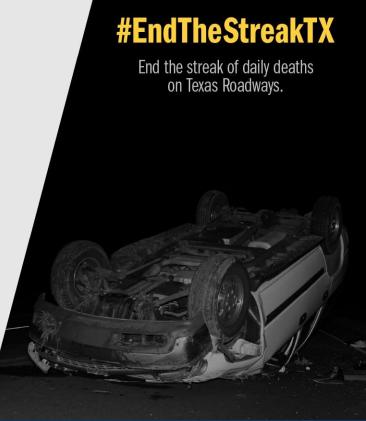


Strategic Planning and PP&E for FY 2024

Larry Krantz, MPA BTS Program Manager



Takeaways from this presentation



- NHTSA has added Equity requirements to all states' traffic safety operations
- Texas tapped its TRCC for assistance in defining and identifying "underserved and overrepresented" communities and added them into the existing strategic planning concept begun in FY 2023.
- For the sake of uniformity, the big-picture Equity and strategic planning data analysis (where to go and why) has been conducted for you and for our subgrantees so we can all work together to accomplish this new mission
- The bulk of this presentation is a review of our strategic planning process, what data we use, how we analyze it, how to read it, and how to use it to guide your operations in FY 2024

Strategic Planning



3



TxDOT Goals and Strategies



- Promote Safety: Champion a culture of safety
 - Reduce crashes and fatalities by continuously improving guidelines and innovations along with increased targeted awareness and education
- Deliver the Right Projects: Implement effective planning and forecasting processes that deliver the right projects on-time and on-budget
 - Use scenario-based forecasting, budgeting, and resource management practices to plan and program projects.
 - Align plans and programs with strategic goals
- Foster Stewardship: Ensure efficient use of state resources
 - Operate efficiently and manage risk

TxDOT Goals and Strategies



- Reduce crashes and fatalities by continuously improving guidelines and innovations along with increased targeted awareness and education
 - Use scenario-based forecasting, budgeting, and resource management practices to plan and program projects.
 - Align plans and programs with strategic goals
 - Operate efficiently and manage risk

Developing, Operating and Evaluating a Data-Driven Program



- Project Outputs + Strategic Deployment = Outcomes
 - What are the program outputs?
 - Subgrantees: Training, Education, Messaging
 - TSSs: Roll-over convincer, Car seats, coalitions, etc.

Developing, Operating and Evaluating a Data-Driven Program



- Project Outputs + Strategic Deployment = Outcomes
 - What are the program outputs?
 - Subgrantees: Training, Education, Messaging
 - TSSs: Roll-over convincer, Car seats, coalitions, etc.
 - What is the strategy guiding project deployment?
 - TxDOT identifies Priority Communities (PC's)
 - Subgrantees directed to attempt to deploy project outputs in PC's
 - TSSs directed to attempt to deploy organic resources in PC's

Developing, Operating and Evaluating a Data-Driven Program



- Project Outputs + Strategic Deployment = Outcomes
 - What are the program outputs?
 - Subgrantees: Training, Education, Messaging
 - TSSs: Roll-over convincer, Car seats, coalitions, etc.
 - What is the strategy guiding project deployment?
 - TxDOT identifies Priority Communities (PC's) with data, analysis tools
 - Subgrantees directed to attempt to deploy project outputs in PC's
 - TSSs directed to attempt to deploy organic resources in PC's
 - How did the combination of outputs and strategic deployment achieve the desired outcomes in Priority Communities?

