Tulsa City-County Health Department Report on the Occurrence of Foodborne Illness Risk Factors in Healthcare, Schools, Fast Food & Full Service Restaurants, and Retail Food Establishment Types

2021

Tulsa City-County Health Department Food Protection Services

5051 S 129th E Ave Tulsa, OK 74134 Phone: 918-595-4300 www.tulsa-health.org

Contents

I. Introduction

- a. Background
- b. Purpose
- c. Study Design

II. Methodology

- a. Selection of Facilities
- b. Data Collection

III. Results

- a. Healthcare
 - i. Hospitals
 - ii. Long Term Care
- b. Schools
- c. Restaurants
 - i. Fast Food
 - ii. Full Service
- d. Retail Food
 - i. Grocery
 - ii. Convenience

IV. Discussion and Recommendations

- a. Improper Holding Temperature
- b. Contaminated Equipment

Appendices

Appendix A Food Inspection Data Collection Form

Appendix B Self Inspection Form

Appendix C Sample Risk Factor Profile

I. Introduction

Background

The Tulsa City-County Health Department (THD) serves as the primary public health agency to residents in Tulsa County. The mission of THD is to improve the health and well-being of all Tulsa County residents. Food Protection Service (FPS) Program's goal is to prevent foodborne illness likelihood by promoting food safety-related behaviors and practices.

FPS is comprised of 30 employees made up of a Program Manager, 4 supervisors, 20 Environmental Health Specialists (Sanitarians), 1 Data Analyst and 4 Clerical Support Staff. Sanitarians are responsible for routine inspections, complaint investigations, plan reviews, etc. for approximately 4,700 retail food establishments in Tulsa County. Tulsa County food establishments types include hospitals, full service restaurants, fast food restaurants, schools, retail food stores, processors, and long term care facilities that serve the public in addition to residents. FPS program conducted approximately 7,600 inspections last fiscal year.

The State of Oklahoma has adopted the 2013 FDA Food Code. The 2017 FDA Food Code and updates are expected to be adopted by November 2021. THD-FPS derives regulatory authority under Title 63 Oklahoma State Statutes, Contract Agreements with the Oklahoma State Department of Health and local city ordinances.

Purpose

FPS Program has been active with the FDA Voluntary National Retail Food Regulatory Program Standards since its enrollment in 2002. Since that time, THD-FPS has worked on continuous improvement to achieve conformance with program standards.

The Center for Disease Control (CDC) has consistently identified five major risk factors that contribute to foodborne illness. These risk factors include poor personal hygiene, improper holding temperature, contaminated equipment, inadequate cooking and food from an unsafe source. The THD-FPS risk factor study also includes correlation of Active Managerial Control (AMC) or having a certified food protection manager present when measured against how well risk factors are controlled. THD monitors these risk factors through routine inspections and continues to educate retail food establishments on food safety behaviors and practices.

Some of the objectives of this study are to:

- Identify risk factors in need of improvement per establishment type
- Evaluate trends over time to determine risk factor improvement or decline
- Develop intervention strategies to control identified risk factors needing improvement
- Develop strategies internally to improve the THD-FPS Program

Study Design

This study will be used as a baseline to assess CDC risk factor trends going forward. THD elected to use previous jurisdictional data from over a three-year period, July 1, 2017 to June 30, 2020. The current food inspection form (Appendix A) has been in use since 2011. There is a total of 58 compliance data items possible. The first 35 compliance data items represent priority and priority foundation and are directly or indirectly related to risk factors that contribute to food borne illness. The remaining line items are designated as core compliance data items related to general sanitation

& maintenance, equipment design & maintenance, and physical facilities & structures. The food inspection form utilizes the IN, OUT, NA, and NO compliance marking criteria.

Of the 58 data items on the food inspection form, 19 data items have been identified to correspond with one of the five CDC Foodborne Illness Risk Factors including AMC (see Table 1). A full description of the compliance data items can be found in Table 2.

Table 1

CDC Foodborne Illness Risk Factors – Compliance Data Items	# of Data Items
Improper Holding Temperature - 18, 19, 20, 21, 22, 23	6
Inadequate Cooking - 17, 24	2
Contaminated equipment - 11, 32, 33	3
Food from unsafe source - 8, 9, 10	3
Poor Personal Hygiene - 4, 5, 6, 7	4
Active Managerial Control - 2	1

Table 2

	Data Items
Compliance Item No.	Description
2	Person in Charge present, demonstration of knowledge, performs duties
4	Ill workers? Person in Charge & Employee responsibilities: Report symptoms & diagnosis; Restrict/Exclude (removal, retain or adjust)
5	Hands clean, washed, maintained; Hand antiseptics
6	No Bare Hand Contact with Ready-to-Eat foods or alternate methods; Glove limitations
7	Adequate hand wash facilities: supplied, accessible; Toilets properly supplied
8	Food, water, ice: obtained from approved source
9	Food in good condition, safe, unadulterated, segregated
10	Required records (shellstock tags, parasite destruction)
11	Food separated/protected; Proper tasting procedures; Self-serve operations; Single service use when required
17	Cooking time & temperatures; Plant food cooking
18	Reheating procedures for hot holding
19	Cooling time & temp; cooling methods
20	Hot holding temps; received at proper temp
21	Cold holding temps; received at proper temp
22	Date marking and disposition
23	Time as public health control, procedures/records
24	Non-continuous cooking process / partial cook
32	Warewashing; Sanitize at ppm/temp
33	Food contact surfaces of equipment & utensils clean

II. Methodology

Selection of Facilities

All Tulsa County food establishments within the current database were categorized into four industry segments (if applicable): Healthcare, Schools, Restaurants, and Retail Food Stores. Within each industry segment establishment types were distinguished (Table 3). Healthcare is comprised of both hospitals and long-term care establishments that serve residents and public guests. All K-12 schools were included in this study. Restaurants were broken down into fast food and full service. Retail Food Stores were broken down into grocery and convenience. Grocery is defined as an establishment with one or more departments that does not have a gas station directly associated with the establishment. Convenience, on the other hand, is an establishment that sells similar but a more limited selection of grocery items usually with a gasoline service as a primary feature of the establishment.

All establishments are also categorized by risk: high, medium and low. High and medium facilities serve Time/Temperature Control for Safety TCS foods. Low risk establishments primarily serve pre-packaged foods. All low risk establishments were excluded from this study.

Table 3

Industry Segment	Establishment Type		
Healthcare	Hospitals		
Heatticare	Long term care		
Schools	Kindergarten – 12 th grade		
Restaurants	Fast Food		
Restaurants	Full Service		
Retail Food Stores	Grocery		
Retail Food Stores	Convenience		

Data Collection

All establishments matching one of the four industry segments were used in this study. Food inspection data was retrieved from FPS's current database program and matched with its respective industry segment and establishment type. Only routine, compliance, and complaint inspection data was used.

The data was analyzed by calculating the IN-compliance percentage which is the number of IN compliance observations divided by total IN and OUT observations. THD used this formula to explore the IN-compliance percentage for each compliance data item as well as CDC risk factor. The IN-compliance percentage gives an indication of how well or effective the risk factor is being controlled. The greater the control over a risk factor the more effective an establishment is at food safety management. THD used the following criteria to determine the priority of IN compliance percentage, see Table 4.

Table 4

IN Compliance %	Priority
Greater than 90%	Risk factor is well controlled
90% - 71%	Risk factor needs improvement
70% - 61%	Risk factor is of special concern
Less than 60%	Risk factor is priority

Results

A. Healthcare

Hospitals

This study included 11 hospitals and a total of 78 inspections were completed over the three-year period. There were 10 establishments designated as high risk and 1 medium risk.

Results

Active Managerial Control – Compliance item number 2 was observed OUT of compliance once and associated with the one non-compliant/failing inspection.

Figure 1 displays percent IN-compliance for each compliance item for each CDC risk factor. Compliance items 7, 19, 20, 21, and 22 are in "need of improvement" as they are below 90% - 71% IN-compliance. Compliance item 33 is a priority since it is below 60% IN-compliance.

