

Assessing System-wide Conditions for Wraparound Implementation: The Community Supports for Wraparound Inventory



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*A System of Care for Children's Mental Health: Expanding the
Research Base*



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Initiative*

The Community Supports for Wraparound Inventory (CSWI)



- The *Community Supports for Wraparound Inventory* (CSWI) is intended for use as both a research and quality improvement tool to measure how well a local system supports the implementation of high quality wraparound.
- The CSWI is based on the Necessary Conditions for Wraparound described by Walker & Koroloff (2007)*
- Further refined through collaborative work undertaken by the National Wraparound Initiative
- Includes 40 community or system variables that support wraparound implementation.
- *Walker, J. S., & Koroloff, N. (2007). Grounded theory and backward mapping: Exploring the implementation context for wraparound. *Journal of Behavioral Health Services & Research*.

The Community Supports for Wraparound Inventory

- The 40 items are grouped within 6 themes:
 1. Community partnership
 2. Collaborative action
 3. Fiscal policies and sustainability
 4. Service array
 5. Human resource development, and
 6. Accountability
- Respondents complete the 40 items by rating the development of supports in their community or program on a 5 point scale
 - 0 = “least developed” and 4 = “fully developed”

Pilot Study

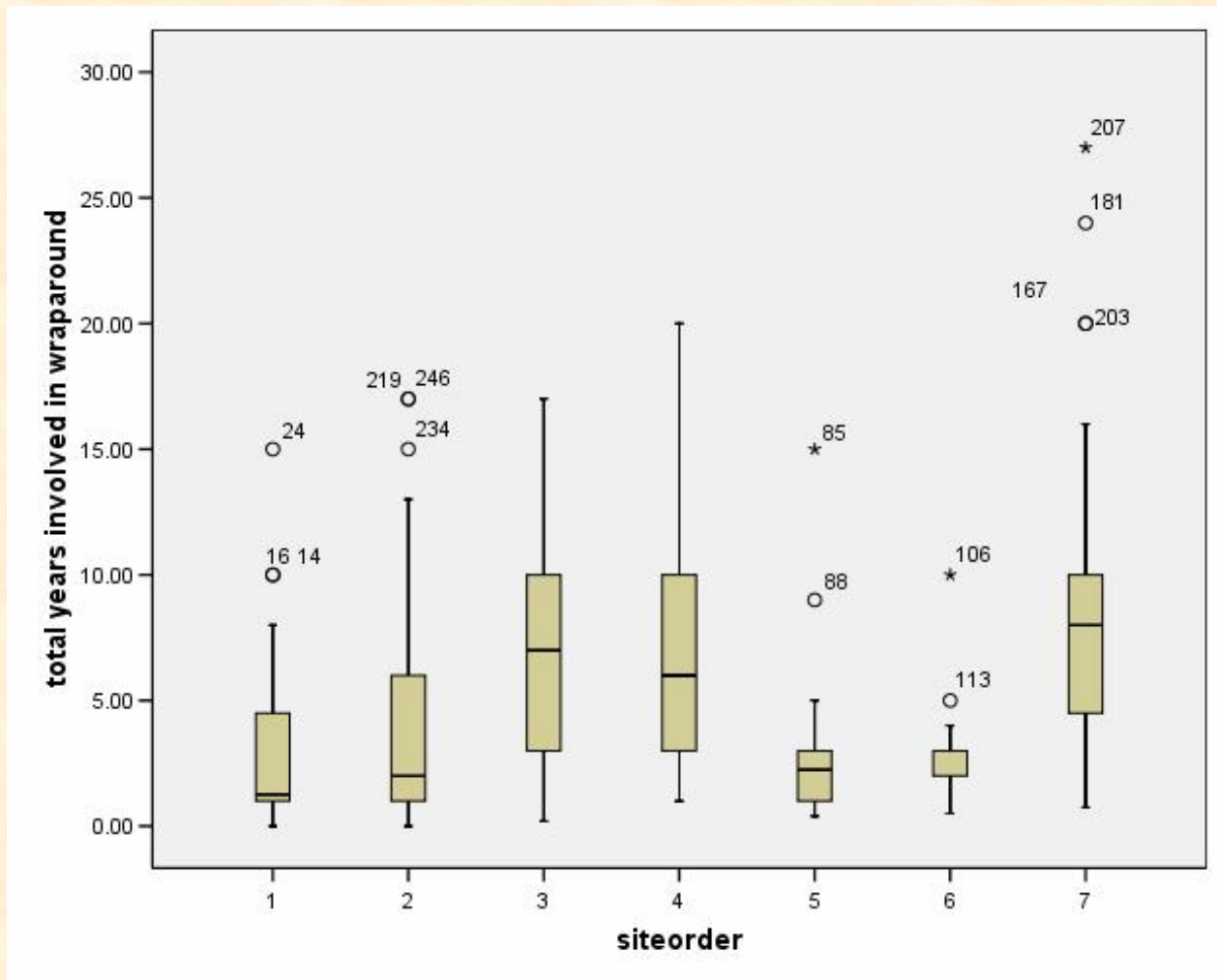


- 7 communities in different states, rural, urban and small city with environs
- Stakeholders are identified by a local coordinator and invited by email to complete the CSWI via a link to a web survey version
- Local coordinator builds support for participation
- Emails that bounce are removed from the sample
- Reminders sent until research team and local coordinators decide to close the survey
- Communities provide narrative histories of their wraparound projects

Response

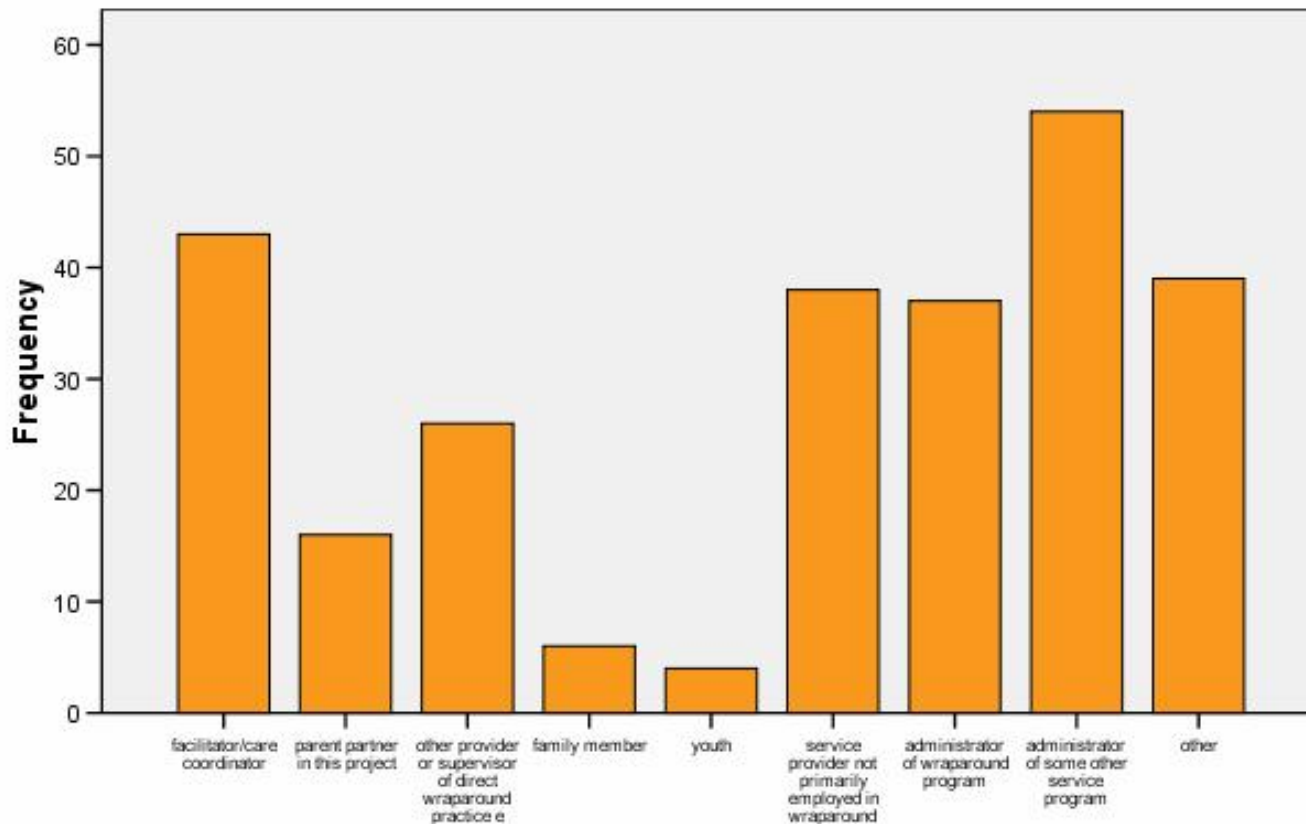
Site	n	% of total	Response Rate	Key Informant Response	Employee Response
1	28	10.0	46.8	84.0	100.0
2	41	14.7	69.7	66.7	77.4
3	22	7.9	71.7	78.6	73.3
4	29	10.4			
5	50	17.9	73.5	95.2	72.0
6	41	14.7	85.2	87.9	93.3
7	68	24.4	35.1	58.5	32.6
Total	279	100			

