

# University of Texas – Rio Grande Valley

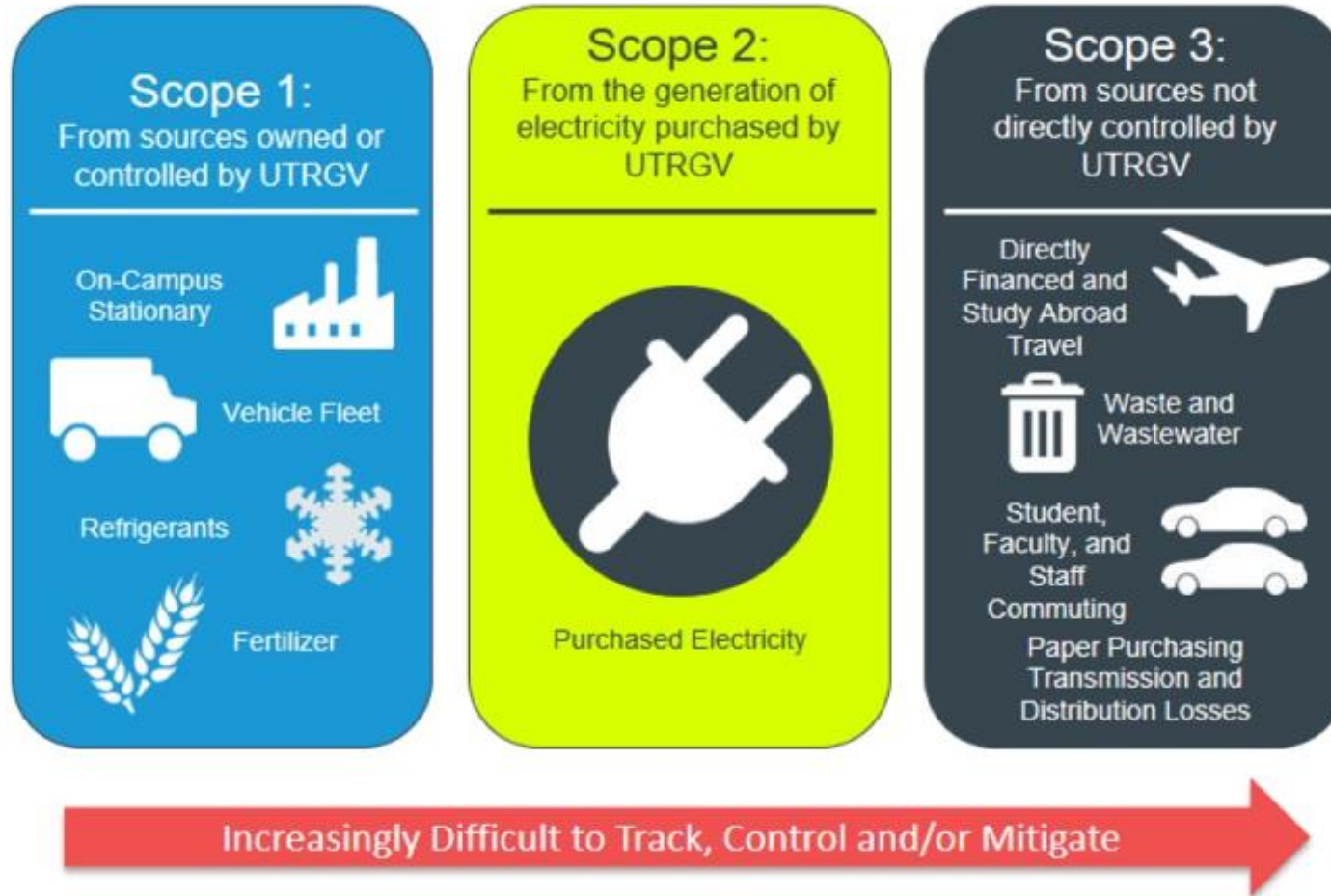
## Sustainability Qualification

May 2020

University of the Sciences in Philadelphia  
University of Toledo  
University of Vermont  
University of Washington  
University of West Florida  
University of Wisconsin - Madison  
Vanderbilt University  
Virginia Commonwealth University  
Wake Forest University  
Washburn University  
Washington State University  
Washington State University - Tri-Cities Campus  
Washington State University - Vancouver  
Washington University in St. Louis  
Wayne State University  
Wellesley College  
Wesleyan University  
West Chester University  
West Virginia Health Science Center  
West Virginia University  
Western Oregon University  
Westfield State University  
Widener University  
Williams College  
Worcester Polytechnic Institute  
Worcester State University



