



Research Report

Resource Allocation: School-level Resources

2020 ADEQUACY / JUNE 9, 2020

Arkansas Code § 10-3-2102:

2

“Review and continue to evaluate the amount of per-student expenditure necessary to provide an equal educational opportunity and the amount of state funds to be provided to school districts, **based upon the cost of an adequate education**, and monitor the expenditures and distribution of state funds and recommend any necessary changes.”

Three main sections of the funding matrix:

- ▶ School-level staffing (March)
- ▶ District-level resources (April)
- ▶ School-level resources (today)

Today's Topics

RA: School-level Resources

- ▶ Technology
- ▶ Instructional Materials
- ▶ Extra Duty Funds
- ▶ Supervisory Aides
- ▶ Substitutes
- ▶ Other Nonmatrix

And then...

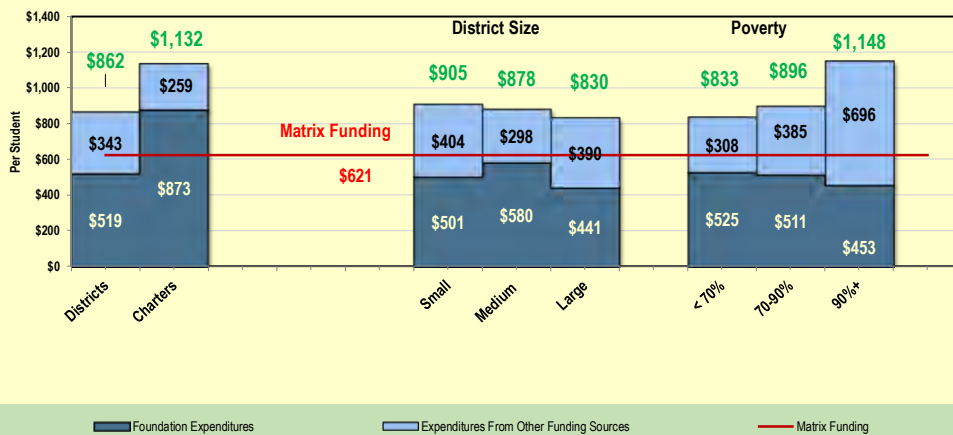
- District level comparisons
- COVID-19 Technology Survey

School-level Resources	Per-Student Funding
Technology	\$250.00
Instructional Materials	\$183.10
Extra Duty Funds	\$66.20
Supervisory Aides	\$50
Substitutes	\$71.80

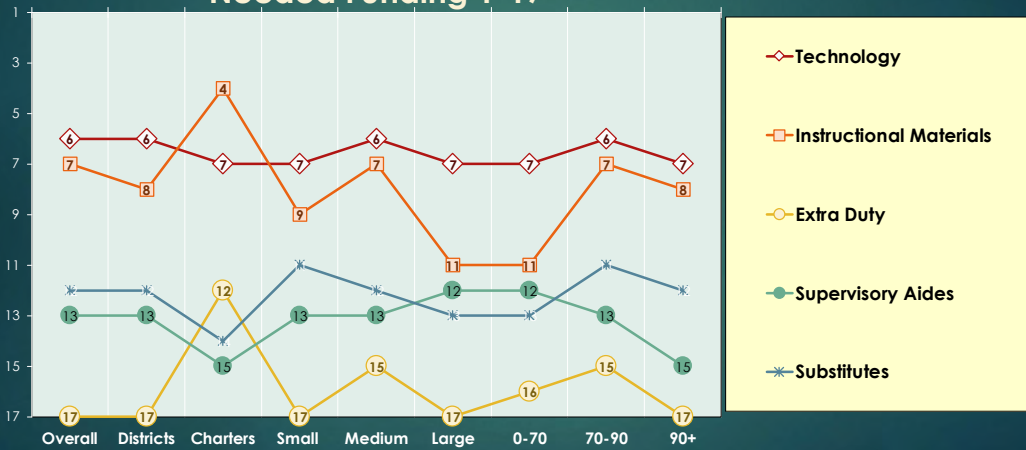
9.2% of \$6,781

- 8.3% of spending with foundation funds

Expenditures for School-Level Resources Per Student



School-level Resources: Matrix Resources Most Needed Funding 1-17



	2018	2019	2020	2021
Per-Student Rate	\$250	\$250	\$250	\$250
% Change	0%	0%	0%	0%

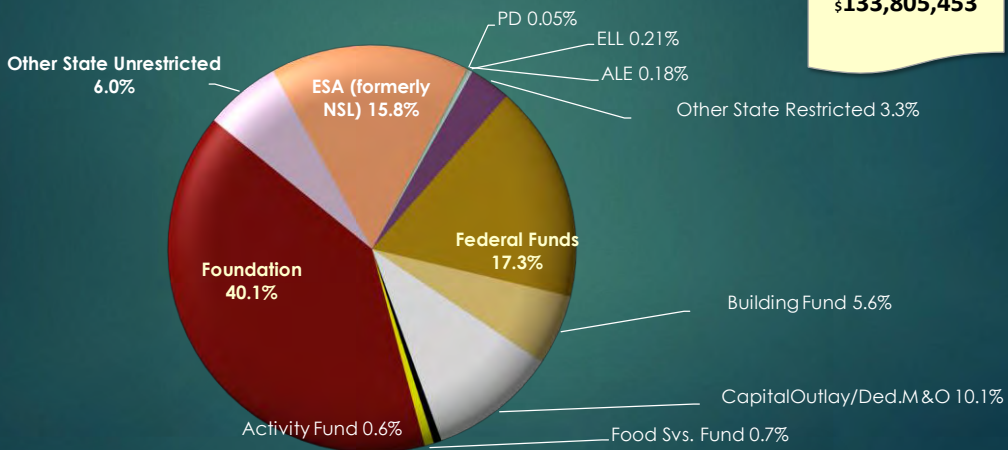
Technology: Foundation Funding and Expenditures

	Funding	Expenditures
2016-17	\$118,157,350	\$47,359,787
2018-19	\$119,399,150	\$48,832,714

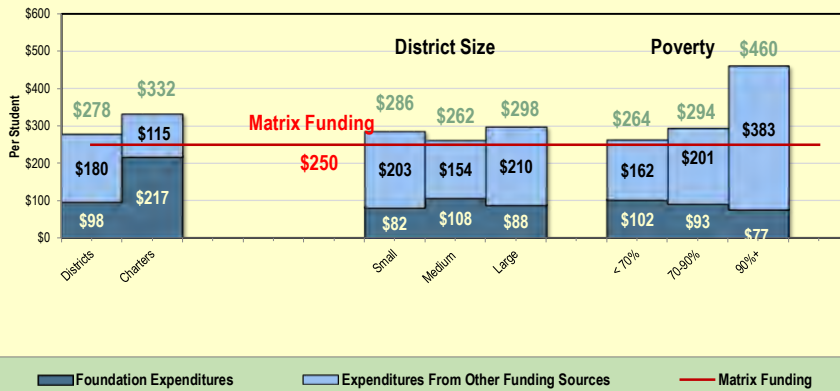
45 cents of every \$1 of foundation funds

