.87	B	C
FOUKE	59	45	52.28	48.74	47.64	48.25	C	C
FOUNTAIN LAKE	62	51	53.05	50.25	50.77	53.11	C	C

GENOA CENTRAL	67	56	54.40	51.51	56.18	57.17	B	B
GENTRY	66	48	54.12	49.50	55.07	50.68	B	C
GLEN ROSE	61	51	52.79	50.25	49.72	53.11	C	C
GOSNELL	62	46	53.05	49.00	50.77	49.06	C	C
GRAVETTE	68	58	54.68	52.02	57.29	58.81	B	B
GREEN FOREST	59	40	52.28	47.47	47.64	44.13	C	C
GREENBRIER	74	61	56.43	52.79	64.35	61.31	A	B
GREENE COUNTYTECH	71	58	55.53	52.02	60.74	58.81	B	B
GREENLAND	62	61	53.05	52.79	50.77	61.31	C	B
GREENWOOD	77	67	57.39	54.40	68.19	66.49	A	A
GURDON	67	38	54.40	46.95	56.18	42.45	B	C
GUY-PERKINS	65	43	53.85	48.24	53.98	46.61	B	C
HAAS HALL ACADEMY	80	82	58.42	59.15	72.32	81.82	A	A
HACKETT	60	42	52.53	47.98	48.68	45.79	C	C
HAMBURG	61	39	52.79	47.21	49.72	43.29	C	C
HAMPTON	57	44	51.76	48.49	45.59	47.43	C	C
HARMONY GROVE (Ouachita Co.)	67	53	54.40	50.75	56.18	54.73	B	B
HARMONY GROVE (Saline Co.)	65	50	53.85	50.00	53.98	52.30	B	C
HARRISBURG	55	36	51.26	46.42	43.55	40.74	C	D
HARRISON	69	66	54.96	54.12	58.42	65.60	B	A
HARTFORD	54	34	51.00	45.88	42.53	39.00	C	D
HAZEN	56	44	51.51	48.49	44.57	47.43	C	C
HEBER	71	57	55.53	51.76	60.74	57.99	B	B
HECTOR	59	52	52.28	50.50	47.64	53.92	C	B
HELENA/W. HELENA	44	22	48.49	42.28	32.43	27.39	F	F
HERMITAGE	38	14	46.95	39.20	26.22	17.46	F	F
HIGHLAND	63	47	53.32	49.25	51.83	49.87	C	C
HILLCREST	59	48	52.28	49.50	47.64	50.68	C	C
HOPE	49	34	49.75	45.88	37.49	39.00	D	D
HORATIO	57	44	51.76	48.49	45.59	47.43	C	C
HOT SPRINGS	60	37	52.53	46.68	48.68	41.60	C	C
HOXIE	63	52	53.32	50.50	51.83	53.92	C	B
HUGHES	32	22	45.32	42.28	19.70	27.39	F	F
HUNTSVILLE	72	52	55.83	50.50	61.92	53.92	B	B
IZARD COUNTY CONS.	66	57	54.12	51.76	55.07	57.99	B	B
JACKSON COUNTY	64	45	53.58	48.74	52.90	48.25	C	C
JASPER	63	55	53.32	51.26	51.83	56.35	C	B
JESSIEVILLE	72	56	55.83	51.51	61.92	57.17	B	B
JONESBORO	65	50	53.85	50.00	53.98	52.30	B	C
JUNCTION CITY	54	45	51.00	48.74	42.53	48.25	C	C
KIPP DELTA COLLEGE PREP	76	59	57.06	52.28	66.88	59.64	A	B
KIRBY	56	52	51.51	50.50	44.57	53.92	C	B
LAFAYETTE COUNTY	47	22	49.25	42.28	35.47	27.39	D	F
LAKE HAMILTON	78	70	57.72	55.24	69.53	69.21	A	A
LAKESIDE (Chicot Co.)	50	22	50.00	42.28	38.50	27.39	D	F
LAKESIDE (Garland Co.)	74	67	56.43	54.40	64.35	66.49	A	A
LAMAR	63	50	53.32	50.00	51.83	52.30	C	C
LAVACA	50	49	50.00	49.75	38.50	51.49	D	C
LAWRENCE COUNTY	55	48	51.26	49.50	43.55	50.68	C	C
LEAD HILL	56	56	51.51	51.51	44.57	57.17	C	B

LEE COUNTY	47	24	49.25	42.94	35.47	29.52	D	F
LINCOLN	65	50	53.85	50.00	53.98	52.30	B	C
LISA ACADEMY	83	74	59.54	56.43	76.84	73.05	A	A
LITTLE ROCK	51	39	50.25	47.21	39.51	43.29	D	C
LONOKE	58	49	52.02	49.75	46.61	51.49	C	C
MAGAZINE	63	51	53.32	50.25	51.83	53.11	C	C
MAGNET COVE	69	51	54.96	50.25	58.42	53.11	B	C
MAGNOLIA	59	36	52.28	46.42	47.64	40.74	C	D
MALVERN	59	46	52.28	49.00	47.64	49.06	C	C
MAMMOTH SPRING	54	55	51.00	51.26	42.53	56.35	C	B
MANILA	66	42	54.12	47.98	55.07	45.79	B	C
MANSFIELD	62	48	53.05	49.50	50.77	50.68	C	C
MARION	69	51	54.96	50.25	58.42	53.11	B	C
MARKED TREE	63	45	53.32	48.74	51.83	48.25	C	C
MARMADUKE	44	35	48.49	46.15	32.43	39.87	F	D
MARVELL	48	24	49.50	42.94	36.48	29.52	D	F
MAYFLOWER	65	52	53.85	50.50	53.98	53.92	B	B
MAYNARD	56	41	51.51	47.72	44.57	44.96	C	C
MCCRORY	72	55	55.83	51.26	61.92	56.35	B	B
MCGEHEE	57	43	51.76	48.24	45.59	46.61	C	C
MELBOURNE	57	54	51.76	51.00	45.59	55.54	C	B
MENA	74	66	56.43	54.12	64.35	65.60	A	A