# UTRGV Qualification Agenda



## Agenda:

- Review all data collected for FY19
- Confirm all outstanding questions throughout Scopes 1, 2, and 3.
- Review how the information is inputted in SiMAP, and ensure everyone has the ability to download data accordingly from the website.
- Discuss Final Presentation Dates and Objectives
- Review peer group for comparison

# Scope 1

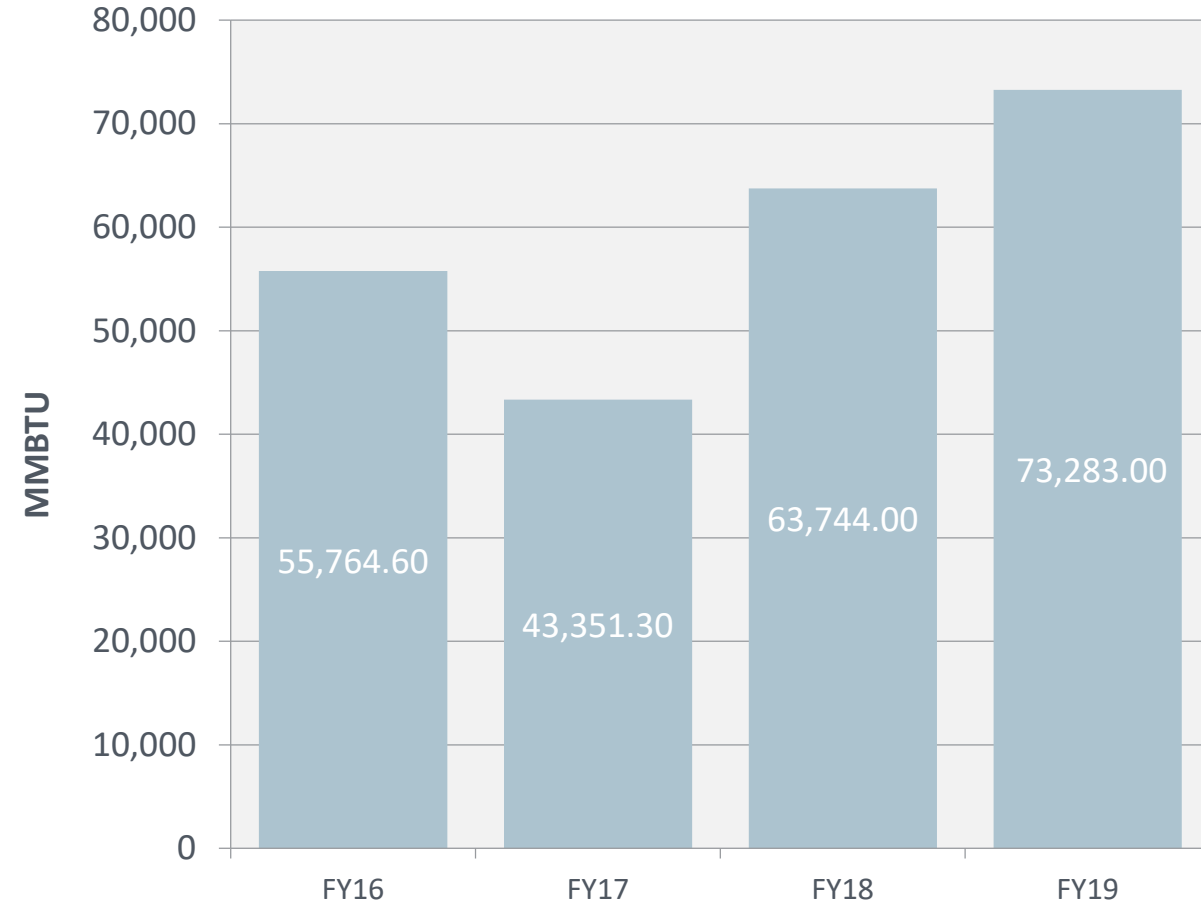


# Scope 1 Utility Base Data

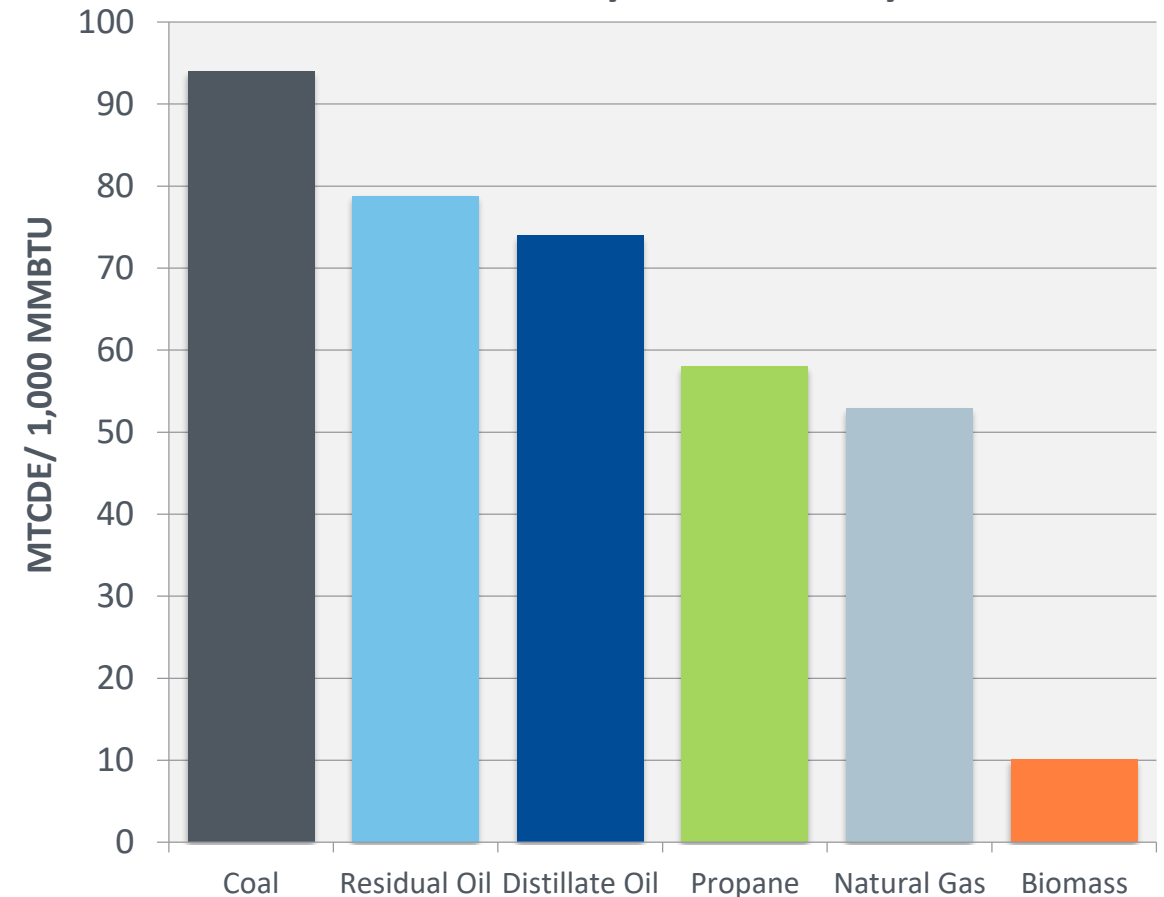
U.T. R.G.V. Energy & Water Data									
1990-2019E									
(See comments below for the history of UTRGV energy data prior to 2016 being the compilation of UTB and UTPA. The Harlingen con									
Purchased Energy									
Fiscal Year	Electricity Usage (Kwh)	Natural Gas Usage (Mcf)	Electricity Cost (\$/Kwh)	Natural Gas Cost (\$/Mcf)	Total Electricity Cost	Total Natural Gas Cost	Other Energy (MMBtu)	Other Energy Cost	