\$1.12 from all funds for every \$1 provided in the matrix

2018-19 Technology Expenditures by Source



Expenditures for Technology Per Student



	Broadband Expenditures	Districts/Charters Reporting Any Broadband Expenditures
2013-14	\$4,672,085	120
2014-15	\$7,350,475	189
2015-16	\$8,987,522	196
2016-17	\$6,352,333	163
2017-18	\$5,633,092	141
2018-19	\$4,457,455	133

Digital or Distance Learning

- ▶ Graduation requirement/must offer since 2014-15 (Act 1280 of 2013)
- ▶ 127,000 students in 2018-19
- ▶ 6,600 courses in 246 school districts/charter systems
- ▶ Facilitators: non-licensed paraprofessionals most common, teachers second most common

Digital or Distance Learning

- 3 courses with most enrollment: Health and Wellness (.5 credit), Survey of Business, English 10
- Pros: access, credit recovery / Cons: distractions, need for self-discipline, less learning

Instructional Materials

	2018	2019	2020	2021
Per-Student Rate	\$183.10	\$183.10	184.2	187.9
% Change	0%	0%	.6%	2%

Instructional Materials: Foundation Funding and Expenditures

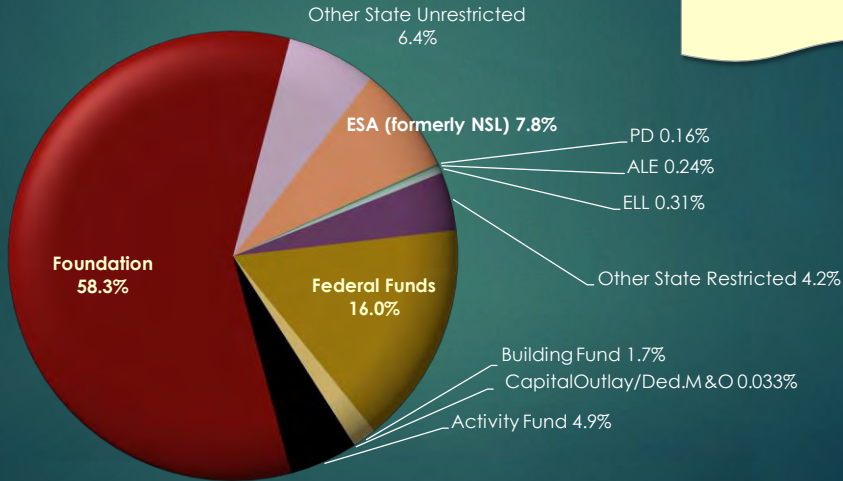
	Funding	Expenditures
2016-17	\$86,538,443	\$59,265,914
2018-19	\$87,447,937	\$68,183,267

78 cents every \$1
foundation funds

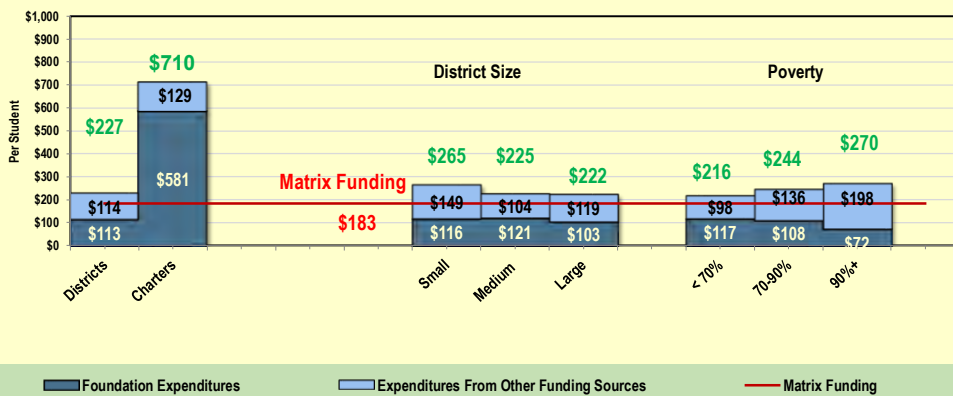
\$1.34 from all funds for
every \$1 provided in the
matrix

2018-19 Instructional Materials Expenditures by Source

Total
\$117,027,156



Expenditures for Instructional Materials Per Student



2016-17 National Center for Education Statistics Rankings

Arkansas spent \$409/student on instructional materials and \$49/student on text books

	Instructional Supplies: Arkansas's Rank	Textbooks: Arkansas's Rank
All States and Washington D.C. (51)	7 th highest	23 rd highest
SREB States (16)	3 rd highest	7 th highest
Surrounding States (7, including AR*)	2 nd highest	4 th highest

Teacher Purchases

- ▶ 2018: 20,623 teachers claimed an average \$238 (DFA)
- ▶ 85% of all teachers reported spending an average \$329
- ▶ 90% of elementary teachers did (\$20 to \$4,000)

Extra Duty Funds

	2018	2019	2020	2021
Per-Student Rate	\$65.50	\$66.20	\$66.20	\$66.20
% Change	1%	1%	0%	0%

Extra Duty: Foundation Funding and Expenditures

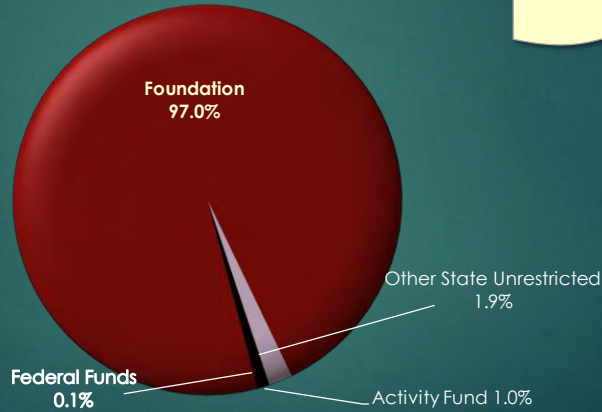
	Funding	Expenditures
2016-17	\$30,673,648	\$93,438,671
2018-19	\$31,616,895	\$104,511,997

