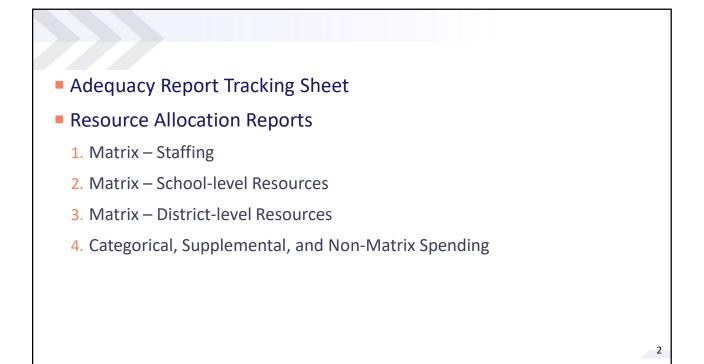
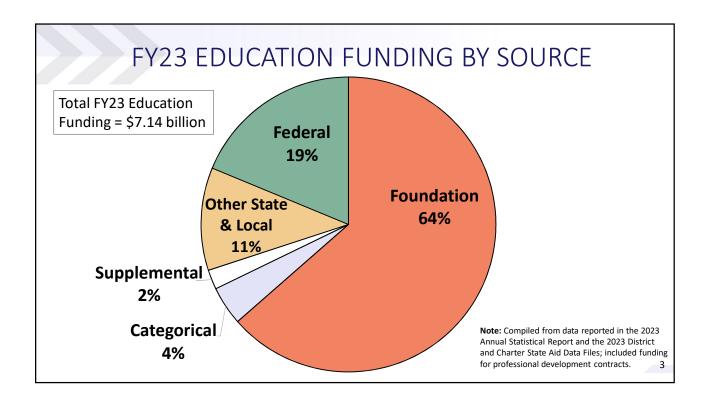
EXHIBIT C1

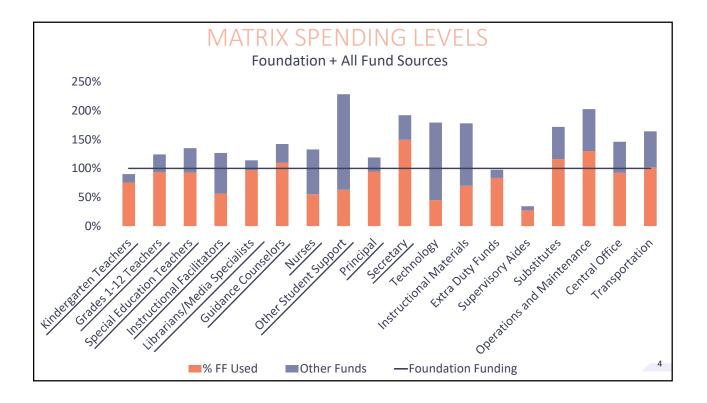
RESOURCE ALLOCATION-STAFF IN THE MATRIX

Monday, March 11, 2024

😂 🛧 ★ 2024 ADEQUACY STUDY ★ ★

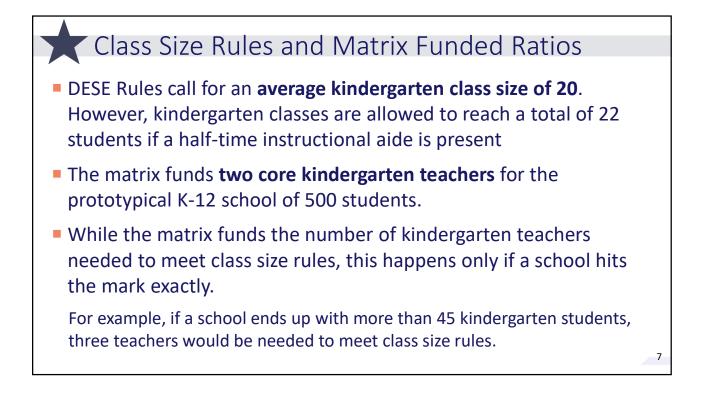


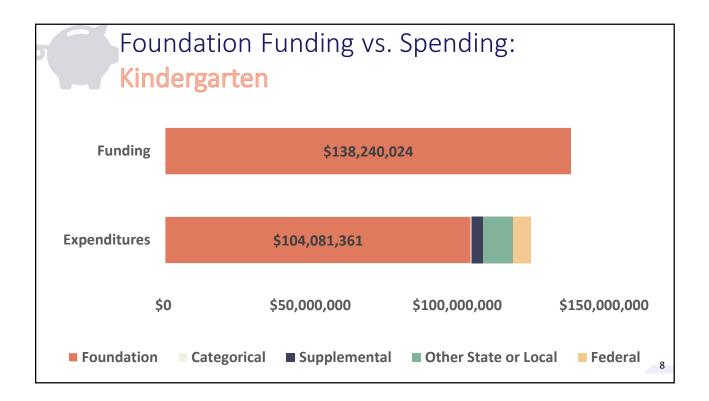


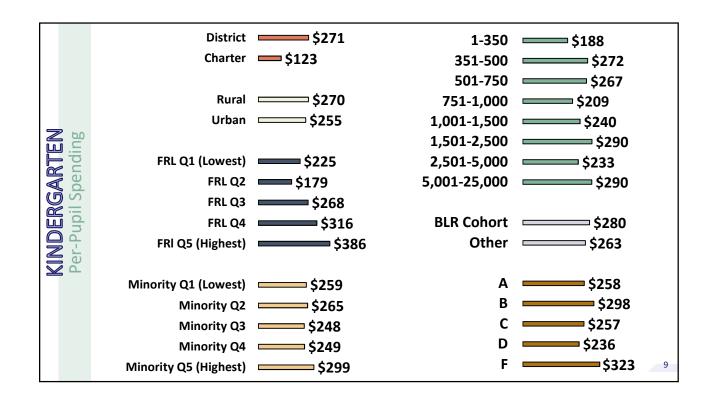


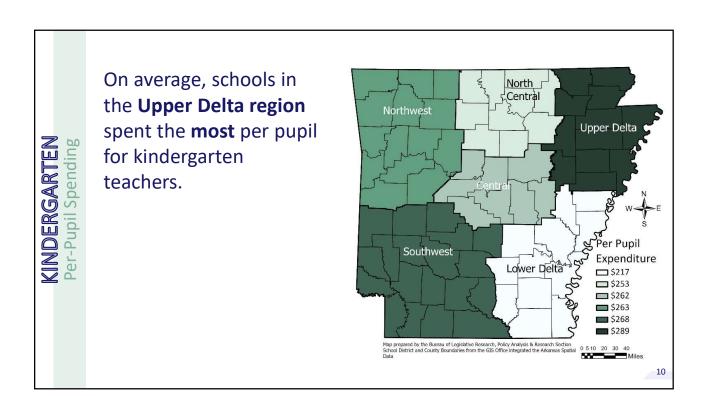
Matrix	FY23	FY24	FY25
Matrix Calculations		· ·	
School Size	500	500	500
K = 8% of students	40	40	40
Grades 1-3 = 23% of students	115	115	115
Grades 4-12 = 69% of students	345	345	345
Staffing Ratios			
K P:T ratio = 20:1	2.0	2.0	2.0
Grades 1-3 P:T ratio = 23:1	5.0	5.0	5.0
Grades 4-12 P:T ratio = 25:1	13.8	13.8	13.8
PAM = 20% of classroom	4.14	4.14	4.14
Total Classroom Teachers	24.94	24.94	24.94
Special Ed Teachers	2.9	2.9	2.9
Instructional Facilitators	2.5	2.5	2.5
Librarian / Media Specialist	0.85	0.85	0.85
Guidance Counselor & Nurse	2.5	2.5	2.5
Total Pupil Support Personnel	8.75	8.75	8.75
Principal	1.0	1.0	1.0
Secretary	1.0	1.0	1.0
TOTAL School-Level Personnel	35.69	35.69	35.69

