



A National Picture: Child Outcomes for

FFY2014-15



Debi Donelan & Susan Franck, WA Part C Nick Ortiz, CO Part B 619

November 30, 2016

## On Today's Call



- Learn about the latest national child outcomes data and patterns
- Learn from several states about their insights and efforts to improve data quality



# State Approaches to Measuring Child Outcomes – FFY 2014-15

Approach	Part C (N=56)	Part B Preschool (N=59)
COS 7 pt. scale	43/56 (77%)	42/59 (71%%)
One tool statewide	8/56 (14%)	9/59 (15%)
Publishers' online analysis	2/56 (4%)	6/59 (10%)
Other	3/56 (5%)	2/59 (3%)

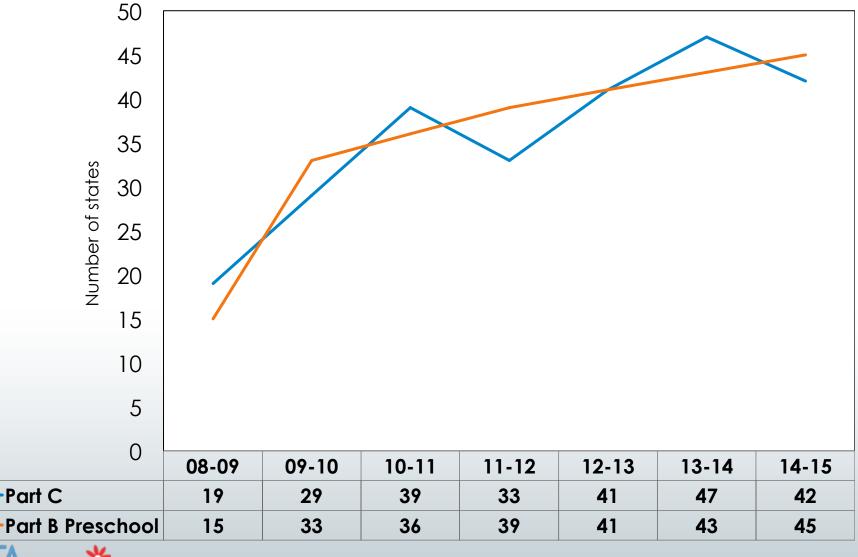


# Method for Calculating National Estimates & Criteria

- Weighted average of states that met minimum quality criteria
- Minimum quality criteria for inclusion in national analysis:
  - Reporting data on enough children
    - Part C 28% or more of exiters
    - Part B Preschool 12% or more of child count
  - Within expected patterns in the data
    - category 'a' not greater than 10%
    - category 'e' not greater than 65%



