IDC — IDEA DATA CENTER | Collect, Report, Analyze, and Use High-Quality Part B Data

south dakota DEPARTMENT OF EDUCATION
Learning. Leadership. Service.

South Dakota Indicator 4 Stakeholder Input

April 3, 2024
Advisory Panel for Children with Disabilities

Slides developed by IDC with permission to use.

1

Background

SPP/APR Indicator 4

2

SPP/APR Indicators

1. Graduation
2. Dropout
3. Participation and Proficiency in State Assessments
4. Suspension/Expulsion
5. LRE Placement
6. Early Childhood Settings
7. Preschool Outcomes
8. Parent Involvement
9. Disproportionate Representation in Special Education

10. Disproportionate Representation in Specific Disability Categories
11. Timely Initial Evaluation
12. Timely Part C to B Transition
13. Secondary Transition IEPs
14. Post School Outcomes
15. Hearing Requests Resolved
16. Mediation Agreements
17. State Systemic Improvement Plan

IDC — IDEA DATA CENTER

south dakota DEPARTMENT OF EDUCATION
Learning. Leadership. Service.   3

3

State must !

- Collect and report the discipline data annually to the U.S. Dept of Ed.
- **Analyze the discipline data in the specified ways**
- **Flag and examine any districts that discipline students with disabilities in concerning ways**
- Report to the U.S. Ed and the public the results of the examination every year

IDC — IDEA DATA CENTER

south dakota DEPARTMENT OF EDUCATION
Learning. Leadership. Service.   4

4

Federal Interests on Disciplining of Students with Disabilities

U.S. Ed pays special attention to-

> **the long-term out-of-school suspensions/expulsions of students with disabilities**

- Many parts of HOW states examine this data is up to the state to decide.

IDC — IDEA DATA CENTER

south dakota DEPARTMENT OF EDUCATION
Learning. Leadership. Service. 5

5

What is Indicator 4?

- **Out-of-school suspensions/expulsions**
- Include students with IEPs whose out-of-school suspensions/expulsions **accumulate more than 10 days** in a school year
- If **district's rate** or **district's race-specific rate is significantly higher than the state's rate**, the district's policy, procedure, and practices must be reviewed.

> Indicator 4 is about **extreme** discipline
> It makes states review the discipline practices of districts that use this extreme discipline practices at a higher rate.

IDC — IDEA DATA CENTER

south dakota DEPARTMENT OF EDUCATION
Learning. Leadership. Service. 6

6

What is Indicator 4?

4A

The % of LEAs where
the out-of-school > 10-day rate

is much higher than
the state's rate

4B

The % of LEAs where
a racial/ethnic group's out-of-school > 10-day rate

is much higher than
the state's rate

IDC | IDEA DATA CENTER

south dakota
DEPARTMENT OF EDUCATION   7
Learning. Leadership. Service.

Definition of Parameters

#SusSKids: Number of Suspended/Expelled >10 days SPED students

#TotalSKids: Total Number of Suspended/Expelled >10 days SPED students

DDLS_rate(%): District-Level Suspension/Expulsion Rate for Children with Disabilities

DistrictName	#SusSKids	#TotalSKids	DDLS_rate(%)
Sioux Falls	25	200	12.5
Rapid City	15	150	10
Vermillion	2	40	5
Pierre	0	30	0
Watertown	8	80	10
Total	50	500	37.5

Table 1: Distribution of Suspended Special Kids in SD

State Mean Suspension Rate (%)

based on District-wise rate

Reference:

Rate #4 (Measuring Significant Discrepancy: An Indicator B4 Technical Assistance Guide) [Page-14]

Formula:

$$StateMeanSuspensionRate = \frac{\text{District Rate of A1} + \text{District Rate of A2} + ... + \text{District Rate of A5}}{\text{Total Number of Districts in the State}}$$

Example:

Based on **Table 1** the suspension rates for 5 districts: Sioux Falls (12.5), Rapid City (10), Vermillion (5), Pierre (0), and Watertown (10).