Respondents' Experience with Wraparound



Respondents: Current Role

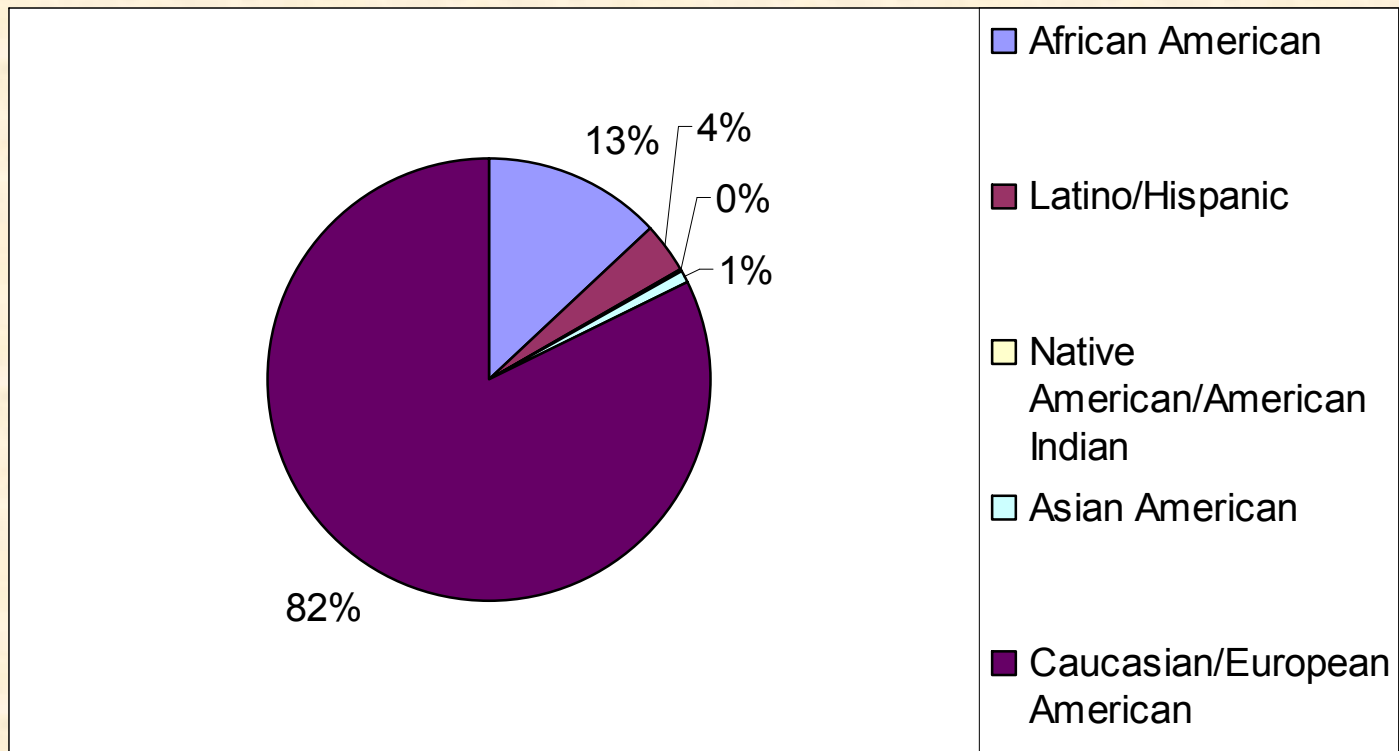
your primary role withing the wraparound project that you are referencing