## Number of States that Met Criteria for Inclusion in the National Analysis (N=51)

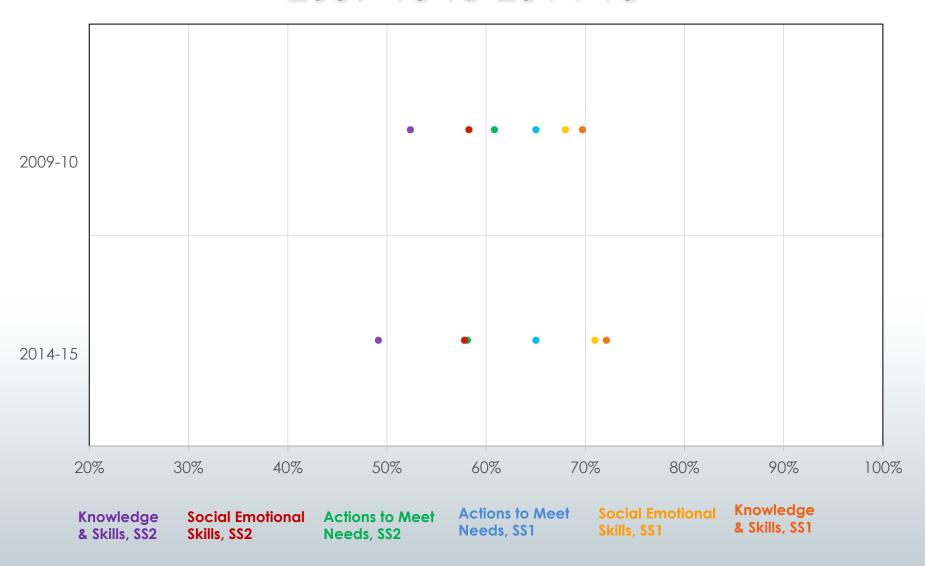




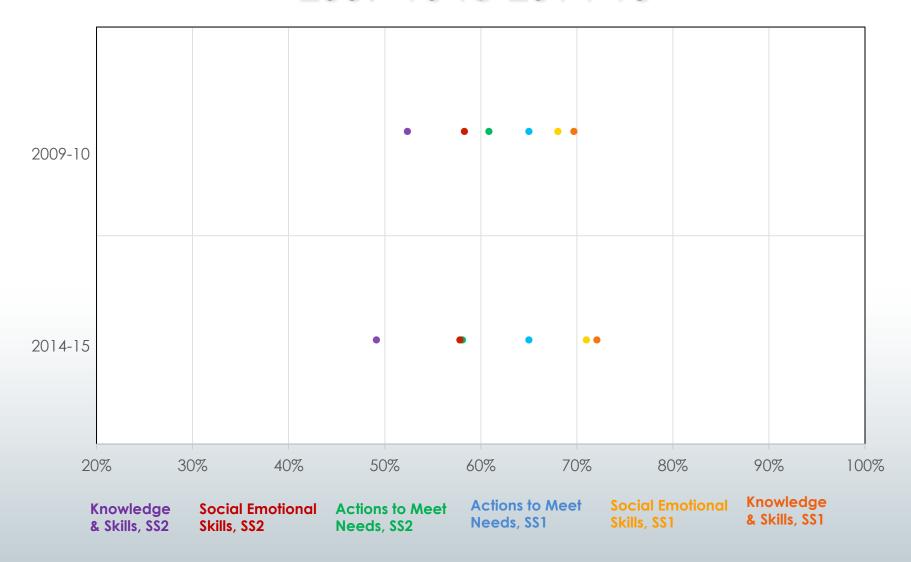
# Reason States Were Excluded from Analyses (out of 51)

Reason State Was Excluded	Pai	t C	Part I	B 619
	2011-12	2014-15	2011-12	2014-15
State is sampling	2	2	2	3
No progress category data reported	0	0	2	0
No child count data available	0	0	0	1
No 618 exiting data	0	1	-	-
Missing Data	6	3	4	0
'a' and 'e' patterning (Had at least one outcome with category a greater than 10% or category e greater than 65%)	5	2	3	3
Missing Data AND 'a' and 'e' patterning	4	1	0	0
States included in the analysis	33	42	39	45

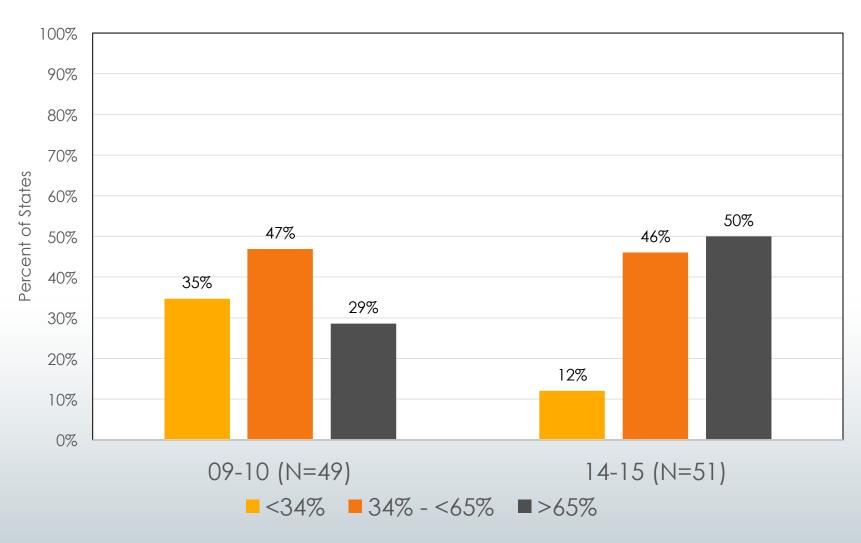
# Part C: Changes in child outcomes, 2009-10 to 2014-15



# Part B Preschool: Changes in child outcomes, 2009-10 to 2014-15

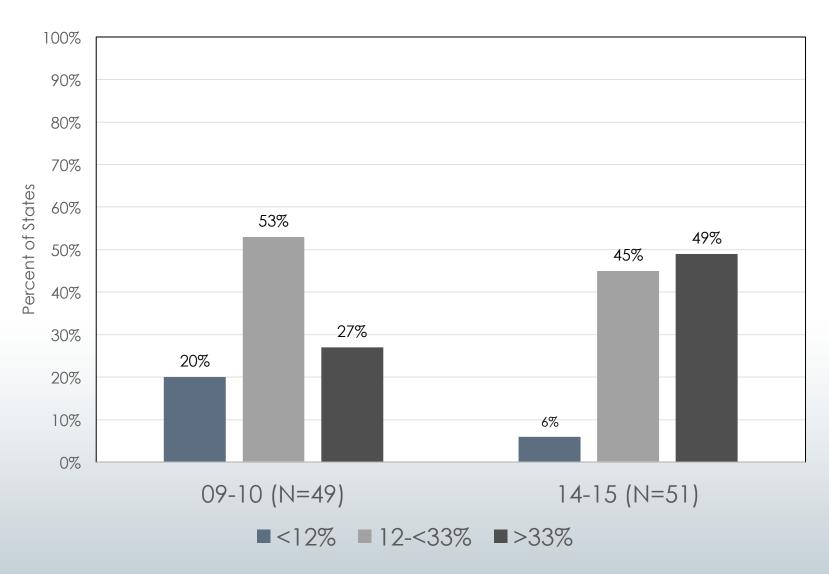


## Part C: Percent of States by Completeness of Child Outcomes Data\*



<sup>\*</sup> Completeness = (total with outcomes data/total exiters)