\$3.31 for every \$1 of foundation funds

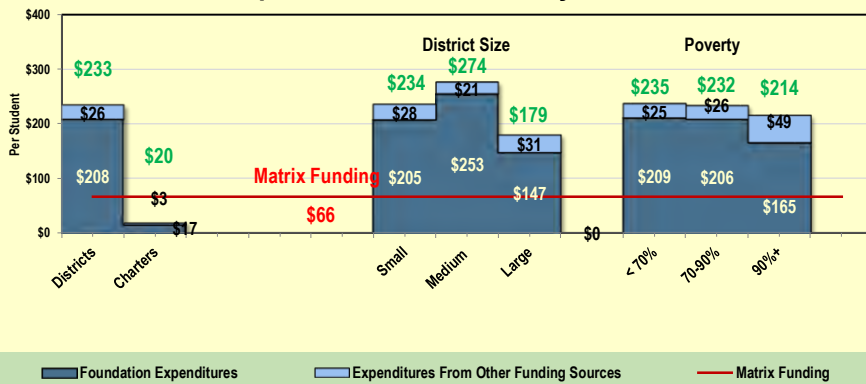
\$3.41 for every \$1 in the matrix from all funds

2018-19 Extra Duty Expenditures by Source

Total
\$107,706,878



Expenditures for Extra Duty Per Student



Supervisory Aides

	2018	2019	2020	2021
Per-Student Rate	\$50	\$50	\$50	\$50
% Change	0%	0%	0%	0%

Supervisory Aides: Foundation Funding and Expenditures

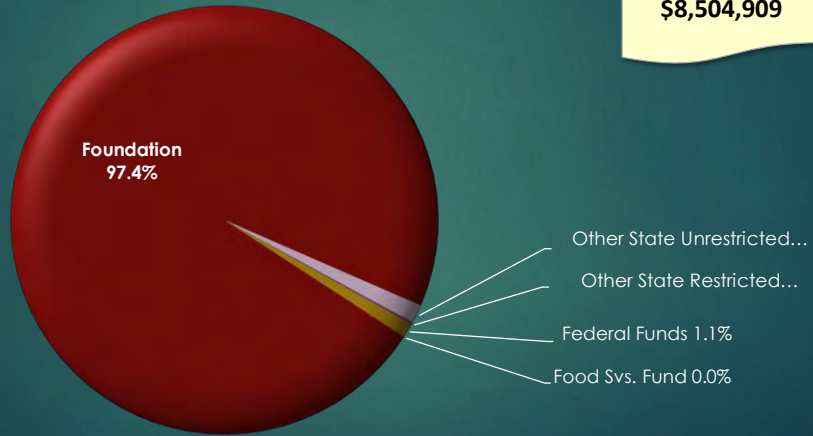
	Funding	Expenditures
2016-17	\$23,631,470	\$7,032,843
2018-19	\$23,780,000	\$7,568,570

35 cents of every \$1 of foundation funds

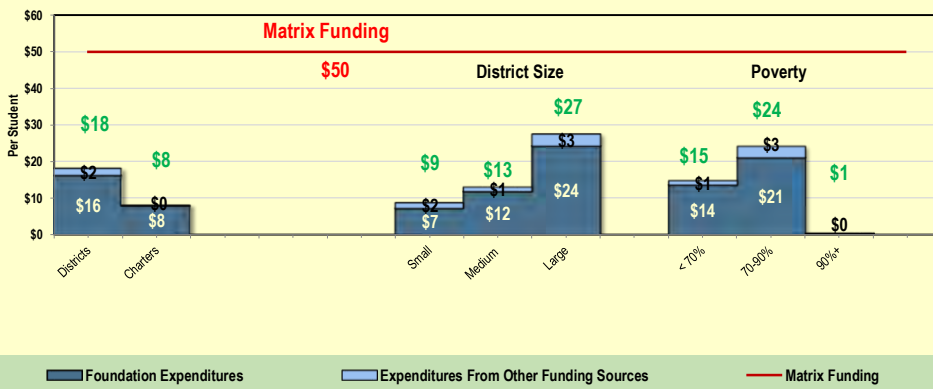
36 cents for every \$1 in the matrix from all funds

2018-19 Supervisory Aide Expenditures by Source

Total
\$8,504,909



Expenditures for Supervisory Aides Per Student



Substitutes

	2018	2019	2020	2021
Per-Student Rate	\$70.40	\$71.80	\$71.80	\$71.80
% Change	2%	2%	0%	0%

Substitutes: Foundation Funding and Expenditures

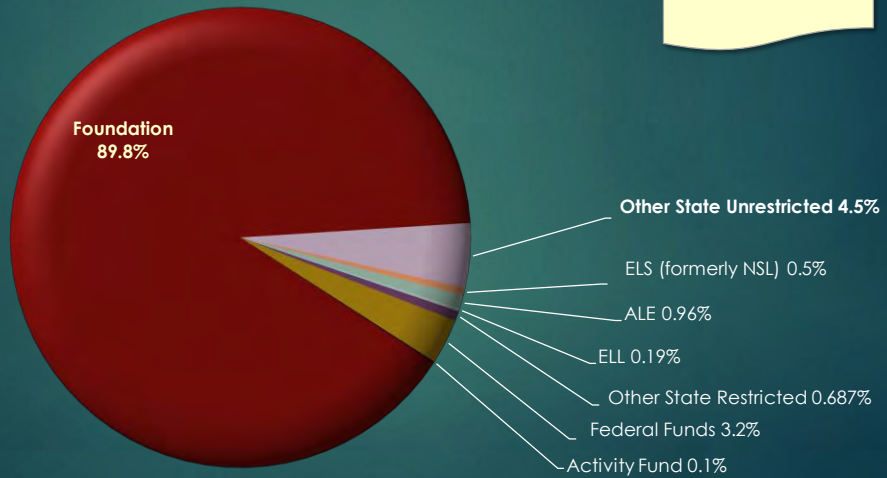
	Funding	Expenditures
2016-17	\$32,611,429	\$39,007,176
2018-19	\$34,291,436	\$39,443,485

\$1.29 for every \$1 of foundation funds

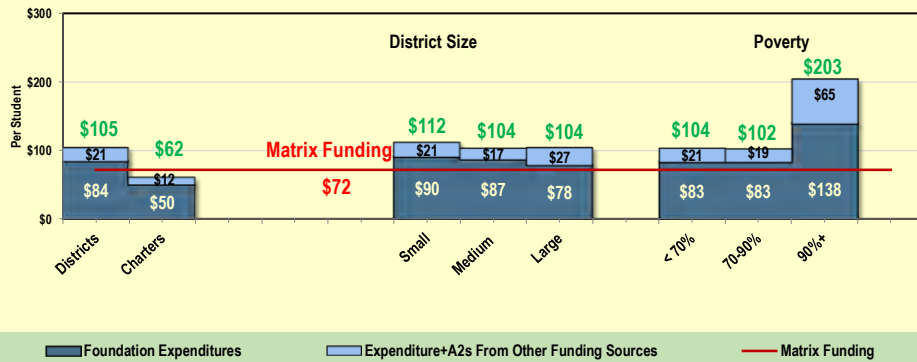
\$1.44 for every \$1 of matrix funds from all funds