your primary role withing the wraparound project that you are referencing

Respondents' Backgrounds:

What is your ethnic or racial background?



Inter-rater reliability: Average measure intraclass correlation

Site	ICC	n*
1	.812	16
2	.781	21
3	.635	14
4	.713	17
5	.878	30
6	.893	27
7	.723	17

*limited to respondents with no missing data

Measure structure and reliability

- Factor analysis: Principle Axis Factoring, oblique rotation (Promax) yielded 5-factor solution that essentially followed the themes
 - First factor accounted for 56% of variance, then 5%, 4%, 3% and 3%
 - Communalities mean .692, only item 1.4 (youth voice) $<.500$
 - Themes 1 and 2 on one factor
 - Themes 3 and 4 on one factor
 - Items 1.4 (youth voice) and 1.3 (family voice) did not hang with theme 1

	Factor				
	1	2	3	4	5
1.1 Community team	0.641	0.035	-0.024	0.107	0.043
1.2 Empowered community team	0.720	0.085	-0.181	0.120	0.090
1.3 Family voice	0.167	-0.107	0.231	0.030	0.595
1.4 Youth voice	-0.015	-0.156	0.227	-0.199	0.739
1.5 Agency support	0.704	0.066	-0.077	0.137	0.059
1.6 Community stakeholders	0.445	0.096	-0.192	0.127	0.364
1.7 Community representativeness	0.561	-0.141	-0.176	0.032	0.490
2.1 Community principles and values	0.865	-0.093	0.213	-0.130	-0.019
2.2 High-level leadership	0.818	-0.084	0.130	0.014	-0.050
2.3 Proactive Planning	0.794	0.058	0.089	0.016	-0.073
2.4 Joint action steps	0.811	0.063	-0.036	0.043	0.013
2.5 Partner agency staff preparation	0.538	0.372	0.016	-0.211	0.144
2.6 Information sharing	0.568	0.201	0.166	0.013	-0.081
2.7 Single plan	0.489	0.248	0.075	0.071	-0.051
2.8 State interface	0.400	0.214	0.109	0.102	0.007
3.1 Fiscal understanding	0.210	0.635	0.147	-0.264	0.094
3.2 Removing fiscal barriers	0.125	0.828	0.089	-0.159	-0.032
3.3 Collective fiscal responsibility	0.219	0.817	-0.049	-0.092	-0.095
3.4 Fiscal monitoring	0.087	0.860	0.082	-0.013	-0.155
3.5 Fiscal flexibility	-0.113	0.912	-0.035	0.206	-0.176
3.6 Sustained funding	0.172	0.759	-0.027	0.086	-0.226
4.1 Program access	-0.153	0.621	0.129	0.014	0.194
4.2 Service/support availability	0.039	0.556	-0.025	0.299	0.055
4.3 Building natural and community relationships	-0.081	0.414	-0.140	0.485	0.239
4.4 Choice	0.062	0.588	0.011	0.235	0.049
4.5 Service/support quality	0.108	0.376	0.022	0.224	0.172
4.6 Crisis response	0.184	0.333	0.007	0.330	0.051
5.1 Wraparound job expectations	0.126	-0.019	0.073	0.820	-0.111
5.2 Agency job expectations	0.323	0.083	0.119	0.503	-0.163
5.3 Caseload sizes	0.016	-0.091	0.134	0.947	-0.165
5.4 Professional development	-0.040	0.103	0.157	0.732	-0.118
5.5 Supervision	0.179	-0.155	0.074	0.771	0.002
5.6 Compensation for wraparound services	-0.183	0.147	0.184	0.589	0.131
6.1 Outcomes monitoring	0.099	-0.042	0.859	0.117	-0.068
6.2 Range of outcomes	-0.137	0.031	0.753	0.136	0.181
6.3 Wraparound quality	0.001	-0.088	0.720	0.227	0.130
6.4 Plan fulfillment	0.113	0.156	0.731	-0.029	-0.019
6.5 Grievance procedure	-0.078	0.201	0.480	0.154	0.204
6.6 Satisfaction monitoring	0.084	0.085	0.628	0.008	0.159
6.7 Addressing barriers	0.114	0.229	0.393	0.126	0.093