The overall mean for State SD would be the average of these district-wise means %.

$$StateMeanRate = \frac{12.5 + 10 + 5 + 0 + 10}{5}$$

$$StateMeanRate = \frac{37.5}{5} = 7.5$$

State Mean Suspension Rate (SMS_Rate%) /State Rate

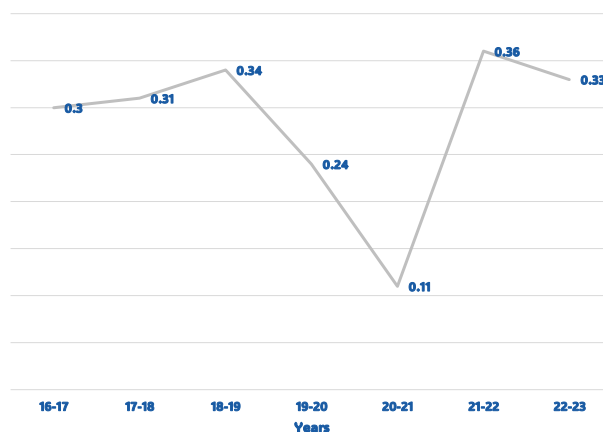*Reference: Rate #4 [Page-14] Measuring Significant Discrepancy: An Indicator B4 Technical Assistance Guide*

IDC — IDEA DATA CENTER

south dakota DEPARTMENT OF EDUCATION — Learning. Leadership. Service. 9

9

State Mean Suspension Rate (SMS_Rate)

Key Insight:

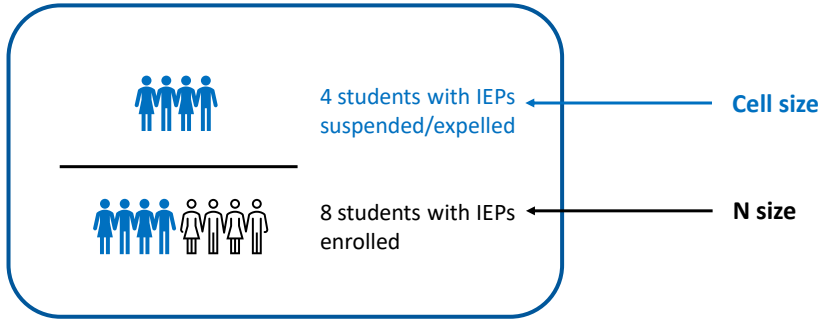- SMS_Rate for children with disabilities calculation **gives equal weight to each district**

SMS_Rate

for Year 22-23

0.33 %

SMS_Rate(%)

Data points: 16-17: 0.3, 17-18: 0.31, 18-19: 0.34, 19-20: 0.24, 20-21: 0.11, 21-22: 0.36, 22-23: 0.33

Years

IDC — IDEA DATA CENTER

south dakota DEPARTMENT OF EDUCATION — Learning. Leadership. Service. 10

10

Minimum Cell/N size

A state can set a minimum cell and/or N size of any size it wants.

4 students with IEPs suspended/expelled — **Cell size**

8 students with IEPs enrolled — **N size**

If a district **doesn't meet the minimum** cell and/or N size, the district is **excluded** from Indicator 4.

IDC   IDEA DATA CENTER

south dakota DEPARTMENT OF EDUCATION   11
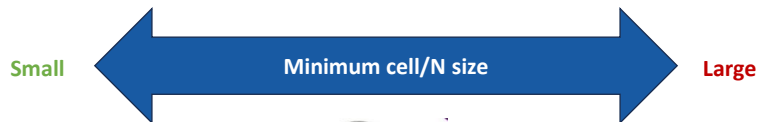Learning. Leadership. Service.

11

Where is the happy medium?

Pros:
- **Increased district representation** for threshold examination
- Enhanced oversight for long-term suspensions/expulsions

Pros:
- **No need to conduct the 3P review** for district with 1 student's out-of-school 10-day discipline

Small ← **Minimum cell/N size** → **Large**

Cons:
- **False positives-** Need to examine districts with no apparent discipline issues for rare occurrences (>10 days discipline with 1 child)

Cons:
- **Exclusion of many districts** due to large cell/N sizes
- Lack of state assurance on appropriateness of discipline 3P and **deemed as unreasonable**

IDC   IDEA DATA CENTER

south dakota DEPARTMENT OF EDUCATION   12
Learning. Leadership. Service.