## Part B Preschool: Percent of States by Completeness of Child Outcomes Data



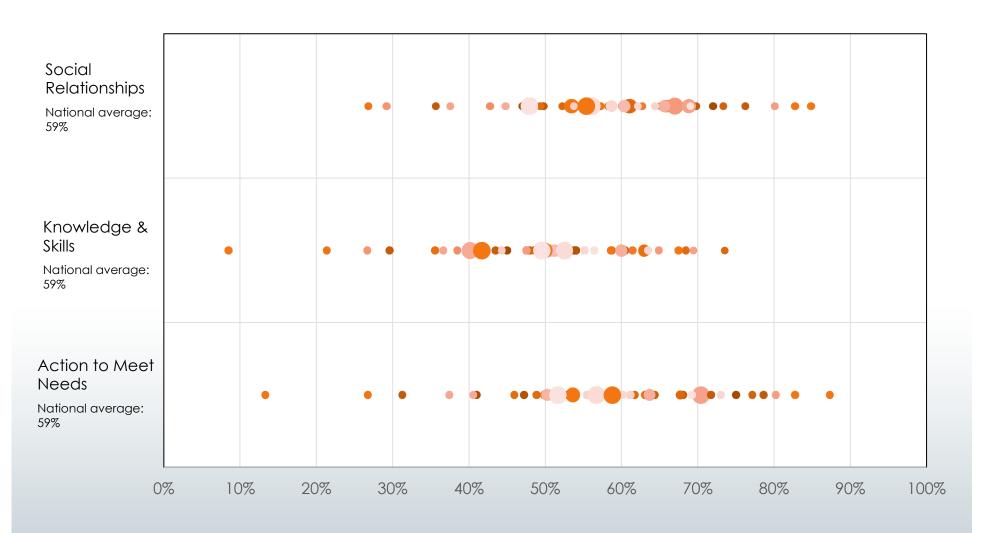
<sup>\*</sup> Completeness = (total with outcomes data/child count)