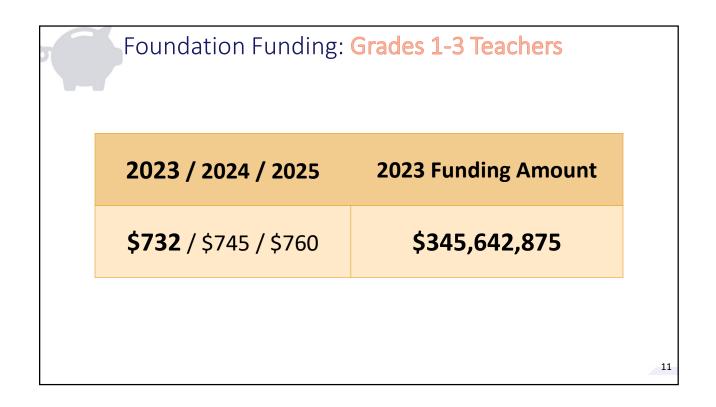
Foundation Funding	g: Kindergarten	
2023 / 2024 / 2025	2023 Funding Amount	
\$293 / \$298 / \$304	\$138,240,024	
	·	
		6

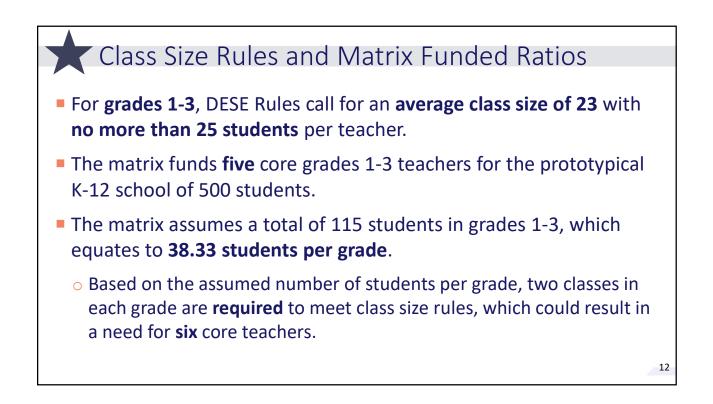




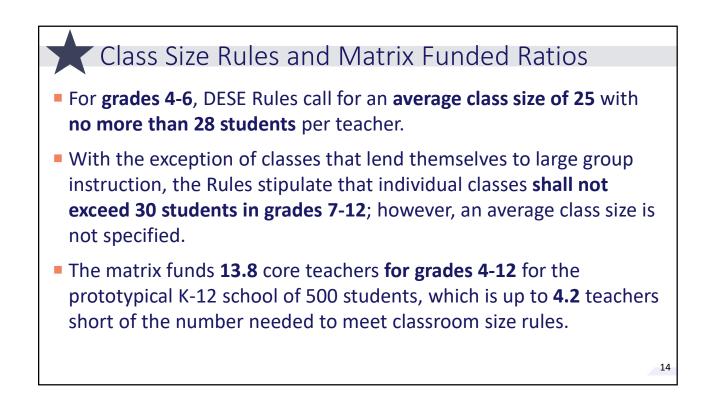


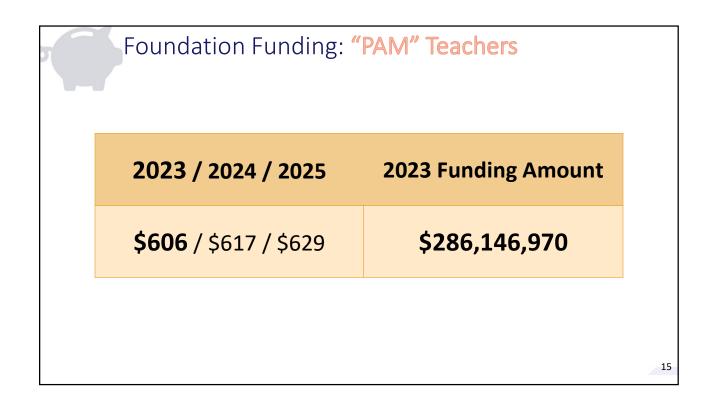


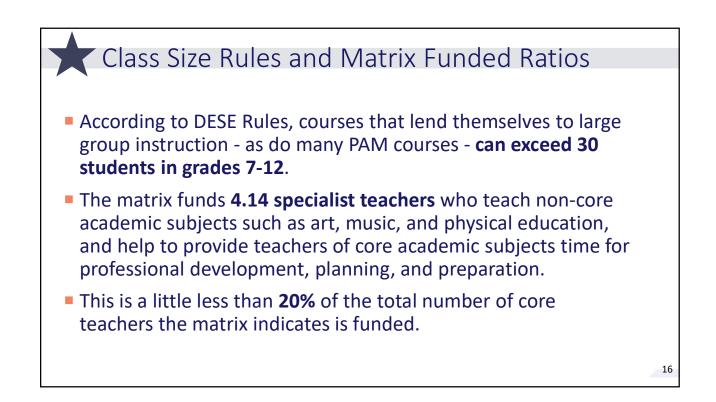


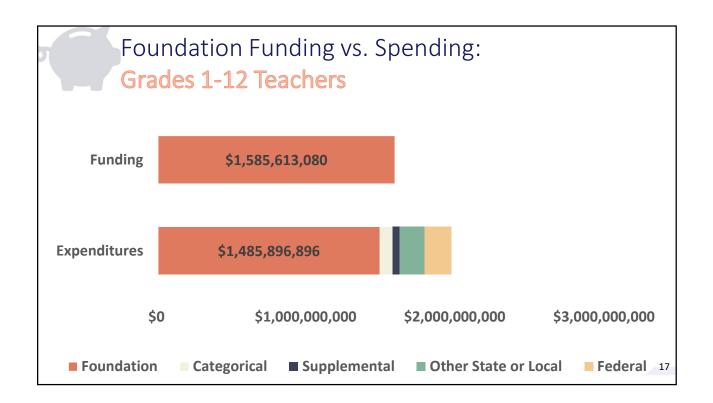


Foundation Funding:	irades 4-12 Teachers
2023 / 2024 / 2025	2023 Funding Amount
\$2,020 / \$2,055 / \$2,098	\$953,823,235

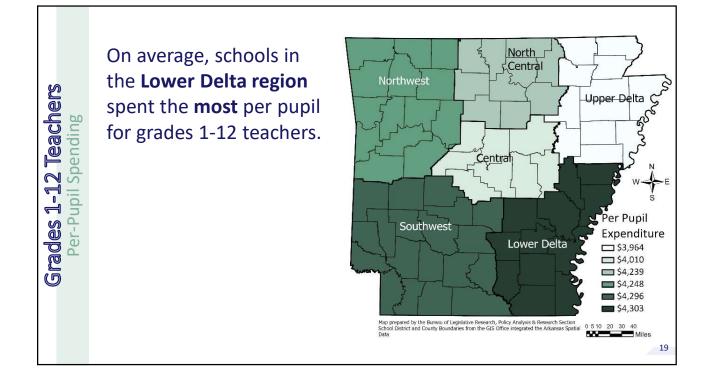








	District	\$4,207	1-350	\$3,883
	Charter	\$3,232	351-500	\$4,993
			501-750	\$4,871
s	Rural	\$4,122	751-1,000	\$3,685
ð	Urban	\$4,178	1,001-1,500	\$4,272
			1,501-2,500	\$3,760
Teachers ending	FRL Q1 (Lowest)	\$4,089	2,501-5,000	\$3,850
	FRL Q2	\$4,191	5,001-25,000	\$4,383
12 il Sp	FRL Q3	\$4,108		
dn 🚽	FRL Q4	\$4,188	BLR Cohort	\$4,253
S - S	FRI Q5 (Highest)	\$4,234	Other	\$4,150
Grades Per-F				
	Minority Q1 (Lowest)	\$4,093	Α	\$4,344
	Minority Q2	\$4,005	В	\$4,002
	Minority Q3	\$3,993	C	\$4,155
	Minority Q4	\$4,242	D	\$4,180
	Minority Q5 (Highest)	\$4,443	F	\$4,209 18



