

Supplemental Table 5. Methods and Tools Used to Capture Systems Factors Related to Breastfeeding, Healthy Eating, and Physical Activity in Rural Communities

Breastfeeding		Healthy Eating		Physical Activity	
Method/Tool	Sources	Method/Tool	Sources	Method/Tool	Sources
Ethnographic interviews	1. Flood, 2017 2. Flower et al., 2008	Windshield tours with qualitative observations	1. Atkinson et al., 2010 2. McGuirt et al., 2015	Windshield tours	1. Atkinson et al., 2010
Semi-structured focus group	1. Majee et al., 2016	School Environment and Policy Survey (SEPS)	1. Belansky et al., 2010 2. Belansky et al., 2013*	School Environment and Policy Survey (SEPS)	1. Belansky et al., 2013*
		Focus groups	1. Ndirangu et al., 2007* 2. Sánchez et al., 2014* 3. Wallace et al., 2019 4. Honeycutt et al., 2012 5. Devine et al., 2012 6. Andress & Fitch, 2016 7. Byker Shanks et al., 2017 8. Dye & Cason, 2005 9. Hampson et al., 2009 10. Ramadurai et al., 2012 11. Seguin et al., 2014 12. Smith & Morton, 2009 13. Yousefian et al., 2011 14. Atkinson et al., 2007 15. Bishop et al., 2015 16. Calodich, 2015 17. Case & Rojina, 2015 18. Fredericks et al., 2015 19. Haas et al., 2015 20. Halverson & Devlin, 2015 21. Halverson, 2015	Focus groups	1. Yousefian et al., 2010 2. Moore et al., 2010 3. Ndirangu et al., 2007* 4. Sánchez et al., 2014* 5. Lo et al., 2017 6. Wallace et al., 2019 7. Devine et al., 2012 8. Aronson & Oman, 2004 9. Chrisman et al., 2015 10. Seguin et al., 2014 11. Eyler & Vest, 2002 12. Gangeness, 2010 13. Kristjansson et al., 2015 14. Riley-Jacome et al., 2010* 15. Sanderson et al., 2002 16. Wilcox et al., 2005 17. Zimmermann et al., 2016 18. Atkinson et al., 2007 19. Thompson et al., 2002 20. Gamble et al., 2017* 21. Bishop et al., 2015 22. Calodich, 2015 23. Case & Rojina, 2015

	22. Harden & Rudolph, 2015		24. Fredericks et al., 2015
	23. Harden & Rudolf, 2015		25. Haas et al., 2015
	24. Jensen et al., 2015		26. Halverson & Devlin, 2015
	25. Worthen et al., 2015		27. Halverson, 2015
	26. Clifford et al., 2015		28. Harden & Rudolph, 2015
	27. Clifford et al., 2015		29. Harden & Rudolf, 2015
	28. Lewis et al., 2015		30. Jensen et al., 2015
	29. Gatzke et al., 2015		31. Worthen et al., 2015
	30. Marcusson et al., 2015		32. Clifford et al., 2015
	31. Wayne, 2015		33. Clifford et al., 2015
	32. Peutz, 2015		34. Lewis et al., 2015
	33. Powers-Hammond et al., 2015		35. Gatzke et al., 2015
	34. Sant et al., 2015		36. Marcusson et al., 2015
	35. Tingey et al., 2015		37. Wayne, 2015
	36. Hutson, 2017		38. Peutz, 2015
	37. Panzera et al., 2017		39. Powers-Hammond et al., 2015
			40. Sant et al., 2015
			41. Tingey et al., 2015
Key informant interviews	1. Sánchez et al., 2014*	Key informants' interview	1. Sánchez et al., 2014*
	2. Findholt, 2011		2. Findholt, 2011
	3. Yousefian et al., 2011		3. Gilbert et al., 2019
	4. Bardenhagen et al., 2017		4. Lo et al., 2017
	5. Hartline et al., 2017		5. Yousefian et al., 2010
	6. Wallace et al., 2019		6. Wallace et al., 2019
			7. Chadwick et al., 2019
Semi-structured interviews	1. Ahmed et al., 2011	Semi-structured interviews	1. Kegler et al., 2008
	2. Cornish et al., 2016*		2. Kegler et al., 2013
	3. Ko, 2018		3. Kegler et al., 2015
	4. Pinard et al., 2016		4. Ahmed et al., 2011
	5. Russomanno & Jabson, 2016		5. Escoffery et al., 2011
	6. Shah et al., 2019		6. Devine et al., 2012
	7. Honeycutt et al., 2012		7. Snyder et al., 2019
	8. Devine et al., 2012		8. Buro et al., 2015
	9. Escoffery et al., 2011		9. Wilcox et al., 2018*
	10. Jilcott Pitts et al., 2009		10. Kumar et al., 2016
			11. Gustafson et al., 2018
			12. Gustafson et al., 2019