## State Level Variation and Patterns



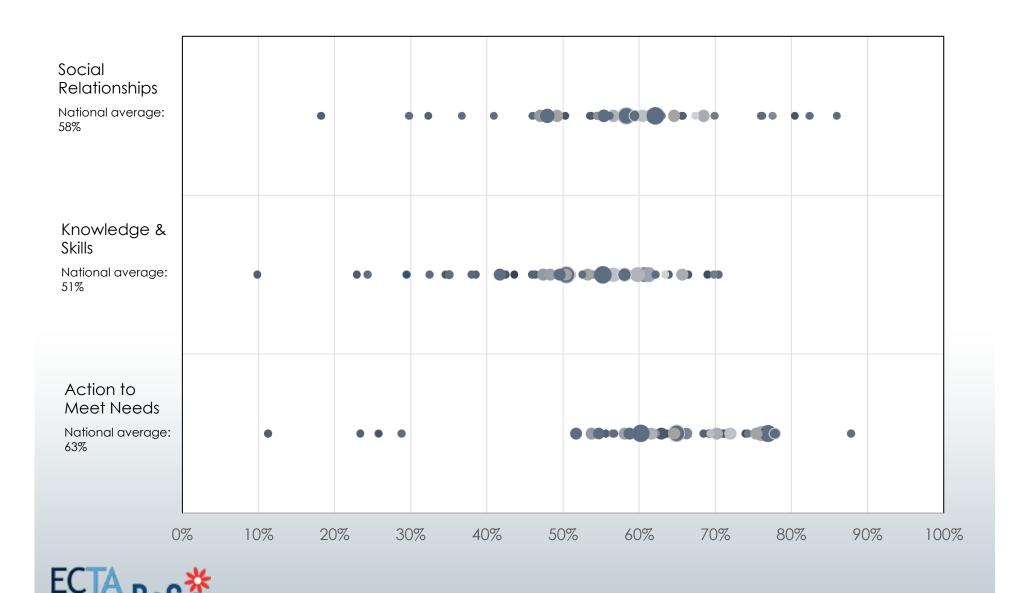


## Part C: State Variation: Exited within Age Expectations, 2014-2015, All States





## Part B Preschool: State Variation: Exited within Age Expectations, 2014-2015, All States

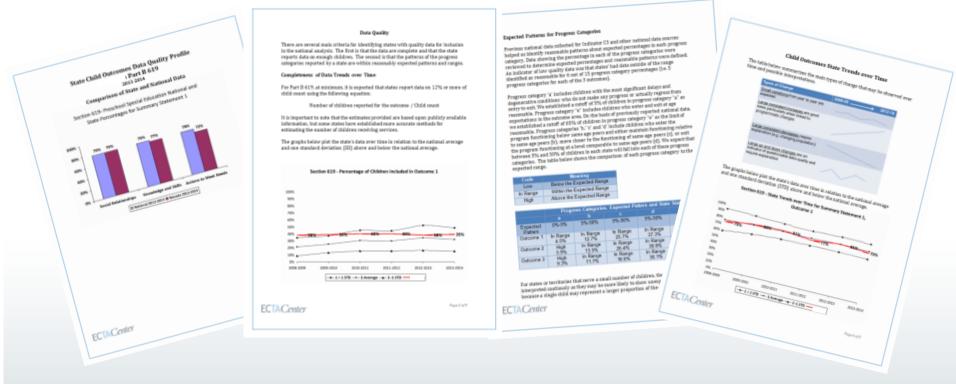




## Variation Over Time



# State Child Outcomes Data Quality Profiles FFY 2014-15



Updated profiles were sent to C/619 coordinators

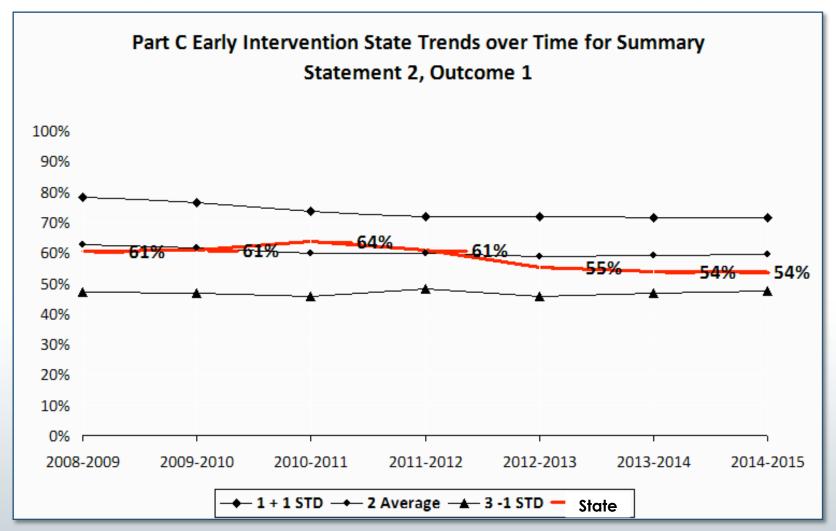


### Child Outcomes State Trends over Time

Types of Change	2008-09	Current Year
Small variations from year to year are expected		
Large consistent increases are good news particularly when linked to programmatic changes		
Large consistent decreases could indicate declining performance.		
Large up and down changes could indicate poor data quality		

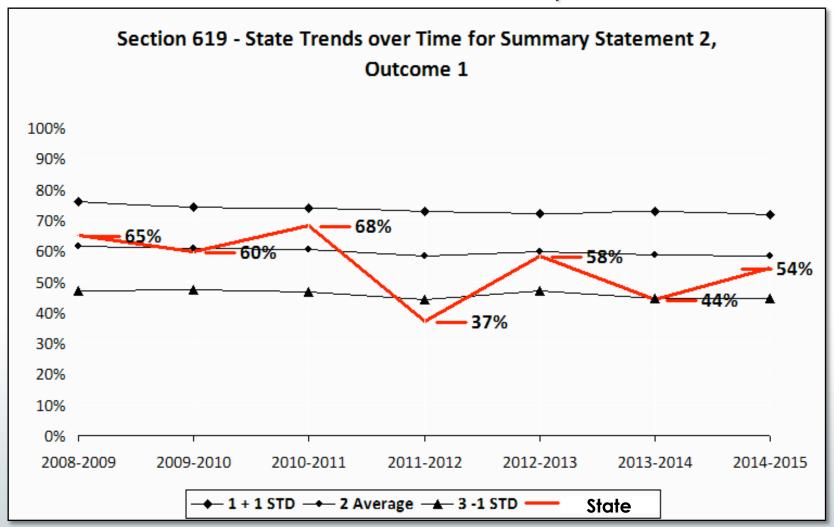


# Part C State Example: Exiting within Age Expectations– Social Relationships





# 619 Example: Exiting within Age Expectations – Social Relationships





## What We See

Continuing to see consistency over time

 Increasing number of states (most) meet minimum quality criteria for national analysis

Increasing number of children in the child outcomes

data





## Current Emphasis of State Requests

- Data Quality
  - Increasing the number of children/families in the data
  - Pattern checking to identify data quality issues
  - Enhancing professional development for child outcomes measurement
- Using Data for Program Improvement
  - Increasing local capacity to analyze and use data
    - Identifying trends in the data
    - Identifying areas of low and high performance
    - Identifying meaningful differences

Do you have a child outcomes TA request? Email your ECTA state contact or one of us!