2007	94,091,878	83,080	\$0.0755	\$8.6582	\$ 7,105,280	\$ 719,324	0	\$ -	
2008	97,283,541	82,717	\$0.0870	\$10.1721	\$ 8,460,553	\$ 841,405	0	\$ -	
2009	98,337,336	78,096	\$0.0858	\$8.2911	\$ 8,435,716	\$ 647,502	0	\$ -	
2010	103,133,710	91,238	\$0.0824	\$6.0274	\$ 8,497,575	\$ 549,929	0	\$ -	
2011	102,856,561	79,460	\$0.0831	\$5.5513	\$ 8,552,118	\$ 441,104	0	\$ -	
2012	101,962,756	74,111	\$0.0701	\$4.7237	\$ 7,149,813	\$ 350,078	0	\$ -	
2013	101,224,621	70,898	\$0.0658	\$5.7570	\$ 6,660,428	\$ 408,160	0	\$ -	
2014	79,789,905	69,342	\$0.0705	\$6.3298	\$ 5,622,826	\$ 438,921	0	\$ -	
2015	87,094,797	60,913	\$0.0737	\$5.8865	\$ 6,417,658	\$ 358,567	0	\$ -	
2016	85,023,773	55,765	\$0.0752	\$3.8945	\$ 6,397,665	\$ 217,178	0	\$ -	
2017	87,360,175	43,351	\$0.0692	\$5.4996	\$ 6,044,977	\$ 238,416	0	\$ -	
2018E	90,596,169	63,744	\$0.0662	\$5.3280	\$ 5,997,915	\$ 339,628	0	\$ -	
2019E	97,205,440	73,283	\$0.0644	\$5.7766	\$ 6,258,996	\$ 423,324	0	\$ -	