Themes are interrelated



- Factors intercorrelated

Factor Correlation Matrix

Factor	1	2	3	4	5
1	1.000	.760	.607	.681	.567
2	.760	1.000	.671	.767	.548
3	.607	.671	1.000	.686	.501
4	.681	.767	.686	1.000	.588
5	.567	.548	.501	.588	1.000

One-factor solution with loadings:

	Factor
	1
1.1 Community team	0.705
1.2 Empowered community team	0.736
1.3 Family voice	0.656
1.4 Youth voice	0.340
1.5 Agency support	0.785
1.6 Community stakeholders	0.682
1.7 Community representativeness	0.577
2.1 Community principles and values	0.727
2.2 High-level leadership	0.732
2.3 Proactive Planning	0.795
2.4 Joint action steps	0.795
2.5 Partner agency staff preparation	0.743
2.6 Information sharing	0.782
2.7 Single plan	0.753
2.8 State interface	0.737
3.1 Fiscal understanding	0.720
3.2 Removing fiscal barriers	0.783
3.3 Collective fiscal responsibility	0.760
3.4 Fiscal monitoring	0.818
3.5 Fiscal flexibility	0.769
3.6 Sustained funding	0.752
4.1 Program access	0.680
4.2 Service/support availability	0.827
4.3 Building natural and community	0.779
4.4 Choice	0.845
4.5 Service/support quality	0.773
4.6 Crisis response	0.802
5.1 Wraparound job expectations	0.799
5.2 Agency job expectations	0.795
5.3 Caseload sizes	0.758
5.4 Professional development	0.749
5.5 Supervision	0.754
5.6 Compensation for wraparound	0.724
6.1 Outcomes monitoring	0.796
6.2 Range of outcomes	0.751
6.3 Wraparound quality	0.784
6.4 Plan fulfillment	0.794
6.5 Grievance procedure	0.774
6.6 Satisfaction monitoring	0.773
6.7 Addressing barriers	0.805