## State Examples







# Child Outcomes Analysis Washington Part C

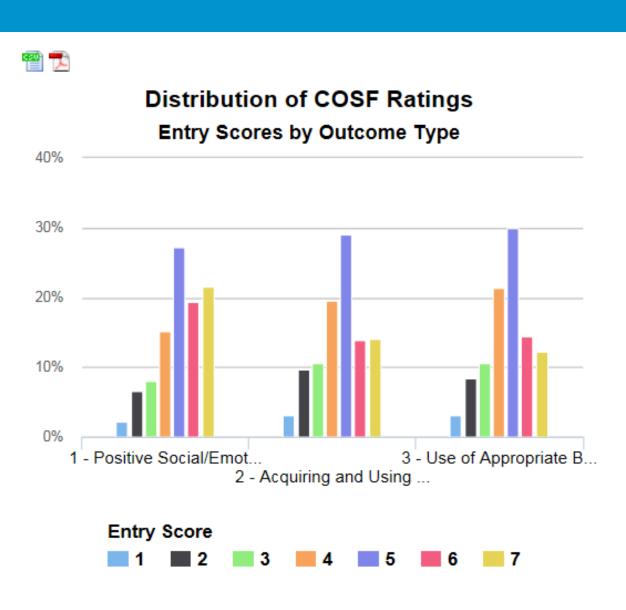
Debi Donelan

Susan Franck

November 30, 2016



### Washington State Part C



# Fun with Data with Local Lead Agencies November 2015

Shared sample Outcome 1 entry scores from two programs to compare to statewide data (program "A" and "B")

Asked participants to identify a pattern in the local data that differed from the statewide data

Hypothesized which contributing factors might have influenced the data

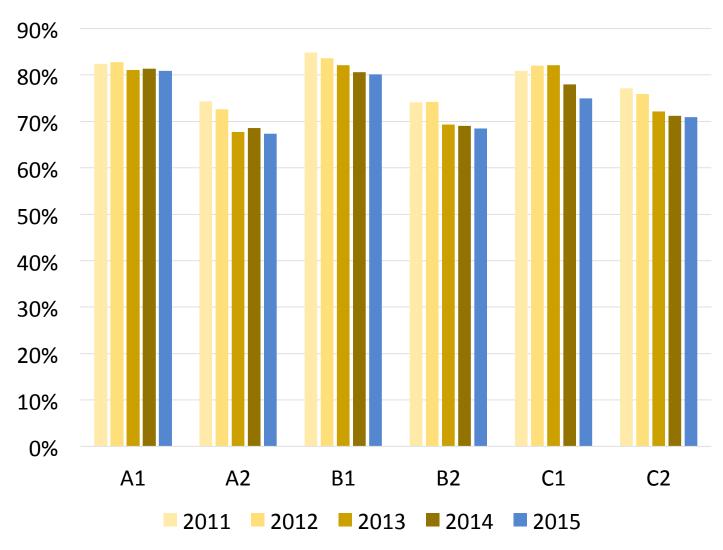


# Fun with Data 2.0 November 2016

- Provided local data to compare to statewide data
- Reviewed Outcome 1 entry by exit report
- Predicted pattern: functioning at entry in one outcome area will be related to functioning at exit in the same outcome area
- Small groups analyzed their data