Figure 1 – Hospitals – Percent IN-Compliance for each Compliance Data Item

		# IN	# OUT	
Risk Factor	Compliance	Compliance	Compliance	% IN
	Item No.	Observations	Observations	Compliance
Active Managerial Control	2	77	1	98.7%
	18	4	0	100.0%
	19	26	3	89.7%
Improper Holding	20	54	14	79.4%
Temperature	21	62	15	80.5%
	22	66	9	88.0%
	23	25	0	100.0%
In a 1- marks Carabins	17	30	0	100.0%
Inadequate Cooking	24	12	0	100.0%
	11	68	1	98.6%
Contaminated Equipment	32	70	2	97.2%
	33	45	31	59.2%
	8	78	0	100.0%
Food from Unsafe Source	9	78	0	100.0%
	10	2	0	100.0%
	4	78	0	100.0%
Dana Dananal Hyaing	5	76	0	100.0%
Poor Personal Hygiene	6	75	1	98.7%
	7	66	12	84.6%

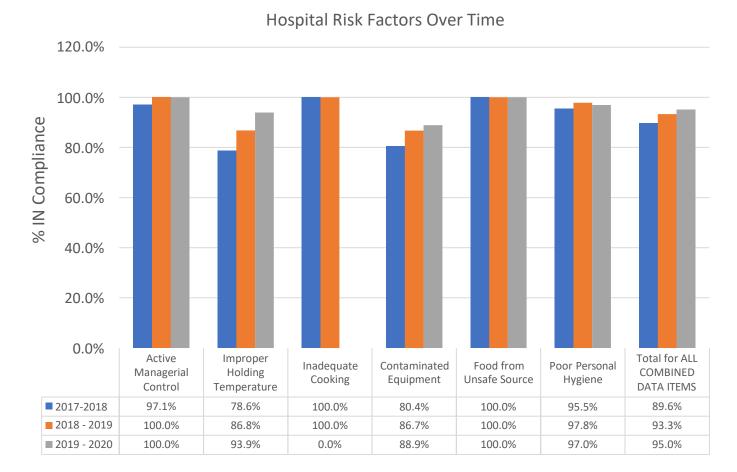
Figure 2 displays healthcare's percent IN-compliance for each CDC risk factor. The lowest IN-compliance percentages are Improper Holding Temperature (85.3%) and Contaminated Equipment (84.3%).

Figure 2 – Hospitals – Percent IN-Compliance for each Risk Factor

Risk Factor	TOTAL # IN Compliance Observations	TOTAL # OUT Compliance Observations	% IN Compliance
Active Managerial Control	77	1	98.7%
Improper Holding Temperature	237	41	85.3%
Inadequate Cooking	42	0	100.0%
Contaminated Equipment	183	34	84.3%
Food from Unsafe Source	158	0	100.0%
Poor Personal Hygiene	295	13	95.8%

Graph 1 shows hospitals are improving or holding above 90% IN Compliance for all CDC risk factors.

Graph 1 – Healthcare, Hospitals – Risk Factors Over Time



Long-term Care

This study included 14 long-term care establishments and 71 inspections were conducted over a three-year period. There were 5 establishments designated as high risk and 9 medium risk.

Results

Active Managerial Control – Compliance item number 2 was observed OUT of compliance twice and there were zero non-compliant/failing inspections.

Figure 3 below displays percent IN-compliance for each compliance item for each CDC risk factor. Compliance items 21, 22, and 33 are in "need of improvement" as they are below 90% IN compliance.

Figure 3 – Long-term Care – Percent IN-Compliance for each Compliance Data Item

Risk Factor	Compliance Item No.	# IN Compliance Observations	# OUT Compliance Observations	% IN Compliance
Active Managerial		60		07.10/
Control	2	68	2	97.1%
	18	3	0	100.0%
	19	21	1	95.5%
Improper Holding	20	48	1	98.0%
Temperature	21	58	7	89.2%
	22	44	13	77.2%
	23	6	0	100.0%
In a da quata Ca alvina	17	20	0	100.0%
Inadequate Cooking	24	4	0	100.0%
Contaminated	11	62	0	100.0%
	32	66	2	97.1%
equipment	33	50	20	71.4%
E - 1 f f -	8	70	0	100.0%
Food from unsafe source	9	70	0	100.0%
Source	10	1	0	100.0%
	4	70	0	100.0%
Door Dorgonal Hydiana	5	67	2	97.1%
Poor Personal Hygiene	6	66	0	100.0%
	7	63	7	90.0%
Total for ALL COMB ITEMS	SINED DATA	794	48	94.3%

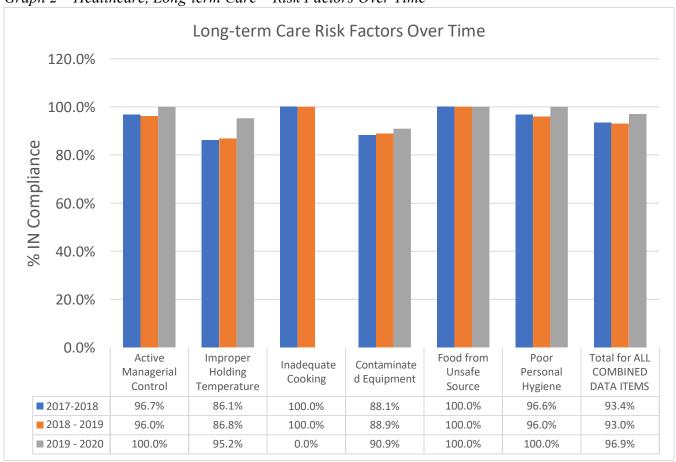
Figure 4 displays long-term care's percent IN-compliance for each CDC risk factor. The lowest IN-compliance percentages are Improper Holding Temperature (89.1%) and Contaminated Equipment (89.0%).

Figure 4 – Healthcare, Long-term Care – Percent IN-Compliance for each Risk Factor

Risk Factor	TOTAL # IN Compliance Observations	TOTAL # OUT Compliance Observations	% IN Compliance
Active Managerial Control	68	2	97.1%
Improper Holding Temperature	180	22	89.1%
Inadequate Cooking	24	0	100.0%
Contaminated Equipment	178	22	89.0%
Food from Unsafe Source	141	0	100.0%
Poor Personal Hygiene	266	9	96.7%

Graph 2 shows long-term care establishments have improved from the mid-eighties to above 90% IN-compliance or are holding above 90% IN Compliance.

Graph 2 – Healthcare, Long-term Care – Risk Factors Over Time



B. Schools

This study included 232 schools and a total of 1494 inspections were completed over the three-year period. There were 3 establishments designated as high risk and 229 medium risk.

Results

Active Managerial Control – There were 2 non-compliant/failing inspections and compliance item number 2 was marked OUT compliance for both.

Figure 5 below displays percent IN compliance for each compliance item for each CDC risk factor. Most compliance items are over 90% IN compliance indicating schools have control over most compliance items. Compliance item 33 is in "need of improvement" because it is below 90% IN compliance at 87.7%. Figure 6 displays CDC risk factors overall and shows all risk factors are being controlled.

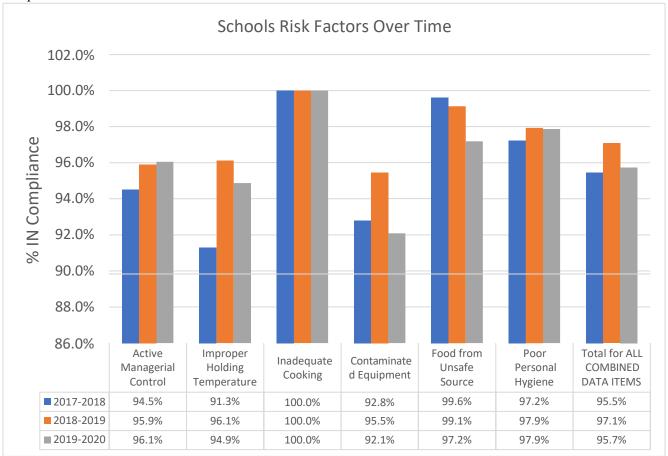
Figure 5 – Schools – Percent IN Compliance for each Compliance Data Item

Risk Factor	Compliance Item No.	# IN Compliance Observations	# OUT Compliance Observations	% IN Compliance
Active Managerial	100111 1 (00	0.0001 (0.0010)	0.0001 (0.0010110	P
Control	2	1210	59	95.4%
	18	154	0	100.0%
	19	155	5	96.9%
Improper Holding	20	793	39	95.3%
Temperature	21	1015	67	93.8%
	22	970	71	93.2%
	23	133	1	99.3%
In adaguata Caalsina	17	256	0	100.0%
Inadequate Cooking	24	57	0	100.0%
G 4 1 1	11	1002	6	99.4%
Contaminated equipment	32	998	47	95.5%
equipment	33	1087	152	87.7%
F 1.C C	8	1271	0	100.0%
Food from unsafe	9	1244	26	98.0%
source	10	31	0	100.0%
	4	1271	0	100.0%
Door Dorgonal Hyaire	5	1131	9	99.2%
Poor Personal Hygiene	6	1055	3	99.7%
	7	1171	100	92.1%
Total for ALL COMBI ITEMS	NED DATA	15004	585	96.2%

Figure 6 – Schools – Percent IN-Compliance for each Risk Factor

Risk Factor	TOTAL # IN Compliance Observations	TOTAL # OUT Compliance Observations	% IN Compliance
Active Managerial Control	1210	59	95.4%
Improper Holding Temperature	3220	183	94.6%
Inadequate Cooking	313	0	100.0%
Contaminated Equipment	3087	205	93.8%
Food from Unsafe Source	2546	26	99.0%
Poor Personal Hygiene	4628	112	97.6%

Graph 3 shows schools have consistently been above 90% IN-compliance for each risk factor over the last three years.