2018-19 Substitute Expenditures by Source

Total
\$49,274,949



Expenditures for Substitutes Per Student



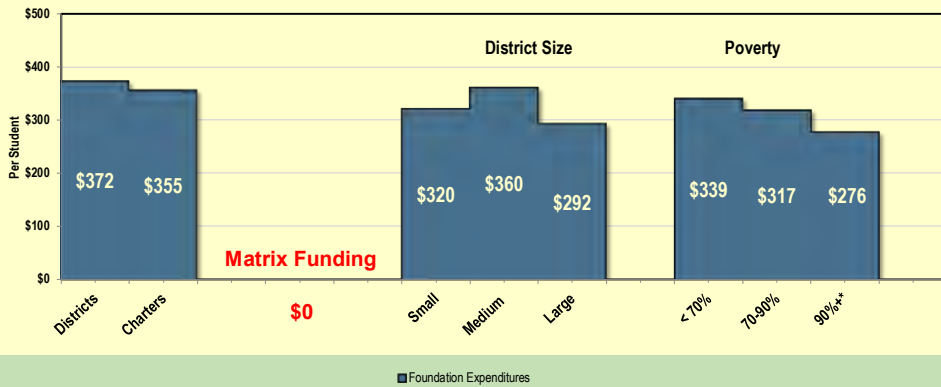
Other Non-Matrix Items: Foundation Funding and Expenditures

	Funding	Expenditures
2015-16	\$0	\$178,726,695
2018-19	\$0	\$177,464,818

Top Expenses Not in the Matrix

- ▶ Instructional aides: **\$69.5 million**
- ▶ Other instructional supplies and objects: **\$33 million**
- ▶ Athletic supplies and transportation: **\$24 million**

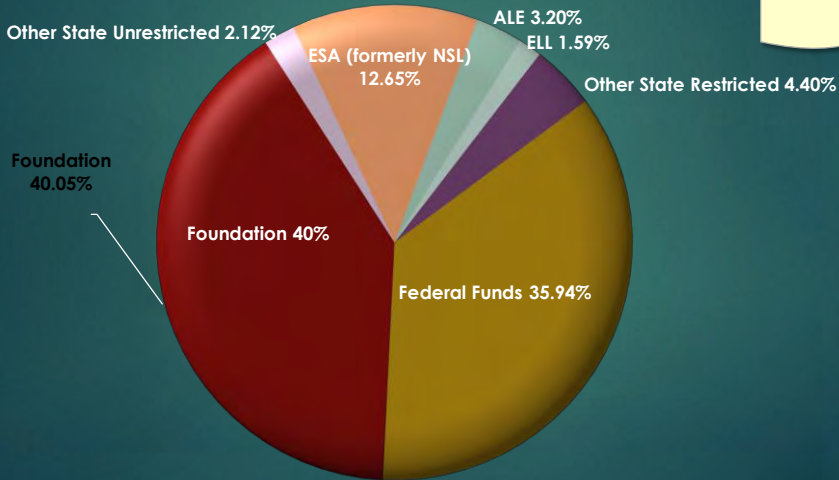
2018-19 Foundation Funding Expenditures Per Student for Non-Matrix Items



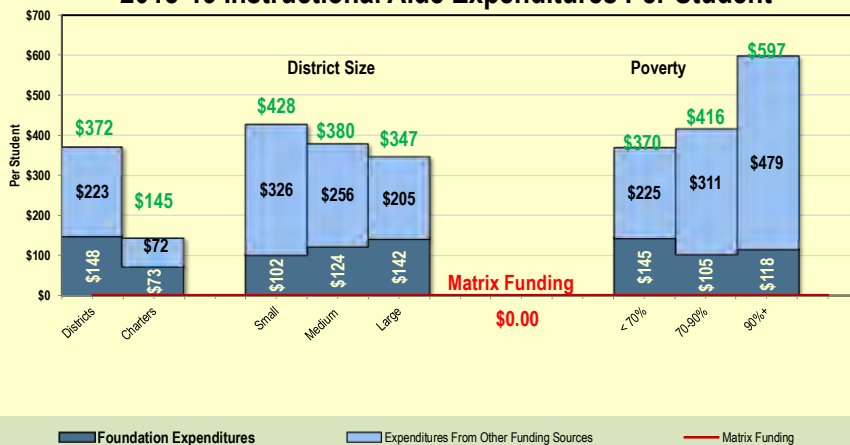
	Instructional Aides: Foundation Funding	Instructional Aides: Foundation Expenditures
2016-17	\$0	\$61,953,273
2018-19	\$0	\$69,502,990

2018-19 Instructional Aides Expenditures by Source

Total
\$182,380,603



2018-19 Instructional Aide Expenditures Per Student



District Comparisons

39

- ▶ Classroom Teachers: \$3,282.65
- ▶ Matrix Additional Fund Rank: 1

Per Pupil Expenditures (red = below matrix; green = above matrix)

Fund Source	Regular Districts	Charter Schools	Small	Medium	Large	Low <70% ESA	Med 70%-90% ESA	High >90%
Foundation Only	\$3,018	\$2,665	\$2,927	\$2,940	\$3,144	\$3,035	\$3,001	\$2,728
All Funds	\$3,655	\$3,015	\$3,704	\$3,444	\$3,925	\$3,657	\$3,639	\$3,958

District Comparisons

40

- ▶ Special Education Teachers: \$381.72
- ▶ Matrix Additional Fund Rank: 2

Per Pupil Expenditures (red = below matrix; green = above matrix)

Fund Source	Regular Districts	Charter Schools	Small	Medium	Large	Low <70% ESA	Med 70%-90% ESA	High >90%
Foundation Only	\$384	\$166	\$304	\$357	\$440	\$401	\$360	\$330
All Funds	\$508	\$272	\$417	\$457	\$599	\$535	\$467	\$470

District Comparisons

41

- ▶ **Instructional Facilitators:** \$329.72
- ▶ **Matrix Additional Fund Rank:** 5

Per Pupil Expenditures (red = below matrix; green = above matrix)

Fund Source	Regular Districts	Charter Schools	Small	Medium	Large	Low <70% ESA	Med 70%-90% ESA	High >90%
Foundation Only	\$194	\$130	\$62	\$163	\$267	\$203	\$182	\$119
All Funds	\$381	\$268	\$223	\$325	\$495	\$357	\$413	\$554