FY 2024 Highway Safety Office Goals and Strategies



- Reduce crashes and fatalities by continuously improving guidelines and innovations along with increased targeted awareness and education
 - Use scenario-based forecasting, budgeting, and resource management practices to plan and program projects.
 - Align plans and programs with strategic goals
 - Operate efficiently and manage risk
- Public Participation and Engagement (PP&E):
 - Introduce and consider Social Equity when developing "targeted awareness and education" resources and deployment strategies
 - Identify and engage with underserved communities that are also overrepresented in crash data

FY 2024 PP&E Strategy



10

- Public Participation and Engagement (PP&E):
 - Introduce and consider Social Equity when developing "targeted awareness and education" resources and deployment strategies
 - Identify and engage with underserved communities that are also overrepresented in crash data
- How are we defining underserved?
 - TTI's Equity Index
- How are we defining overrepresented?
 - TxSTORM (Texas State Trend Over-Representation Model)
- Existing triangulated crash data model used in FY 2023

Texas TRCC Website (texastrcc.org)



11

Texas Traffic Records Coordinating Committee (TRCC)



The TRCC is a partnership of representatives from the transportation, law enforcement, criminal justice, and health professions. This statewide group of stakeholders uses the TRCC as a forum for the planning, coordination and implementation of projects to improve the State's traffic records system.

The TRCC uses Federal "State Traffic Safety Information System Improvement Grants (405c)" and other funds to promote projects to improve the accessibility, accuracy, completeness, consistency, timeliness, and uniformity of the traffic records systems in Texas. These projects include efforts to improve individual databases as linkages between the core traffic records systems through the

HIGHLIGHT: The Texas State Trend Over-Representation Model



A multi-agency product of the Texas Traffic Records Coordination Committee designed to identify crash-related trends and facilitate the efficient deployment of resources.

ACCESS TXSTORM HERE

FY 2022

FY 2021

TX TRAUMA REGISTRY DATA

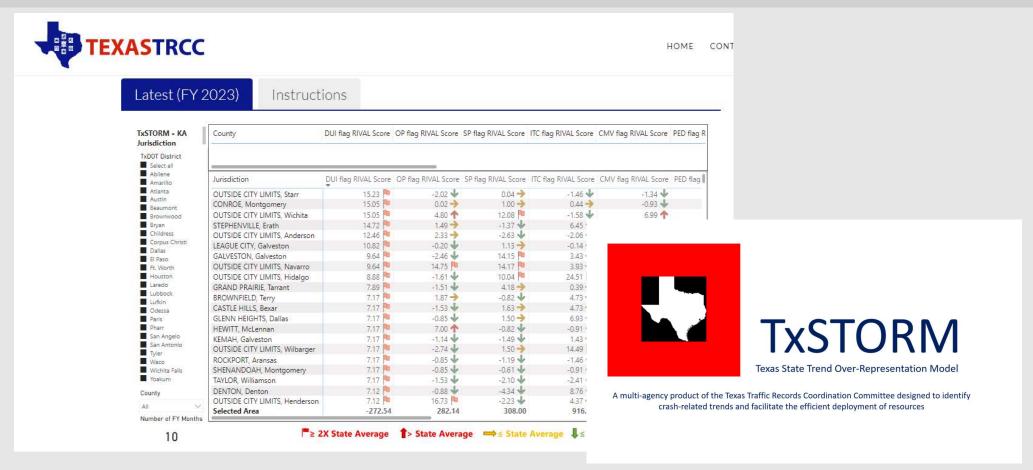
EQUITY INDEX & CRASH

FY 2024 GRANT
PROJECT STRATEGIC
PLANNING DATA

Texas State Trend Over-Representation Model (texastrcc.org)



12



Equity Index and Crash Rate Dashboard





Equity Index and Crash Rate Dashboard

Equity Index & Crash

Rates per Population and State equity indexes range from -6.96 to 4.78. The larger the number the more affluent the county. Annual VMT by County The median equity index for the state is 0.14.