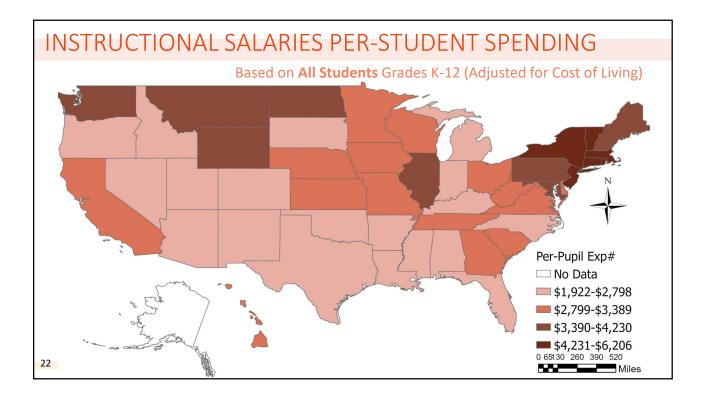
Teacher-Student Ratios

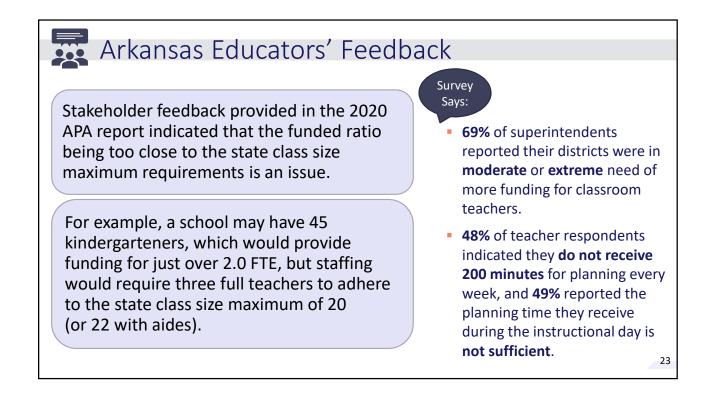
2023 Matrix	2023 Matrix Teacher-Student Ratio	Evidence-Based Model*
Kindergarten	1:20	1:15
Grades 1-3	1:23	1:15
Grades 4-12	1:25	1:25

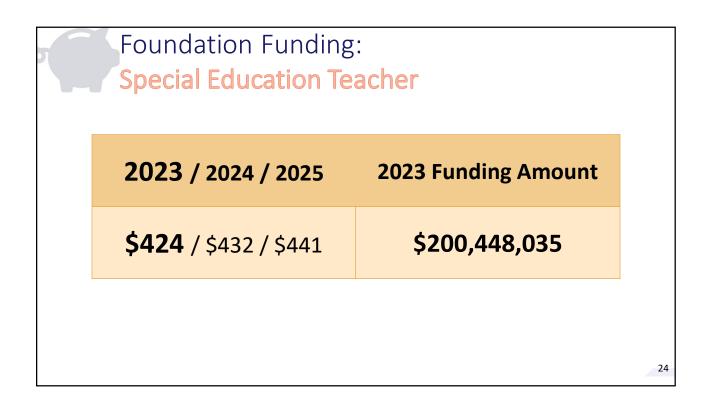
- Literature review findings recommend lower student-to-teacher ratios for K-3 grades than what is currently funded through the matrix.
- Evidence-based studies and other national adequacy studies suggest a 1:15 ratio for K-3.

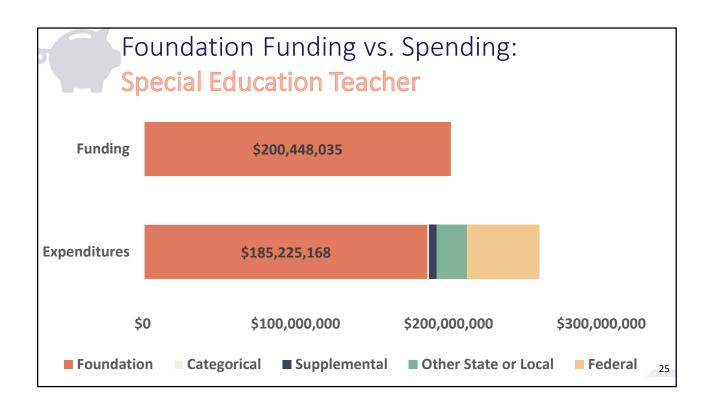
Teaching Staffing Levels

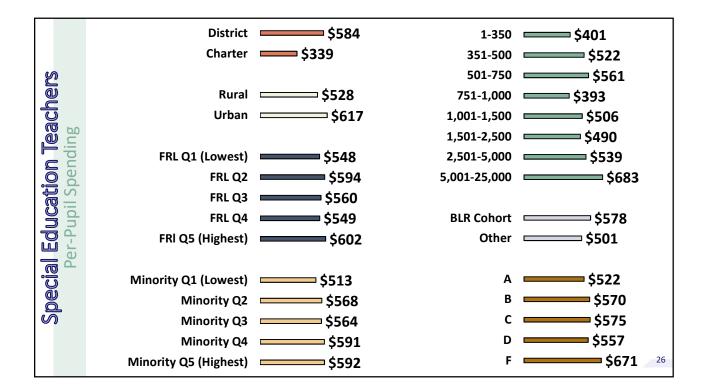
Core and Non-Core Teachers				
Matrix Item: Classroom Teachers	Matrix FTE: All grades	Evidence-Based Model FTE: 450-student prototypical elementary school	Evidence-Based Model FTE: 450-student prototypical middle school	Evidence-Based Model FTE: 600-student prototypical high school
Core: English Language Arts, Math, Social Studies and Science	20.8:500	26:450	18:450	24:450
Non-Core: PE, Art, Music and other electives	4.14:500 20% of Core	5.2:450 20% of Core	3.6:450 20% of Core	8.0:600 33 1/3% of Core
Total	24.94:500	31.2:450	21.6:450	32:600







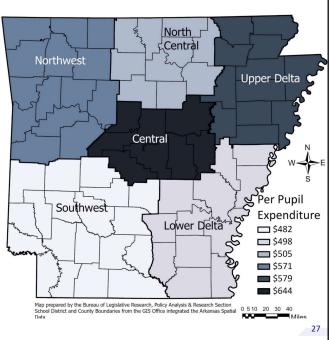




Special Education Teacher Per-Pupil Spending



On average, the **Central region** spent the **most** per pupil for special education teachers



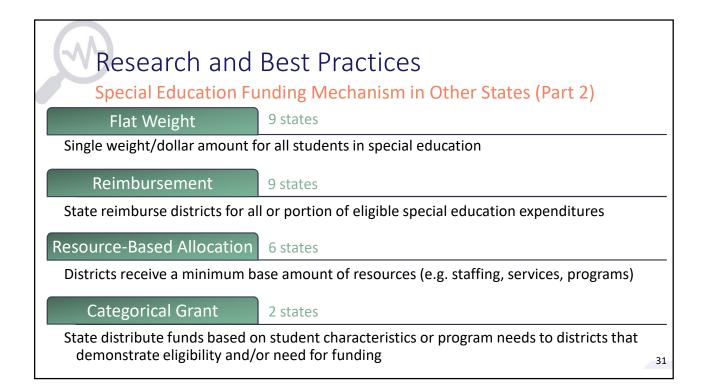
Research and Best Practices				
Odden and Picus Special Education Evidence-Based Model				
Funding Mechanisms Census Approach and High-Cost				
Staffing for students with Mild and Moderate Disabilities	5 special education teachers and 1 teacher behaviorist (or 6 total teacher positions) per 1,000 students			
Staffing for students with severe and profound, and high cost-to-serve disabilities	Fund 100% of extra costs for students with severe and profound disabilities (minus federal Title VI-B); AND Limit students covered here to 2% of students in the district			
Staffing for related services	1.1 per 1,000 students			
Staffing for costs associated with developing and continually reviewing individualized education plans (Psychologists)	1 psychologist per 1,000 students			
Total Special Education Staffing	8.1 positions for every 1,000 students (or 4.05 for every 500 students) 28			