12

Minimum Cell-size

Minimum Number of Suspension/Expulsion >10 days Children with Disabilities

Federal requirements:

- Include in analysis of data approximately 90% of districts.
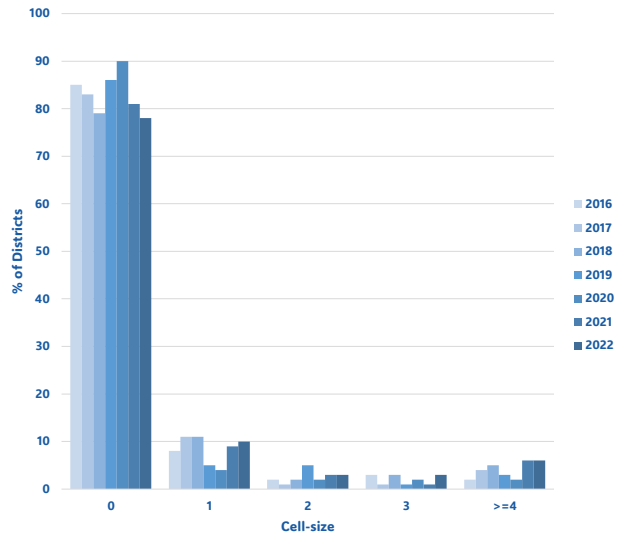- If not, then explain why.

> If the minimum Cell size was **1**,
> 130 out of 149 districts would be excluded.
>
> Is this reasonable?

Minimum Cell-size

0

Cell-size distribution pattern for indicator 4(A)

IDC — IDEA DATA CENTER

south dakota DEPARTMENT OF EDUCATION — Learning. Leadership. Service.   13

13

Minimum N-size

Minimum Number Children with Disabilities

Federal requirements:

- Include in analysis of data approximately 90% of districts.
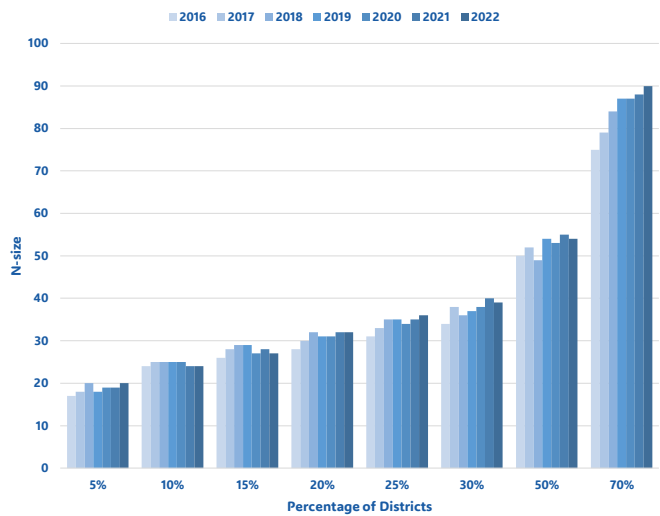- If not, then explain why.

> If the minimum N size was **40**,
> 60 out of 149 districts would be excluded.
>
> Is this reasonable?

Minimum N-size

25

N-size distribution pattern for indicator 4(A)

IDC — IDEA DATA CENTER

south dakota DEPARTMENT OF EDUCATION — Learning. Leadership. Service.   14

14

Threshold

- State sets a threshold of significance
- LEA that exceeds the threshold has a significant discrepancy

Purpose

Prevent from identifying a district incorrectly

Threshold

6 * SMS_Rate

Minimum Consecutive Years(MCY)

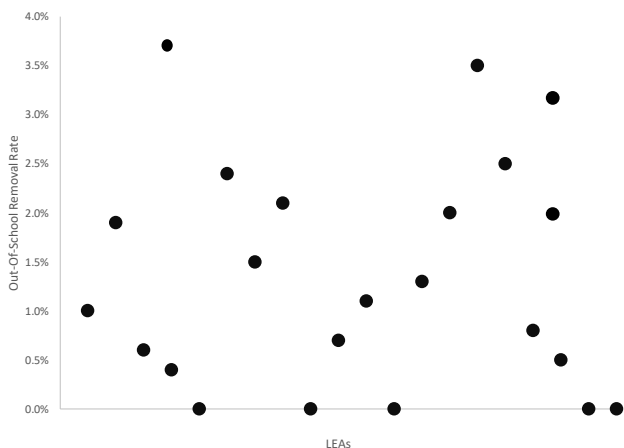- Giving enough consideration to a LEA before flagged