MIDLAND	62	46	53.05	49.00	50.77	49.06	C	C
MINERAL SPRINGS	45	31	48.74	45.04	33.45	36.31	F	D
MONTICELLO	63	47	53.32	49.25	51.83	49.87	C	C
MOUNT IDA	67	50	54.40	50.00	56.18	52.30	B	C
MOUNTAIN HOME	70	60	55.24	52.53	59.57	60.47	B	B
MOUNTAIN PINE	67	53	54.40	50.75	56.18	54.73	B	B
MOUNTAIN VIEW	72	61	55.83	52.79	61.92	61.31	B	B
MOUNTAINBURG	74	57	56.43	51.76	64.35	57.99	A	B
MT. VERNON/ENOLA	69	50	54.96	50.00	58.42	52.30	B	C
MULBERRY	61	38	52.79	46.95	49.72	42.45	C	C
MURFREESBORO	63	54	53.32	51.00	51.83	55.54	C	B
NASHVILLE	59	44	52.28	48.49	47.64	47.43	C	C
NEMO VISTA	66	58	54.12	52.02	55.07	58.81	B	B
NETTLETON	65	57	53.85	51.76	53.98	57.99	B	B
NEVADA COUNTY	48	30	49.50	44.76	36.48	35.39	D	D
NEWPORT	56	42	51.51	47.98	44.57	45.79	C	C
NORFORK	67	66	54.40	54.12	56.18	65.60	B	A
NORPHLET	58	41	52.02	47.72	46.61	44.96	C	C
NORTH LITTLE ROCK	54	38	51.00	46.95	42.53	42.45	C	C
NWA ACADEMY FINE ART	70	75	55.24	56.74	59.57	74.06	B	A
OMAHA	56	57	51.51	51.76	44.57	57.99	C	B
OSCEOLA	44	29	48.49	44.47	32.43	34.45	F	D
OUACHITA	67	45	54.40	48.74	56.18	48.25	B	C
OUACHITA RIVER	58	49	52.02	49.75	46.61	51.49	C	C
OZARK	62	54	53.05	51.00	50.77	55.54	C	B
OZARK MOUNTAIN	58	42	52.02	47.98	46.61	45.79	C	C
PALESTINE/WHEATLEY	44	27	48.49	43.87	32.43	32.53	F	F
PANGBURN	58	49	52.02	49.75	46.61	51.49	C	C

PARAGOULD	59	42	52.28	47.98	47.64	45.79	C	C
PARIS	71	58	55.53	52.02	60.74	58.81	B	B
PARKERS CHAPEL	74	63	56.43	53.32	64.35	63.00	A	A
PEA RIDGE	66	59	54.12	52.28	55.07	59.64	B	B
PERRYVILLE	71	57	55.53	51.76	60.74	57.99	B	B
PIGGOTT	57	51	51.76	50.25	45.59	53.11	C	C
PINE BLUFF	43	29	48.24	44.47	31.41	34.45	F	D
POCAHONTAS	61	47	52.79	49.25	49.72	49.87	C	C
POTTSVILLE	74	74	56.43	56.43	64.35	73.05	A	A
POYEN	66	44	54.12	48.49	55.07	47.43	B	C
PRAIRIE GROVE	57	43	51.76	48.24	45.59	46.61	C	C
PRESCOTT	58	37	52.02	46.68	46.61	41.60	C	C
PULASKI COUNTY	50	39	50.00	47.21	38.50	43.29	D	C
QUITMAN	55	41	51.26	47.72	43.55	44.96	C	C
RECTOR	64	52	53.58	50.50	52.90	53.92	C	B
RIVERSIDE	48	50	49.50	50.00	36.48	52.30	D	C
RIVERVIEW	58	48	52.02	49.50	46.61	50.68	C	C
ROGERS	70	60	55.24	52.53	59.57	60.47	B	B
ROSE BUD	54	45	51.00	48.74	42.53	48.25	C	C
RUSSELLVILLE	65	53	53.85	50.75	53.98	54.73	B	B
SALEM	76	68	57.06	54.68	66.88	67.39	A	A
SCRANTON	82	67	59.15	54.40	75.28	66.49	A	A
SEARCY	74	63	56.43	53.32	64.35	63.00	A	A
SEARCY COUNTY	59	41	52.28	47.72	47.64	44.96	C	C
SHERIDAN	74	53	56.43	50.75	64.35	54.73	A	B
SHIRLEY	58	43	52.02	48.24	46.61	46.61	C	C
SILOAM SPRINGS	71	55	55.53	51.26	60.74	56.35	B	B
SLOAN-HENDRIX	50	37	50.00	46.68	38.50	41.60	D	C
SMACKOVER	53	45	50.75	48.74	41.52	48.25	D	C
SOUTH CONWAY COUNTY	62	46	53.05	49.00	50.77	49.06	C	C
SOUTH MISSISSIPPI COUNTY	58	32	52.02	45.32	46.61	37.22	C	D
SOUTH SIDE (Van Buren Co.)	66	48	54.12	49.50	55.07	50.68	B	C
SOUTHSIDE (Independence Co.)	62	54	53.05	51.00	50.77	55.54	C	B
SPRING HILL	66	36	54.12	46.42	55.07	40.74	B	D
SPRINGDALE	68	55	54.68	51.26	57.29	56.35	B	B
STAR CITY	70	51	55.24	50.25	59.57	53.11	B	C
STEPHENS	45	23	48.74	42.61	33.45	28.47	F	F
STRONG-HUTTIG	41	29	47.72	44.47	29.36	34.45	F	D
STUTTGART	59	41	52.28	47.72	47.64	44.96	C	C
TEXARKANA	52	31	50.50	45.04	40.51	36.31	D	D
TRUMANN	57	36	51.76	46.42	45.59	40.74	C	D
TURRELL	39	23	47.21	42.61	27.27	28.47	F	F
TWIN RIVERS	58	41	52.02	47.72	46.61	44.96	C	C
TWO RIVERS	57	46	51.76	49.00	45.59	49.06	C	C
VALLEY SPRINGS	70	61	55.24	52.79	59.57	61.31	B	B