# Scope 1 Fuel Consumption

## Natural Gas Consumption



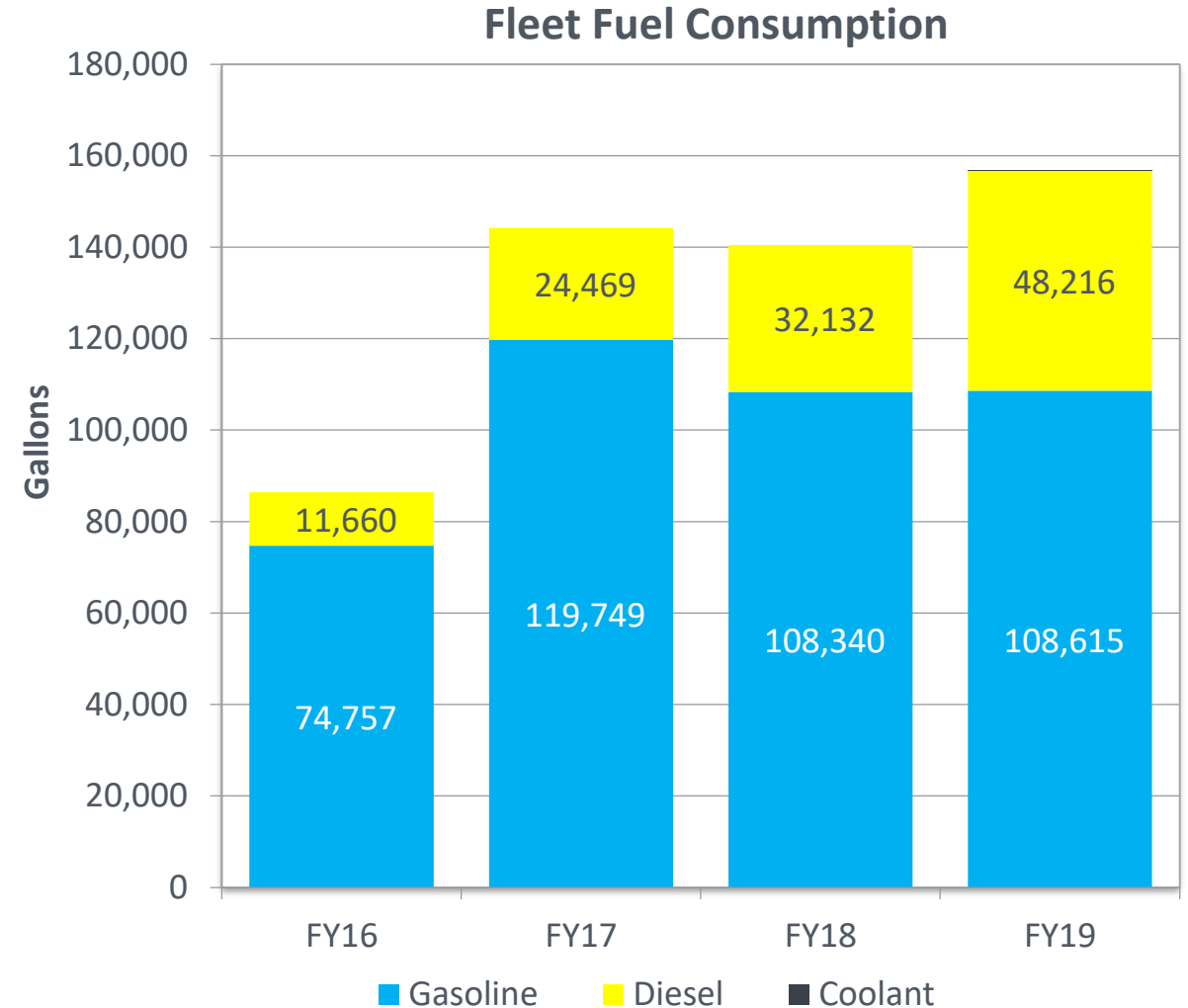
## Carbon Intensity of Commonly Used Fuels