Purpose

Prevent from identifying a district incorrectly

MCY

2 years
[2021,2022]

IDC · IDEA DATA CENTER

south dakota DEPARTMENT OF EDUCATION   15

Parameters

✓ **State Mean Suspension Rate (SMS_Rate)**

✓ **Minimum N-size**

✓ **Minimum Cell-size**

✓ **Threshold**

✓ **Minimum Consecutive Years (MCY)**

DistrictName	#SusSKids	#TotalSKids	DDLS_rate(%)
Sioux Falls	25	200	12.5

The LEA deemed significantly discrepant undergoes a review of policy, practice, and procedure

IDC · IDEA DATA CENTER

south dakota DEPARTMENT OF EDUCATION   16

Parameters

✓ **State Mean Suspension Rate (SMS_Rate)**

✓ **Minimum N-size**

✓ **Minimum Cell-size**

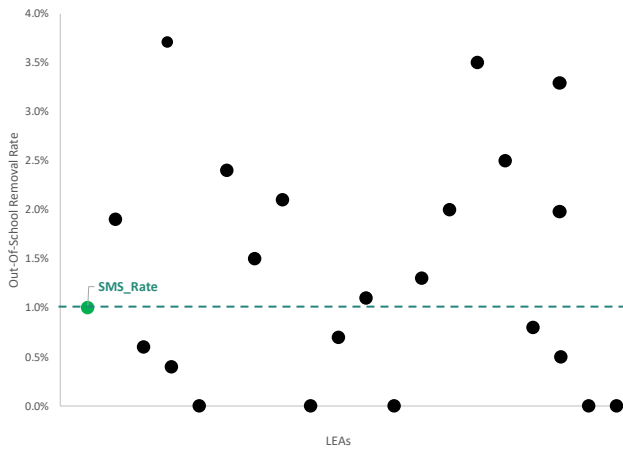✓ **Threshold**

✓ **Minimum Consecutive Years (MCY)**

The LEA deemed significantly discrepant undergoes a review of policy, practice, and procedure

IDC | IDEA DATA CENTER

south dakota DEPARTMENT OF EDUCATION **17**
Learning. Leadership. Service.

17

Parameters

✓ **State Mean Suspension Rate (SMS_Rate)**

✓ **Minimum N-size**

✓ **Minimum Cell-size**

✓ **Threshold**

✓ **Minimum Consecutive Years (MCY)**

The LEA deemed significantly discrepant undergoes a review of policy, practice, and procedure

IDC | IDEA DATA CENTER

south dakota DEPARTMENT OF EDUCATION **18**
Learning. Leadership. Service.

18

Parameters

- ✓ **State Mean Suspension Rate (SMS_Rate)**
- ✓ **Minimum N-size**
- ✓ **Minimum Cell-size**
- ✓ **Threshold**
- ✓ **Minimum Consecutive Years (MCY)**

The LEA deemed significantly discrepant undergoes a review of policy, practice, and procedure
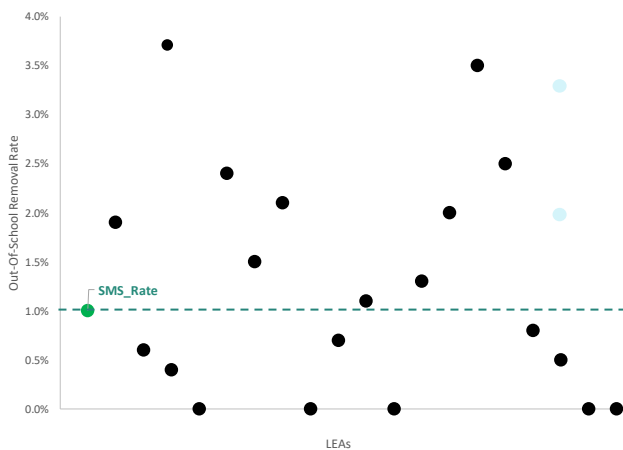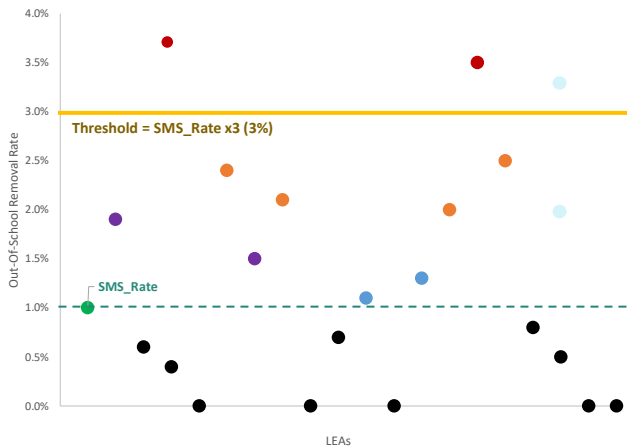
19