VALLEY VIEW	77	68	57.39	54.68	68.19	67.39	A	A
VAN BUREN	67	54	54.40	51.00	56.18	55.54	B	B
VAN COVE	53	38	50.75	46.95	41.52	42.45	D	C
VILONIA	68	65	54.68	53.85	57.29	64.73	B	A
VIOLA	71	44	55.53	48.49	60.74	47.43	B	C

WALDRON	58	45	52.02	48.74	46.61	48.25	C	C
WARREN	61	36	52.79	46.42	49.72	40.74	C	D
WATSON CHAPEL	52	42	50.50	47.98	40.51	45.79	D	C
WEINER	60	49	52.53	49.75	48.68	51.49	C	C
WEST FORK	59	47	52.28	49.25	47.64	49.87	C	C
WEST MEMPHIS	48	28	49.50	44.17	36.48	33.50	D	F
WEST SIDE (Cleburne Co.)	61	50	52.79	50.00	49.72	52.30	C	C
WESTERN YELL COUNTY	58	42	52.02	47.98	46.61	45.79	C	C
WESTSIDE (Johnson Co.)	61	49	52.79	49.75	49.72	51.49	C	C
WESTSIDE CONS. (Craighead Co.)	66	55	54.12	51.26	55.07	56.35	B	B
WHITE COUNTY CENTRAL	58	46	52.02	49.00	46.61	49.06	C	C
WHITE HALL	68	59	54.68	52.28	57.29	59.64	B	B
WICKES	61	44	52.79	48.49	49.72	47.43	C	C
WONDERVIEW	71	62	55.53	53.05	60.74	62.15	B	B
WOODLAWN	65	53	53.85	50.75	53.98	54.73	B	B
WYNNE	66	48	54.12	49.50	55.07	50.68	B	C
YELLVILLE-SUMMIT	63	53	53.32	50.75	51.83	54.73	C	B

n =	250	250	250	250
Mean =	52.86	49.29	50.00	50.00
Standard Deviation =	2.49	3.10	10.00	10.00

Adjustment Letter Grades

District	1st-Grade Mathematics Problem Solving - National Percentile Rank	1st-Grade Reading Comprehension - National Percentile Rank	1st Grade Math - National T	1st Grade Reading - National T	1st Grade Math - State T	1st Grade Reading - State T	1st Grade Math + Reading T	9th Grade Math + Reading T	9th Grade Predicted Math + Reading T	Difference for Adjustment	Adjustment T	Adjustment Letter Grade
ACADEMICS PLUS								94.65				n/a
ALMA	63	50	53.32	50.00	60.42	55.77	116.19	106.08	106.67	-0.59	49.64	C
ALPENA	42	35	47.98	46.15	44.96	44.84	89.81	114.21	94.78	19.43	61.75	B
ARKADELPHIA	64	55	53.58	51.26	61.19	59.34	120.52	121.56	108.62	12.94	57.82	B
ARMOREL	41	31	47.72	45.04	44.22	41.71	85.93	122.05	93.04	29.01	67.54	A
ASHDOWN	52	50	50.50	50.00	52.26	55.77	108.03	97.97	103.00	-5.03	46.96	C
ATKINS	57	57	51.76	51.76	55.91	60.78	116.69	101.96	106.90	-4.93	47.02	C
AUGUSTA	37	33	46.68	45.60	41.20	43.29	84.50	57.77	92.39	-34.62	29.07	F
BALD KNOB	61	58	52.79	52.02	58.90	61.50	120.39	89.90	108.56	-18.66	38.72	D
BARTON-LEXA	50	46	50.00	49.00	50.81	52.92	103.73	93.42	101.06	-7.64	45.38	C
BATESVILLE	43	33	48.24	45.60	45.70	43.29	89.00	118.33	94.42	23.91	64.46	A
BAUXITE	53	42	50.75	47.98	52.99	50.05	103.03	100.98	100.74	0.24	50.14	C
BAY	41	51	47.72	50.25	44.22	56.48	100.70	106.31	99.69	6.62	54.00	B
BEARDEN	30	20	44.76	41.58	35.63	31.90	67.53	79.94	84.75	-4.81	47.09	C

BEEBE	53	45	50.75	48.74	52.99	52.21	105.20	115.11	101.72	13.39	58.10	B
BENTON	66	48	54.12	49.50	62.75	54.35	117.10	127.35	107.08	20.27	62.26	B
BENTONVILLE	69	59	54.96	52.28	65.16	62.23	127.39	138.74	111.72	27.03	66.34	A
BERGMAN	61	55	52.79	51.26	58.90	59.34	118.23	118.66	107.59	11.07	56.70	B
BERRYVILLE	54	44	51.00	48.49	53.72	51.49	105.21	107.09	101.72	5.37	53.25	C
BISMARCK	46	42	49.00	47.98	47.90	50.05	97.95	123.15	98.45	24.70	64.94	A
BLEVINS	35	30	46.15	44.76	39.65	40.90	80.55	81.10	90.62	-9.51	44.25	C
BLYTHEVILLE	40	28	47.47	44.17	43.47	39.24	82.71	66.01	91.59	-25.58	34.53	D
BOONEVILLE	54	54	51.00	51.00	53.72	58.62	112.34	116.93	104.93	12.00	57.25	B
BRADFORD	50	55	50.00	51.26	50.81	59.34	110.15	99.51	103.95	-4.43	47.32	C
BRADLEY	60	73	52.53	56.13	58.14	73.16	131.30	105.36	113.48	-8.12	45.09	C