	11. Snyder et al., 2019		
	12. Buro et al., 2015		
	13. Wilcox et al., 2018*		
	14. Haynes-Maslow et al., 2018*		
	15. Holston et al., 2020		
	16. Kumar et al., 2016		
	17. Crooks, 2003		
	18. Gustafson et al., 2018		
	19. Gustafson et al., 2019		
	20. Johnson et al., 2017		
	21. Askelson et al., 2019		
Survey/Questionnaire	1. Hanawa Peterson & Procter, 2019	Survey/Questionnaire	1. Abi Nader et al., 2018
	2. Jilcott Pitts et al., 2015		2. Alexander, 2015
	3. Jilcott Pitts et al., 2015		3. Jilcott Pitts et al., 2017
	4. Jilcott Pitts et al., 2017		4. Jilcott Pitts et al., 2015
	5. Jilcott Pitts et al., 2018		5. Jilcott Pitts et al., 2015
	6. Gustafson et al., 2018		6. Moore et al., 2013
	7. Wallace et al., 2019		7. Perry et al., 2011
	8. Kegler et al., 2014		8. Gustafson et al., 2018
	9. Alexander, 2015		9. Kegler et al., 2012
	10. Devine et al., 2012		10. Kegler et al., 2014
	11. Houghtaling et al., 2019*		11. Shores et al., 2009
	12. Blumenschine et al., 2018		12. Shores et al., 2010
	13. Gustafson et al., 2017		13. Turner et al., 2016
	14. Cornish et al., 2016*		14. Wallace et al., 2019
	15. Dewitt et al., 2017		15. Bevans et al., 2010
	16. Garasky et al., 2006		16. Devine et al., 2012
	17. Quandt et al., 2006		17. Wilson et al., 2004
	18. Turner et al., 2016		18. Edwards et al., 2011
	19. Valdez et al., 2012		19. Edwards et al., 2013
	20. Jernigan et al., 2018*		20. Brownson et al., 2000
	21. Daly et al., 2017		21. Brownson et al., 2005
	22. Haynes-Maslow et al., 2018*		22. Chrisman et al., 2014
	23. Barnidge et al., 2013		23. Chrisman et al., 2015
	24. Barnidge et al., 2013		24. Comstock et al., 2016
	25. Barnes et al., 2016		25. Wilcox et al., 2000
			26. Wilcox et al., 2003

	26. Bauer et al., 2012		27. Deshpande et al., 2005
	27. Powers et al., 2019		28. Hooker et al., 2005
	28. Friedman et al., 2014*		29. Kasehagen et al., 2012
	29. Hearst et al., 2018*		30. Li et al., 2015
	30. Lin & Fly, 2016		31. Li et al., 2018
	31. Polacsek et al., 2018		32. Sanderson et al., 2003
	32. Sherry, 2008		33. Powers et al., 2019
	33. Addy et al., 2004		34. Mead, 2018
			35. Daly et al., 2017
Participatory Photographic Surveys	1. Bishop et al., 2015	Participatory Photographic Surveys	1. Bishop et al., 2015
	2. Calodich, 2015		2. Calodich, 2015
	3. Case & Rojina, 2015		3. Case & Rojina, 2015
	4. Fredericks et al., 2015		4. Fredericks et al., 2015
	5. Haas et al., 2015		5. Haas et al., 2015
	6. Halverson & Devlin, 2015		6. Halverson & Devlin, 2015
	7. Halverson, 2015		7. Halverson, 2015
	8. Harden & Rudolph, 2015		8. Harden & Rudolph, 2015
	9. Harden & Rudolf, 2015		9. Harden & Rudolf, 2015
	10. Jensen et al., 2015		10. Jensen et al., 2015
	11. Worthen et al., 2015		11. Worthen et al., 2015
	12. Clifford et al., 2015		12. Clifford et al., 2015
	13. Clifford et al., 2015		13. Clifford et al., 2015
	14. Lewis et al., 2015		14. Lewis et al., 2015
	15. Gatzke et al., 2015		15. Gatzke et al., 2015
	16. Marcusson et al., 2015		16. Marcusson et al., 2015
	17. Wayne, 2015		17. Wayne, 2015
	18. Peutz, 2015		18. Peutz, 2015
	19. Powers-Hammond et al., 2015		19. Powers-Hammond et al., 2015
	20. Sant et al., 2015		20. Sant et al., 2015
	21. Tingey et al., 2015		21. Tingey et al., 2015
Free listing exercise	1. Houghtaling, 2020	Telephone interview	1. Armstrong, 2000
Stakeholder interviews	1. Atkinson et al., 2010	Stakeholder interviews	1. Atkinson et al., 2010
			2. Page-Reeves et al., 2014
			3. Griffin et al., 2011