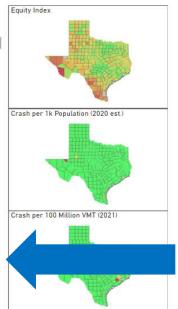
crash Severity	
All	Y
xDOT District	
Abilene	
Amarillo	
Atlanta	
Austin	
Beaumont	
Brownwoo	d
Bryan	
Childress	
Corpus Ch	risti
Dallas	
El Paso	
Ft. Worth	
Houston	
Laredo	
Lubbock	
Lufkin	
Odessa	
Paris	
Pharr	
San Angelo	
San Anton	0
Tyler	
Waco	
Wichita Fal	is
Yoakum	

TxDOT County	Equity Index	Crashes per Pop.	Crashes Count of Population VMT 2021 per VMT Crash 2020						State Index Ranking
PRESIDIO	-6,96	3.93	25,62	24	6,109	93,664,825.42	252		
STARR	-5.73	1.82	26.07	120	65,861	460,230,692.60	251		
DIMMIT	-5.43	6.41	29.76	55	8,577	184,786,788.37	250		
HUDSPETH	-5.06	27.47	15.42	88	3,203	570,545,366.95	249		
ZAPATA	-4.86	2,45	26,01	34	13,874	130,701,251.03	248		
CULBERSON	-4.85	26,54	16,99	58	2,185	341,422,232.14	247		
BROOKS	-4.45	6,94	19,45	49	7,057	251,915,263.33	246		
WILLACY	-4.32	2.73	26,45	55	20,150	207,941,075.78	245		
MAVERICK	-4.07	18.85	24.59	99	5,252	402,627,675.39	244		
COCHRAN	-3.93	3.91	21.98	10	2,557	45,505,980.67	243		
HIDALGO	-3.89	1.87	209.07	1632	872,806	780,605,837.63	242		
JIM HOGG	-3,83	1.44	0.26	7	4,846	2,692,372,662.76	241		
KING	-3.82	37.59	29.64	10	266	33,740,979.76	240		
FRIO	-3,43	4.83	14.35	89	18,409	620,091,347.56	239		
DUVAL	-3.40	3.57	18.65	35	9,807	187,702,456.03	238		
CAMERON	-3.34	1.93	24.97	813	421,445	3,255,503,300.21	237		
ZAVALA	-3.20	5.69	32.95	55	9,662	166,934,689.12	236		
DAWSON	-3.18	5.05	26.02	63	12,473	242,146,261,63	235		

captured in the index include; (i) total population; (ii) educational attainment; (iii) median age; (iv) unemployment rate, (v) industry of employment (vi) health insurance accessibility, (vii) population living below poverty line, (viii) median household income, (ix) housing occupancy type, (x) median house value, (xi) race, and (xii) ethnicity. 5-yr data profile from the American Community Survey (ACS; 2017-2021) were downloaded at the county level for the analysis.

Crashes per Pop. = Count of crashes per 1,000 population. Crashes are fatal and suspected serious injury crashes from the years 2018-2022. Crashes per VMT = Count of crashes per 100 million annual vehicle miles traveled in 2021, Crashes are fatal and suspended serious injury crashes from the years 2018-2022.

For other index-related details, you can reach out to n-sinha@tti-tamu.edu.



HOME CONT

#EndTheStreakTX

TxDOT County

Strategic Planning Data Types



- Current FY crashes involving at least one:
 - Impaired driver (DWI-KA)
 - At least one unsecured occupant (OP-KA)
 - Driver aged 25 or younger (YD)
 - Driver aged 65 or older (MD)
 - Occupant aged 8 or younger present (CP)
 - At least one motorcycle (MC)
 - At least one pedalcyclist (Bike)
 - At least one pedestrian (PED)
- Aggregated Youth Alcohol (YD+DWI)

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Triangulated Data for KA Crashes

- **Priority Community List includes:**
 - Crash Totals
 - Crash Percentage
 - Crash Trends (TxSTORM)



Triangulated Data for KA Crashes

- Crash Totals
 - Where do these types of crashes occur the most in Texas? (~Top 50)