BRINKLEY	39	39	47.21	47.21	42.72	47.85	90.57	77.05	95.13	-18.08	39.07	D
BROOKLAND	63	57	53.32	51.76	60.42	60.78	121.19	87.31	108.92	-21.61	36.93	D
BRYANT	59	54	52.28	51.00	57.40	58.62	116.02	129.08	106.59	22.49	63.60	A
BUFFALO ISLAND CENTR	53	39	50.75	47.21	52.99	47.85	100.84	110.40	99.75	10.65	56.44	B
CABOT	56	39	51.51	47.21	55.18	47.85	103.03	116.41	100.74	15.67	59.48	B
CADDO HILLS	53	52	50.75	50.50	52.99	57.20	110.18	117.56	103.96	13.60	58.22	B
CALICO ROCK	40	38	47.47	46.95	43.47	47.11	90.58	104.00	95.13	8.86	55.36	B
CAMDEN-FAIRVIEW	44	31	48.49	45.04	46.44	41.71	88.15	96.33	94.04	2.30	51.39	C
CARLISLE	52	39	50.50	47.21	52.26	47.85	100.11	87.86	99.43	-11.57	43.00	C
CAVE CITY	57	55	51.76	51.26	55.91	59.34	115.25	97.52	106.25	-8.73	44.72	C
CEDAR RIDGE	41	39	47.72	47.21	44.22	47.85	92.07	88.14	95.80	-7.67	45.36	C
CEDARVILLE	55	35	51.26	46.15	54.45	44.84	99.29	103.07	99.06	4.02	52.43	C
CENTERPOINT	55	39	51.26	47.21	54.45	47.85	102.30	100.65	100.41	0.24	50.14	C
CHARLESTON	42	43	47.98	48.24	44.96	50.77	95.73	107.49	97.45	10.03	56.07	B
CLARENDON	57	40	51.76	47.47	55.91	48.59	104.50	67.47	101.40	-33.94	29.48	F
CLARKSVILLE	64	61	53.58	52.79	61.19	63.70	124.88	116.65	110.59	6.06	53.67	C
CLEVELAND COUNTY	54	54	51.00	51.00	53.72	58.62	112.34	105.76	104.93	0.82	50.50	C
CLINTON	45	32	48.74	45.32	47.17	42.51	89.68	101.34	94.73	6.61	54.00	B
CONCORD	56	45	51.51	48.74	55.18	52.21	107.39	105.26	102.70	2.56	51.55	C
CONWAY	59	49	52.28	49.75	57.40	55.06	112.46	131.74	104.99	26.75	66.17	A
CORNING	56	49	51.51	49.75	55.18	55.06	110.24	79.63	103.99	-24.36	35.27	D
COTTER	69	74	54.96	56.43	65.16	74.02	139.19	105.47	117.03	-11.56	43.01	C
COUNTY LINE	63	57	53.32	51.76	60.42	60.78	121.19	108.44	108.92	-0.48	49.71	C
CROSS COUNTY	54	29	51.00	44.47	53.72	40.08	93.79	85.48	96.58	-11.10	43.29	C
CROSSETT	54	43	51.00	48.24	53.72	50.77	104.49	78.23	101.40	-23.17	35.99	D
CUSHMAN	19	16	41.22	40.06	25.39	27.56	52.96	88.88	78.18	10.69	56.47	B
CUTTER-MRG.STAR	60	46	52.53	49.00	58.14	52.92	111.07	95.25	104.36	-9.11	44.49	C
DANVILLE	37	35	46.68	46.15	41.20	44.84	86.04	102.02	93.09	8.93	55.40	B
DARDANELLE	42	38	47.98	46.95	44.96	47.11	92.07	124.43	95.80	28.63	67.31	A
DECATUR	16	11	40.06	37.73	22.02	20.98	43.00	95.25	73.70	21.55	63.03	A
DEER/MT. JUDEA	51	32	50.25	45.32	51.53	42.51	94.04	105.54	96.69	8.85	55.35	B
DELIGHT	57	71	51.76	55.53	55.91	71.47	127.38	60.92	111.71	-50.79	19.29	F
DEQUEEN	43	44	48.24	48.49	45.70	51.49	97.19	86.48	98.11	-11.63	42.97	C
DERMOTT	21	30	41.94	44.76	27.46	40.90	68.36	55.65	85.12	-29.48	32.18	F
DES ARC	44	33	48.49	45.60	46.44	43.29	89.73	98.69	94.75	3.94	52.38	C
DEWITT	50	55	50.00	51.26	50.81	59.34	110.15	96.56	103.95	-7.38	45.53	C
DIERKS	42	41	47.98	47.72	44.96	49.32	94.28	90.16	96.80	-6.64	45.98	C
DOLLARWAY	39	31	47.21	45.04	42.72	41.71	84.43	49.15	92.36	-43.21	23.87	F
DOVER	58	48	52.02	49.50	56.65	54.35	111.00	109.00	104.33	4.67	52.82	C
DREW CENTRAL	46	35	49.00	46.15	47.90	44.84	92.74	84.81	96.11	-11.29	43.17	C

DUMAS	27	29	43.87	44.47	33.07	40.08	73.14	78.50	87.28	-8.77	44.69	C
EARLE	38	36	46.95	46.42	41.96	45.61	87.57	52.51	93.78	-41.26	25.05	F
EAST END	35	27	46.15	43.87	39.65	38.39	78.04	108.44	89.49	18.96	61.46	B
EAST POINSETT COUNTY	39	23	47.21	42.61	42.72	34.82	77.54	90.93	89.26	1.68	51.01	C
EL DORADO	41	34	47.72	45.88	44.22	44.07	88.29	86.00	94.10	-8.11	45.10	C
ELKINS	53	39	50.75	47.21	52.99	47.85	100.84	112.60	99.75	12.84	57.77	B