### Colorado B7 Historical Results



	Total Hating A.	Total Rating B	Total Rating B	Total Rating C	Total Rating C	Sum of weight	2014-2015 lm	2014-2015 lm	2014-2015 lm	2014-2015 lm	2014-2015 lm	2014-2015 Imp	act sizes C
-3	-3	-3	-3		-3	-18	-17.750325	-104.16754		-121.7246		-101.65939	
-3	-3	-3	-3	-4	-1	-14	-11.541278	-24.85377	-13.985118	-32.378229	-6.9251363	-9.8048658	
-4	-3	-4	-4	-3	-3	-12	-3.2684061	-22.04565	-6.1606889	-19.537497	-27.688989	-32.078254	
-3	-3	-2	0	-2	-2	-12	-9.3318284	-8.32857	0.44996738	-0.8041134	0.44996238	-0.8041134	
-1	-3	-4	-3	0	-2	-10	-0.415157	-14.01706	0.10290853	-14.017055	-2.2396484	-6.492601	
-4	-4	-4	-3	-4	-3	-10	-18.031404	-67.67294	-2.8052543	-75.197392	-16.212587	-62,656634	
-4	-4	-4	-4	-3	-4	-8	-1.176323	-13,71708	-12.88103	-18.733383	-6.5197762	-8.7007775	
-4	-4	-4	-4	-3	-1	-8	-27.581952	-61.31226	-33,127444	-56,295962	-64.93515	-66,328568	
-4	-4	-4	-4	-3	-1	-8	-1.1969633	-28.97015	-12,987978	-26.452002	-26.462002	-16.429396	
-4	-4	-4	-4	-4	-1	-6	-19.581723	-101.82744	-15.051707	-81.752227	-53.660693	-106.84374	
-4	-4	-4	-4	-4	-1	-6	-38.423011	-108,78806	-53,246104	-108,78806	-82,968855	-103,77176	
-4	-4	-4	-4	-4	-1	-6	-2.9815403	-81,52195	-4.158446	-96,570855	-58.379724	-81,521946	
-4	-4	-4		-4	-1	-6	-17.415437	-39.63883	-24,262767	-39,638826	-22,081766	-17.065463	
-4	-4	-4	-4	-4	-1	-6	-7,2580888	-6,756458	-7.2580888	-6,7564585	-8.4285595	-6,7564585	
0	-1	- 4			- 4	- 4	4,69960706	-48.80762	-7.3909694	-63,856534	-19.098394	-43,791322	
-1	- 4	- 4				- 3	-29 A76839	-52.22824	-16,728251	-39 687484	-37.53764	-39.687484	
-1	- 4	- 4					-51,91372	-158,74843	-30.117883	-151,22306	-58,138431	-83,503888	
						- 3							
-4	0	-1			-1	- 0	-1.052453	-17.36544	-6.5951401	-17.365438			
	-1	-4			-1	- 5	4.44962796	-41.11512	-12.461393		-23.049163	-43.623276	
-1	-1	-1				-5	-4.4524705	-11.97693	-0.4008412	-16.993228	-3.61642	-4.4524705	
0	-1	-4				-4	0.13484566	-17.32932	-0.6622491	-14.821109		-7.2967143	
-1	0	-4				-4	-4.2340715	-10.94507	-7.3619979	-15.961374		-18,469526	
0	-1	-4	-4	0	-1	-4	2.6331291	-13.84901	-0.8066215	-11.340858	2,20316027	-8.8327063	
0	-4	-4	-4	0	-1	-4	2.40481565	-6.62453	-2.8623025	-11.640833	4.95155409	-6.6245297	
-4	0	-3	0	D	0	-4	-5.2598166	-6,79258	-8.4646769	-4.2844244	1.88948699	-1.7762729	
-1	-4	-4	-4	-4	- 1	-4	-4.5507901	-7.56057	0.19189639	-10.058723	-8.5638325	-0.0361174	
-1	-1	0	0	-4	0	-3	-13.57838	-14.98921	1.52998971	-7.A647605	-6.8377226	-7.4647605	
0	-4	0	0	-4	-4	-3	30.0573275	-123.21344	18.6746332	-68.034111	-32,359917	-90.607474	
-4	0	-4	0	-4	0	-3	-6.6523344	-19.90971	-12,886882	-19.909707	-6.2542151	-12,385252	
0	-1	0			-1	-3	2,33587732	-43.52746	11,792776	-43,527464	5,79951509	-30,986707	
0	-4	-4		0		- 0	-0.3494092	-28.83822	-0.3494092	-38.87083	3,92130547	-13,789315	
	0	-4				- 3	14.0406321	-6,02458	-1,6353148	-11,040883	-9.4732882	-8.5327314	
	0	- 4	- 4				2.39979935	-15.15726				-2.6165036	
0	-1	0				- 3	1.40406321	-1.104088	1.40406321	1.40406324		-1.1040883	
- 4	-1 D	-1	0			- 2	-6.1163782	-11.02734	-19.286682	-11.027339	8,39327815	9,0629546	
-1	0					- "	65.6568986	-77.17933	43,7214394	-79.574454	-25.997213	-114.80161	
0	0	-4				-2	1.60460842	-12.45749			-9.6934015		
0	0	-4	0			-2	6.55174053	-30.14648	-1.5859123	-25.130173	-8.1304796	-15.097567	
0	0	-4	_	-4		-2	3.90970655	-1.60823	-1.9940962	-1.6082267	-3.8883645	-6.6245297	
0	0	0				-1	1.40406321	1.40406	1.40406321	1.40405321	1.40406321	-1.1040883	
0	0	0				-1	5.77734781	-5.58849	2.19427425	-0.6721846	1.64303216	-8.1966391	
0	0	0	0	0	-1	-1	5.43917733	-2.71232	5.7768131	-2.712315	1.72518377	-7.728618	
0	0	0	-4	0	0	-1	2.34010534	-0.16805	2.34010534	-2.6761976	2.34010534	2.34010534	
0	0	0	0	-4	0	-4	5.34527101	-27.54251	16.002623	-15.001756	-1.3544608	-2.4609982	
0	-4	0	0		0	-1	0.69994148	-5.98846	6.55229496	-0.9721595	3.36010215	1.53599197	
0	0	0	0			0	22.8165651	-3.57763	43,7713789	-1.0694758		24.0120391	
0	0		0		0	0	16.0217146	-3.6609	17,0492673	-1.1527464	1,12739129	8.87985954	
	0		0		0	0	1.87208427	1,87208	1.87208427	1,87208427	1,87208427	1.87208427	
0	0	0	0			0	3.94327719	-7.63281	1.21949276			7.41610233	
	0	0	0				5.0933997	-11.11312	7.81202545				
0	0	0	0				0.79993312	-2.54427	7,4883371	2.47203411		2.47203411	
	0	0				0	15.0050628	3,67193	7.4883371 11.0034535	-1.3443692	1,99983279	3.6719337B	
						0	1000000000						
0	0	0			0	0	3.24454477	-5.22047	6.73013765	-5.2204665	6.31703035	2.30398796	
_					0	0							
0	0	0		-1		- 1	1.85402558	3.1081	5.61625282	5.61625282			
0	0	0	_		-	- 1	14.0526743	6.61199	19.3456812	1.59558598			
0	0	0	- 1	0	0	- 1	7.51693002	6.01204	10.479684	6.01203913	13.2770297	6.01203913	
- 1	0	- 1	0	0	0	2	15.9127163	3.37196	7.09094211	-1.5443441	3.73026622	-1.5443441	
0	- 1	0	1	-4	1	2	0.71137078	3.07198	4.32605969	8.08878693	-8.5040999	3.07198395	
					Total Ruling C							2014-2018 Imp	