Total Crashes



District	Jurisdiction	DWI-KA 🚽	DWI-KA%	TxSTORM-DWI-KA
Houston	HOUSTON	75	7.40%	-59.39
Dallas	DALLAS	62	7.48%	-39.06
San Antonio	SAN ANTONIO	60	11.52%	-28.87
Houston	OUTSIDE CITY LIMITS Harris County	50	7.02%	-34.54
Austin	AUSTIN	45	11.75%	-17.38
Fort Worth	ARLINGTON	33	18.86%	-4.63
Houston	OUTSIDE CITY LIMITS Montgomery County	27	16.46%	-7.73
Amarillo	AMARILLO	23	18.11%	6.60
Pharr	OUTSIDE CITY LIMITS Hidalgo County	21	23.86%	-8.39
Houston	OUTSIDE CITY LIMITS Fort Bend County	17	14.91%	1.96
Austin	OUTSIDE CITY LIMITS Bastrop County	17	19.77%	0.91
Tyler	OUTSIDE CITY LIMITS Smith County	17	16.35%	-3.24
Odessa	MIDLAND	16	19.75%	3.99
Corpus Christi	CORPUS CHRISTI	16	16.33%	-7.26
Dallas	IRVING	15	16.13%	-2.97
Lubbock	LUBBOCK	15	20.00%	-2.97
El Paso	EL PASO	15	7.43%	-11.89
Lufkin	OUTSIDE CITY LIMITS Polk County	12	20.69%	7.36

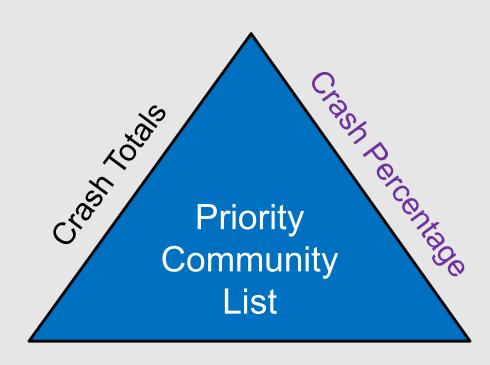
Strategic **Priority List**

Crash Trends (TxSTORM)

Triangulated Data for KA Crashes



- Crash Totals
 - Where do these types of crashes occur the most in Texas? (~Top 50)
- Crash Percentage
 - Which communities have the highest percentage of crash type? (~Top 50)
 - Formula = DWI-KA/Total KA



Crash percentage



District	Jurisdiction	DWI-KA	DWI-KA%	TxSTORM-DWI-KA
Fort Worth	NEWARK	3	100.00%	4.00
Brownwood	OUTSIDE CITY LIMITS Stephens County	2	100.00%	0.11
Atlanta	OUTSIDE CITY LIMITS Camp County	3	75.00%	0.48
Fort Worth	COOL	2	66.67%	2.94
Wichita Falls	VERNON	2	66.67%	2.94
Austin	NIEDERWALD	3	60.00%	8.87
Lubbock	BROWNFIELD	3	60.00%	4.00
Houston	RICHMOND	2	50.00%	3.00
Austin	TAYLOR	2	50.00%	2.94
Yoakum	WHARTON	2	50.00%	2.94
Brownwood	OUTSIDE CITY LIMITS Mills County	2	50.00%	0.11
Tyler	OUTSIDE CITY LIMITS Anderson County	8	44.44%	6.22
Houston	KEMAH	3	42.86%	8.87
Houston	SHENANDOAH	2	40.00%	2.94
Brownwood	BROWNWOOD	2	40.00%	0.11
Dallas	FARMERSVILLE	2	40.00%	0.11
Pharr	OUTSIDE CITY LIMITS Starr County	4	36.36%	2.78
Wichita Falls	WICHITA FALLS	7	33.33%	-0.35

Strategic **Priority List** Crash Trends (TxSTORM)

Triangulated Data for KA Crashes



Crash Totals

 Where do these types of crashes occur the most in Texas? (~Top 50)