EMERSON-TAYLOR	47	49	49.25	49.75	48.63	55.06	103.69	114.65	101.04	13.61	58.23	B
ENGLAND	54	29	51.00	44.47	53.72	40.08	93.79	79.63	96.58	-16.95	39.75	D
EUREKA	45	30	48.74	44.76	47.17	40.90	88.07	105.26	94.00	11.26	56.81	B
FARMINGTON	54	45	51.00	48.74	53.72	52.21	105.92	120.04	102.05	18.00	60.88	B
FAYETTEVILLE	58	47	52.02	49.25	56.65	53.64	110.29	133.37	104.01	29.36	67.75	A
FLIPPIN	43	40	48.24	47.47	45.70	48.59	94.29	87.98	96.80	-8.83	44.66	C
FORDYCE	29	31	44.47	45.04	34.79	41.71	76.50	79.09	88.79	-9.70	44.13	C
FOREMAN	38	41	46.95	47.72	41.96	49.32	91.28	108.78	95.45	13.33	58.06	B
FORREST CITY	30	16	44.76	40.06	35.63	27.56	63.19	55.40	82.79	-27.40	33.43	F
FORT SMITH	38	30	46.95	44.76	41.96	40.90	82.86	103.86	91.66	12.20	57.38	B
FOUKE	44	36	48.49	46.42	46.44	45.61	92.04	95.89	95.79	0.10	50.06	C
FOUNTAIN LAKE	55	43	51.26	48.24	54.45	50.77	105.22	103.88	101.73	2.16	51.30	C
GENOA CENTRAL	57	61	51.76	52.79	55.91	63.70	119.61	113.35	108.21	5.13	53.10	C
GENTRY	41	38	47.72	46.95	44.22	47.11	91.33	105.76	95.47	10.29	56.22	B
GLEN ROSE	49	45	49.75	48.74	50.08	52.21	102.29	102.83	100.41	2.42	51.47	C
GOSNELL	44	37	48.49	46.68	46.44	46.36	92.80	99.84	96.13	3.70	52.24	C
GRAVETTE	34	33	45.88	45.60	38.87	43.29	82.16	116.11	91.34	24.76	64.97	A
GREEN FOREST	46	41	49.00	47.72	47.90	49.32	97.22	91.77	98.12	-6.35	46.16	C
GREENBRIER	64	44	53.58	48.49	61.19	51.49	112.68	125.66	105.09	20.57	62.44	B
GREENE COUNTYTECH	71	50	55.53	50.00	66.83	55.77	122.60	119.55	109.56	9.99	56.04	B
GREENLAND	39	34	47.21	45.88	42.72	44.07	86.80	112.08	93.43	18.66	61.28	B
GREENWOOD	76	68	57.06	54.68	71.26	69.04	140.30	134.68	117.53	17.15	60.37	B
GURDON	33	37	45.60	46.68	38.07	46.36	84.43	98.62	92.36	6.26	53.79	C
GUY-PERKINS	63	41	53.32	47.72	60.42	49.32	109.73	100.59	103.76	-3.17	48.08	C
HAAS HALL ACADEMY								154.14				n/a
HACKETT	45	45	48.74	48.74	47.17	52.21	99.38	94.47	99.10	-4.63	47.20	C
HAMBURG	51	49	50.25	49.75	51.53	55.06	106.60	93.01	102.35	-9.33	44.36	C
HAMPTON	41	34	47.72	45.88	44.22	44.07	88.29	93.02	94.10	-1.09	49.34	C
HARMONY GROVE (Ouachita Co.)	42	43	47.98	48.24	44.96	50.77	95.73	110.90	97.45	13.45	58.13	B
HARMONY GROVE (Saline Co.)	40	23	47.47	42.61	43.47	34.82	78.29	106.28	89.60	16.69	60.09	B
HARRISBURG	68	55	54.68	51.26	64.35	59.34	123.69	84.29	110.05	-25.76	34.42	D
HARRISON	59	60	52.28	52.53	57.40	62.96	120.36	124.03	108.55	15.48	59.36	B
HARTFORD	59	50	52.28	50.00	57.40	55.77	113.17	81.53	105.31	-23.78	35.62	D
HAZEN	55	56	51.26	51.51	54.45	60.05	114.50	92.00	105.91	-13.91	41.59	C
HEBER	57	48	51.76	49.50	55.91	54.35	110.26	118.73	104.00	14.72	58.90	B
HECTOR	69	64	54.96	53.58	65.16	65.94	131.10	101.56	113.39	-11.83	42.85	C
HELENA/W. HELENA	52	50	50.50	50.00	52.26	55.77	108.03	59.83	103.00	-43.17	23.90	F
HERMITAGE	53	52	50.75	50.50	52.99	57.20	110.18	43.68	103.96	-60.28	13.55	F
HIGHLAND	37	34	46.68	45.88	41.20	44.07	85.27	101.71	92.74	8.96	55.42	B
HILLCREST	64	70	53.58	55.24	61.19	70.65	131.83	98.33	113.72	-15.39	40.69	D
HOPE	44	36	48.49	46.42	46.44	45.61	92.04	76.49	95.79	-19.30	38.33	D
HORATIO	53	53	50.75	50.75	52.99	57.91	110.90	93.02	104.29	-11.27	43.19	C
HOT SPRINGS	52	45	50.50	48.74	52.26	52.21	104.47	90.28	101.39	-11.11	43.28	C

HOXIE	45	50	48.74	50.00	47.17	55.77	102.94	105.75	100.70	5.05	53.05	C
HUGHES	21	21	41.94	41.94	27.46	32.90	60.36	47.10	81.52	-34.42	29.19	F
HUNTSVILLE	55	47	51.26	49.25	54.45	53.64	108.08	115.84	103.02	12.82	57.75	B