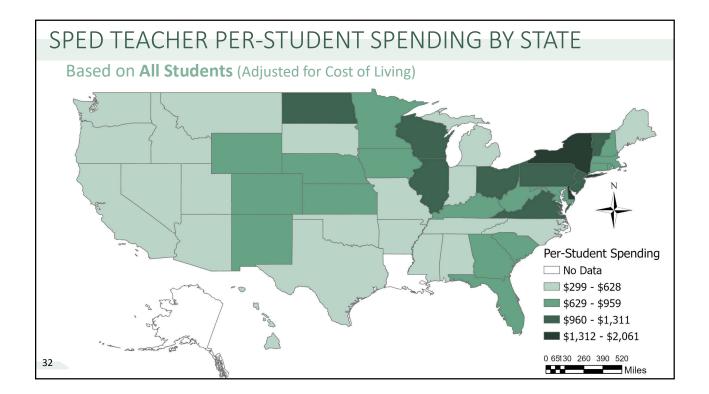


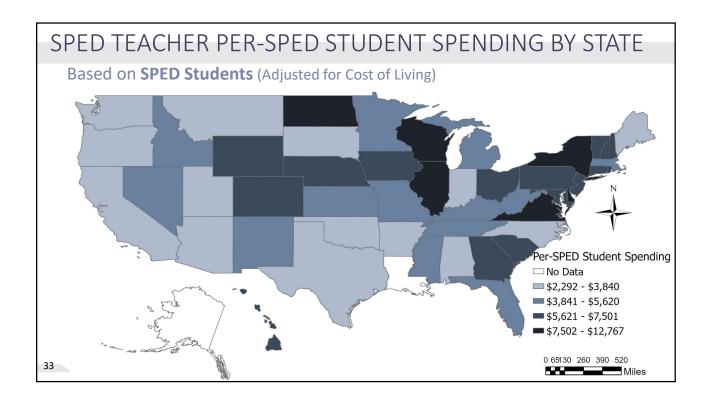
1. Remove special education from matrix

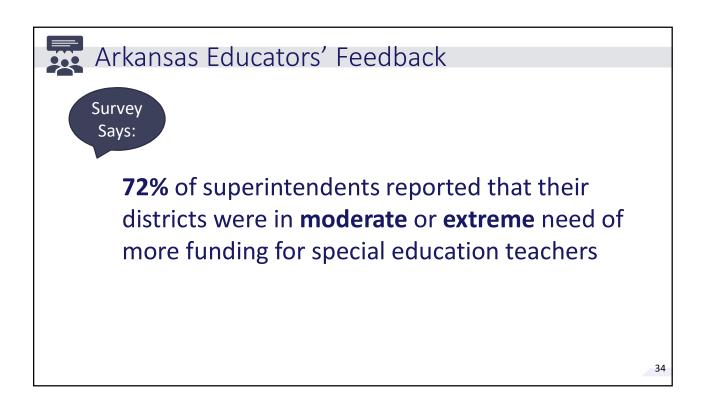
- 2. Fund based on actual students in special education served
 - Weighted System (Single or Multiple Weights)
 - Multi-weight system would align resources to levels of services students need in each district

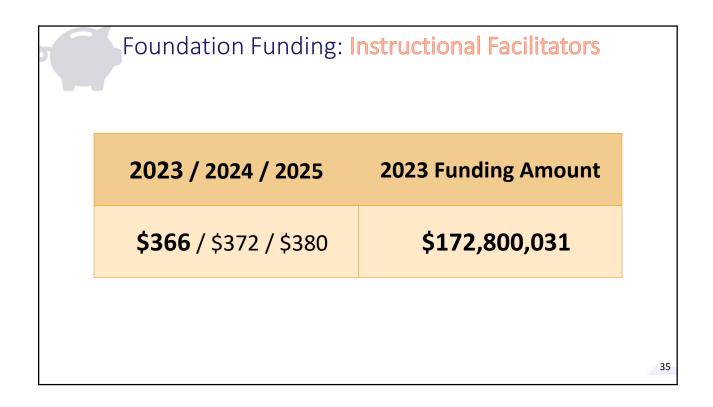
Research and Best Practices					
Special Education Funding Mechanism in Other States (Part 1)					
Hybrid	22 states				
Using two or more funding me	echanisms				
Multiple Student Weights	Multiple Student Weights 20 states + DC				
Student weights or dollars am	Student weights or dollars amounts based on certain factors or student needs				
High-Cost	17 states				
Often paired with other methods – Covers part or all expenses above specific threshold					
Census-Based 13 states					
Based on assumed level of total enrollment, regardless of actual demographics					