District Comparisons

42

- ▶ **Library Media Specialists:** \$111.88
- ▶ **Matrix Additional Fund Rank:** 16

Per Pupil Expenditures (red = below matrix; green = above matrix)

Fund Source	Regular Districts	Charter Schools	Small	Medium	Large	Low <70% ESA	Med 70%-90% ESA	High >90%
Foundation Only	\$121	\$8	\$136	\$126	\$110	\$118	\$127	\$106
All Funds	\$134	\$9	\$158	\$136	\$126	\$132	\$138	\$131

District Comparisons

- ▶ **Counselors:** \$146.11
- ▶ **Matrix Additional Fund Rank:** 8

Per Pupil Expenditures (red = below matrix; green = above matrix)

Fund Source	Regular Districts	Charter Schools	Small	Medium	Large	Low <70% ESA	Med 70%-90% ESA	High >90%
Foundation Only	\$169	\$79	\$151	\$166	\$178	\$172	\$165	\$132
All Funds	\$202	\$90	\$209	\$194	\$211	\$202	\$201	\$228

District Comparisons

- ▶ **Nurses:** \$88.19
- ▶ **Matrix Additional Fund Rank:** 11

Per Pupil Expenditures (red = below matrix; green = above matrix)

Fund Source	Regular Districts	Charter Schools	Small	Medium	Large	Low <70% ESA	Med 70%-90% ESA	High >90%
Foundation Only	\$52	\$57	\$59	\$45	\$60	\$65	\$32	\$52
All Funds	\$102	\$74	\$95	\$95	\$112	\$103	\$97	\$159

District Comparisons

- ▶ **Other Pupil Support: \$94.77**
- ▶ **Matrix Additional Fund Rank: 10**

Per Pupil Expenditures (red = below matrix; green = above matrix)

Fund Source	Regular Districts	Charter Schools	Small	Medium	Large	Low <70% ESA	Med 70%-90% ESA	High >90%
Foundation Only	\$61	\$88	\$38	\$45	\$88	\$58	\$67	\$40
All Funds	\$174	\$226	\$155	\$156	\$204	\$162	\$193	\$233

District Comparisons

- ▶ **Principal: \$198.10**
- ▶ **Matrix Additional Fund Rank: 9**

Per Pupil Expenditures (red = below matrix; green = above matrix)

Fund Source	Regular Districts	Charter Schools	Small	Medium	Large	Low <70% ESA	Med 70%-90% ESA	High >90%
Foundation Only	\$194	\$229	\$276	\$205	\$160	\$185	\$207	\$223
All Funds	\$220	\$239	\$317	\$226	\$188	\$213	\$227	\$289

District Comparisons

- ▶ **School-level Secretary:** \$81.70
- ▶ **Matrix Additional Fund Rank:** 15

Per Pupil Expenditures (red = below matrix; green = above matrix)

Fund Source	Regular Districts	Charter Schools	Small	Medium	Large	Low <70% ESA	Med 70%-90% ESA	High >90%
Foundation Only	\$124	\$156	\$112	\$119	\$134	\$122	\$128	\$108
All Funds	\$141	\$163	\$131	\$129	\$159	\$141	\$142	\$132

District Comparisons

- ▶ **Technology:** \$250
- ▶ **Matrix Additional Fund Rank:** 5

Per Pupil Expenditures (red = below matrix; green = above matrix)

Fund Source	Regular Districts	Charter Schools	Small	Medium	Large	Low <70% ESA	Med 70%-90% ESA	High >90%
Foundation Only	\$98	\$217	\$82	\$108	\$88	\$102	\$93	\$77
All Funds	\$278	\$332	\$286	\$262	\$298	\$264	\$294	\$460

District Comparisons

- ▶ **Instructional Materials:** \$183.10
- ▶ **Matrix Additional Fund Rank:** 7

Per Pupil Expenditures (red = below matrix; green = above matrix)

Fund Source	Regular Districts	Charter Schools	Small	Medium	Large	Low <70% ESA	Med 70%-90% ESA	High >90%
Foundation Only	\$113	\$581	\$116	\$121	\$103	\$117	\$108	\$72
All Funds	\$227	\$710	\$265	\$225	\$222	\$216	\$244	\$270

District Comparisons

- ▶ **Extra Duty Funds:** \$66.20
- ▶ **Matrix Additional Fund Rank:** 17

Per Pupil Expenditures (red = below matrix; green = above matrix)

Fund Source	Regular Districts	Charter Schools	Small	Medium	Large	Low <70% ESA	Med 70%-90% ESA	High >90%
Foundation Only	\$208	\$17	\$205	\$253	\$147	\$209	\$206	\$165
All Funds	\$233	\$20	\$234	\$274	\$179	\$235	\$232	\$214

District Comparisons

51

- ▶ **Supervisory Aides: \$50**
- ▶ **Matrix Additional Fund Rank: 13**

Per Pupil Expenditures (red = below matrix; green = above matrix)

Fund Source	Regular Districts	Charter Schools	Small	Medium	Large	Low <70% ESA	Med 70%-90% ESA	High >90%
Foundation Only	\$16	\$8	\$7	\$12	\$24	\$14	\$21	\$0
All Funds	\$18	\$8	\$9	\$13	\$27	\$15	\$24	\$1

District Comparisons

52

- ▶ **Substitutes: \$71.80**
- ▶ **Matrix Additional Fund Rank: 12**

Per Pupil Expenditures (red = below matrix; green = above matrix)

Fund Source	Regular Districts	Charter Schools	Small	Medium	Large	Low <70% ESA	Med 70%-90% ESA	High >90%
Foundation Only	\$84	\$50	\$90	\$87	\$78	\$83	\$83	\$138
All Funds	\$105	\$62	\$112	\$104	\$104	\$104	\$102	\$203

District Comparisons

- ▶ **Operations & Maintenance: \$685**
- ▶ **Matrix Additional Fund Rank: 3**

Per Pupil Expenditures (red = below matrix; green = above matrix)

Fund Source	Regular Districts	Charter Schools	Small	Medium	Large	Low <70% ESA	Med 70%-90% ESA	High >90%
Foundation Only	\$859	\$822	\$926	\$879	\$816	\$815	\$918	\$1,109
All Funds	\$1,059	\$1,456	\$1,242	\$1,055	\$1,020	\$1,016	\$1,109	\$1,531

District Comparisons

- ▶ **Central Office: \$438.80**
- ▶ **Matrix Additional Fund Rank: 14**

Per Pupil Expenditures (red = below matrix; green = above matrix)