IZARD COUNTY CONS.	45	33	48.74	45.60	47.17	43.29	90.46	113.06	95.08	17.98	60.87	B
JACKSON COUNTY	54	41	51.00	47.72	53.72	49.32	103.03	101.15	100.74	0.41	50.25	C
JASPER	76	51	57.06	50.25	71.26	56.48	127.74	108.19	111.87	-3.69	47.77	C
JESSIEVILLE	65	41	53.85	47.72	61.96	49.32	111.28	119.09	104.46	14.63	58.85	B
JONESBORO	37	22	46.68	42.28	41.20	33.87	75.07	106.28	88.15	18.14	60.97	B
JUNCTION CITY	67	55	54.40	51.26	63.54	59.34	122.88	90.78	109.68	-18.90	38.57	D
KIPP DELTA COLLEGE PREP								126.52				n/a
KIRBY	51	43	50.25	48.24	51.53	50.77	102.30	98.48	100.41	-1.93	48.83	C
LAFAYETTE COUNTY	31	31	45.04	45.04	36.45	41.71	78.16	62.87	89.54	-26.67	33.87	D
LAKE HAMILTON	56	36	51.51	46.42	55.18	45.61	100.78	138.74	99.73	39.01	73.59	A
LAKESIDE (Chicot Co.)	57	50	51.76	50.00	55.91	55.77	111.69	65.89	104.64	-38.75	26.57	F
LAKESIDE (Garland Co.)	54	55	51.00	51.26	53.72	59.34	113.05	130.84	105.26	25.58	65.47	A
LAMAR	47	41	49.25	47.72	48.63	49.32	97.95	104.13	98.45	5.68	53.44	C
LAVACA	54	38	51.00	46.95	53.72	47.11	100.82	89.99	99.75	-9.76	44.10	C
LAWRENCE COUNTY	45	35	48.74	46.15	47.17	44.84	92.01	94.23	95.78	-1.55	49.06	C
LEAD HILL	35	26	46.15	43.57	39.65	37.52	77.18	101.74	89.10	12.64	57.64	B
LEE COUNTY	20	17	41.58	40.46	26.44	28.71	55.15	64.99	79.17	-14.18	41.43	D
LINCOLN	39	39	47.21	47.21	42.72	47.85	90.57	106.28	95.13	11.15	56.74	B
LISA ACADEMY								149.89				n/a
LITTLE ROCK	31	33	45.04	45.60	36.45	43.29	79.75	82.80	90.25	-7.46	45.49	C
LONOKE	49	32	49.75	45.32	50.08	42.51	92.59	98.10	96.04	2.07	51.25	C
MAGAZINE	42	33	47.98	45.60	44.96	43.29	88.26	104.94	94.09	10.86	56.56	B
MAGNET COVE	44	27	48.49	43.87	46.44	38.39	84.83	111.53	92.54	18.99	61.48	B
MAGNOLIA	40	30	47.47	44.76	43.47	40.90	84.37	88.38	92.34	-3.96	47.61	C
MALVERN	35	29	46.15	44.47	39.65	40.08	79.73	96.70	90.24	6.46	53.91	B
MAMMOTH SPRING	50	66	50.00	54.12	50.81	67.47	118.28	98.89	107.61	-8.72	44.72	C
MANILA	48	34	49.50	45.88	49.36	44.07	93.43	100.86	96.42	4.44	52.69	C
MANSFIELD	47	43	49.25	48.24	48.63	50.77	99.40	101.46	99.11	2.35	51.42	C
MARION	43	38	48.24	46.95	45.70	47.11	92.81	111.53	96.14	15.40	59.31	B
MARKED TREE	32	35	45.32	46.15	37.27	44.84	82.11	100.08	91.32	8.76	55.30	B
MARMADUKE	61	47	52.79	49.25	58.90	53.64	112.53	72.30	105.02	-32.72	30.22	F
MARVELL	31	26	45.04	43.57	36.45	37.52	73.98	66.00	87.65	-21.65	36.91	D
MAYFLOWER	45	24	48.74	42.94	47.17	35.74	82.91	107.90	91.68	16.22	59.81	B
MAYNARD	39	34	47.21	45.88	42.72	44.07	86.80	89.53	93.43	-3.90	47.64	C
MCCRORY	50	45	50.00	48.74	50.81	52.21	103.02	118.27	100.74	17.54	60.60	B
MCGEHEE	59	60	52.28	52.53	57.40	62.96	120.36	92.20	108.55	-16.35	40.11	D
MELBOURNE	69	69	54.96	54.96	65.16	69.84	135.00	101.13	115.14	-14.02	41.52	D
MENA	61	49	52.79	49.75	58.90	55.06	113.96	129.95	105.66	24.29	64.69	A
MIDLAND	72	61	55.83	52.79	67.68	63.70	131.38	99.84	113.51	-13.68	41.73	C
MINERAL SPRINGS	25	25	43.26	43.26	31.28	36.64	67.92	69.76	84.93	-15.17	40.83	D
MONTICELLO	45	38	48.74	46.95	47.17	47.11	94.28	101.71	96.80	4.91	52.97	C
MOUNT IDA	54	46	51.00	49.00	53.72	52.92	106.64	108.48	102.37	6.11	53.69	C
MOUNTAIN HOME	49	46	49.75	49.00	50.08	52.92	103.01	120.04	100.73	19.31	61.68	B
MOUNTAIN PINE	36	30	46.42	44.76	40.43	40.90	81.33	110.90	90.97	19.94	62.06	B
MOUNTAIN VIEW	57	54	51.76	51.00	55.91	58.62	114.54	123.23	105.93	17.30	60.46	B