Crash Percentage

- Which communities have the highest percentage of crash type? (~Top 50)
- Formula = DWI-KA/Total KA

Crash Trends

- Where are these types of crashes trending up the fastest? (~Top 50)
- Higher TxSTORM score = Steeper trend



TxSTORM Values (Steepest Adverse Trend)



District	Jurisdiction	DWI-KA	DWI-KA%	TxSTORM-DWI-KA→
Houston	CONROE	8	21.62%	13.69
Houston	LEAGUE CITY	7	25.00%	9.46
Austin	SAN MARCOS	11	21.57%	9.44
Dallas	OUTSIDE CITY LIMITS Navarro County	10	30.30%	9.28
Austin	NIEDERWALD	3	60.00%	8.87
Houston	KEMAH	3	42.86%	8.87
Dallas	OUTSIDE CITY LIMITS Dallas County	3	27.27%	8.87
San Antonio	CASTLE HILLS	3	25.00%	8.87
Fort Worth	STEPHENVILLE	3	21.43%	8.87
Lufkin	OUTSIDE CITY LIMITS Polk County	12	20.69%	7.36
Amarillo	AMARILLO	23	18.11%	6.60
Tyler	OUTSIDE CITY LIMITS Anderson County	8	44.44%	6.22
Waco	BELTON	5	27.78%	5.99
Fort Worth	NEWARK	3	100.00%	4.00
Lubbock	BROWNFIELD	3	60.00%	4.00
Odessa	MIDLAND	16	19.75%	3.99
Houston	RICHMOND	2	50.00%	3.00
Fort Worth	COOL	2	66.67%	2.94



Crash Trends (TxSTORM)

Combining Equity Index, TxSTORM, Triangulated Data



District	Jurisdiction 💌	DWI-KA 🔀	DWI-KA%	TxSTORM-DWI-KA
Houston	CONROE	8	21.62%	13.69
Houston	LEAGUE CITY	7	25.00%	9.46
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Fort Worth	COOL	2	66.67%	2.94

Equity Index + TxSTORM





End the streak of daily deaths on Texas roadways.

TxDOT.gov (Keyword: #EndTheStreakTX)

#EndTheStreakTX Toolkit

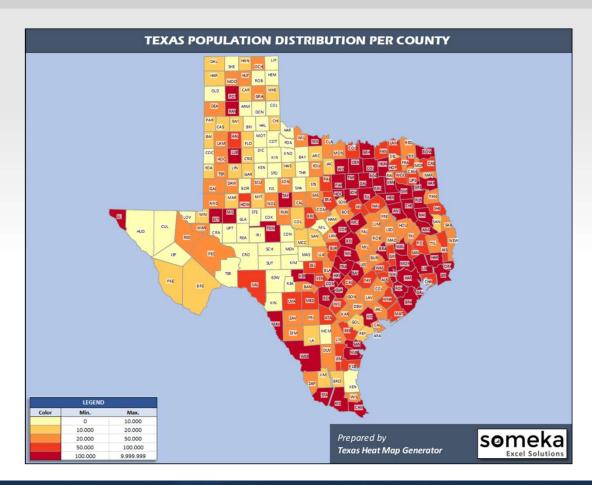


Strategic Planning



24





Data available



25

Using TxSTORM



- Relative Impact Value (RIVAL or "TxSTORM Score")
 - Top 25 most critical (Dark Red)
 - Above statewide average (Lighter Red)
 - Above zero (Yelow)
 - Below zero (Green)
- Development of Master Strategic Plan
 - Use triangulated data to identify "Priority Communities"
 - PM, TSS coordination to ensure resources are deployed to PC's



Strategic Planning



- What does success look like for the project you selected?
 - What is the purpose of the project?
 - What resources does the project produce?
 - General or specialized training
 - Educational messaging
 - Enforcement Hours
 - What is the intended audience?
 - Is there a plan for how the resources are distributed?
 - What data is used to guide the plan?
 - What is the desired outcome? How will it be measured?