Fund Source	Regular Districts	Charter Schools	Small	Medium	Large	Low <70% ESA	Med 70%-90% ESA	High >90%
Foundation Only	\$374	\$843	\$532	\$407	\$292	\$357	\$393	\$620
All Funds	\$528	\$961	\$738	\$523	\$484	\$521	\$522	\$1,007

District Comparisons

- ▶ **Transportation:** \$321.20
- ▶ **Matrix Additional Fund Rank:** 4

Per Pupil Expenditures (red = below matrix; green = above matrix)

Fund Source	Regular Districts	Charter Schools	Small	Medium	Large	Low <70% ESA	Med 70%-90% ESA	High >90%
Foundation Only	\$327	\$69	\$353	\$344	\$297	\$320	\$335	\$392
All Funds	\$418	\$113	\$512	\$422	\$390	\$412	\$420	\$593

District Comparisons

- ▶ **All Matrix Items:** \$6,780.30

Per Pupil Expenditures (red = below matrix; green = above matrix)

Fund Source	Regular Districts	Charter Schools	Small	Medium	Large	Low <70% ESA	Med 70%-90% ESA	High >90%
Foundation Only	\$6,486	\$6,185	\$6,376	\$6,377	\$6,426	\$6,376	\$6,426	\$6,408
All Funds	\$8,383	\$8,018	\$8,807	\$8,040	\$8,743	\$8,285	\$8,464	\$10,433

Technology Needs: COVID-19

57

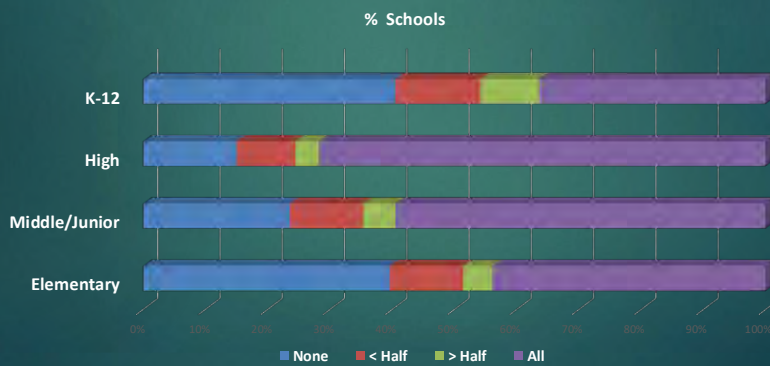
Rate the barriers your district faces in the use of technology during the CORONAVIRUS CRISIS?

- ▶ 1. Tech in homes
- ▶ 2. Broadband (in community; not schools)
- ▶ 3. Parents expertise

Technology Needs: COVID-19

58

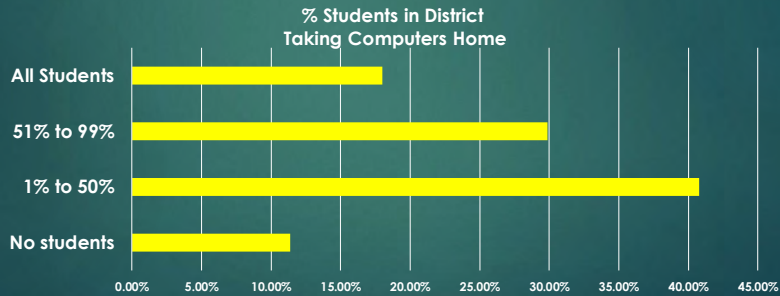
How many of your district's SCHOOLS ALLOWED students to take home school computers (including tablets) during the CORONAVIRUS CRISIS?



Technology Needs: COVID-19

59

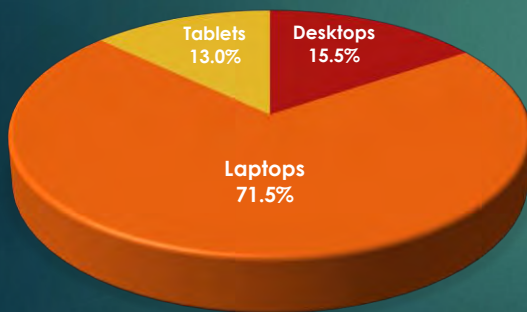
What proportion of your DISTRICT's students were able to take home school computers for at-home learning during the CORONAVIRUS CRISIS?



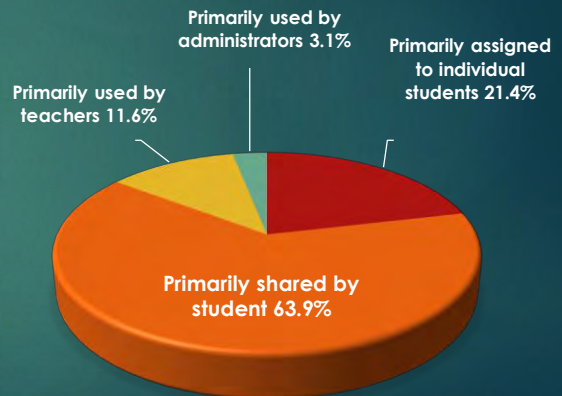
What they told us last fall...

60

TYPES OF DEVICES



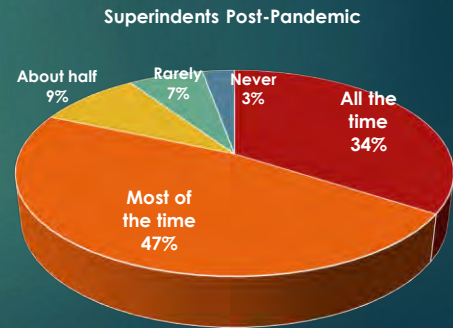
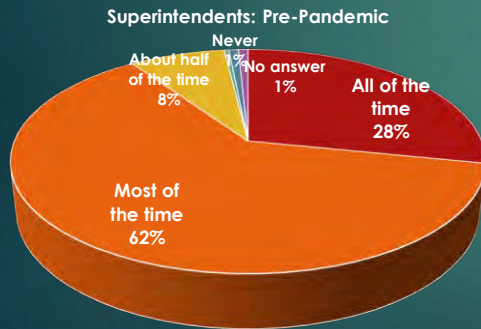
DEVICES USAGE



Technology Needs: COVID-19

61

- ▶ 4. How sufficient is your district's broadband in allowing for smooth operations of all instructional and administrative functions during the CORONAVIRUS CRISIS?