MOUNTAINBURG	34	20	45.88	41.58	38.87	31.90	70.77	122.34	86.21	36.13	71.85	A
MT. VERNON/ENOLA	67	62	54.40	53.05	63.54	64.44	127.98	110.72	111.98	-1.26	49.24	C
MULBERRY	28	26	44.17	43.57	33.93	37.52	71.46	92.17	86.52	5.65	53.42	C

MURFREESBORO	52	35	50.50	46.15	52.26	44.84	97.10	107.37	98.07	9.30	55.62	B
NASHVILLE	42	53	47.98	50.75	44.96	57.91	102.87	95.07	100.67	-5.60	46.62	C
NEMO VISTA	50	46	50.00	49.00	50.81	52.92	103.73	113.89	101.06	12.83	57.76	B
NETTLETON	56	50	51.51	50.00	55.18	55.77	110.95	111.97	104.31	7.66	54.63	B
NEVADA COUNTY	38	23	46.95	42.61	41.96	34.82	76.78	71.87	88.92	-17.05	39.69	D
NEWPORT	28	30	44.17	44.76	33.93	40.90	74.83	90.35	88.04	2.31	51.40	C
NORFORK	57	49	51.76	49.75	55.91	55.06	110.98	121.78	104.32	17.46	60.56	B
NORPHLET	74	71	56.43	55.53	69.43	71.47	140.90	91.57	117.80	-26.23	34.14	D
NORTH LITTLE ROCK	40	39	47.47	47.21	43.47	47.85	91.32	84.98	95.47	-10.49	43.66	C
NWA ACADEMY FINE ART								133.63				n/a
OMAHA	70	69	55.24	54.96	65.99	69.84	135.83	102.55	115.52	-12.96	42.16	C
OSCEOLA	21	28	41.94	44.17	27.46	39.24	66.70	66.88	84.38	-17.49	39.42	D
OUACHITA	51	39	50.25	47.21	51.53	47.85	99.38	104.42	99.10	5.32	53.22	C
OUACHITA RIVER	37	30	46.68	44.76	41.20	40.90	82.10	98.10	91.31	6.79	54.11	B
OZARK	55	51	51.26	50.25	54.45	56.48	110.93	106.31	104.30	2.01	51.22	C
OZARK MOUNTAIN	41	42	47.72	47.98	44.22	50.05	94.27	92.40	96.79	-4.39	47.34	C
PALESTINE/WHEATLEY	26	19	43.57	41.22	32.18	30.87	63.05	64.97	82.73	-17.77	39.26	D
PANGBURN	73	50	56.13	50.00	68.55	55.77	124.32	98.10	110.33	-12.23	42.60	C
PARAGOULD	50	33	50.00	45.60	50.81	43.29	94.10	93.43	96.72	-3.29	48.01	C
PARIS	54	59	51.00	52.28	53.72	62.23	115.94	119.55	106.56	12.99	57.85	B
PARKERS CHAPEL	75	74	56.74	56.43	70.34	74.02	144.36	127.35	119.36	8.00	54.83	B
PEA RIDGE	46	47	49.00	49.25	47.90	53.64	101.54	114.71	100.07	14.64	58.85	B
PERRYVILLE	53	33	50.75	45.60	52.99	43.29	96.28	118.73	97.70	21.02	62.71	B
PIGGOTT	61	64	52.79	53.58	58.90	65.94	124.84	98.70	110.57	-11.87	42.82	C
PINE BLUFF	19	19	41.22	41.22	25.39	30.87	56.26	65.86	79.67	-13.81	41.65	C
POCAHONTAS	59	53	52.28	50.75	57.40	57.91	115.30	99.60	106.27	-6.68	45.96	C
POTTSVILLE	58	65	52.02	53.85	56.65	66.70	123.36	137.40	109.90	27.50	66.63	A
POYEN	62	29	53.05	44.47	59.65	40.08	99.73	102.50	99.25	3.25	51.97	C
PRAIRIE GROVE	64	66	53.58	54.12	61.19	67.47	128.66	92.20	112.29	-20.09	37.85	D
PRESCOTT	47	55	49.25	51.26	48.63	59.34	107.97	88.21	102.97	-14.76	41.08	D
PULASKI COUNTY	39	33	47.21	45.60	42.72	43.29	86.02	81.79	93.08	-11.29	43.18	C
QUITMAN	78	51	57.72	50.25	73.16	56.48	129.65	88.51	112.73	-24.22	35.35	D
RECTOR	57	34	51.76	45.88	55.91	44.07	99.99	106.82	99.37	7.45	54.50	B
RIVERSIDE	52	55	50.50	51.26	52.26	59.34	111.60	88.78	104.60	-15.82	40.44	D
RIVERVIEW	57	61	51.76	52.79	55.91	63.70	119.61	97.29	108.21	-10.92	43.40	C
ROGERS	54	46	51.00	49.00	53.72	52.92	106.64	120.04	102.37	17.67	60.69	B
ROSE BUD	41	39	47.72	47.21	44.22	47.85	92.07	90.78	95.80	-5.02	46.96	C
RUSSELLVILLE	53	39	50.75	47.21	52.99	47.85	100.84	108.71	99.75	8.96	55.42	B
SALEM	74	63	56.43	53.32	69.43	65.19	134.62	134.27	114.97	19.29	61.67	B
SCRANTON	87	83	61.26	59.54	83.42	82.84	166.26	141.77	129.23	12.55	57.59	B
SEARCY	56	53	51.51	50.75	55.18	57.91	113.09	127.35	105.27	22.08	63.35	A
SEARCY COUNTY	59	48	52.28	49.50	57.40	54.35	111.75	92.60	104.67	-12.06	42.70	C
SHERIDAN	57	45	51.76	48.74	55.91	52.21	108.12	119.08	103.04	16.04	59.70	B