#EndTheStreakTX

General Grant Outputs vs. Outcomes



Output

- Total number of items made/distributed
- Total number of classes delivered
- Total number of students trained
- Total number of surveys conducted
- Total number of impressions made

Outcome

- What impacts did the outputs have on the problem?
- Where were the outputs allocated? How was that determined?

Developing a Data-Driven Program



- Did the project achieve its objectives (outputs)?
 - Widgets, classes, trainings, impressions, etc
- Did those outputs "move the needle" where they were delivered?
 - Were crashes reduced?

Strategic Planning



30

- Elements of a Strategic Plan
 - How need is identified and prioritized
 - Data used to identify need
 - Plan to address the identified needs in specific communities
 - How activities will be documented

Strategic Planning



31

- Maximize ROI
 - What does this project do?
 - Are its outputs aimed at program priorities?
 - Are we getting what we're paying for?
 - How do we know?

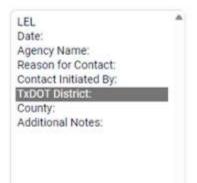
Tracking Grant-Funded Activity

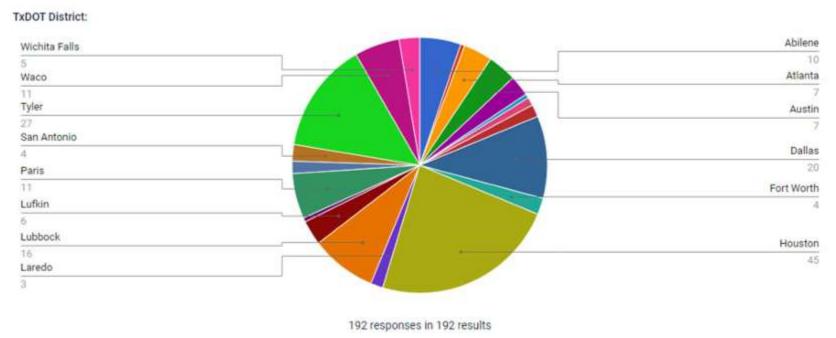


32

June 2023 LEA Contacts Chart type







Tracking Strategic Plan Progress



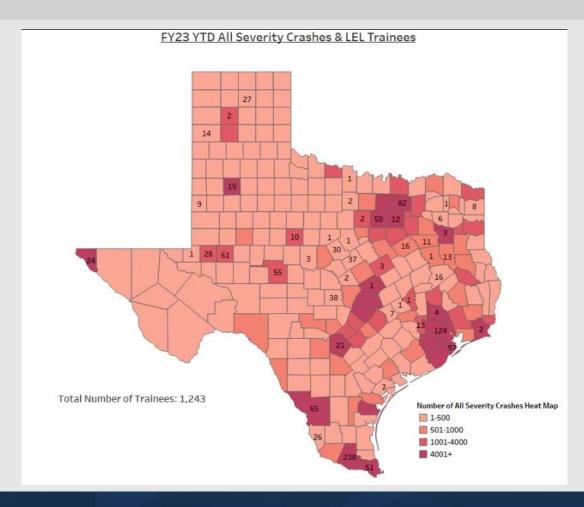
33

First Event Held	TxDOT Dist	Strategie Briggity Community	FI	rst Contact Peri	od	Second Contact Period			13.000		7
Date	IXDOI DIST	Strategic Priority Community	October	November	December	January	February	March	April	May	June
	Abilene	OUTSIDE CITY LIMITS Taylor County			14-Dec	2	20-Feb	8-Mar	27-Apr		
	Abilene	OUTSIDE CITY LIMITS Mitchell County			14-Dec		20-Feb	8-Mar	27-Apr	4 8	
STEP IDM 23	Amarito	OUTSIDE CITY LIMITS Potter County		11-Nov	13-Dec		7-Feb	30-Mar			
	Amarillo	PERRYTON	.7		8-Dec		22-Feb	30-Mar		1	
	Atlanta	HOOKS		28-Nov			2-Feb.	15-Mar	13-Apr		
	Atlanta	MOUNT PLEASANT	-	28-Nov			2-Feb				
STEP Comp 23	Austin	OUTSIDE CITY LIMITS Williamson County	6-Oct	29-Nov	6-Dec		8-Feb			24-May	