# Other Scope 1 –University Fleet Fuel

Base Data:

<i>Fuel Consumption (Gallons)</i>	<i>Fiscal Year</i>
<i>Fuel Type / Incidentals</i>	<i>2019</i>
<i>Diesel</i>	<i>48,216</i>
<i>Unleaded</i>	<i>108,615</i>
<i>Coolant</i>	<i>41</i>
<i>Grand Total (gallons)</i>	<i>156,872</i>



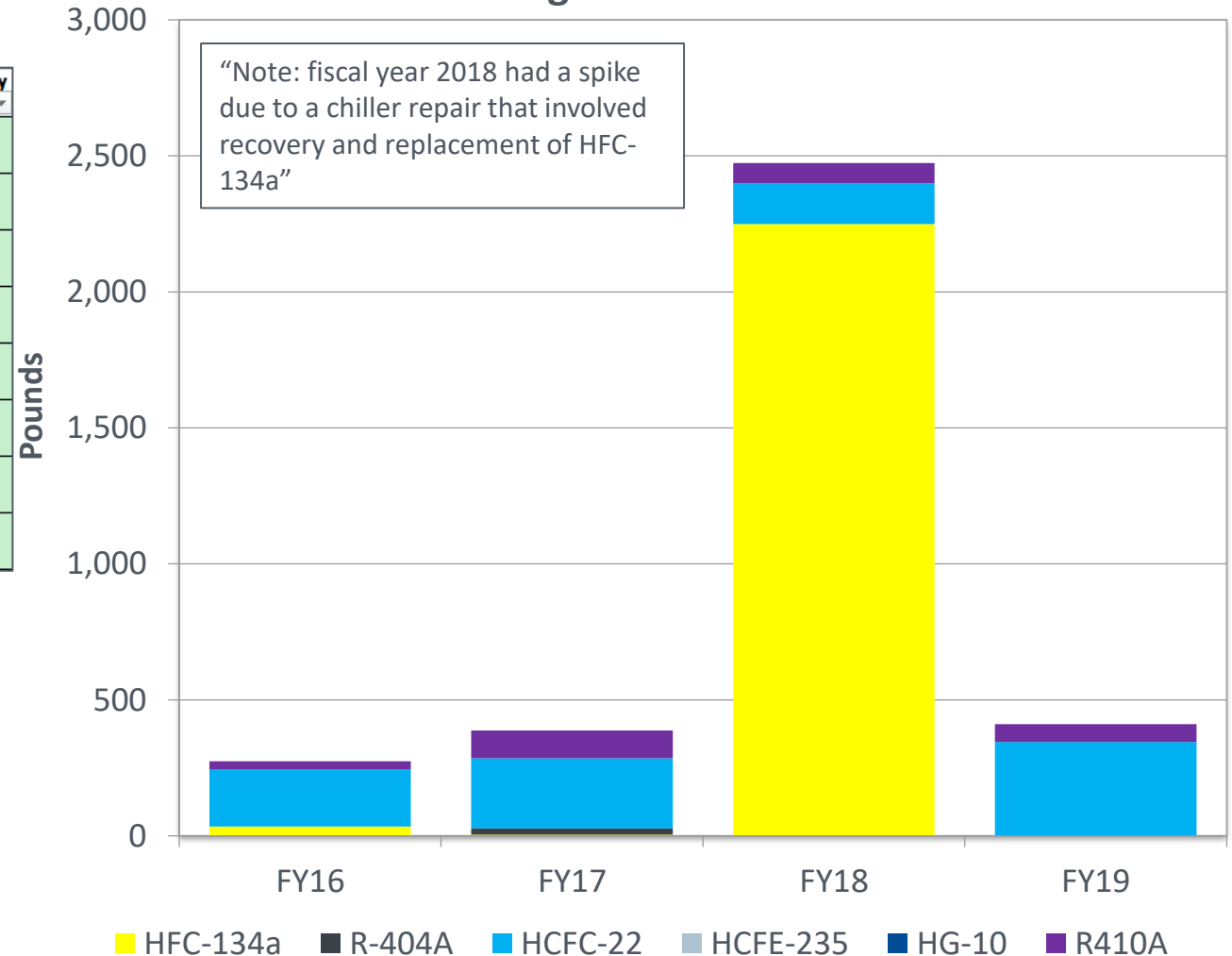
# Other Scope 1 – Refrigerants and Chemicals