Parameters
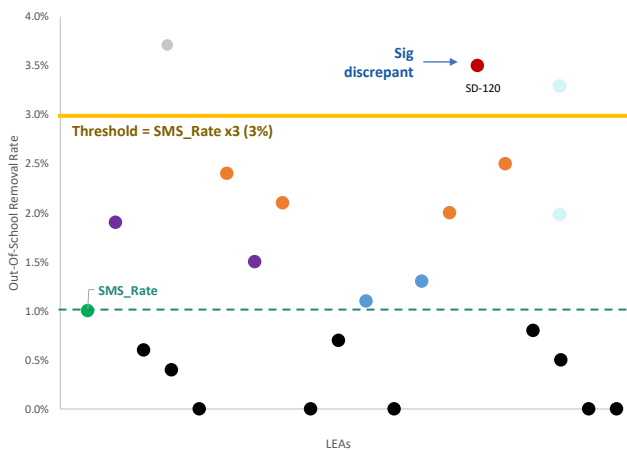
- ✓ State Mean Suspension Rate (SMS_Rate)
- ✓ Minimum N-size
- ✓ Minimum Cell-size
- ✓ Threshold
- ✓ Minimum Consecutive Years (MCY)

Year Districts	2016	2017	2018	2019	2020	2021	2022
SD-120		Y	Y	Y	Y	Y	Y
SD-128	Y	Y	Y	Y			Y

The LEA deemed significantly discrepant undergoes a review of policy, practice, and procedure

20

The Need of New Methodology

21
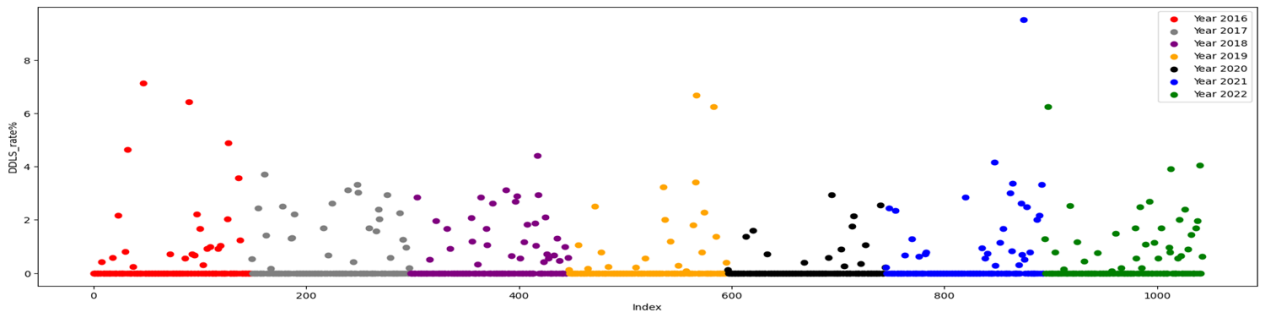
Historical Trend

- Data of SD has been Identical over the years.

Identifying districts above the Threshold for Indicator 4A

Indicator 4(A)

Historical Performance of

Existing Methodology

Districts identified	Cell Size	Threshold
0	**>9**	**5%**

IDC — IDEA DATA CENTER

south dakota DEPARTMENT OF EDUCATION   **23**
Learning. Leadership. Service.