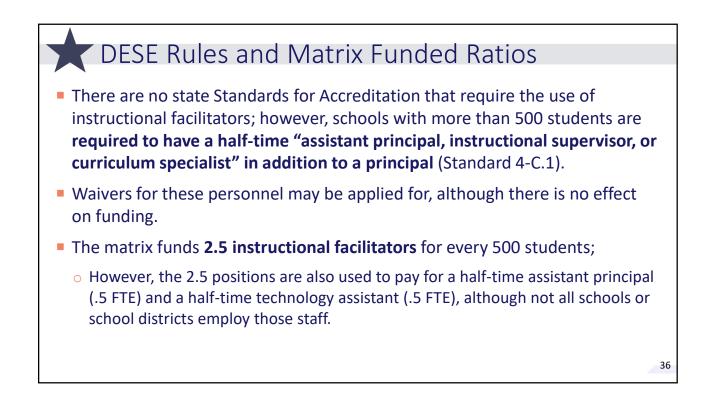


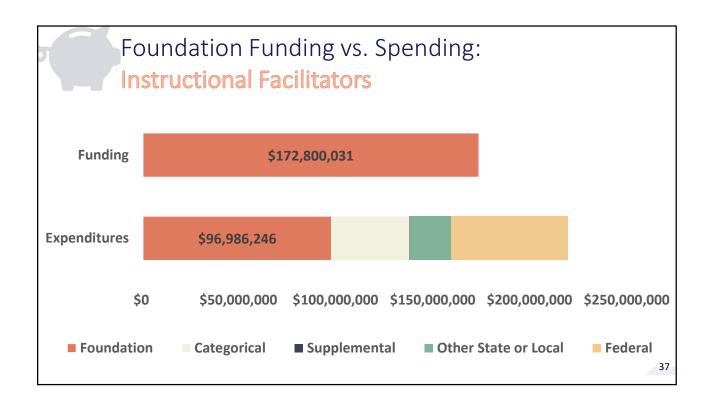


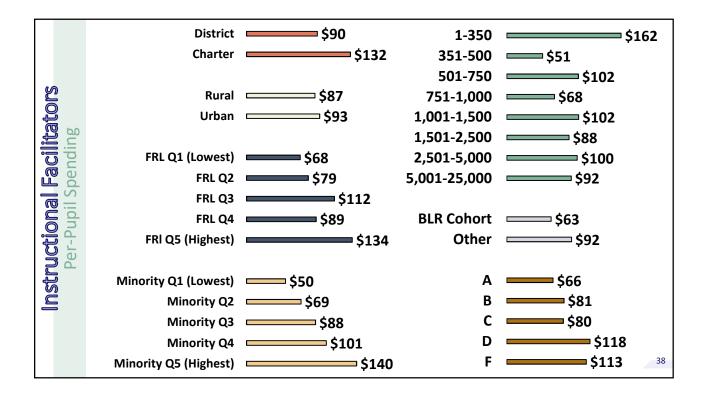


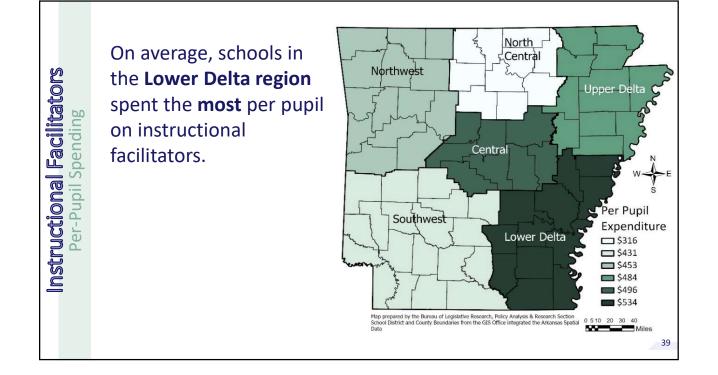








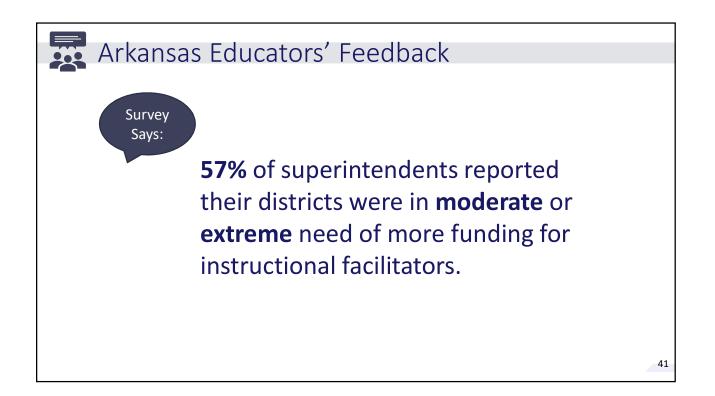




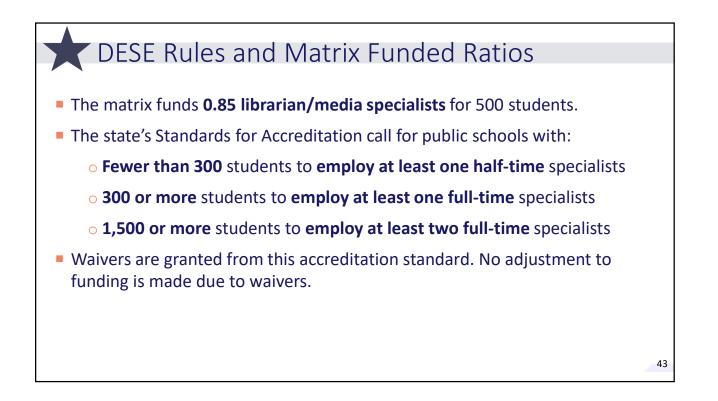
2023 Matrix Teacher-Student Ratio	Evidence-Based Model
2.5:500	2.25:450 elementary and middle schools
	3:600 high schools

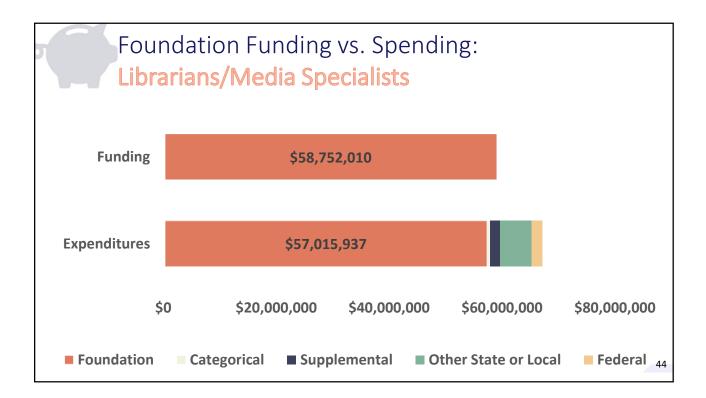
Research cited by Odden & Picus shows nearly all improving schools provide resources to:

- Fund instructional coaches to not only design the instructional program
- Work with school-based data teams and provide the ongoing coaching and mentoring necessary for teachers to improve their practice at scale

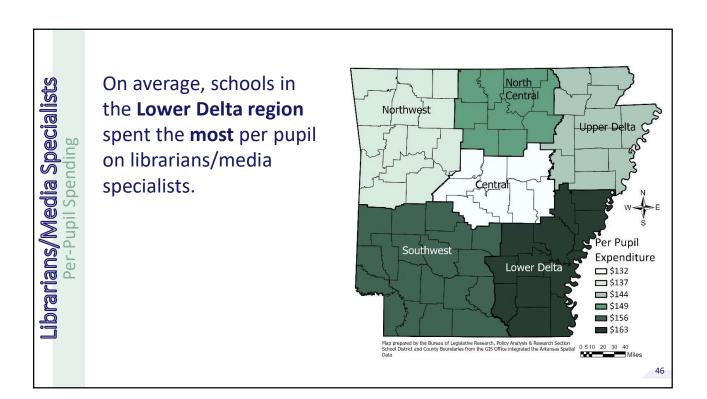


2023 / 2024 / 2025	2023 Funding Amount
\$124 / \$127 / \$129	\$58,752,010

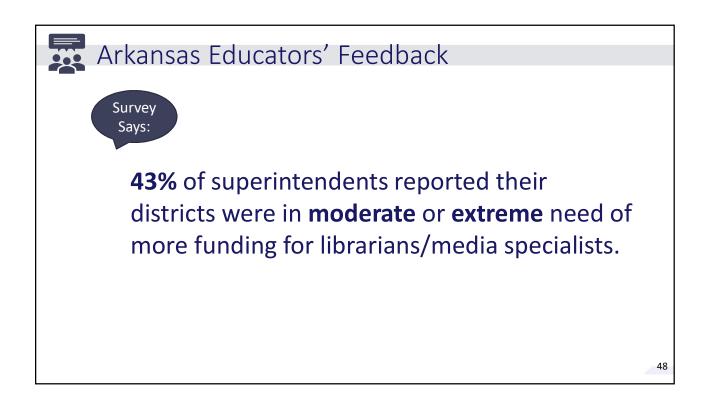


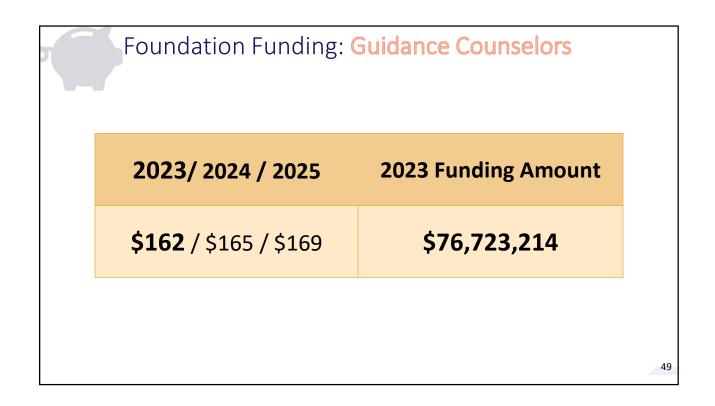


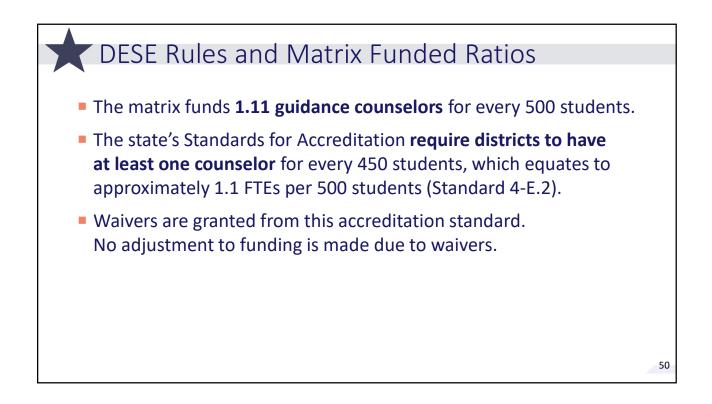
	District	\$149	1-350	 \$127	
	Charter	□\$6	351-500	 \$159	
ş			501-750	 \$204	
	Rural	\$158	751-1,000	\$164	
C.	Urban	\$122	1,001-1,500	 \$155	
Specialists ^{nding}			1,501-2,500	\$149	
S p	FRL Q1 (Lowest)	\$118	2,501-5,000	 \$114	
pe lia	FRL Q2	\$133	5,001-25,000	 \$136	
E S	FRL Q3	\$155			
∑ dn	FRL Q4	\$150	BLR Cohort	 \$157	
r-P	FRI Q5 (Highest)	\$167	Other	\$140	
Librarians/Media Per-Pupil Spe					
a li	Minority Q1 (Lowest)	\$157	Α	 \$122	
g	Minority Q2	\$156	В	 \$137	
	Minority Q3	\$129	C	\$146	
	Minority Q4	\$138	D	 \$139	
	Minority Q5 (Highest)	\$135	F	\$169	45

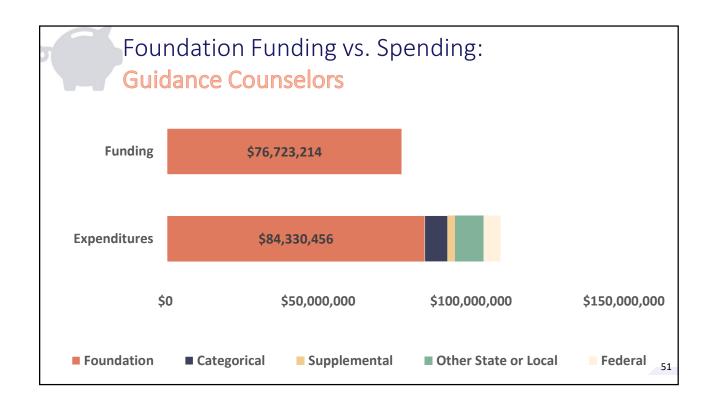


Research and Best Practic Librarian/Media Specialist		 The Odden & Picus evidence-based model provides for 1.0 library/media FTE position for each prototypical
2023 Matrix	Evidence-Based Model	school.
Teacher-Student F	1:450 elementary and middle schools 1:600 high school	 APA reported the funding in the matrix is below recommendations found in other state adequacy studies. Both APA and O&P cite studies that suggest resources of at least 1.0 library/media specialist FTE. A 2012 Colorado study using data from 2005-2011 showed that students with access to licensed librarians working full time performed better on state reading assessments.