SHIRLEY								93.22				n/a
SILOAM SPRINGS	52	36	50.50	46.42	52.26	45.61	97.87	117.09	98.42	18.67	61.29	B
SLOAN-HENDRIX	47	43	49.25	48.24	48.63	50.77	99.40	80.10	99.11	-19.01	38.51	D
SMACKOVER	43	31	48.24	45.04	45.70	41.71	87.41	89.77	93.71	-3.93	47.62	C
SOUTH CONWAY COUNTY	55	52	51.26	50.50	54.45	57.20	111.64	99.84	104.62	-4.79	47.11	C
SOUTH MISSISSIPPI COUNTY	29	24	44.47	42.94	34.79	35.74	70.53	83.83	86.10	-2.27	48.63	C

SOUTH SIDE (Van Buren Co.)	45	37	48.74	46.68	47.17	46.36	93.53	105.76	96.46	9.29	55.62	B
SOUTHSIDE (Independence Co.)	73	61	56.13	52.79	68.55	63.70	132.25	106.31	113.90	-7.59	45.41	C
SPRING HILL	55	41	51.26	47.72	54.45	49.32	103.76	95.81	101.07	-5.26	46.82	C
SPRINGDALE	54	46	51.00	49.00	53.72	52.92	106.64	113.65	102.37	11.28	56.82	B
STAR CITY	45	41	48.74	47.72	47.17	49.32	96.49	112.68	97.80	14.89	59.00	B
STEPHENS	15	27	39.64	43.87	20.80	38.39	59.19	61.92	80.99	-19.07	38.47	D
STRONG-HUTTIG	25	26	43.26	43.57	31.28	37.52	68.81	63.81	85.32	-21.52	36.99	D
STUTTGART	29	18	44.47	40.85	34.79	29.81	64.60	92.60	83.43	9.18	55.55	B
TEXARKANA	43	32	48.24	45.32	45.70	42.51	88.21	76.82	94.06	-17.24	39.57	D
TRUMANN	37	30	46.68	44.76	41.20	40.90	82.10	86.32	91.31	-4.99	46.98	C
TURRELL	38	42	46.95	47.98	41.96	50.05	92.01	55.74	95.78	-40.03	25.79	F
TWIN RIVERS	39	22	47.21	42.28	42.72	33.87	76.59	91.57	88.83	2.74	51.66	C
TWO RIVERS	46	39	49.00	47.21	47.90	47.85	95.75	94.65	97.46	-2.82	48.30	C
VALLEY SPRINGS	61	54	52.79	51.00	58.90	58.62	117.52	120.88	107.27	13.61	58.23	B
VALLEY VIEW	73	67	56.13	54.40	68.55	68.25	136.80	135.57	115.96	19.62	61.86	B
VAN BUREN	44	35	48.49	46.15	46.44	44.84	91.28	111.72	95.45	16.27	59.84	B
VAN COVE	52	37	50.50	46.68	52.26	46.36	98.62	83.97	98.76	-14.78	41.06	D
VILONIA	53	47	50.75	49.25	52.99	53.64	106.63	122.02	102.36	19.66	61.89	B
VIOLA	44	30	48.49	44.76	46.44	40.90	87.34	108.17	93.67	14.50	58.76	B
WALDRON	32	26	45.32	43.57	37.27	37.52	74.79	94.86	88.02	6.84	54.13	B
WARREN	37	33	46.68	45.60	41.20	43.29	84.50	90.46	92.39	-1.93	48.83	C
WATSON CHAPEL	28	29	44.17	44.47	33.93	40.08	74.01	86.30	87.67	-1.37	49.17	C
WEINER	42	49	47.98	49.75	44.96	55.06	100.03	100.17	99.39	0.78	50.47	C
WEST FORK	47	42	49.25	47.98	48.63	50.05	98.68	97.52	98.78	-1.26	49.24	C
WEST MEMPHIS	37	26	46.68	43.57	41.20	37.52	78.73	69.98	89.79	-19.81	38.02	D
WEST SIDE (Clebume Co.)	57	54	51.76	51.00	55.91	58.62	114.54	102.02	105.93	-3.90	47.64	C
WESTERN YELL COUNTY	54	25	51.00	43.26	53.72	36.64	90.36	92.40	95.03	-2.63	48.41	C
WESTSIDE (Johnson Co.)	27	27	43.87	43.87	33.07	38.39	71.46	101.21	86.52	14.70	58.89	B
WESTSIDE CONS. (Craighead Co.)	46	37	49.00	46.68	47.90	46.36	94.26	111.43	96.79	14.64	58.85	B
WHITE COUNTY CENTRAL	66	48	54.12	49.50	62.75	54.35	117.10	95.67	107.08	-11.41	43.10	C
WHITE HALL	46	44	49.00	48.49	47.90	51.49	99.39	116.93	99.10	17.83	60.78	B
WICKES	48	41	49.50	47.72	49.36	49.32	98.67	97.15	98.78	-1.63	49.02	C
WONDERVIEW	68	70	54.68	55.24	64.35	70.65	135.00	122.89	115.14	7.75	54.68	B
WOODLAWN	80	67	58.42	54.40	75.17	68.25	143.43	108.71	118.94	-10.23	43.81	C
WYNNE	55	43	51.26	48.24	54.45	50.77	105.22	105.76	101.73	4.03	52.44	C
YELLVILLE-SUMMIT	48	33	49.50	45.60	49.36	43.29	92.65	106.56	96.07	10.50	56.35	B
n =			244	244	244	244	244	250	244	244	244	
Mean =			49.72	47.96	50.00	50.00	100.00	100.00	99.38	0.00	50.00	
Standard Deviation =			3.45	3.53	10.00	10.00	19.04	19.19	8.58	16.54	10.00	