23
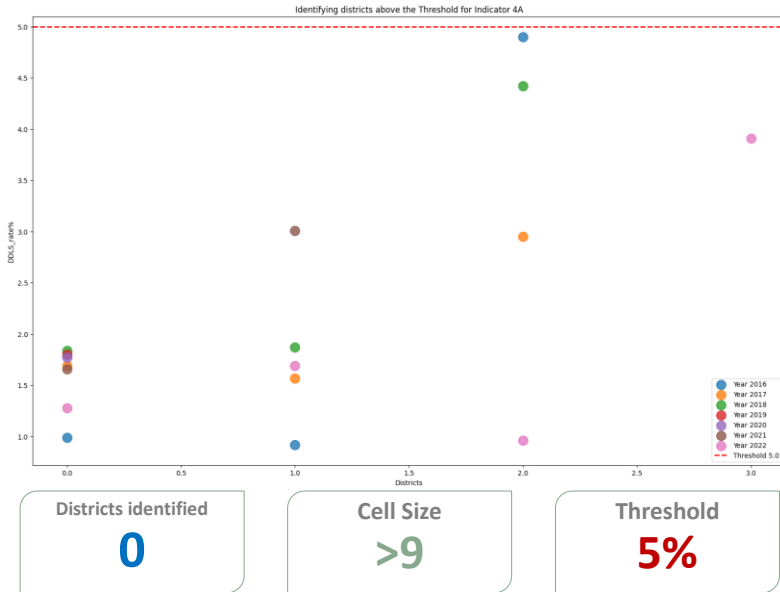
Indicator 4A

Recommendations based on new methodology

24

Indicator 4(A)

IDC IDEA DATA CENTER

south dakota DEPARTMENT OF EDUCATION 25

25
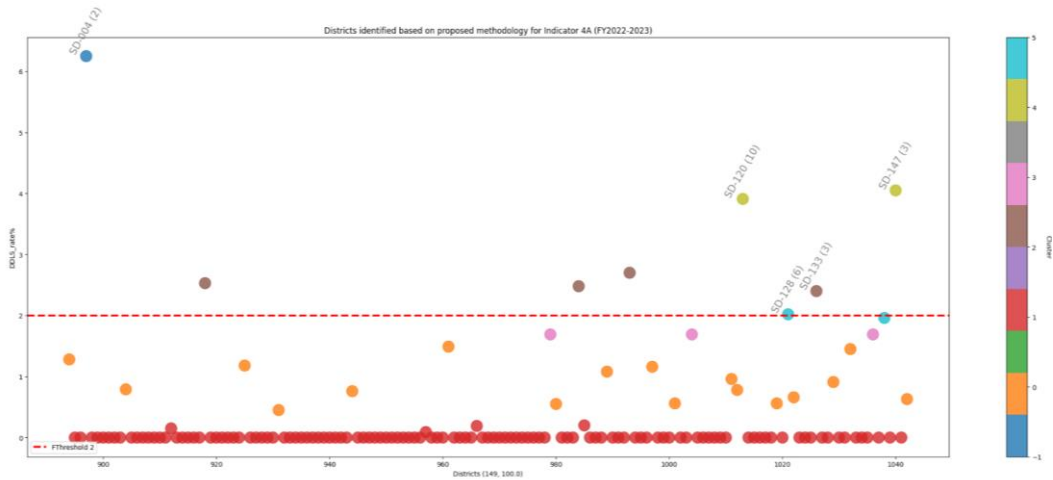
Indicator 4(A)

Districts with **bigger N-size will not be identified** because of threshold **2**

| Districts identified **5** | Districts included **100%** | **0** Districts of Cell-size [1] |

```
Final Number of districts: 5
Year      2016 2017 2018 2019 2020 2021 2022  Frequency
Districts
SD-120         Y    Y    Y    Y    Y    Y        6
SD-128    Y    Y    Y    Y         Y    Y        6
SD-004                             Y    Y        2
SD-133                             Y    Y        2
SD-147                             Y    Y        2
```

IDC IDEA DATA CENTER

south dakota DEPARTMENT OF EDUCATION 26

26

Indicator 4B

27

Minimum Cell-size

Minimum Number of Suspension/Expulsion >10 days Children with Disabilities

Federal requirements:

- Include in analysis of data approximately 90% of districts.
- If not, then explain why.