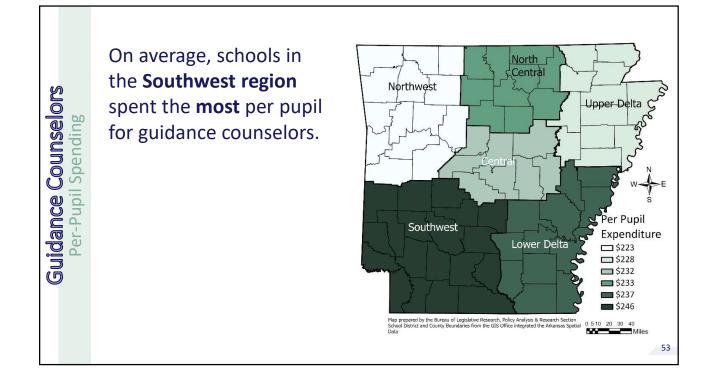






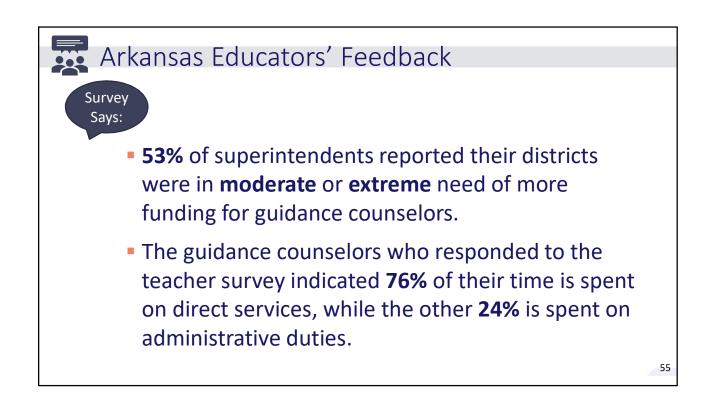


	District	\$233	1-350	\$246
	Charter	\$188	351-500	\$257
			501-750	\$256
S	Rural	\$231	751-1,000	\$213
Ő	Urban	\$229	1,001-1,500	\$222
			1,501-2,500	\$214
Counselors Spending	FRL Q1 (Lowest)	\$218	2,501-5,000	 \$230
pe De	FRL Q2	\$238	5,001-25,000	\$236
	FRL Q3	\$230		
n C	FRL Q4	\$241	BLR Cohort	\$238
- D	FRI Q5 (Highest)	\$230	Other	\$230
Guidance Per-Pup				
3	Minority Q1 (Lowest)	\$226	Α	\$214
	Minority Q2	 \$218	В	\$221
	Minority Q3	\$222	C	\$233
	Minority Q4	\$232	D	\$242
	Minority Q5 (Highest)	\$254	F	\$224 52



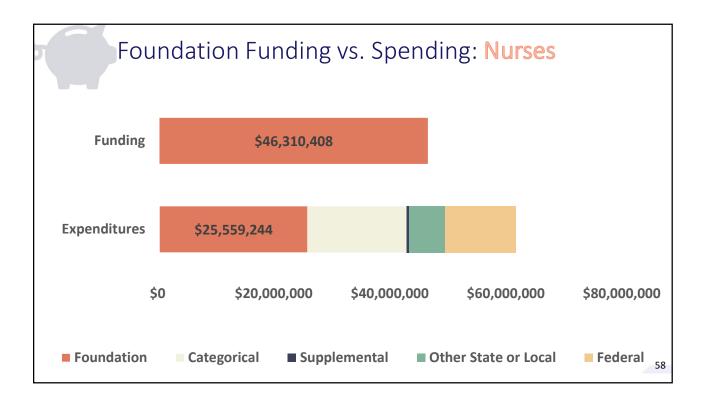
	3 Matrix Student Ratio	Evidence-Based Model
1.	11:500	1:450 grades K-5
		1:250 grades 6-12

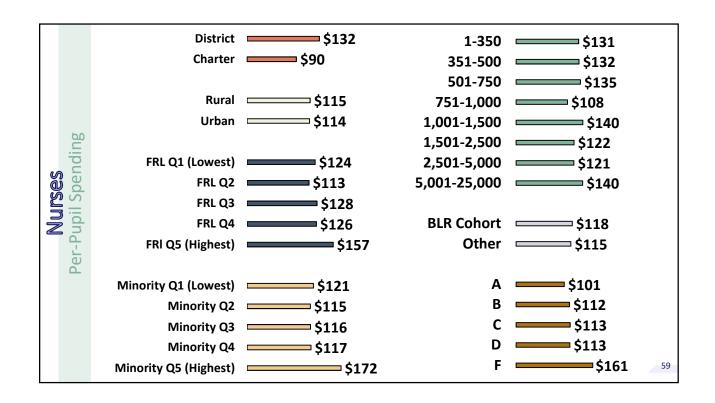
Odden & Picus cite numerous research studies that show school counseling programs designed after the model developed by the American School Counselor Association (ASCA) using a 1:250 ratio has a positive impact on student learning, achievement test scores, and graduation rates.

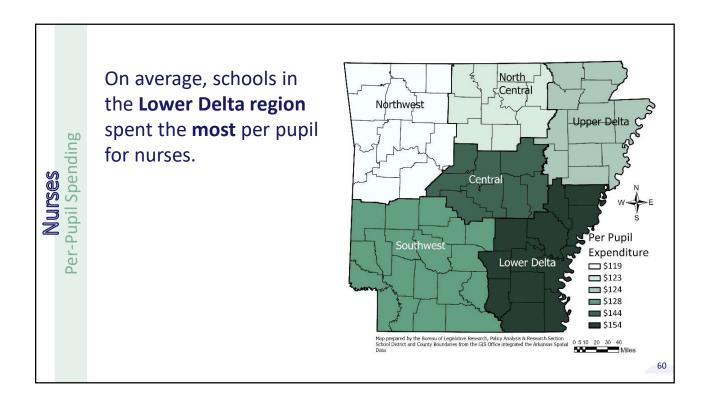


2023 / 2024 / 2025	2023 Funding Amount
\$98 / \$100 / \$102	\$46,310,408

DESE Rules and Matrix Funded Ratios The matrix funds .67 FTE nurses for every 500 students. State law requires districts to have at least one nurse per 750 students (§ 6-18-706(c)(1)). The law also notes that districts with "a high concentration of children with disabling conditions as determined by the State Board of Education ... should" have a nurse-to-student requirement of 1:400. In districts that "provide a center for profoundly disabled students," the ratio "should" be 1:125. [§ 6-18-706(c)(2) and (3)]. However, the law also includes a provision that makes these requirements effective "only upon the availability of state funds" (§ 6-18-706(e)(1)).