Graph 3 – Schools – Risk Factors Over Time

C. Restaurants

Fast Food

This study included 1074 fast food restaurants with a total of 5205 inspections completed over the three-year period. There were 210 fast food establishments designated as high risk and 864 medium risk.

Results

Active Managerial Control – There were 68 non-compliant/failing inspections and compliance item number 2 was marked OUT compliance for 65 inspections.

Figure 7 below displays percent IN compliance for each compliance item for each CDC risk factor. Improper Holding Temperature, Contaminated Equipment and Poor Personal Hygiene are below 90% IN compliance with Active Managerial Control also showing below 90% IN Compliance. Data item 33 was the lowest IN compliance percentage at 62.2%. Figure 8 displays CDC risk factor totals. Improper Holding Temperature and Contaminated Equipment are in need of improvement. Poor Personal Hygiene is at 92.8% IN compliance overall.

Figure 7 – Fast Food – Percent IN Compliance for each Compliance Data Item

Risk Factor	Compliance Item No.	# IN Compliance Observations	# OUT Compliance Observations	% IN Compliance
Active Managerial Control	2	4581	611	88.2%
Control	18	502	12	97.7%
	19	868	103	89.4%
Improper Holding	20	3281	271	92.4%
Temperature	21	4222	716	85.5%
	22	3995	829	82.8%
	23	1229	198	86.1%
I 1 C 1:	17	1381	4	99.7%
Inadequate Cooking	24	221	1	99.5%
0 4 1	11	4318	115	97.4%
Contaminated	32	3948	338	92.1%
equipment	33	3226	1961	62.2%
F - 1 f f -	8	5195	4	99.9%
Food from unsafe source	9	5128	71	98.6%
Source	10	166	3	98.2%
	4	5194	2	100.0%
Door Dorgonal Hygiana	5	4701	263	94.7%
Poor Personal Hygiene	6	4715	98	98.0%
	7	4112	1086	79.1%
Total for ALL COMBI ITEMS	NED DATA	56871	5600	91.0%

Figure~8-Fast~Food-Percent~IN-Compliance~for~each~Risk~Factor

	TOTAL # IN Compliance	TOTAL # OUT Compliance	% IN
Risk Factor	Observations	Observations	Compliance
Active Managerial Control	4581	611	88.2%
Improper Holding Temperature	14097	2129	86.9%
Inadequate Cooking	1602	5	99.7%
Contaminated Equipment	11492	2414	82.6%
Food from Unsafe Source	10489	78	99.3%
Poor Personal Hygiene	18722	1449	92.8%

Graph 4 shows fast food restaurants have held steady or made some improvement.



Graph 4 – Fast Food – Risk Factors Over Time

Full Service

This study included 783 full service restaurants with a total of 5014 inspections complete over the three-year period. There were 636 establishments designated as high risk and 147 medium risk.

Results

Active Managerial Control – There were 127 non-compliant/failing inspections and compliance item number 2 was marked OUT compliance for 118 inspections.

Figure 9 below displays percent IN compliance for each compliance item for each CDC risk factor. Data items 7, 19, 21, 22, 23, and 32 are in need of improvement and data item 33 is of priority since it is below 60% IN compliance at 49.2%. Figure 10 displays CDC risk factors in total, Improper Holding Temperature, Contaminated Equipment, and Poor Personal Hygiene are all in the "needs improvement" range.

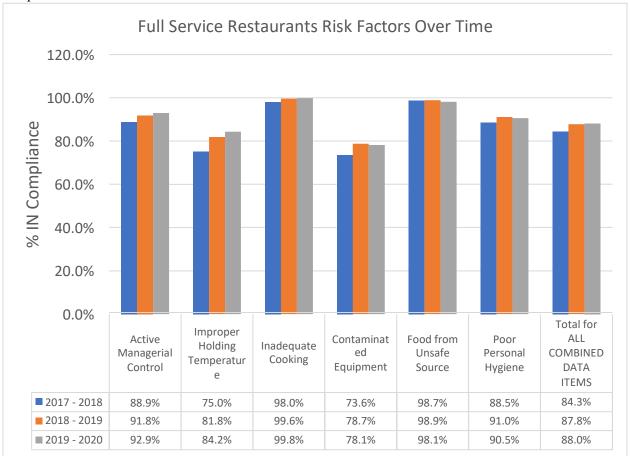
Figure 9 –Full Service – Percent IN Compliance for each Compliance Data Item

Risk Factor	Compliance Item No.	# IN Compliance Observations	# OUT Compliance Observations	% IN Compliance
Active Managerial	2	4551	457	00.00/
Control	2	4551	457	90.9%
	18	780	25	96.9%
	19	1522	278	84.6%
Improper Holding	20	3605	353	91.1%
Temperature	21	3732	1074	77.7%
	22	3382	1386	70.9%
•	23	768	161	82.7%
I 1 (C 1)	17	2107	10	99.5%
Inadequate Cooking	24	367	14	96.3%
0 1 1	11	4100	142	96.7%
Contaminated	32	4068	573	87.7%
equipment	33	2456	2538	49.2%
F 1.C C	8	5006	5	99.9%
Food from unsafe source	9	4897	111	97.8%
Source	10	346	26	93.0%
	4	5007	0	100.0%
Door Dorgonal Hydriana	5	4530	302	93.8%
Poor Personal Hygiene	6	4459	227	95.2%
	7	3570	71.3%	
Total for ALL COMBI ITEMS	NED DATA	56871	55683	89.9%

Figure 10 – Full Service– Percent IN-Compliance for each Risk Factor

Risk Factor	TOTAL # IN Compliance Observations	TOTAL # OUT Compliance Observations	% IN Compliance
Active Managerial Control	4551	457	90.9%
Improper Holding Temperature	13789	3277	80.8%
Inadequate Cooking	2474	24	99.0%
Contaminated Equipment	10624	3253	76.6%
Food from Unsafe Source	10249	142	98.6%
Poor Personal Hygiene	17566	1968	89.9%

Graph 5 shows full service restaurants have made improvement for all combined data items and 4 of the five risk factors.



Graph 5 – Full Service – Risk Factors Over Time

C. Retail Food

Grocery

This study included 110 grocery establishments with a total of 776 inspections completed over the three-year period. There were 66 grocery establishments designated as high risk and 44 designated as medium risk.

Results

Active Managerial Control – There were 9 non-compliant/failing inspections and compliance item number 2 was marked OUT compliance for 7 inspections.

Figure 11 below displays percent IN compliance for each compliance item for each CDC risk factor. Data items 7, 9, 19-23 are in need of improvement and data item 33 is a priority at 55.1%. Figure 12 shows the top two CDC risk factors are Improper Holding Temperature and Contaminated Equipment.

Figure~11-Grocery-Percent~IN~Compliance~for~each~Compliance~Data~Item

Risk Factor	Compliance Item No.	# IN Compliance Observations	# OUT Compliance Observations	% IN Compliance
Active Managerial				•
Control	2	704	72	90.7%
	18	55	2	96.5%
	19	112	18	86.2%
Improper Holding	20	466	64	87.9%
Temperature	21	622	132	82.5%
	22	563	160	77.9%
•	23	180	41	81.4%
In a farmanta Carataina	17		1	99.4%
Inadequate Cooking	24	30	0	100.0%
G 1	11	598	24	96.1%
Contaminated	32	593	56	91.4%
equipment	33	425	347	55.1%
T. 10	8	773	3	99.6%
Food from unsafe	9	661	115	85.2%
source	10	114	9	92.7%
	4	775	0	100.0%
D D 111 '	5	734	17	97.7%
Poor Personal Hygiene	6	716	5	99.3%
	7	557	219	71.8%
Total for ALL COMBI ITEMS	NED DATA	8293	1066	88.6%

Figure 12 – Grocery – Percent IN-Compliance for each Risk Factor

·	TOTAL # IN	TOTAL # OUT	
Risk Factor	Compliance Observations	Compliance Observations	% IN Compliance
Active Managerial Control	704	72	90.7%
Improper Holding Temperature	1998	417	82.7%
Inadequate Cooking	202	1	99.5%
Contaminated Equipment	1616	427	79.1%
Food from Unsafe Source	1548	127	92.4%
Poor Personal Hygiene	2782	241	92.0%

Graph 6 shows grocery establishments have made good improvement and maintained risk factors already well controlled.



Graph 6 – Grocery – Risk Factors Over Time

Convenience

This study included 783 convenience retail food stores with a total of 5014 inspections complete over the three-year period. There were 636 convenience establishments designated as high risk and 147 designated as medium risk.

Results

Active Managerial Control – There were 68 non-compliant/failing inspections and compliance item number 2 was marked OUT compliance for 65 inspections.

Figure 13 below displays percent IN compliance for each compliance item for each CDC risk factor. Data items 7, 19, 21-23, and 32 are in need of improvement and data item 33 at 49.2% is a priority. Figure 14 displays the top two CDC risk factors are Improper Holding Temperature and Contaminated Equipment.