Base Data:

Work Order	Date	Type	Transaction #	SKU Code/Description	Account #	Technician	Qty
ED19-66144	09/06/2018	5 : Issue Part (WO)	ED19-66144	03167/7-EDWH ' - 'Freon R22, usage per pound.	32000025	Francisco Gonzalez	4
ED19-66225	09/06/2018	5 : Issue Part (WO)	ED19-66225	03167/7-EDWH ' - 'Freon R22, usage per pound.	32000025	Rogelio Arreola	5
BR19-29497	09/14/2018	5 : Issue Part (WO)	BR19-29497	03167/7-BRWH ' - 'Freon R22, usage per pound.	21000083	Robert Degasperi	2
BR19-29632	09/21/2018	5 : Issue Part (WO)	BR19-29632	03167/7-BRWH ' - 'Freon R22, usage per pound.	21000083	Robert Degasperi	2
ED19-66144	09/21/2018	5 : Issue Part (WO)	ED19-66144	03167/7-EDWH ' - 'Freon R22, usage per pound.	32000025	Rogelio Arreola	4
BR19-29938	09/26/2018	5 : Issue Part (WO)	BR19-29938	03167/7-BRWH ' - 'Freon R22, usage per pound.	21000083	Robert Degasperi	2
BR19-29870	09/27/2018	5 : Issue Part (WO)	BR19-29870	03167/7-BRWH ' - 'Freon R22, usage per pound.	21000083	David Silva	1
BR19-29882	10/02/2018	5 : Issue Part (WO)	BR19-29882	03167/7-BRWH ' - 'Freon R22, usage per pound.	21000083	Robert Degasperi	3

Row Labels	Sum of Lb Usage
134A	0.8125
410A	65
R22	344
R404A	1
<b>Grand Total</b>	<b>410.8125</b>

Refrigerant and Chemicals





# Other Scope 1 – Fertilizer Data

Accounting Date	PO #	PR ID	Quantity	Unit Price	Extended	Amount/UOM & UOM	Product Description	Speed Chart	%Nitrogen	Weight (lbs)
6/18/2019	V000036051	119584555	1	170.66	170.66	1/EA	2.5GL PENDULUM AQUACAP	41000024	0	20.8635
1/22/2019	V000017269	113297655	2	215.02	430.03	1/EA	2.5 GL PRODIAMINE 4L PRE-EM	41000024	0	41.727
4/15/2019	V000028259	116930232	2	25.18	50.36	1/EA	16-8-8 fertilizer 50lbs	21000051	16	100
4/9/2019	V000027541	116661143	8	21.3	170.38	1/EA	SOCCER MAY BCF 28-3-10 50% UFLEXX 5FE	41000024	28	400
9/10/2018	V000001961	108114918	10	21.09	210.9	1/EA	BCF 0-0-22 K MAG	41000024	0	500
9/10/2018	V000001961	108114918	10	22.5	224.96	1/EA	BCF 16-0-16 40% UFLEX3FE.29PROD	41000024	16	500
9/11/2018	V000002430	108141535	10	21.09	210.9	1/EA	BCF 0-0-22 K MAG	41000024	0	500
9/14/2018	V000002778	108207396	10	21.09	210.9	1/EA	BCF 0-0-22 K MAG	41000024	0	500
3/11/2019	V000023691	115251663	10	20.37	203.7	1/EA	Fertilizer 50 lb bag.	21000048	20	500
4/8/2019	V000027289	116609161	10	21.09	210.9	1/EA	0-0-22 K MAG SOCCER	41000024	0	500
4/9/2019	V000027541	116661143	10	21.3	212.98	1/EA	BASEBALL MAY BCF28-3-10 50% UFLEXX 5FE	41000024	28	500
9/11/2018	V000002430	108141535	12	22.5	269.95	1/EA	BCF 16-0-16 40%UFLEX3FE .29PROD	41000024	16	500



# Other Scope 1 – Fertilizer

Data summarized by UTRGV:

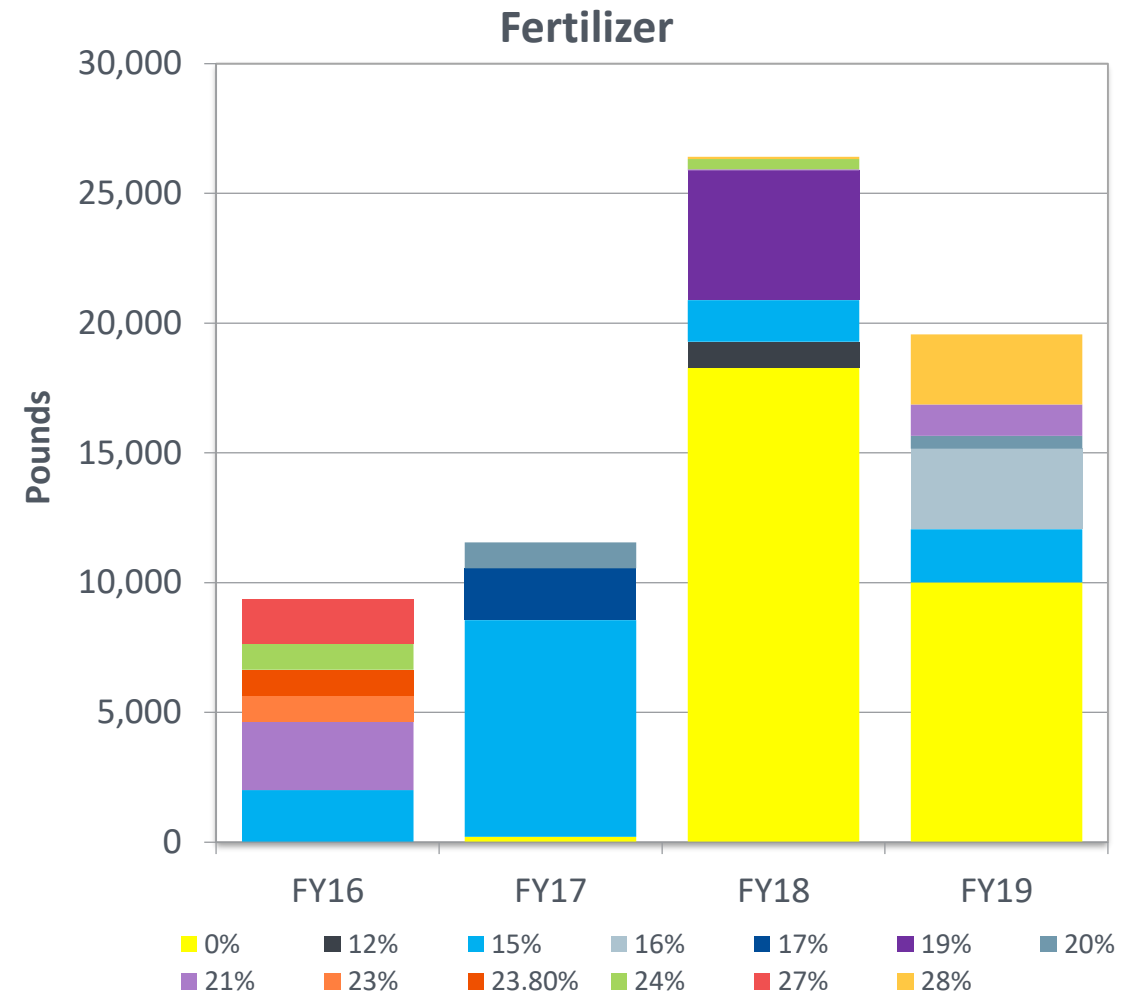
	Synthetic	% Nitrogen	Organic	% Nitrogen
Fiscal Year	Pounds	%	Pounds	%
2019	19557.833	303	0	0

Cannot take the sum of % nitrogen for each fiscal year

Sightlines Pivot:

Sum of Total Lbs	% N															
Fiscal Year		0	12	15	16	17	19	20	21	23	23.8	24	26	27	28	
2016				2000					2640	1000	1000	1000	2000	1700		
2017		200		8350		2000		1000								
2018		18282	1000	1600			5000		41.8			400			4350	
2019		10008		2050	3100			500	1200						2700	