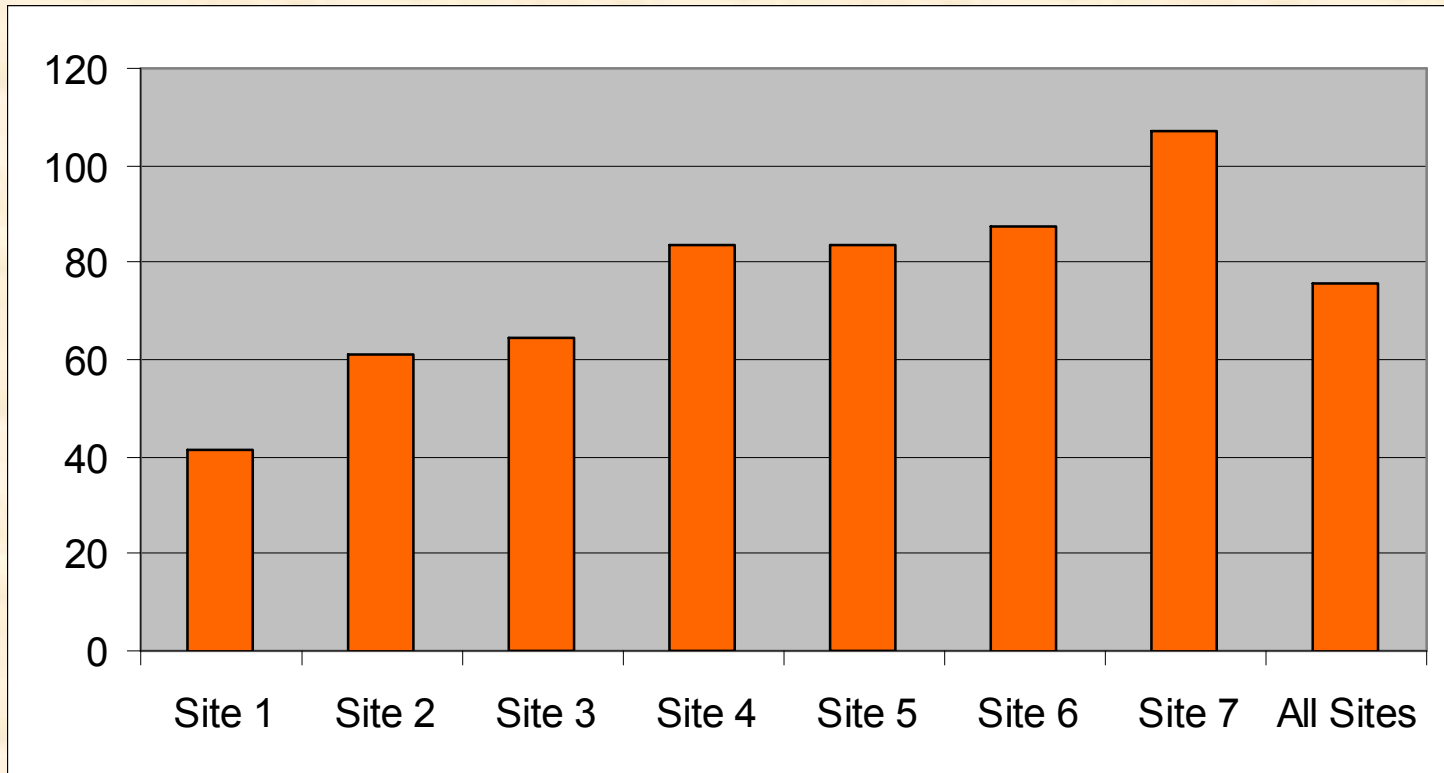
Internal Reliability: Themes and Overall