Figure 13 –Convenience – Percent IN Compliance for each Compliance Data Item

Risk Factor	Compliance Item No.	# IN Compliance Observations	# OUT Compliance Observations	% IN Compliance
Active Managerial	2	4551	457	00.00/
Control	2	4551	457	90.9%
	18	780	25	96.9%
	19	1522	278	84.6%
Improper Holding	20	3605	353	91.1%
Temperature	21	3732	1074	77.7%
	22	3382	1386	70.9%
,	23	768	161	82.7%
I 1 (C 1)	17	2107	10	99.5%
Inadequate Cooking	24	367	14	96.3%
0 1 1	11	4100	142	96.7%
Contaminated	32	4068	573	87.7%
equipment	33	2456	2538	49.2%
F 1 C	8	5006	5	99.9%
Food from unsafe source	9	4897	111	97.8%
Source	10	346	26	93.0%
	4	5007	0	100.0%
Door Dorgonal Hydriana	5	4530	302	93.8%
Poor Personal Hygiene	6	4459	227	95.2%
	7	3570	71.3%	
Total for ALL COMBI ITEMS	NED DATA	56871	55683	89.9%

Figure 14 – Convenience – Percent IN-Compliance for each Risk Factor

	TOTAL # IN Compliance	TOTAL # OUT Compliance	% IN
Risk Factor	Observations	Observations	Compliance
Active Managerial Control	4551	457	90.9%
Improper Holding Temperature	13789	3277	80.8%
Inadequate Cooking	2474	24	99.0%
Contaminated Equipment	10624	3253	76.6%
Food from Unsafe Source	10249	142	98.6%
Poor Personal Hygiene	17566	1968	89.9%

Graph 7 shows convenience retail food stores have overall improved overtime.



Graph 7 – Convenience – Risk Factors Over Time

Discussion and Recommendations

The purpose of this study is to determine how well food establishment types in Tulsa County are managing CDC risk factors for food borne illness. Another purpose of this study is to gain insight on which CDC risk factors are in "need of improvement" or "priority". As a result, FPS will tailor educational materials to address the top two CDC risk factors with the greatest need. FPS also plans to provide additional training to sanitarians to increase the use of resources available and educate further.

In Tulsa County the top two CDC Risk Factors in need of improvement for all establishment types are Improper Holding Temperature and Contaminated Equipment. The following recommendations will focus on the top two CDC risk factors and subsequent studies will address other risk factors as needed. Improper Holding Temperature showed an IN compliance percentage between 71% - 89% for all establishment types. This percentage range falls in the "needs improvement" priority category. Here are some recommendations Food Protection Services will present to food management and staff to improve Improper Holding Temperature issues:

• **Develop and distribute an Improper Holding Temperature infographic**. The infographic will present a high statistical overview of Improper Holding Temperature as seen in this study. It will also provide information on what temperatures are *safe* and which fall into the *danger zone* or can lead to increased bacterial growth and therefore food borne illness. Also, the infographic will encourage the regular use of thermometers to ensure

proper temperature. The use of an infographic not only educates but also can serve as a reference when posted in view of employees at appropriate stations. All establishments with one or more data items 18-23 OUT of compliance (Improper Holding Temperature) will receive an infographic. This document will also be available on the Tulsa City-County Health Department's website and featured in the "Food Focus" newsletter. It is the responsibility and ultimately up to management staff on how the materials are used. To get the full benefit from the material repetition and reinforcement are a good way to increase positive habits and ensure proper temperatures are maintained.

- Intervention monitoring forms are another tool in managing CDC risk factors for food borne illness. These forms are available in multiple languages to address issues such as: cold holding, cooling, reheating, hot holding, etc. Typically, these forms are given to food establishments to better monitor issues seen during an inspection or upon request. Intervention monitoring forms are accessible to all and can be provided as a printout or digitally to establishments. The forms are accessible on the Tulsa Health Department's website: www.tulsa-health.org/food-safety/food-service-industry/forms-procedures. Internal training will be given to sanitarians to increase the use of forms available and to use these forms to encourage an open dialogue with food establishments.
- developed by THD's Food Protection Services (Appendix B). The self inspection form includes the latest version of the Food Inspection Data Collection form, temperature observations, observations and corrective actions and, lastly, the violation data items with the associated Oklahoma food code subchapters and paragraphs. The Establishment Active Managerial Control Self Inspection form gives operators and management a comparable form to perform a mock inspection at their establishments. The goal is to increase awareness of the violation data items sanitarians look for and how they relate to food borne illness. The Establishment Active Managerial Control Self Inspection form will be given out to all high and medium risk establishments during a routine visit in the second quarter of the fiscal year. The 2nd visit is typically an Active Managerial Control consultative visit with emphasis on risk factors identified recently.

Contaminated Equipment showed an IN compliance percentage between 74% - 94% for all establishment types. It is worth noting there is one data item that consistently had the lowest IN compliance percentages of all data items, data item 33. Data item 33 is concerned with food contact surfaces of equipment & utensils clean. This data item's IN compliance percentages ranged from approximately 49%-62%. Schools (87.7%) and long term care establishments (71.4%) had higher IN compliance percentages when compared to all other establishment types. Recommendations to address Contaminated Equipment include:

• Articles in Food Focus. Food Focus is a bi-yearly newsletter produced by THD-FPS and sent to all food establishments. The newsletter is an opportunity to communicate with the public and all food establishments relevant food industry issues. Showing the results of the risk factor study and providing some educational spotlights in the newsletter can raise awareness about the CDC risk factor Contaminated Equipment issue.

- On-site Corrective Actions will be emphasized when data item 33 is marked OUT compliance. Developing and implementing policies that require on-site corrective actions appropriate to the type of violation will increase consistency among sanitarians and in turn food establishments.
- **Internal Training** through "Where to Mark It" training topic discussions during monthly team meetings. Data item 33 will be reviewed with violation focus areas on equipment and supplies cleaned between uses.
- **Risk Factor Profile** is a recently developed tool highlighting CDC risk factors using past inspection data for either several or individual establishments. The risk factor profile gives an overview of all five CDC risk factors for the last three to four years, violation comments examples, violation frequency, and several visual statistics. The goal of the profile is to be able to tangibly show where the establishment(s) are concerning the real risk they are exposing their customers to CDC risk factors for food borne illness. See Appendix C.

APPENDIX A

Oklahoma State Department of Health

Consumer Protection Division Food Inspection Report

1000 NE 10th Street, Oklahoma City OK 73117-1299 Telephone (405) 271-5243 Fax (405) 271-5286

Website: www.ok.gov/health

State Code OAC 310:257

Page 1 of		_
Class	Priority	/
Activity 8 – Reserved	4	_
Thousand a Modernoon		
		210
orne illness, illness		
R=repeat violation	on .	
de Interventions	CDI	R
afety (TCS)		
ant food cooking		
lding		
thods	-	
roper temp	-	
proper temp		
ocedures/records	1	
/ partial cook		
maintain food temps		
accurate		
ble Populations	.,	
Allergen label		
d food not offered		
quired	1	
rly used	T	
fied, stored, used		
Surfaces		
Design, supplies,		
ges ; Alarms		
ppm/temp		
ent & utensils clean	1	
cient capacity	Т	
n, approved, installed		
gaps, disposal		
s.		
e installed, inspected		
ructed, cleaned		
, 		
tained;		
Droner signage		_
Proper signage ree of litter;		
oo or intol,		
design		