> **If the minimum Cell size was 1,**
> **30 out of 40 districts would be excluded.**
>
> **Is this reasonable?**

Minimum Cell-size

0

Cell-size distribution pattern for indicator 4(B)

IDC | IDEA DATA CENTER

south dakota DEPARTMENT OF EDUCATION
Learning. Leadership. Service.   28

28

Minimum N-size

Minimum Number Children with Disabilities

Federal requirements:

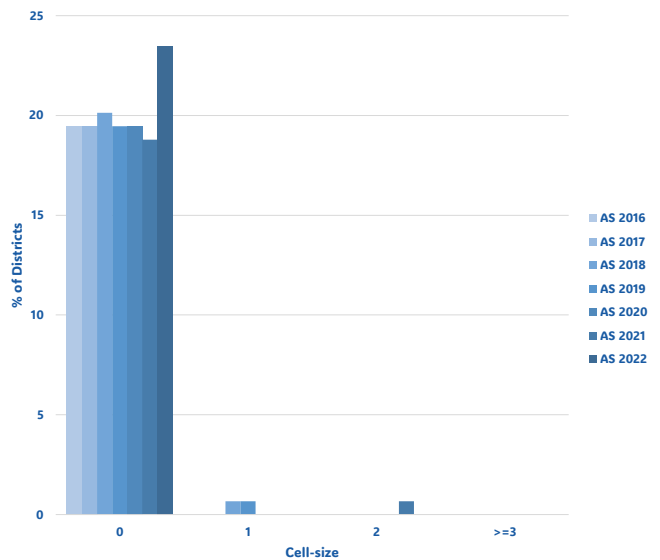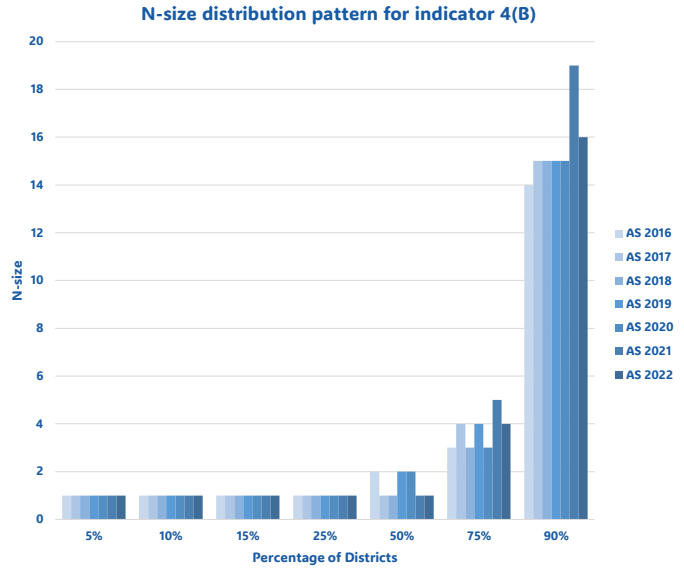- Include in analysis of data approximately 90% of districts.
- If not, then explain why.

> If the minimum N size was 4,
> 30 out of 40 districts would be excluded.
>
> Is this reasonable?

Minimum N-size

1

N-size distribution pattern for indicator 4(B)

Legend: AS 2016, AS 2017, AS 2018, AS 2019, AS 2020, AS 2021, AS 2022

X-axis: Percentage of Districts (5%, 10%, 15%, 25%, 50%, 75%, 90%)
Y-axis: N-size

29

would LEA 101 receive the policy, procedure, and practice review?

If the minimum cell size was 5, and the threshold was x3 of the state rate (1.0%), so 3.0%,

In SD 101

	American Indian/ Alaska Native	Asian	Black / African American	Hispanic/L atino	Two or more Races	Native Hawaiian / Pacific Islanders	White	All Races
Cell size → Students with IEPs who received out-of-school >10 days	0	0	1	5	0	0	3	9
N size → Students with IEPs Enrolled	10	20	50	130	20	1	300	531
State Rate	0.0%	0.0%	2.0%	3.8%	0.0%	0.0%	1.0%	1.7%

30

Identifying districts above the Threshold for Indicator 4B

Indicator 4(B)