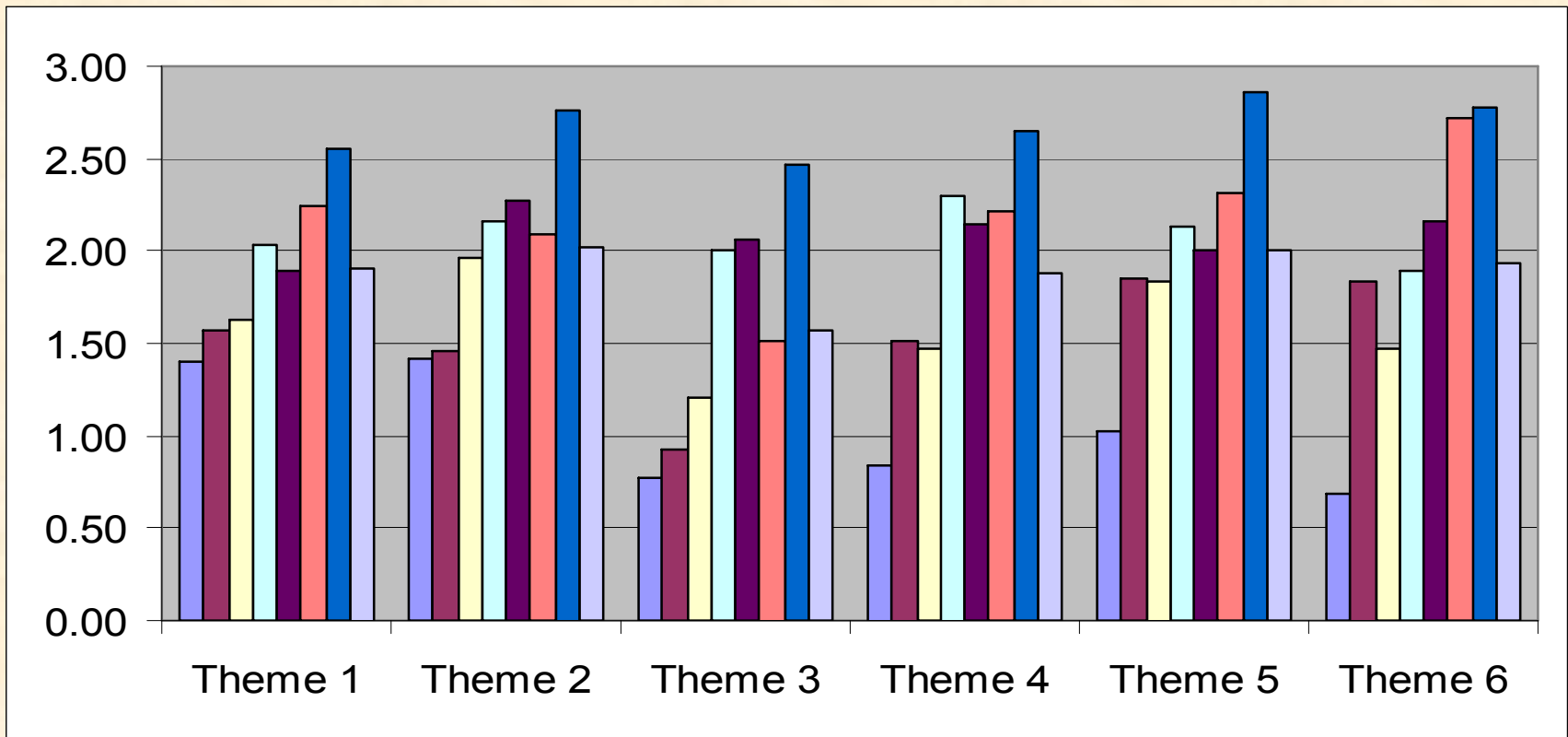
Cronbach's alpha	
Theme 1	0.872
Theme 2	0.927
Theme 3	0.94
Theme 4	0.922
Theme 5	0.937
Theme 6	0.953
Entire CSWI	0.95

CSWI Total Scores

(Maximum possible = 160)