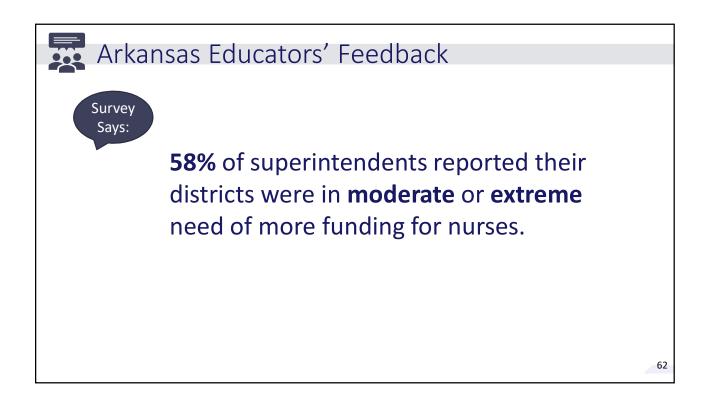


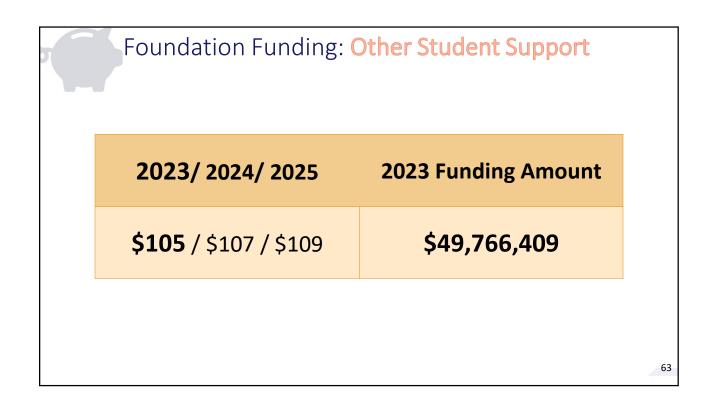


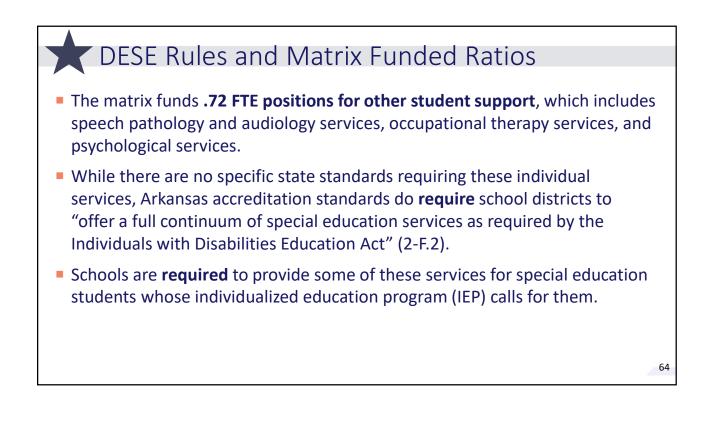
Nurses

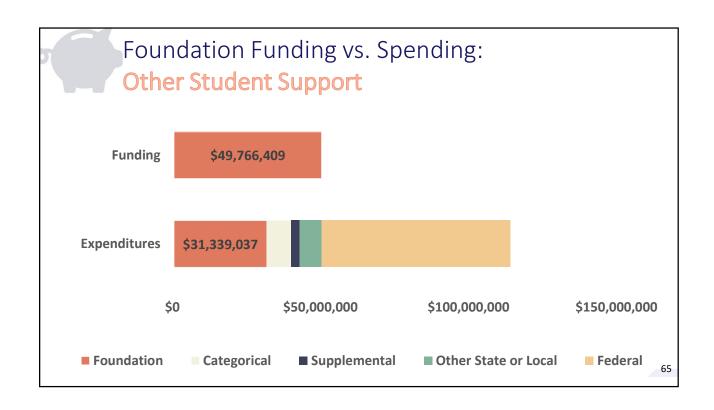
2023 Matrix Nurse-Student Ratio	Evidence-Based Model
0.67:500	1:750

- The evidenced-based model uses the staffing standard of the National Association of School Nurses.
- This allocation allows districts to provide a half-time nurse in each prototypical elementary and middle school and a fulltime nurse in each prototypical high school.
- The National Association of School Nurses defines school nursing as a specialized practice of nursing that protects and promotes student health and advances academic success. It is the association's position that a full-time registered school nurse be present in every school, every day.

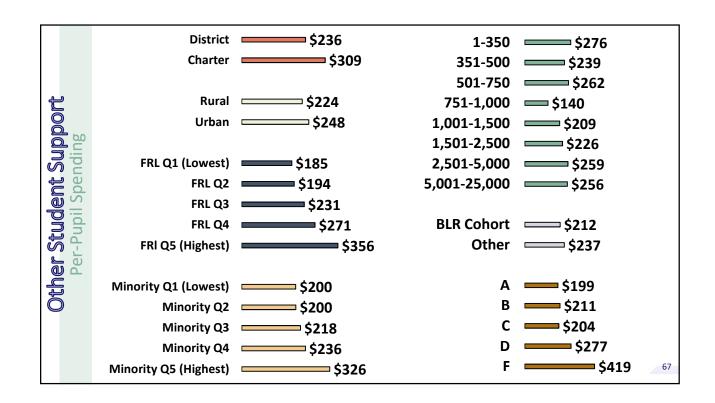


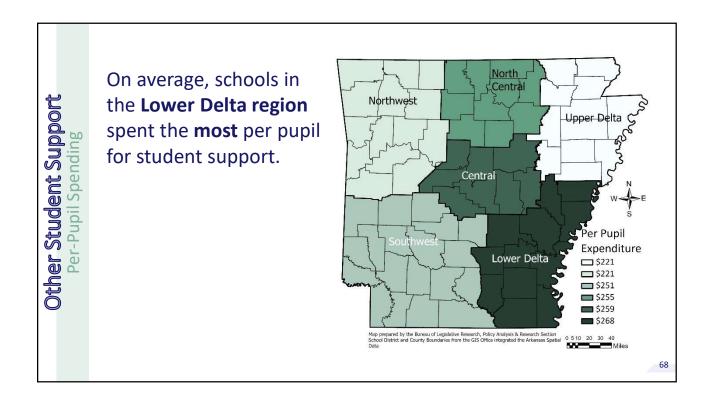




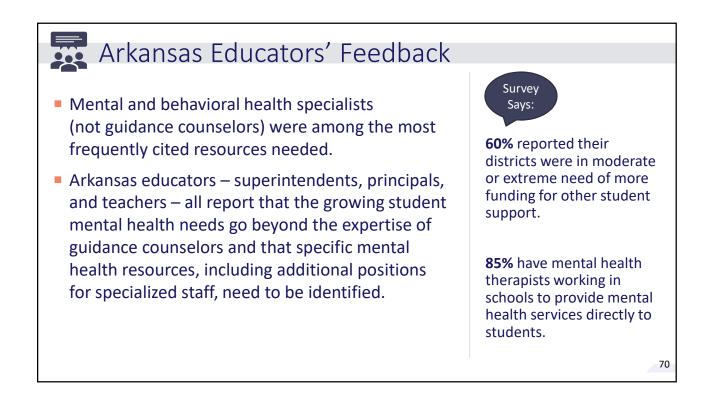


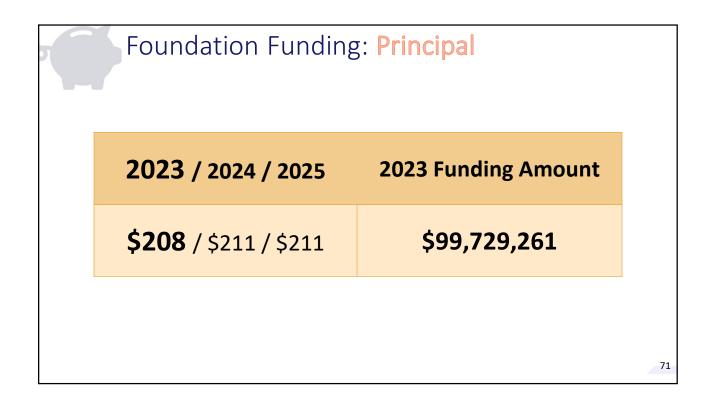
OTHER STUDENT SUPPO	ORT	
Function Description	2023 Foundation Expenditures	2023 Total Expenditures
Physical and Occupational Therapy	\$11.1 M	\$38.4 M
Speech Pathology and Audiology Services	\$7.9 M	\$28.3 M
Psychological Testing and Services	\$8.4 M	\$23.7 M
Attendance and Social Work Services	\$2.4 M	\$12.2 M
Parental Involvement	\$898K	\$7.5 M
School Based Mental Health	\$604K	\$3 M
Total	\$31.3 M	\$113.1 M
		66