	Austin	OUTSIDE CITY LIMITS Bastrop County	(d)	- 3	29-Dec	ő	9-Feb	27-Mar	:	23-May	4.
	Austin	GEORGETOWN	9 3	- 8	29-Dec	6	21-Feb	30-Mar		25-May	
	Austin	PFLUGERVILLE	5-Oct	28-Nov		30 Jan	24-Feb			23-May	
	Austin	LLANO			29-Dec		21-Feb	29-Mar		16-May	
	Austin	OUTSIDE CITY LIMITS Havs County			29-Dec		9-Feb	30-Mar		25-May	
	Austin	OUTSIDE CITY LIMITS Caldwell County			29-Dec		9-Feb	30-Mar		8	-
	Austin	GIDDINGS			29-Dec		21-Feb	30-Mar		24-May	
STEP Comp/CMV/IDM 25	Austin	AUSTIN	20-Dc1	3-Nov	20-Dec		8-Feb				
STEP Comp/CMV 23	Austin	KNE	-	16-Nov	1-Dec		8-Feb	30-Mar		24-May	
STEP Comp 23	Austin	OUTSIDE CITY LIMITS Travis County			16-Dec		8 Feb			25-May	
STEP Comp 23	Austin	CEDAR PARK			27-Dec		C MAIN ()			25-May	
	Austin	LEANDER			29-Dec		21-Feb	30-Mar		24-May	
	Beaumont	OUTSIDE CITY LIMITS Liberty County	8 8	30-Nov		9	Z-Feb	8-Mar	13-Apr	5-May	28-Jun
	Brawnwood	OUTSIDE CITY LIMITS Brown County		1-Oct	20-Dec		16-Feb	30-Mar			
	Brownwood	BROWNWOOD			21-Dec		17-Feb	30-Mar		6 9	
STEP Comp 23	Bryan	COLLEGE STATION			14-Dec			8-Mar		5-May	1-Jun
	Corpus Christi	ROCKPORT			10-Dec	ė.	27-Feb			6 6	
	Corpus Christi	ROBSTOWN			9-Dec		2 30 30 6			8 8	
	Corpus Christi	PORT ARANSAS			10-Dec		24-Feb				77.17
STEP Comp/IDM 23	Dellas	DALLAS			13-Dec		20-Feb	8-Mar	10 Apr	15-May	16-Jun
	Dallas	OUTSIDE CITY LIMITS Kaufman County			14-Dec		20-Feb				
	Dallas	RICHARDSON	10 5		14-Dec	Š.	6-Feb	7-Mar		9-May	30-Jun
	Dallas	MABANK			27-Dec		20-Feb				
	Dallas	LEWISVILLE			14-Dec		20-Feb	28-Mar		9-May	30-Jun
STEP Comp 23	Dalas	MCKINNEY			28-Dec	Sdan	24-Feb	28-Mar			
	Dallas	OUTSIDE CITY LIMITS Denton County	8		9-Dec	ō .	20-Feb		:	8 8	30-Jun
	Dallas	DENTON	13-Oct	3		9	20-Feb			8 8	-
	Dallas	OUTSIDE CITY LIMITS Collin County	13-Oct				20-Feb	28-Mar		9-May	25-Jun
	Dallas	OUTSIDE CITY LIMITS Ellis County			14-Dec		20-Feb	29-Mar		22-May	

Outputs into Outcomes



34



Outputs into Outcomes



35