Mean Item Score by Theme: Seven Sites and All Sites



	Site1	Site 2	Site 3	Site 4	Site 5	Site 6	Site 7	All Sites
1.1 community team	1.47	0.54	1.27	1.85	0.83	0.42	1.42	1.67
1.2 empowered community	1.16	0.60	1.27	1.29	0.90	0.01	0.96	1.33
1.3 family voice	-0.62	0.71	0.31	-0.38	-0.12	1.60	-0.33	0.38
1.4 youth voice	1.45	-0.61	-2.00	-1.80	-1.51	0.61	-3.45	-1.34
1.5 agency support	1.25	0.38	0.66	0.64	-0.98	-0.35	0.76	0.55
1.6 community stakeholder	-0.01	-0.20	-1.02	-1.21	-2.71	-1.45	-1.41	-1.68
1.7 community representation	1.28	-0.75	-0.17	-1.62	-1.33	-0.14	-0.92	-0.65
2.1 community principles	1.01	-0.26	2.06	1.08	1.72	0.67	0.33	1.46
2.2 high-level leadership	0.26	-0.20	0.74	0.36	1.33	-0.14	0.66	0.60
2.3 proactive planning	1.67	0.21	1.19	0.83	0.94	-0.03	0.40	1.15
2.4 joint action steps	1.57	-1.30	-0.06	0.24	0.34	-0.52	-0.16	-0.01
2.5 partner agency staff	2.03	-0.01	1.19	0.12	0.30	-0.47	0.26	0.77
2.6 information sharing	1.86	-0.34	0.34	-0.63	0.94	-0.69	0.07	0.34
2.7 single plan	0.09	0.10	0.74	0.89	0.62	0.03	0.79	0.64
2.8 state interface	-1.20	0.07	1.19	-0.97	-1.08	-0.54	-0.36	-0.61
3.1 fiscal understanding	0.28	-1.96	-1.28	-0.72	-0.55	-0.92	-1.38	-1.43
3.2 removing fiscal barrier	-0.62	-1.46	-1.44	-1.03	-0.90	-1.53	-1.22	-1.86
3.3 collective fiscal reform	-0.96	-2.37	-1.95	-1.34	-1.26	-2.02	-2.24	-2.72
3.4 fiscal monitoring	-1.32	-1.71	-1.97	0.55	0.48	-1.51	-0.23	-1.47
3.5 fiscal flexibility	-0.11	-0.15	-0.38	1.42	1.82	-0.11	0.82	0.55
3.6 sustained funding	-1.27	-2.34	0.55	-0.38	-0.23	-2.60	0.03	-1.55
4.1 program access	-0.20	0.40	0.28	-0.04	0.16	0.03	-1.51	-0.14
4.2 service/support availability	-0.47	-0.20	-0.30	1.02	1.61	0.46	1.32	0.60
4.3 building natural and	-0.40	-0.09	-0.59	0.95	-0.98	0.44	-0.13	-0.14
4.4 choice	-0.66	-0.12	-0.30	0.58	-0.16	0.03	0.17	-0.14
4.5 service/support quality	0.09	0.60	-0.22	-0.38	-0.41	-0.47	-0.43	-0.26
4.6 crisis response	-1.27	-0.81	-1.04	1.94	0.73	-0.30	-0.03	-0.35
5.1 wraparound job expectations	0.02	1.15	0.39	0.43	0.05	0.29	0.92	0.68
5.2 agency job expectations	0.79	0.43	0.39	-0.25	-0.34	-0.58	-0.03	0.12
5.3 caseload sizes	-0.40	1.56	0.74	0.18	-0.34	0.63	0.50	0.68
5.4 professional development	0.04	1.06	1.32	1.42	0.30	0.29	1.05	1.15
5.5 supervision	-0.47	0.87	1.32	-0.56	0.19	0.29	1.25	0.64
5.6 compensation for wraparound	-0.32	0.24	-0.54	-0.25	-1.83	0.69	-0.20	-0.35
6.1 outcomes monitoring	-0.86	1.04	0.05	-0.97	0.76	1.52	0.86	0.55
6.2 range of outcomes	-0.40	1.50	0.10	-0.78	0.37	1.77	0.69	0.81
6.3 wraparound quality	-1.13	0.79	-0.06	-1.46	0.48	1.65	0.50	0.25
6.4 plan fulfillment	-0.57	0.24	-0.22	-0.25	0.80	1.07	0.40	0.34
6.5 grievance procedure	-1.49	1.83	-0.86	1.08	-0.05	2.01	0.26	0.68
6.6 satisfaction monitoring	-1.05	0.46	-0.57	-0.41	0.12	0.10	-0.43	-0.39
6.7 addressing barriers	-0.52	0.10	-1.10	-1.43	-1.01	-0.24	0.03	-0.87

Validity



- Face validity
- Content validity
 - Initial research to tap the domain
 - NWI member input and consensus
- Matching site narratives to level of development
- Matching findings from the CSWI with respondents' answers to open-ended questions
- Future study in combination with fidelity measures and other data

- Site 1, just barely operating. Two unsuccessful applications for SoC grants
- Site 2
- Site 3, graduated SoC (Ask eric)
- Site 4
- Site 5, 4th year of SoC funding, SoC formation beginning ~2 years prior with participation in state pilot
- Site 6, 4th year of SoC funding, no significant prior funding or development
- Site 7, ten years, “graduate” SoC site, widely recognized as one of the more successful wraparound projects