The Center of Excellence for FOOD SAFETY RESEARCH IN **CHILD NUTRITION PROGRAMS**

Introduction and Purpos

- In 2015, the Summer Food Service Progr (SFSP) provided 164 million meals and
- Complex SFSP operational conditions c increase food safety risks: Diverse cooking sites
 - Diverse, including outdoor, service sites
 - Transportation from preparation to serving si
 - Higher ambient temperatures during meal ser
- This research examines the effectivenes current TCS food safety practices in the

Methodology

- A total of 28 SFSP sites was observed, for each USDAFNS region in July and Augu (Fig. 1)
- Practices utilized to control temperatures throughout the day of service were observed

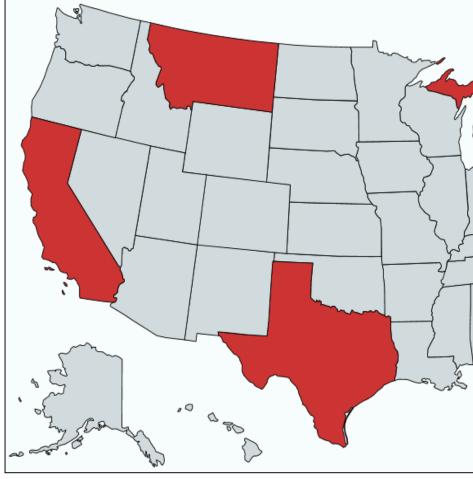


Fig.1 Observation sites by

• Data loggers were utilized to capture th temperature of foods just after preparati service



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Time and Temperature Control of Foods in the Summer Food Service Program

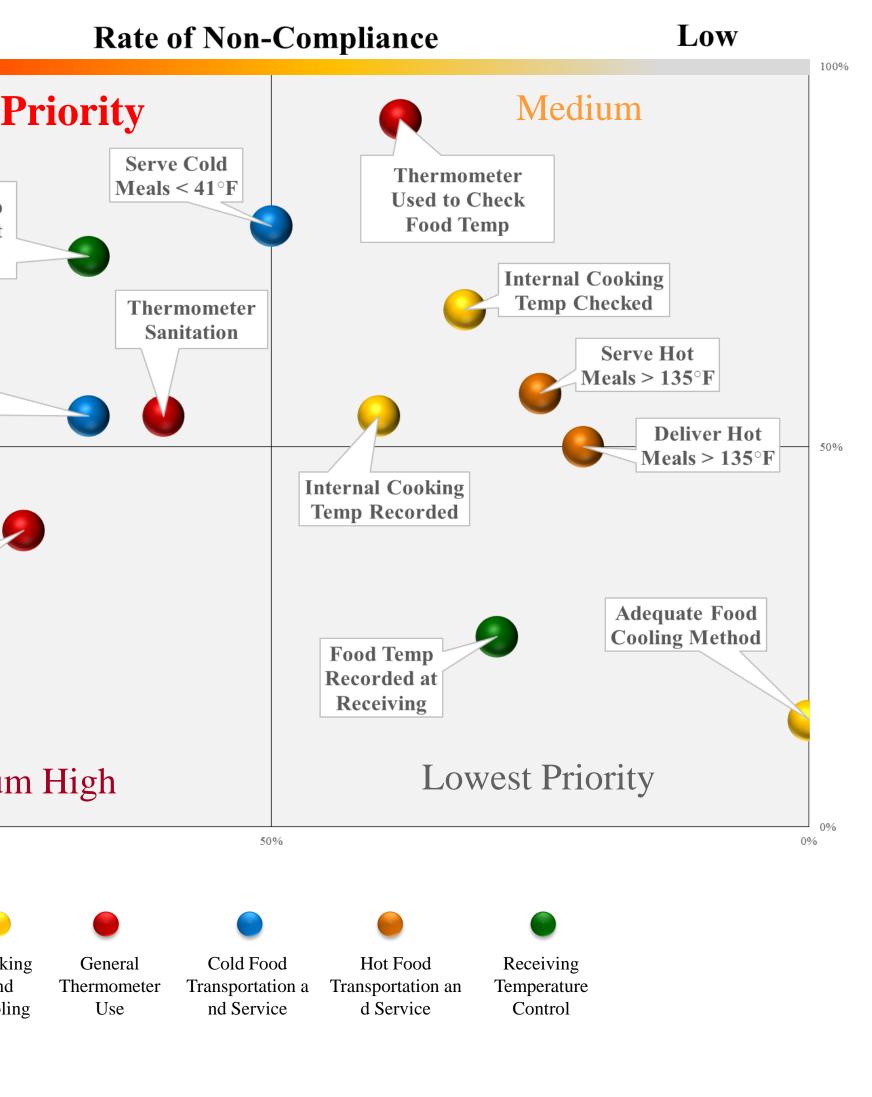
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se	Results	Re
gram I snacks could	 Cooking, Cooling, and Thermometer Use Practices Most Common: checking internal cooking temperatures (68%), and checking end-point cooking temperatures (62%) 	Fig.2. Matrix plot non-compliance. H and high non-co High
sites ervice hours ess of te SFSP	 Least Common: proper cleaning and sanitizing of thermometers (40%), and thermometer: calibration (27%) Transportation and Serving Practices Most Common: delivering hot meals at proper temperatures (79%), and checking food temperatures at delivery (50%) Least Common: recording food temperatures at delivery (31%), and using refrigerated trucks (16%) 	Upper BFood Temp Checked at ReceivingDeliver Cold Meals < 41°F
	 Lunch Food Temperatures Average Time in Temperature Danger Zone Hot Foods < 135°F for 45 minutes Cold Foods > 41°F for 90 minutes Hot foods more often served at the correct temperatures (75%), than cold foods (50%). Only one item did not meet Food Code 2013 	Image: Display interval in
by state	 requirements Suggested Training Priorities High: cold food transport and service, checking food temperatures at receiving, thermometer sanitation Medium High: thermometer calibration Medium: hot food transportation and service, cooking and cooling practices, thermometer to check food temperatures Lowest: adequate cooling methods, recording food temperature at receiving (Fig. 2) 	 The USDA's goal served in the SF capacity; targete Based on the find should focused Delivery and particularly v Monitoring a at receiving Thermometer calibration



esults, Continued

ot of practice occurrence rate and the rate of Practices exhibiting both high occurrence compliance are high priority for training.



Applications

bal to increase the number of meals FSP requires increasing staff eted food safety training is needed. ndings of this study training on:

l service of cold foods; they are vulnerable to higher temperatures and recording food temperatures

er cleaning, sanitizing, and