In	spection Date	Inspection Time	Mgr. Cert	County #	ESI	ablishmen	L#F	LIC	ense Expiration	Туре	Class	Priorit
urpos	e of Inspection: 1	- Routine 2 - Comp	liance 3 – Issue	License Applicat	ion 4	Complaint	5 – Otl	ner	6 – Out of Busine	ess 7 – Folk	ow-Up Activity 8 – Reserv	ed
umbe	r of Repeat Risk	Factor/Intervention	Violations			Follo	w-up:		On or	Before Date	2 ;	
stabli	shment					0/	vner					
nysic	al Address				City				Zip Code	Phone #		
-					-					Cell Phone	#	
			PRIORI	TY & PRIOR	ITY FC	UNDA"	TION V	IOL	ATIONS			1
N =in c	Pr	ritems are proven mea iority Foundation items NOTE: Items 1- renot in compliance		ific actions, equip diate Action or by	ment or p	procedures ed on Pg 2	to contro	ol risk excee	factors that cont	ribute to food date of inspec	borne illness. tion.	tion
I N	O N N T O A	CDC Risk Facto	rs & Food Code Inte	erventions	CDI R		0 N T 0	N A	CDC Ris	k Factors & Fo	od Code Interventions	CDI
-11-11	LITOTAL	Supervision/L	icenses				1110		l Time/Temperatu	re Control	for Safety (TCS)	
	Valid	license to operate; r	THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUMN TW			17 •	TT	T	The second secon	777	es; Plant food cooking	T
		resent, demonstratio		performs duties		18 •			Reheating prod			
1		ial processes (Varian				19 •			Cooling time &			
		Employee H			* * 1	20 •		T			d at proper temp	
T	III wo	rkers-PIC & EMP re		port symptoms		21 •					ed at proper temp	
•	W 50 V	gnosis; Restrict/Excl	- Ar	20 100		22			Date marking a	The fact of the state	- Contract and the Cont	
	Control	of Hands as a Vehi	cle of Contamir	ation		23 •		1		The second secon	ol, procedures/records	
•	Hand	s clean, washed, ma	intained; Hand a	intiseptics		24 •			Non-continuou	s cooking pr	ocess / partial cook	
•	No B	are Hand Contact wi	th Ready-to-Eat	foods		25			Adequate facili	ties/equipme	ent to maintain food temps	S
1		ternate methods; Glo				26			Probe thermon	The second second	10.173	
		uate hand wash facil	ities: supplied, a	ccessible;			C	onsi	T		ceptible Populations	
	Toile	ts properly supplied				27					menu, Allergen label	
0.0		Approved S			7-7-1	28		1			hibited food not offered	
•		, water, ice: obtained	11,511,511,111	Search of the action of the control of		1	4-4-	-	Pasteurized eg			_1_
•		in good condition, sa			-	29	1 1	-	Te 1 1200	Chemicals		
•		ired records (shellsto		destruction)	1	30			Food additives			
	Food	separated/protected		procedures:	T	50		-	**	- Albanasa Escarras Plant	identified, stored, used tact Surfaces	-
•		serve operations; Sin						T	Torrest and a second		nent: Design, supplies,	7
-		osition of returns, pre	-	when required		31					o gauges; Alarms	
		nditioned, unsafe for	•			32			Warewashing;		ppm/temp	
		bited animals; Prohit	0 89 89	ion locations		33			The same of the sa		quipment & utensils clean	
		used for intended p								Plumbing	- Indiana in the second	
	Food	equipment: imprope	r use, operation			34			Water: adequa	te pressure,	sufficient capacity	
5		erials, design)				35			Plumbing sewa	age system:	design, approved, installe	d
	Insec	ts, rodents, & other p	ests controlled			100			Cross-connect	ion prohibite	d, air gaps, disposal	
				COI	RE VIO	LATIONS	3					
		Core items relate to	o general sanitatio	on & maintenance	e, equipm	ent design	& mainte	enanc	ce, and physical fa	acilities & stru	ictures.	
		Food Temperatur	re Controls						Phy	sical Facili	ties	
36	Approved that	w methods; Active c	ool containers st	tored properly		48	Plui	mbin	ng sys: maintaine	ed, backflow	device installed, inspecte	d
37	Thermometer	rs provided, accurate				49				ole, properly	constructed, cleaned	
Y		Food Identifi						clos				
38		y labeled, original co		presented		50			ocker areas: use			
		revention of Food (-101/202				_	reas separated;			
39	(in page 25 page)	n prevented during f		storage		51					used; Proper signage	
		ashing fruits/vegetab				52	1			remises): cl	ean, free of litter;	
0		ean, jewelry, hair res			-				al of pests	huninel for 'l'	itiaa), daaise	
1 2					\vdash	53			walls, ceilings (p ned, good repair			
-	Invibing cloths	Proper Use of		Onibited		54					nings protected ning tools: use, storage	-
	In-usa utancii	ls proper storage, cle		r I Itensile		55			r areas: construc			
3		s: proper storage, cle s: properly stored, dr				56				•	fac constr, maintained	
14		s. property stored, dr ingle-service articles				57					ghting: adequate, shielded	1
		Jtensils, Equipment				58	Oth		moteriou, me		gg. sacquato, omoraet	
45		ood contact surfaces		gn								
		nanical warewashing		•								
46		ges, data plates; Us										
17		tact surfaces clean;										

OAC 310:257 - Subchapters & Paragraphs Listed Below Note: all subchapter and paragraph numbers or letters are listed without parenthesis to save space

	0/10 010.201	apters & Paragraphs Listed Below Note: all subchapter				are noted without parentitions to save space				
1	15-12; 15-21; 17-2c3 & d2; 17-3b&d, 17-4c&e 17-5c	Valid License to Operate;non-transferable; Mobile pushcarts: Licensed Commissary; Mobile F. S. E: location; visible license; Mobile F.S.ECommissary Licenses	non	3	5-53,1; 5-64a, b4, c, & d2, C-E; 5-53,2; 5-63; 5-64b1, 2, 3, 5, 6; 5-64d1 & 2A, F, G, & H; 5-64d, 3 & 4;	Treat juice (HACCP); Reduced Oxygen Packaging Criteria; Treating juice (warning label); Molluscan Shellfish Tanks; Conformance w/ approved procedures; ROP without a variance; Molluscan Shellfish Tanks				
2	3-1; 3-2; 3-3	Assignment (PIC present); Demonstration (PIC Knowledge demo); Person in charge (PIC duties)			5-64e2, 3, & 4; 7-35b; 15-4; 15-5,2; 15-9	Req's; Variance; Contents, Documentation, justification				
		Employee Health (Prior	ty/F	riorit						
4	3-4; 3-5; 3-6	III Workers-PIC & EMP Responsibility to report Exclusions & Restrictions, Remove adjust, retain		4	3-4c & f	PIC & EMP reporting				
		Control of Hands as a Vehicle of Conta	min	ation						
5	3-9; 3-10; 3-12; 3-13; 3-14; 3-15 5-21b; 5-34a ; 5-21c	Clean hands and arms; how and when to wash; Prevent contamination from hands (wash); Where to Wash; Hand Sanitizers; nails trimmed no polish, gloves good repair No BHC w/ RTE; alt methods; Glove Limitation		7	9-14a; 9-18a; 9-23; 9-26; 11-24; 11-25; 11-30	Handwashing Facility, installation; water at 100°F; Numbers & Capacities, Location & Placement, Use; maintained, no other purpose; Cleanser availability; Hand drying provision; toilet paper available at toilets				
	3-210, 3-342 , 3-210	Minimize bare hand contact w/ Non-RTE food								
100		Approved Source (Prior	ity/	Priori	ty Foundation)					
8	5-2a,b; 5-3; 5-4; 5-5; 5-6; 5-7a; 5-8a; 5-11; 5-12; 5-14; 5-18a2; 5-28; 9-1; 9-3; 9-4;	Approved source, home prepared prohibited Food-Hermetically sealed; Milk & Milk Products, Fish, Molluscan Shellfish; Wild Mushrooms,: Game		12	5-44a ; 5-70 ; 11-38	Disposition of Returns; Previously Served; Discarding contaminated food				
	9-5 ; 5-2c-e; 5-18a1; 9-6	Animals, Eggs; Eggs and Milk Products, Pasteurized, Ice; Juice Treated; Ice Used as Exterior Coolant, Prohibited as Ingredient; Water; Approved system-		13	11-21 ; 3-21a; 11-54a	Private homes and living or sleeping quarters use prohibition; Animals; employee may not touch; no live animals; Prohibiting animals (limitations)				
		Bottled drinking water; Quality, standards; Non-drinking water; Food Labeling; Juice treated –HACCP system; Sampling-non-community H ₂ 0 sampled		14	11-44	Sinks not contaminated with cleaning equip				
9	5-1 ; 5-13	Safe, Unadulterated and Honestly Presented Package Integrity; Separate Distressed Products		15	7-1; 7-3; 7-4a; 7-5; 7-7; 7-12 1A-2A; 7-14; 7-28,5; 7-35a; 7-36; 7-15;	Food Equipment Char., safe; Lead:China/crystal; Copper; Galvanized; Lead-Use: Pewter alloys: Singleuse service articles-safe; No glass				
10	5-49a; 5-15a; 5-16a; 5-20; 5-50a & c	Parasite destruction-fish freezing requirements Shucked Shellfish, Packaging and Identification; Shellstock- proper labels; 90 day label; frozen records/letter from supplier							7-16 a-1 9-31,1; 9-37,1	thermometer; Dispensing Equip. for TSC Foods; Molluscan shellfish display tanks-indentification; Vending machine-automatic shutoff; Materials, Approved-(mobile water tank materials safe)
11	5-22 ; 5-23 a, 1&2 ; 5-30 ; 5-41 ; 5-43 a; 7-79 ; 5-43b&c 7-55	Food Contact w/ Equip. & Utensil; Food display: protect self-serve from contamination; Single-service/Single- use; Articles; Required use			,	Food contact surfaces, CIP equipment				
		Self Service operations; customer self service		16	11-50 1-4	Controling Pests				
		Time/Temperature Control for Safety	T	CS) (Priority/Priority Foundation)					
17	5-46a 1-3 & b2; 5-48	Raw Animal Food cook temp; Plant food cooking		23	5-62b1,3,4 & c1,4,5;	Time as a Public Health Control, mark, temp,				
18	5-52 a-d	Re-heating for hot holding			5-62a, b2, c2,c3	discard; RTE, Time Control/Safety Proc: Labeling, date marking				
19	5-57 ; 5-58a	Cooling time-temperature perameters; Cooling Methods		24	5-48.1, 1-5 ; 5-48.1	Non-continuous cook of raw animal foods Written Procedures for above				
20	5-9; 5-59 a	Hot Hold Temps				Willen Procedures for above				
21	5-9 a,b,c; 5-59 a,b; 5-9 e & f	Cold Hold Temps; Receiving TCS 41° or below, Frozen Food: Shipped & Received, no temp abuse		25	7-50; 17-2d4	Adequate equipment to maintain food temps				
22	5-61 ; 5-60	RTE discarded after expiration; no date; RTEDate Marking-41° for 7 days; options		26	7-23; 7-24; 7-37e; 7-56; 7-78b	Thermometers: Food; Ambient Air & Water Accurate Thermometers: thin tip: Good Repair, Calibrated				
1		Consumer Advisory: Highly Susceptible	Pop	-						
27	5-46d2; 5-67b5; 5-69	Children's menu: raw animal food Allergens; Consumer adv. Disclosurer/Reminder		28	5-25; 5-71	Pasteurized Foods: Prohibited Foods; Prohibited Reservice				
29	5-10; 5-26	Chemicals (Priority/I	rio			Oneita generation of shemicals, toyics 0 labels				
30	13-3; 13-5 182; 13-6; 13-7; 13-8a; 13-9; 13-10; 13-11; 13-12; 13-13; 13-14a; 13-15b; 13-16; 13-17,2; 13-19	Additives; Use approved; Protection from un-approved Toxic:Stored separate; Proper use; Toxic:Restricted Container; Sanitizers, Wash Agents, Drying Agents, Lubricants, Pesticides, Rodent Bait Stations; Tracking Powders, Employee Meds-Labeled, Stored; Refrig. Meds; First Aid; Employee items seperation		30	13-1; 13-2; 13-4a; 13-5,3; 13-15a; 13-17	Onsite generation of chemicals, toxics & labels; Manufacturer Label; Common Name; Restrictions & Use; Application by Certified Operator; Restriction and storage of employee medicines; First aid supply storage				
	BOWL MENT	Warewashing (WW), Food Contact St	ırfa	ces (Priority/Priority Foundation)	A Late of the same of the same of the same				
31	7-40; 7-41; 7-42; 7-51, a&b 7-58; 7-68; 7-77	WW, machine temps measured; Manual Equip; Auto Dispense Detergent; Alarms; 3-Compartment sink- Adequate-Test kits; Cleaning Agent Required; Chem. Sanitizer test		32	7-72; 7-75; 7-95 ; 7-70; 7-71; 7-73a	Sanitization: Hot Water, Chemical, Pressure; Wash Solution:Temp Manual and Mech.; Hot Water Sanitization Temp: mechanical				
			Name of Street	33	7-83a,c; 7-94; 7-82a	Food contact surfaces-Clean & Sanitize Food contact surfaces-Clean, Sight, Touch				
34	17-1 ; 9-8; 9-9; 9-10; 9-11	Plumbing (Priority/F Sink construction; contamination of utensils by hand	rior	B5	9-2; 9-12; 9-13a; 9-15;	Backflow Prevention				
54	11-1, 3-0, 3-8, 3-10; 3-11	washing; Water delivery; Pressure; Capacity of hot & cold; Alternate water supply; mobile water requirements		55	9-16; 9-21; 9-27a; 9-29; 9-30,1; 9-38; 9-41; 9-44a; 9-47a; 9-49; 9-52; 9-27b; 9-28;	Sewage conveying: Approv. Disposal System Approved delivery sys: indentified, serviced Commissary & Servicing Area Requirement; Mobile wastes				
					9-50					