California Health Interview Survey	1. Babey et al., 2008	International PA Questionnaire Environmental Module	1. Bopp et al., 2012
The Active Where? Parent Survey	1. Buro et al., 2015	The Active Where? Parent Survey	1. Buro et al., 2015
Food Acquisition and Purchase Survey (FoodAPS)	1. Ma, 2018	In person interviews	1. Alexander et al., 2015 2. Edwards et al., 2014 3. Bove & Olson, 2006
Store Visit Process Evaluation form (SVPE)	1. Novotny et al., 2011*	Health Impact Assessment screening and scoping processes	1. Davis et al., 2014
School nutrition and physical activity environment tool	1. Demment et al., 2015	School nutrition and physical activity environment tool	1. Demment et al., 2015
Environment and Policy Assessment and Observation Self-Report (EPAO-SR) tool	1. Erinosho et al., 2018 2. Erinosho et al., 2019	Qualitative interviews	1. Baker, 2017
Produce Desirability Tool (ProDes)	1. Ahmed et al., 2018	Go Nutrition and Physical Activity Self-Assessment in Child Care	1. Dinkel et al., 2018
Telephone interview	1. Armstrong, 2000 2. Askelson et al., 2015 3. Nothwehr et al., 2014* 4. Barnidge et al., 2013	Environment and Policy Assessment and Observation Self-Report (EPAO-SR) tool	1. Erinosho et al., 2018 2. Erinosho et al., 2019
In-person interviews	1. D'Angelo et al., 2017 2. Flamm, 2011 3. Izumi et al., 2015 4. Kegler et al., 2008 5. Misysak et al., 2015 6. Thatcher et al., 2017 7. Crooks, 2003 8. Alexander, 2015 9. Bove & Olson, 2006	Women and Physical Activity Survey	1. Eyster, 2003
International PA Questionnaire Environmental Module	1. Bopp et al., 2012	Photovoice workshops	1. Findholt, 2011 2. Findholt, 2011 3. Hennessy et al., 2010
Open-ended questions	1. Schetzina et al., 2009	Nominal Group Technique	1. Jahns et al., 2014

BreakFAST study surveys	1.	Caspi et al., 2017	National Survey of Community Based Policy and Environmental Supports for HE and Active Living	1.	Omura et al., 2017
Healthy Children, Healthy State Questionnaire	1.	Dev et al., 2020*	Neighborhood Environment Walkability Scale	1.	Hill et al., 2016
Process evaluation	1.	Honeycutt et al., 2012	Healthy Rural Communities 2 (HRC2) questionnaire	1.	Scanlin et al., 2014
Photovoice workshops	1.	Misyak et al., 2015	Open-ended questions	1.	Schetzina et al., 2009
Random-digit-dial surveys	1.	Gustafson et al., 2019	In depth interviews	1.	Glagola Dunn, 2018
Card sorting exercise	1.	Houghtaling et al., 2019*	Telephone survey	1.	Hill et al., 2016
Tool for Health and Resilience in Vulnerable Environments (THRIVE);	1.	Jernigan et al., 2012	Random-digit-dial surveys	1.	Gustafson et al., 2019
Intercept survey	1.	Chapman et al., 2019			
	2.	Martinez-Donate et al., 2015*			
	3.	Jilcott Pitts et al., 2018			
	4.	Gustafson et al., 2019			
	5.	Barnidge et al., 2013			
	6.	Mackenzie et al., 2019			
Beverage and Snack Questionnaire 2 (BSQ2).	1.	Mann et al., 2017*			
In-depth interviews	1.	Glagola Dunn, 2018			
	2.	McGuirt et al., 2014			
	3.	McGuirt et al., 2014			
	4.	Quandt et al., 2006			
	5.	Scott & Wilson, 2011			
Colonia Household and Community Food Resource Assessment (C-HCFRA)	1.	Sharkey et al., 2011			
	2.	Sharkey et al., 2012			
Qualitative field notes	1.	Davis et al., 2017			