### Data Analysis Scores

### Scoring Criteria for each Summary Statement

How	AUs were rated:
1	Show significant increase form 2012 to 2015 and met target in 2015 (Model Cases)
0	OK, meeting targets
-1	Not meeting the target in 2014-2015
-2	Especially worrisome among those not meeting the 2015 target because the 4 year average is low
-3	Especially worrisome among those not meeting the 2015 target because of significant decrease from 2012 to 201

### Range of Sum of Weighting

-12 -	11 -10	-8	-7	-6	-5	-4	-3	-2	-1	0	5

### Ratings for 2015-16

A1	A2	B1	B2	C1	C2	Sum
-1	-1	-1	-1	-3	-1	-8

### 2015-16 Indicator 7 Profile Results, Descriptive Statistics and Data Quality

ABC Administrative Unit

#### Indicator 7 Summary Statements - Historical

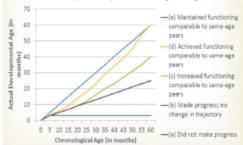
Outcome A: Children develop positive social-emotional skills including the ability to develop positive social relationships.

us.					
summary screeness 1. Or the crimines who entered the program below age expectations, the percent who substantially increased their rate of growth by the time they exited the program.	2012-13	2013-14	2014-15	2015-16	Trend
State Target	84.60%	81.09%	81.09%	81.09%	1
State Results	82.80%	81.09%	81.34%	80.90%	1
ABC AU	61.70%	87.30%	71.64%	67.24%	
Summary Statement 2: The percent of children who were functioning within age expectations by the time they exited the program.	2012-13	2013-14	2014-15	2015-16	Trend
State Target	85.80%	67.76%	67.76%	67.76%	1
State Results	72.60%	67.76%	68.55%	67.50%	1
ABC AU	61.70%	64.70%	51.22%	50.00%	

Outcome B: Children acquire and use knowledge and skills including early language, communication, and early literacy skills.

Summary Statement 1: Of the children who entered the program below age expectations, the percent who substantially increased their rate of growth by the time they exited the program.	2012-13	2013-14	2014-15	2015-16	Trend
State Target	77.20%	82.11%	82.11%	82.11%	/
State Results	83.60%	82.11%	80.62%	80.10%	1
ABC AU	84.40%	87.70%	73.24%	64.41%	
Summary Statement 2: The percent of children who were functioning within age expectations by the time they exited the program.	2012-13	2013-14	2014-15	2015-16	Trend
State Target	75.50%	69.34%	69.34%	69.34%	\
State Results	74.20%	69.34%	69.00%	68.50%	-
ABC AU	70.40%	63.50%	54.88%	52.56%	

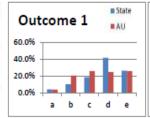
### Developmental Trajectories of the Progress Categories



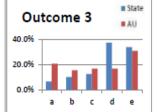
2015-16 AU data compared to statewide data:

	ARC A	dmini	strati	ive Uni	lt
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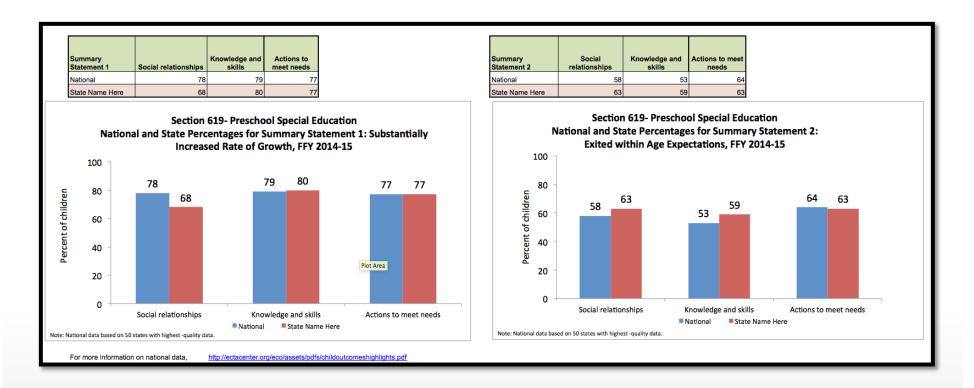
		atemate data.					
	Out	come 1	Outcome 2		Outo	ome 3	
	Ву	Count	Ву	By Count By Co		ount	
Category	State	AU	State	AU	State	AU	
а	172	3	190	6	283	16	
b	442	16	465	15	442	12	
С	800	20	714	16	543	13	
d	1793	19	1816	22	1619	13	
е	1142	20	1064	19	1462	24	
totals	4349	78	4349	78	4349	78	
	Per	centage	Perc	entage	Perc	entage	
Category	State	AU	State	AU	State	AU	
а	4.0%	3.8%	4.4%	7.7%	6.5%	20.5%	
b	10.2%	20.5%	10.7%	19.2%	10.2%	15.4%	
С	18.4%	25.6%	16.4%	20.5%	12.5%	16.7%	
d	41.2%	24.4%	41.8%	28.2%	37.2%	16.7%	
е	26.3%	25.6%	24.5%	24.4%	33.6%	30.8%	







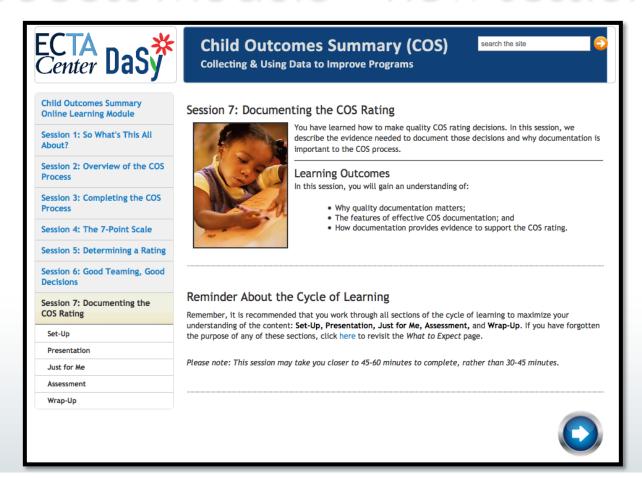
## Updated National Graphing Template



http://www.ectacenter.org/eco/pages/summary.asp#summarygraph



# Child Outcomes Summary (COS) Process Module – new sessions!



http://dasycenter.org/child-outcomes-summary-cos-process-module-collecting-using-data-to-improve-programs/

**Data System Framework** 



### **Child Outcomes Measurement Framework**

Purpose
Data Collection and Transmission
Analysis
Reporting
Using Data
Evaluation
Cross-system Coordination



**ECTA System Framework** 

### Additional Resources

- Data quality: Pattern checking
  - http://www.ectacenter.org/eco/assets/pdfs/
     Pattern\_Checking\_Table.pdf
- Training materials on looking at data:
  - http://www.ectacenter.org/eco/assets/ppt/
     LookingAtData\_revised.ppt
- Additional data quality resources
  - http://www.ectacenter.org/eco/pages/quality\_assurance.asp
- Data analysis for program improvement
  - http://www.ectacenter.org/eco/pages/usingdata.asp
- SSIP-related Resources
  - http://ectacenter.org/topics/ssip/ssip.asp



## How We Can Help!

- State data quality profiles for FFY 2014-15 were sent out to C/619 coordinators
  - Email Abby Schachner with questions:
     abby.schachner@sri.com
- Contact us for...
  - help with data quality analysis and quality assurance activities
  - help with program improvement planning and data analysis
- Email
  - Abby Schachner <u>abby.schachner@sri.com</u>
  - Cornelia Taylor <u>cornelia.taylor@sri.com</u>
- Visit the ECTA and DaSy websites for additional resources
  - http://ectacenter.org
  - http://dasycenter.org



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