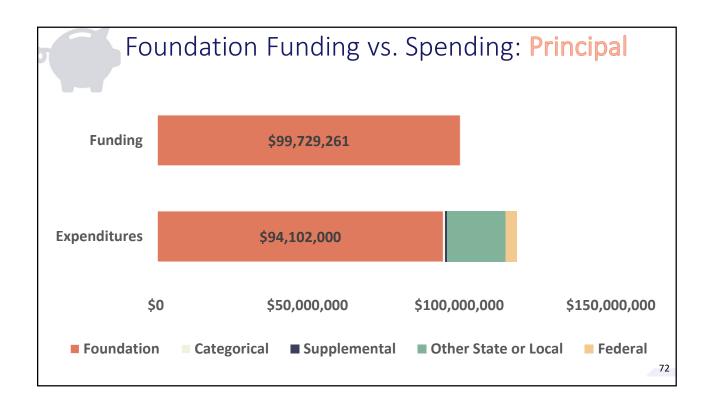


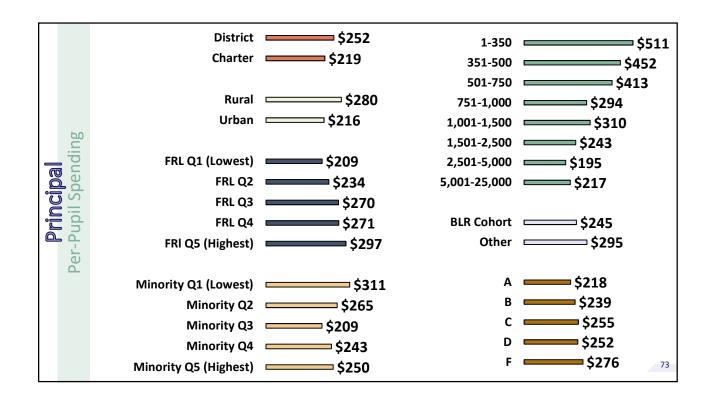


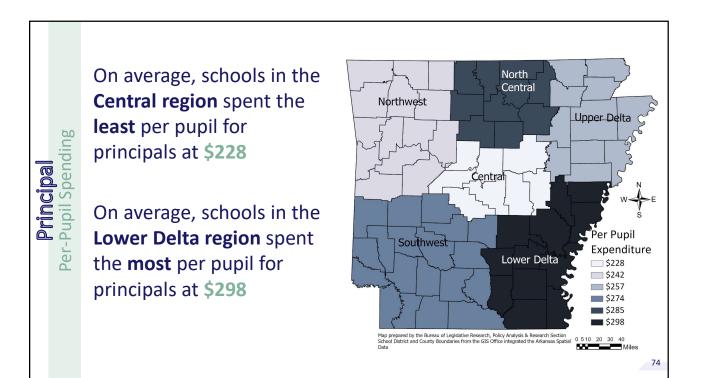
Research and Best P	Practices		
Other Student Support		2023 Matrix Support Staff-Student Ratio 0.72:500]
Professional Association	Recommended Staffin	g Level	
American School Counselor Association	250:1 student to schoo	ol counselors	
National Association of School Psychologists	250:1 for school couns 500-700:1 for school p 400:1 for school social	sychologists	
National Association of Social Workers		workers, unless working with e needs, when a lower ration is	

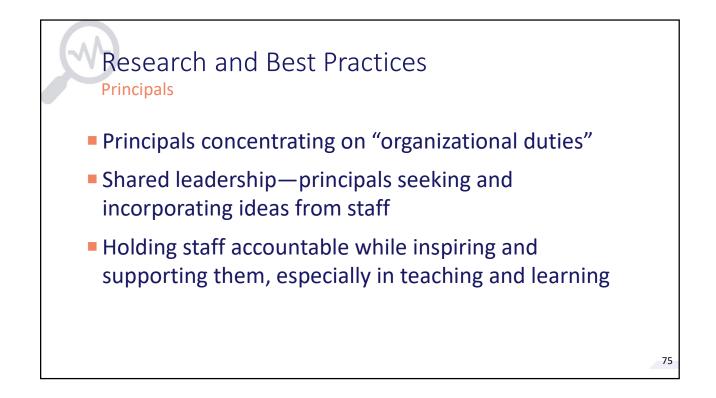


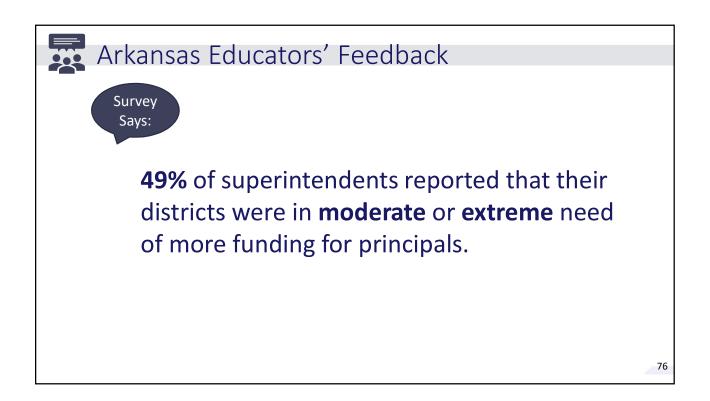


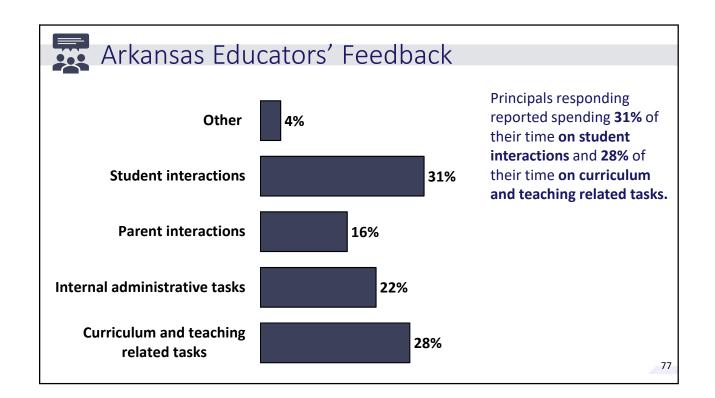


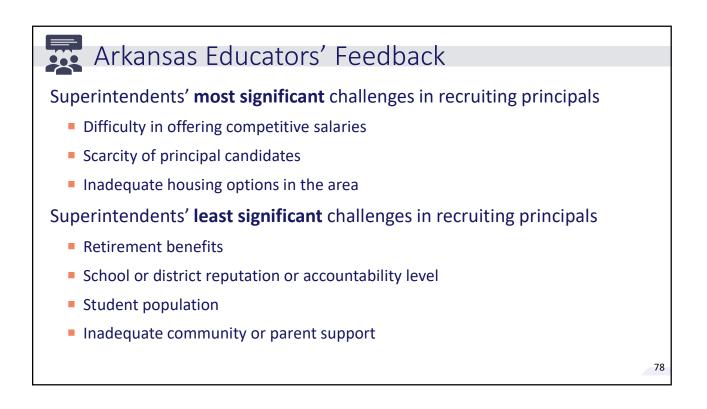


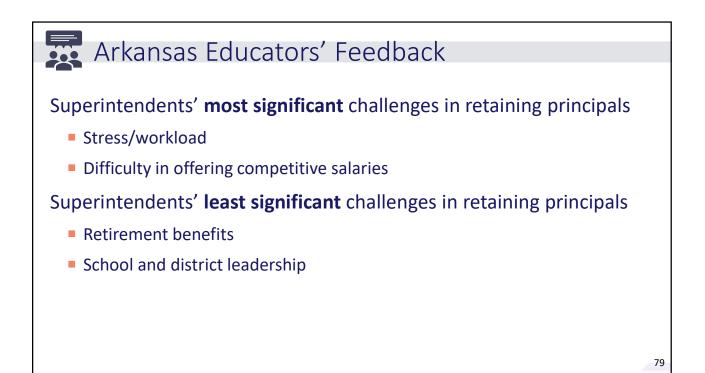












Foundation Funding	: Secretary
2023 / 2024 / 2025	2023 Funding Amount
\$86 / \$91 / \$92	\$42,030,042