APPENDIX B

Reset Form

Establishment Active Managerial Control Self Inspection Form

Page 1 of

											Page I of	
Insp	ect	ior	n D	ate	:			Ins	pec	ction	Time:	
Esta	blis	shr	ne	nt N	Name:							
	_										I	
Phy	sica	al A	Add	dres	SS	City		Zip			Phone #	
											Cell Phone #	
					PRIORITY & PRIORIT	YFO	DUNE	DAT	ΊO	N V	/IOLATIONS	
		Pı	ior	ity i	items are proven measures that are directly linked to the eli	minat	ion, p	reve	nti	ion c	or reduction of hazards associated with foodborne illness.	
				•	ority Foundation items incorporate specific actions, equipme							
					NOTE: Items 1-35 Require Immediate Action or by date							
					IN=in compliance OUT=not in compliance NO=not observed			_			· · · · · · · · · · · · · · · · · · ·	
	П	O	N								9 ,	
	N	T	Ö	N A	CDC Risk Factors & Food Code Interventions	CDI		N	Ť	N N O A	CDC Risk Factors & Food Code Interventions	CDI
					Supervision/Licenses						Time/Temperature Control for Safety (TCS)	
1					Valid license to operate; non-transferable		17●				Cooking time & temperatures; Plant food cooking	
2 ●					PIC present, demonstration of knowledge, performs duties		18∙				Reheating procedures for hot holding	
3					Special processes (Variance, ROP, shellfish tanks, HACCP)		19∙				Cooling time & temp; cooling methods	
					Employee Health		20∙				Hot holding temps; received at proper temp	
					III workers-PIC & EMP responsibilities: Report symptoms		21●		Ī	ı	Cold holding temps; received at proper temp	
4∙	İİ			İ	& diagnosis; Restrict/Exclude (removal, retain, or adjust)		22				Date marking and disposition	
				-	Control of Hands as a Vehicle of Contamination		23●		1	1	Time as public health control, procedures/records	
5∙	П		Г		Hands clean, washed maintained; Hand antiseptics		24•	\sqcap	T	\top	Non-continuous cooking process/partial cook	
	H		H	П	No Bare Hand Contact with Ready-to-Eat foods		25		†	+	Adequate facilities/equipment to maintain food temps	
6●				l	Or alternate methods; Glove limitations		26	H	+	+	Probe thermometers provided & accurate	
	H			H	Adequate hand wash facilities: supplied, accessible;		20		_		Consumer Advisory, Highly Susceptible Populations	
7				ı	Toilets properly supplied		27	П	7		Consumer advisory, Child menu, Allergen label	
	ш		_	<u> </u>	Approved Source		21	-	+		Pasteurized food used: Prohibited food not offered	
0 -			П	1			28		1		·	ı
8•	Н		H	-	Food, water, ice: obtained from approved source		\blacksquare	Ш	_		Pasteurized eggs used where required	
9•	Н				Food in good condition, safe, unadulterated, segregated				_	_	Chemicals	
10∙	Ш		L	L	Required records (shellstock tags, parasite destruction)		29		4		Food additives; approved, properly used	
			_	_	Protection from Contamination		30	Ш	_		Toxic substances properly identified, sored, used	
11•					Food separated/protected; Proper tasting procedures;				_		Warewashing, Food Contact Surfaces	
			L	L	Self-serve operations; Single service use when required		31				Warewash, sanitize equipment: Design, supplies,	ļ
12				l	Disposition of returns, previously served,		ш				operated; Test strips; Temp gauges; Alarms	
	Ш				Reconditioned, unsafe food		32				Warewashing; Sanitize at ppm/temp	
13					Prohibited animals; Prohibited food operation locations		33				Food contact surfaces of equipment & utensils clean	
14					Sinks used for intended purposes						Plumbing	
15					Food equipment: improper use, operation		34				Water: adequate pressure, sufficient capacity	
'			l		(Materials design)		35				Plumbing sewage system: design, approved, installed	
16					Insects, rodents, & other pests controlled		33		-1		Cross-connection prohibited, air gaps, disposal	İ
					COF	RE VIC	DLATI	ONS	3			
					Core items relate to general sanitation & maintenance, e	quipn	nent d	esig	n 8	k ma	intenance, and physical facilities & structures	
					Food Temperature Controls						Physical Facilities	
30	3	П	Aı	opro	oved thaw methods; Active cool containers stored properly		48	3	Т	Plur	nbing sys: maintained, backflow device installed, inspected	
3	_		₩.	•	nometers provided, accurate, conspicuous	\neg		1	_		et facilities: accessible, properly constructed, cleaned	-
			<u> </u>		Food Identification		49	9	- 1		closures	ľ
38	3		F	hoc	properly labeled, original container, honestly presented			\dashv	-		ak/locker areas: used, provided, maintained;	\dashv
			ļ.,	<i>,</i>	Prevention of Food Contamination		50)	- 1		ng areas separated; Laundry facilities	i
	_		Ic.	onto			51	1	-		d wash sinks: designed, clean, used; Proper signage	
39	9		ı		amination prevented during food preparation, storage			+	-			
4(\vdash	_	-	_	play; Washing fruits/vegetables	-	52	2	- 1		ors, walls, ceilings (premises): clean, free of litter	
_	_		-		onnel: clean, jewelry, hair restraints, FH permits		<u> </u>	4	-		noval of pests	
4	_	_	-		g, drink, tobacco use; No discharge from eyes, nose, mouth		53	3	- 1		ors, walls, ceilings (physical facilities): design	
42	_		ĮΨ	ıpin	ng cloths: properly used & stored; Sponges prohibited		<u></u>		_		ntained, good repair; Outer openings protected	
					Proper Use of Utensils		54	_	-		vice Sinks; Maintenance & cleaning tools: use, storage	
43	3				e utensils proper storage, cleaning frequency; Utensils		55	_	_		door areas: constructed, maintained clean	
			-	-	& linens: properly stored, dried, handled; Linens clean		56	_	-		bage/refuse: properly disposed, fac constr, maintained	
44	1		Si	ngle	e-use, single-service articles: properly stored, used		57	_	_	Ven	tilation: installed, maintained; Lighting: adequate, shielded	
					Utensils, Equipment & Vending		58	3		Othe	er	
4	5		F	ood	& non-food contact surfaces cleanable, design		1					
40	,		М	anu	al/Mechanical warewashing facilities: maintained, operated;							
`		L	Pı	ess	sure gauges, data plates; Use limitation, pre-cleaning							
4	7		N	on-f	food contact surfaces clean; Cleaning frequency		1					