Historical Performance of

Existing Methodology

Districts identified	Cell Size	Threshold
1	**>9**	**5%**

IDC IDEA DATA CENTER

south dakota DEPARTMENT OF EDUCATION
Learning. Leadership. Service.   31

31
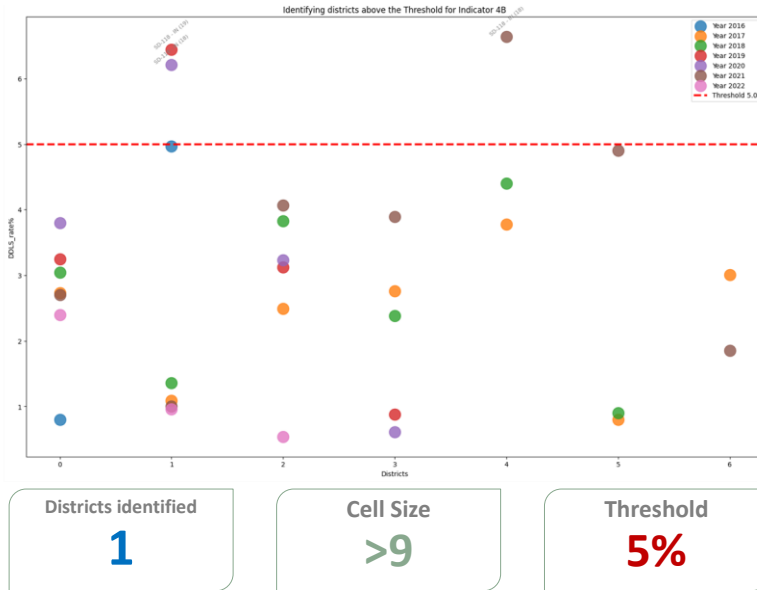
Indicator 4B

Recommendations based on new methodology

32

Indicator 4(B)

Districts identified based on proposed methodology for Indicator 4B (FY2022-2023)

IDC IDEA DATA CENTER

south dakota DEPARTMENT OF EDUCATION **33**
Learning. Leadership. Service.

33

Indicator 4(B)

Selecting N-size **0** will **include 100% districts** for

ALL

race every year

Districts identified	Districts included	**5**
10	**100%**	Districts of Cell-size [1]

Final Number of districts: 10

ethnicity	Year Districts	2016	2017	2018	2019	2020	2021	2022	Frequency
IN	SD-004						Y	Y	2
TR	SD-111	Y	Y	Y			Y	Y	5
IN	SD-111		Y	Y			Y	Y	4
BL	SD-111						Y	Y	2
HI	SD-111						Y	Y	2
IN	SD-118	Y	Y	Y	Y	Y	Y	Y	7
	SD-120		Y	Y	Y	Y	Y	Y	6
WH	SD-120	Y		Y			Y	Y	4
IN	SD-128	Y	Y	Y	Y		Y	Y	6
	SD-133						Y	Y	2
	SD-136						Y	Y	2
	SD-143						Y	Y	2
	SD-145						Y	Y	2
WH	SD-147						Y	Y	2

IDC IDEA DATA CENTER

south dakota DEPARTMENT OF EDUCATION **34**
Learning. Leadership. Service.

34

Indicator 4(B)

Districts identified based on proposed methodology for Indicator 4B (FY2022-2023)

Indicator 4(B)

Option 15

N-size=**20**; Cell size= **0**; Threshold= **2.5**; MCY= *2021,2022*

Selecting N-size **20** will **exclude 90% districts** for **AS,BL,PI** race every year

Districts identified	Districts included	
5	**90%**	**2** Districts of Cell-size [1]

Final Number of districts: 5

ethnicity	Year Districts	2016	2017	2018	2019	2020	2021	2022	Frequency
IN	SD-004						Y	Y	2
	SD-120		Y	Y	Y	Y	Y	Y	6
WH	SD-120	Y		Y			Y	Y	4
IN	SD-133						Y	Y	2
	SD-136						Y	Y	2
WH	SD-147						Y	Y	2

Indicator 4(B)

Districts identified based on proposed methodology for Indicator 4B (FY2022-2023)

Indicator 4(B)

Option 27

N-size=**30**; Cell size= **0**; Threshold= **2.5**; MCY= *2021,2022*

Selecting N-size **30** will **exclude 90% districts** for **AS,BL,PI,TR** race every year

Districts identified	Districts included	
4	**72%**	**1** Districts of Cell-size [1]

Final Number of districts: 4

ethnicity	Year Districts	2016	2017	2018	2019	2020	2021	2022	Frequency
IN	SD-120		Y	Y	Y	Y	Y	Y	6
WH	SD-120	Y		Y			Y	Y	4
IN	SD-133						Y	Y	2
	SD-136						Y	Y	2
WH	SD-147						Y	Y	2

Thank you!

IDC | IDEA DATA CENTER

south dakota DEPARTMENT OF EDUCATION
Learning. Leadership. Service. 39

39