Technology Needs: COVID-19

62

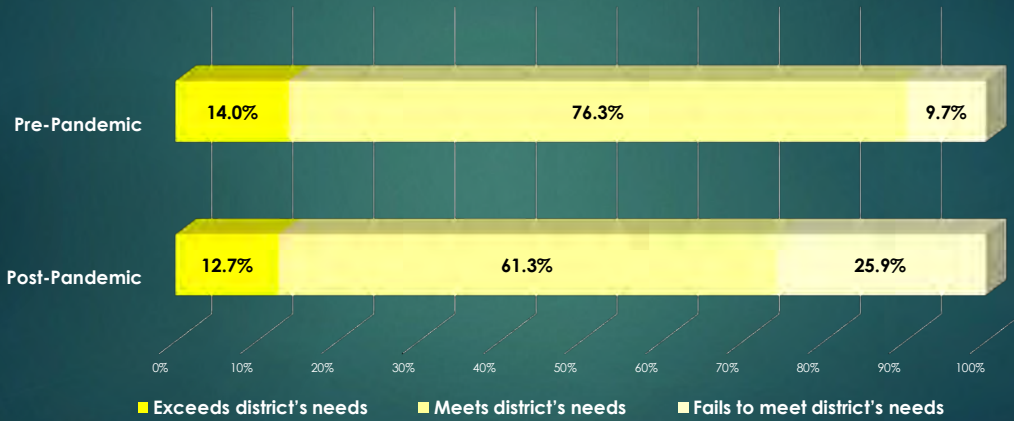
“Urban – Rural Divide”

	Average Response: Superintendents		
	Pre-Pandemic	Post-Pandemic	
City	1.7	1.8	1. Sufficient all the time
Suburb	1.6	1.8	2. Sufficient most of the time
Town	1.8	2.0	3. Sufficient about ½ the time
Rural	1.9	2.0	4. Rarely sufficient
			5. Never sufficient

Technology Needs: COVID-19

63

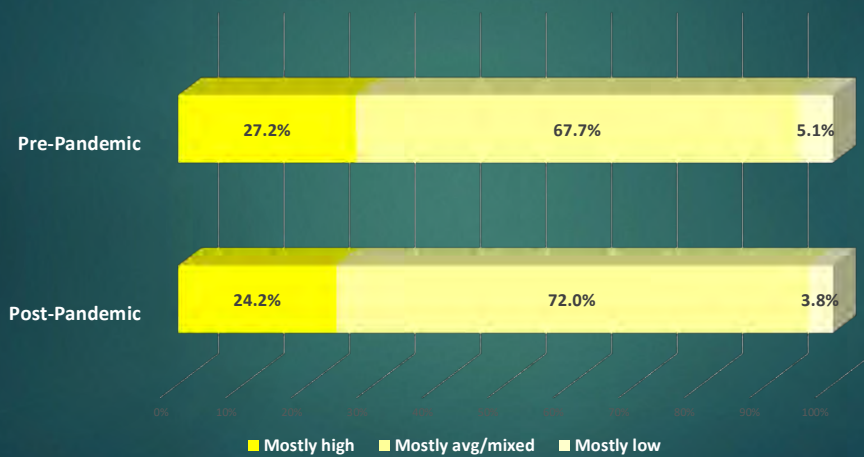
Computers: Quantity



Technology Needs: COVID-19

64

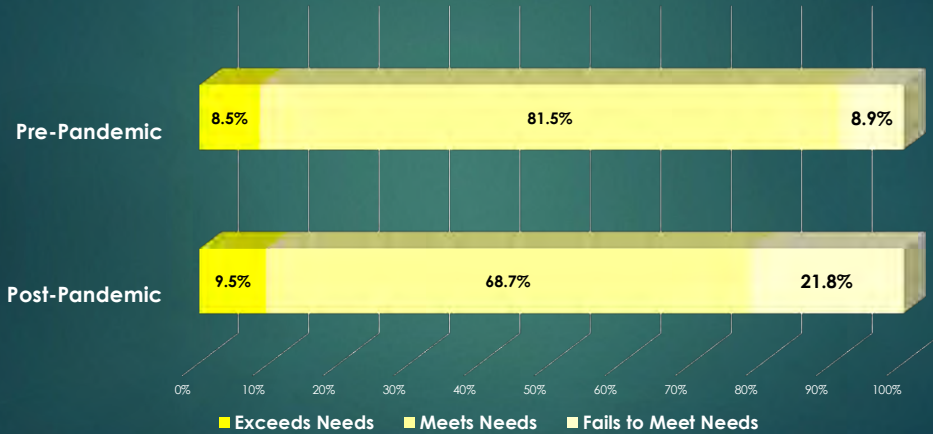
Computers Quality



Technology Needs: COVID-19

65

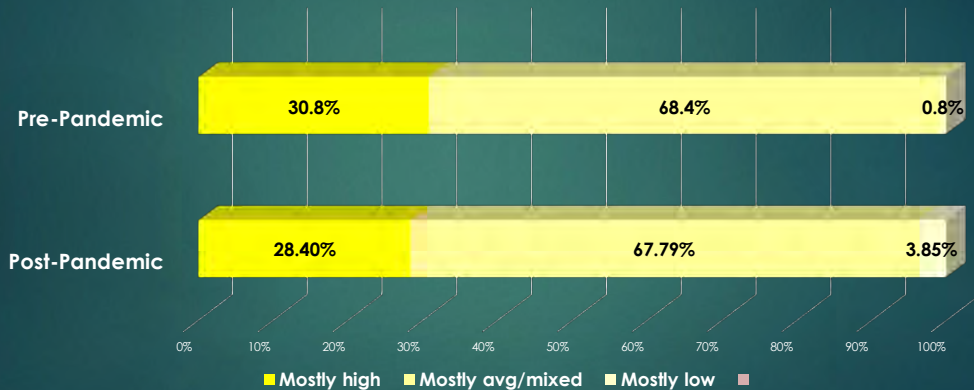
Software/Electronic Subscriptions: Quantity



Technology Needs: COVID-19

66

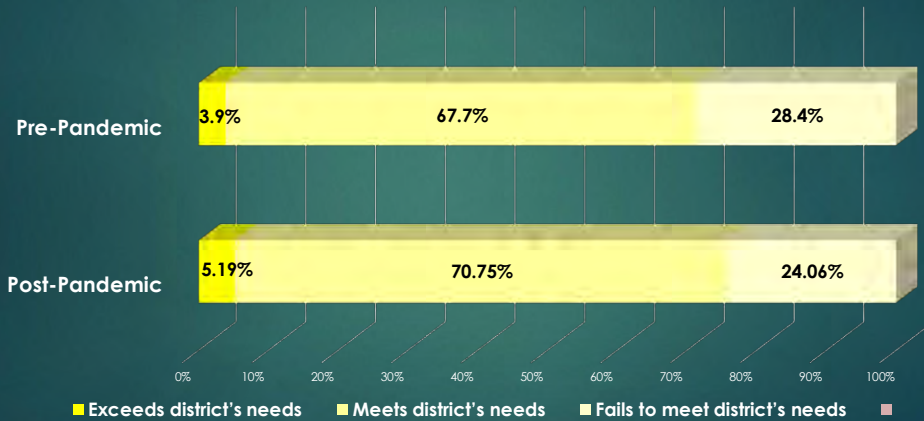
Software/Electronic Subscriptions: Quality