Establishment Active Managerial Control Self Inspection Form

Page 2 of _____

Establishment # Establishment #					Date	
			TEMPERATURE OBSER	VATIONS		
lte	m/Location	Temp	Item/Location	Temp	Item/Location	Temp
		ОВ	SERVATIONS AND CORREC	CTIVE ACTIO	NS .	
Item No.	List Establish	ment Observati	ons and Describe Corrective Action Ta	aken	if not corrected, correct by	/ :
Comments					1	
Person In Cha	rge Name (Printed)			Inspection End	I Time	

		Supervision & Licenses (Priority/Priority Foundation)
	15-12; 15-21; 17-2c3 &d2 17-3b&d 17-	Valid License to Operate; non-transferable; Mobile pushcarts: Licensed Commissary; Mobile F. S. E: location;
	4c&e 17-5c	visible license; Mobile F.S.EC1mmissary Licenses
	3-1 ;-3-2; 3-3	Assignment (PIC present); Demonstration (PIC Knowledge demo); Person in charge (PIC duties)
3	5-53, 1; 5-64a, b4, c, & d2, C-E; 5-53,2; 5-63; 5-64b1, 2, 3, 5, 6; 5-64d1 & 2A, F, G, & H; 5-64d, 3 & 4; 5-64e2, 3, & 4; 7-35b; 15-4; 15-5,2; 15-9	Tanks; Conformance w/ approved procedures; ROP without a variance; Molluscan Shellfish Tanks Req's; Variance; Contents, Documentation, justification
		Employee Health (Priority/Priority Foundation)
4	3-4; 3-5; 3-6 - 3-4c & f	III Workers-PIC & EMP Responsibility to report Exclusions & Restrictions, Remove adjust, retain - PIC & EMP reporting
	3,9; 3•10; J-12; 3-13; 3-14; 3-15 5-21 b; 5-34a; 5-21 c	Clean hands and arms; how and when to wash; Prevent contamination from hands (wash); Where to Wash; Hand Sanitizers; nails trimmed no polish, gloves good repair No BHC w/ RTE; alt methods; Glove Limitation. Minimize bare hand contact w/ Non-RTE food
7	9-14a; 9-188';9-23; 9-26; 11-24; 11-25; 11- 30	Handwashing Facility, installation; water at 100'F; Numbers & Capacities, Location & Placement, Use; maintained, no other purpose; Cleanser availability; Hand drying provision; toilet paper available at toilets
		Approved Source (Priority/Priority Foundation)
8	5-2a,b; 5-3; 5-4; 5-5; 5-6; 5-7a; 5-8a; 5-11; 5-12; 5-14; 5-18a2; 5-28; 9-1; 9-3; 9-4; 9-5; 5-2c-e; 5-18a1; 9-6	Approved source, home prepared prohibited. Food-Hermetically sealed; Mlik & Milk Products, Fish, Molluscan Shellfish; Wlid Mushrooms,: Game Animals, Eggs; Eggs and Mlik Products, Pasteurized, Ice; Juice Treated; Ice Used as Exterior Coolant, Prohibited as Ingredient; Water; Approved system- Bottled drinking water; Quality, standards; Non-drinking water; Food Labeling; Juice treated -HACCP system; Sampling-non-community H20 sampled
9	5-1; 5-13	Safe, Unadulterated and Honestly Presented Package Integrity; Separate Distressed Products
10	5-49a; 5-15a; 5-16a; 5-20; 5-50a & C	Parasite destruction-fish freezing requirements Shucked Shellfish, Packaging and Identification; Shellstock-proper labels; 90 day label; frozen records/letter from supplier
11	5-22; 5-23a,1&2; 5-30; 5-41; 43a; 7-79; 5-43b&c 7-55	Food Contact w/ Equip. & Utensll· Food dlsplay: protect self-serve from contamination; Single-service/Single-use; Articles; Required use Self Service operations; customer self service
12	5-44a; 5-70; 11-38	Disposition of Returns; Previously Served; Discarding contaminated food
	11-21; 3-21a; 11-54a	Private homes and living or sleeping quarters use prohibition; Animals; employee may not touch; no live animals; Prohibiting animals (limitations)
14	11-44	Sinks not contaminated with cleaning equip
	7-1; 7-3; 7-4a; 7-5; 7-7; 7-12 1A-2A; 7-14; 7-28,5; 7-35a; 7-36; 7-15; 7-16 a-1 9-31,1; 9-37,1	Food Equipment Char., safe; Lead:China/crystal; Copper; Galvanized; Lead-Use: Pewter alloys: Singleuse service articles-safe; No glass thermometer; Dispensing Equip. for TSC Foods; Molluscan shellfish display tanks-indentification; Vending machine-automatic shutoff; Materials, Approved-(mobile water tank materials safe) Food contact surfaces, CIP equipment
16	11-50 1-4	Controlling Pests
17		emperature Control for Safety (TCS) (Priority/Priority Foundation)
	5-46a 1-3 & b2; 5-48 5-52 a-d	Raw Animal Food cook temp; Plant food cooking Re-heating for hot holding
	5-57: 5-58a	Cooling lime-temperature perameters; Cooling Methods
20	5-9; 5-59 a	Hot Hold Temps
	5-9 a,b,c; 5-59 a,b; 5-9 e & f	Cold Hold Temps; Receiving TCS 41 ° or below, Frozen Food: Shipped & Received, no temp abuse
22	61; 5-60	RTE discarded after expiration; no date; RTEDate Marking-41 ° for 7 days; options
	5-62b1 ,3,4 & c1 ,4,5; 5-62a, b2, c2,c3	Time as a Public Health Control, mark, temp, discard; RTE, Time Control/Safety Proc: Labeling, date marking
	5-48.1, 1-5; 5-48.1 7-50; 17-2d4	Non-continuous cook of raw animal foods Written Procedures for above Adequateeg rripment to maintain food temps
	7-30, 17-204 7-23; 7-24; 7-37e; 7-56; 7-78b	Thermometers: Food; Ambient Air & Water Accurate Thermometers: thin tip: Good Repair.Calibrated
		Advisory: Highly Susceptible Population (Priority/Priority Foundation)
27	5-46d2;c5-67b5·,5-69	Children's menu: raw animal food Allergens; Consumer adv. Disclosurer/Reminder
	5-25; 5-71	Pasteurized Foods: Prohibited Foods; Prohibited ReservIce
		Chemicals (Priority/Priority Foundation)
29	5-10; 5-26	Additives; Use approved; Protection from un-approved
30	13-3; 13-51&2; 13-6; 13-7; 13-8a; 13-9; 13-10; 13-11; 13-12; 13-13; 13-14a; 13-15b; 13-16; 13-17,2; 13-19	Lubricants, Pesticides, Rodent Bait Stalions; Tracking Powders, Employee Mads-Labeled, Stored; Refrig. Meds; First Aid; Employee items seperation
		shing (WW), Food Contact Surfaces (Priority/Priority Foundation)
31	7-40; 7-41; 7-42; 7-51, a&b 7-58; 7-68; 7-	WW, machine temps measured; Manual Equip; Auto Dispense Detergent; Alarms; 3-Compartment sink-Adequate-Test kits; Cleaning Agent Required; Chem. Sanitizer test
	7-72; 7-75; 7-95; 7-70; 7-71; 7-73a	Sanitization; Hot Water, Chemical, Pressure; Wash Solution:Temp Manual and Mech.; Hot Water Sanitization Temp: mechanical
33	7-83a,c; 7-94; 7-82a	Food contact surfaces-Clean & Sanitize Food contact surfaces-Clean, Sight, Touch
		Plumbing (Priority/Priority Foundation)
	17-1; 9-8; 9-9; 9-10; 9-11	Sink construction; contamination of utensils by handwashing; Water delivery; Pressure; Capacity of hot & cold; Alternate water supply; mobile water requirements
	9-2; 9-12; 9-13a; 9-15; 9-16; 9-21; 9-27a; 9- 29; 9-30,1; 9-38; 9-41; 9-44a; 9-47a; 9-49; 9-52; 9-27b; 9-28; 9-50	Backflow Prevention Sewage conveying: Approv. Disposal System Approved delivery sys: indentIfled, serviced Commissary & Servicing Area Requirement; Mobile wastes