Technology Needs: COVID-19

67

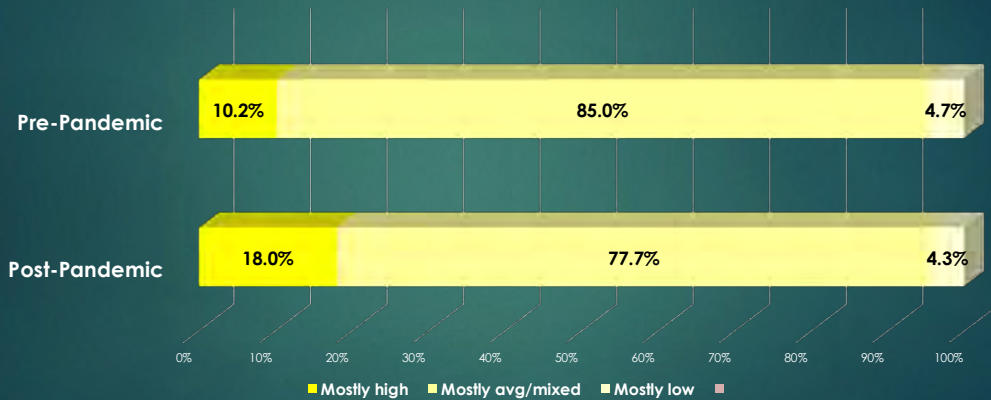
Instruction Integration: Quantity



Technology Needs: COVID-19

68

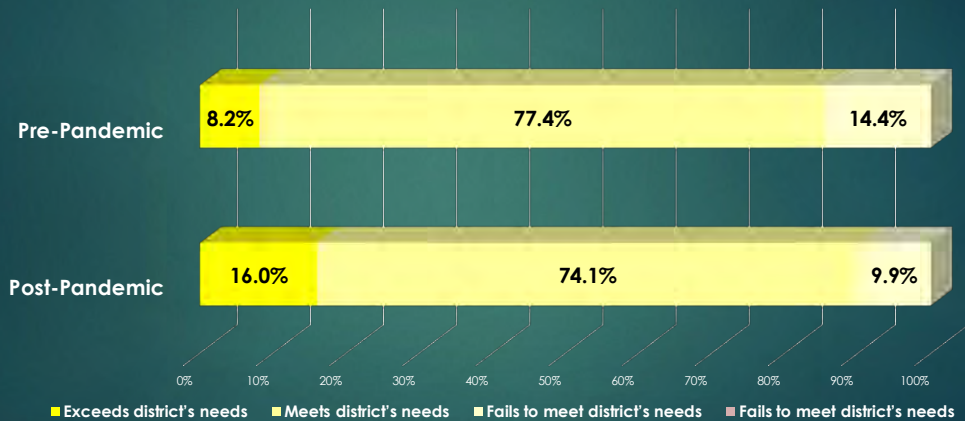
Instruction Integration: Quality



Technology Needs: COVID-19

69

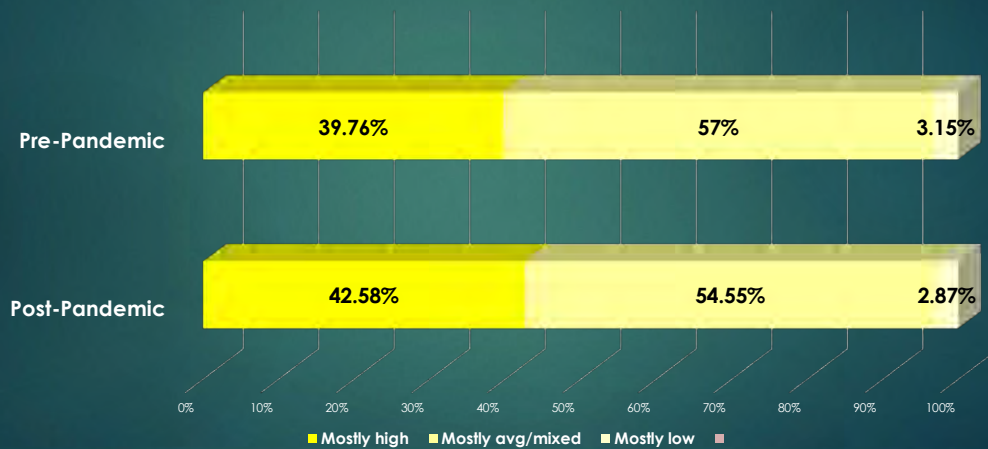
Tech Support: Quantity



Technology Needs: COVID-19

70

Tech Support Quality

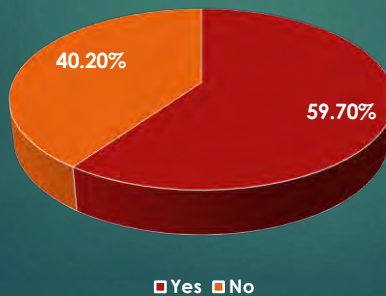


Technology Needs: COVID-19

71

This spring, have any teachers in your district participated in any special training for classes that were not originally offered as digital learning but NOW are due to the CORONAVIRUS CRISIS?

Teacher PD for Digital Learning



Technology Needs: COVID-19

72

How have digital learning vendor partners assisted during the CORONAVIRUS CRISIS?

FORM OF ASSISTANCE	% DISTRICTS INVOLVED
Vendor provided other support to districts' teachers and students	36.2%
District used more course offerings/online curricula already available by vendor	27.6%
Vendor created new digital learning courses / curricula for use during crisis	12.4%
Vendor provided no additions due to Covid-19	11.0%
We contracted with new vendors to add services during the crisis	4.8%
We have no digital learning vendor partners	7.9%

Technology Needs: COVID-19

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Has your district spent funds on technology or technology-related needs (Equipment/Devices, Professional Development/Training, Licensing Agreements/Software, other...) strictly to support your effort to educate your students during the coronavirus period of no in-school learning?

- ▶ 52% of respondents reported spending \$2.5 million as of May 8
- ▶ About \$2 million on equipment
- ▶ About \$1.3 million from foundation funds

Questions?

Julie Holt

holtj@blr.Arkansas.gov / 501.537.9194