OAC 310:257 - Subchapters & Paragraphs Listed Below Good Retail Practices

	Food Temperature Cont	rol
36	Microwave, Slacking, Thawing, Cooling methods	5-47; 5-55; 5-56; 5-58 b
37	Equipment thermometers provided, conspicuous	7-37 a-d
	Food Identification	
20	Food properly labeled, original container, honestly presented	5-2 f,g; 5-15 b; 5-19; 5-24; 5-39; 5-50 b; 5-65; 5-66;
30		5-67 a, b1-4, b6-7, c,d; 5-68
39	Contamination prevented during food preparation, storage & display	5-17; 5-21 d; 5-23 a3-8; 5-27; 5-29; 5-32; 5-36;
	Washing fruits and vegetables	5-37; 5-38; 5-40; 5-42; 5-44 b; 5-45; 5-71 8; 13-8 b
	Mobile pushcarts, retail food service establishment, commissary	17-2 a; 17-2 c; 17-4 d; 17-5 b; 17-6
40	Personnel: cleanliness, jewelry, hair restriants	3-16; 3-17; 3-20
41	Eating, drinking, tobacco; No discharge from eyes, nose, mouth	3-18; 3-19
42	Wiping cloths proper use & storage; Sponges prohibited	5-33; 7-6; 7-102
	Proper Use of Utensils	8
43	In-use utensils properly stored, cleaning frequency; Utensils, linens,	5-31; 7-59 a,b; 7-96 thru 7-99; 7-101; 7-105 a,b,d
43	equipment properly stored, dried, handled; Linens clean	7-106, 7-107 b; 7-108; 7-109; 17-6
44	Single-use, single-service articles: properly stored, used	7-80; 7-81; 7-105 a,c; 7-106; 7-107 a,c
	Utensils, Equipment & Ver	nding
	Food / non-food contact surfaces: cleanable, designed, constructed used	5-34 b,c,d; 5-35; 7-1 2,3,4,5; 7-2; 7-9; 7-10; 7-11;
45		7-12 18, 28; 7-13; 7-16 a2,b; 7-17 thru 7-21; 7-27;
43		7-28 1-4; 7-29 thru 7-34; 7-46 thru 7-49;
		7-60 thru 7-64; 7-103; 7-104; 17-1 c
	Manual/Mechanical warewashing facilities: maintained, operated;	7-25; 7-38; 7-39; 7-43; 7-44; 7-45; 7-51 c,d,e,f
46	Pressure gauges, data plates; Use limitation, pre-cleaning;	7-52; 7-57; 7-65; 7-66; 7-67; 7-69; 7-74; 7-76;
	Design; drain boards	7-87 thru 7-91
47	Non-food contact surfaces clean; Equip/utensil cleaning frequency	7-82 b,c; 7-84; 7-85
	Physical Facilities	
	Plumbing systems: maintained, backflow devices installed, inspected	9-14 b,c,d; 9-22; 9-24; 9-30 2; 9-31 2,3;
48		9-32 thru 9-36; 9-37 2-5; 9-39; 9-40; 9-42;
		9-43; 9-44 b; 9-45; 9-47 b,c,d; 9-48; 9-51; 9-53
	Toilet facilities: proper construction, accessible, supplied, cleaned;	9-19; 9-61; 11-14; 11-36; 11-47; 11-48
49	Self closures	
	Mobile pushcarts, retail food service establishment,	17-2c2,d1; 17-4f
	Break rooms, Locker areas: used, provided, maintained;	7-54; 7-59 c; 7-100; 11-22; 11-33; 11-37; 11-49
50	Living areas separate; Laundry facilities	
51	Hand washing sinks designed, clean, used; Proper signage	9-13 b; 11-26; 11-27; 11-47
	Floors, walls, ceilings (premises): clean, maintained free of litter	11-41; 11-42; 11-51; 11-53
52	Removal of pests	
	Floors, walls, ceilings (physical facilities): properly designed,	11-1; 11-3 through 11-10; 11-15; 11-16; 11-40;
53	maintained, good repair; Outer openings protected	11-46
	Mobile food service establishment	17-3 a
54	Service sinks; Maintenance and cleaning tools properly used & stored	7-86; 9-20; 11-45; 11-52
55	Outdoor areas: constructed, maintained, clean	11-2; 11-17; 11-18; 11-19
	Mobile Commissary & servicing area	17-5 e
56	Garbage & refuse: properly disposed, facilities constructed, maintained	9-55 thru 9-60; 9-62 thru 9-73; 11-20
	Ventilation: installed, maintained; Lighting: adequate, shielded	7-22; 7-26; 7-53; 11-11; 11-12; 11-31; 11-32; 11-43
υı	vontilation. Installed, maintained, Lighting, adequate, Silicided	1-22, 1-20, 1-00, 11-11, 11-12, 11-31, 11-32, 11-43

APPENDIX C

- CDC Foodborne Illness Risk Factor Profile

There are five major risk factors related to employee behaviors and preparation practices that cause most food borne illnesses. The following IN Compliance percentages demonstrate how well has managed these risk factors compared to other Tulsa County Restaurants between 2017-2020

Active Managerial Control

- 1. Improper Food Holding/Time and Temp
- 2. Inadequate Cooking
- 3. Contaminated Equipment
- 4. Food Obtained from an Unsafe Source
- 5. Poor Personal Hygiene

	TULSA COUNTY
68.5%	90.9%
82.7%	84.7%
100.0%	99.0%
69.1%	96.7%
97.8%	98.6%
86.8%	96.4%



Inspections

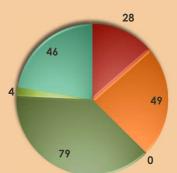
97 Inspections completed from 2017-2021

964 Total Violations Observed OUT of Compliance

206 Total Risk Factor Violations Observed OUT of Compliance

Risk Factor Violations OUT of Compliance 21% of the time

- 28 Active Managerial Control Violations
- **49 Improper Food Holding/Time and Temp Violations**
- **0 Inadequate Cooking Violations**
- 79 Contaminated Equipment Violations
- 4 Food Obtained from an Unsafe Source Violations
- **46 Poor Personal Hygiene Violations**

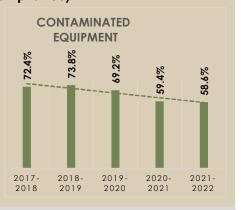


- Active Managerial Control Violations
- Improper Food
 Holding/Time and Temp
 Violations
- ■Inadequate Cooking Violations
- Contaminated Equipment Violations

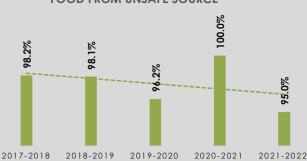
Foodborne Illness Risk Factor Trends (%IN Compliance)







FOOD FROM UNSAFE SOURCE



POOR PERSONAL HYGIENE





- CDC Foodborne Illness Risk Factor Profile

Warnings were issued on 41 out of 97 inspections.

Follow-up Notices issued on 32 out of 97 inspections, only 8 returned.

Violation Frequency

28 inspections = No Certified Food Manager present

11 inspections = Hand washing issues

35 inspections = Hand sink issues with either no hot water, no paper towels, no soap, was blocked or contained dirty ware

21 inspections = Hot holding temperature issues; food discarded 16 times

20 inspections = Cold holding temperature issues; food discarded 13 times

69 inspections = Contaminated equipment issues

Violations Comments - July 2021

Hand washing and Hand Sink

No paper towels at hand sink located by 3-compartment sink

Hand sink in dishwashing area is not operational and dirty with buildup.

No paper towel for hand sink at cookline.

Wet wipe rag stored inside front hand sink.



Brisket, pulled pork, and Cholula Chicken at hot holding table measured at 92F-102F.

White rice, brown rice, cilantro rice, and chicken stored in heated cabinet not maintained at 135°F or above.

Chicken in steamer not held at 135F or above.

Cold Holding

Containers of lettuce stored in non-working refrigerator at front service line overnight.

Diced tomatoes stored at preparation table and in cold-hold unit measured at 80F.

Milk in refrigerator in front service area not held at 41F or above.

Contaminated Equipment

Several insert pans at shelf by warewash area stored as clean dirty with build up.

Plastic containers on clean dish shelf dirty with food waste.

Knives stored on magnetic strip as clean, dirty with buildup.

Equipment food-contact surfaces not clean

Risk Factor Occurrence 2017-2021

Active Managerial Control

70% of the time a certified food manager was not present

Improper Holding Temperature

50% of the time hot or cold holding was out of temperature

Contaminated Equipment

40% of the time some equipment was stored dirty or food contact surfaces were dirty

Poor Personal Hygiene

25% of the time hand washing was an issue