Breaks out how many pounds of fertilizer have a specific % nitrogen



# Scope 2

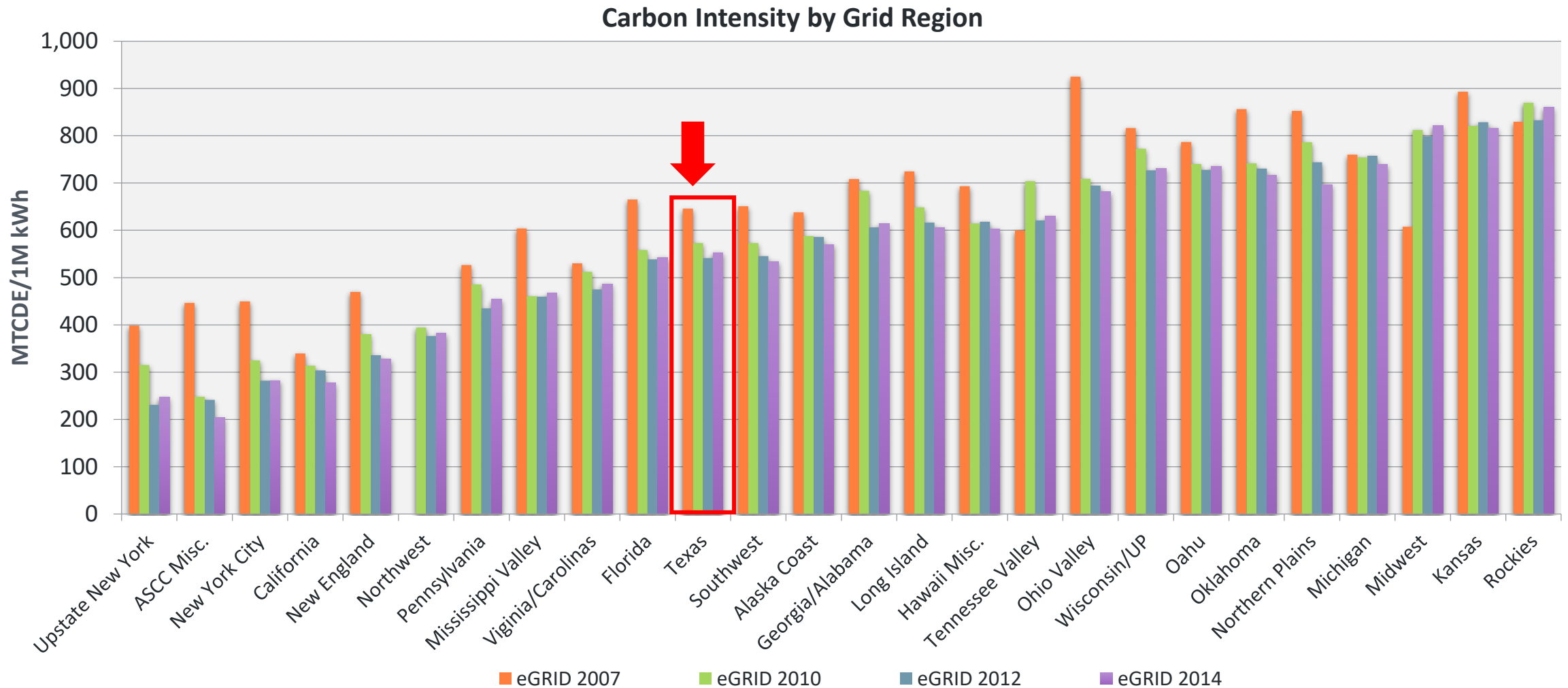


# Scope 2 Base Data

U.T. R.G.V. Energy & Water Data								
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Purchased Energy								
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2008	97,283,541	82,717	\$0.0870	\$10.1721	\$ 8,460,553	\$ 841,405	0	
2009	98,337,336	78,096	\$0.0858	\$8.2911	\$ 8,435,716	\$ 647,502	0	
2010	103,133,710	91,238	\$0.0824	\$6.0274	\$ 8,497,575	\$ 549,929	0	
2011	102,856,561	79,460	\$0.0831	\$5.5513	\$ 8,552,118	\$ 441,104	0	
2012	101,962,756	74,111	\$0.0701	\$4.7237	\$ 7,149,813	\$ 350,078	0	
2013	101,224,621	70,898	\$0.0658	\$5.7570	\$ 6,660,428	\$ 408,160	0	
2014	79,789,905	69,342	\$0.0705	\$6.3298	\$ 5,622,826	\$ 438,921	0	
2015	87,094,797	60,913	\$0.0737	\$5.8865	\$ 6,417,658	\$ 358,567	0	
2016	85,023,773	55,765	\$0.0752	\$3.8945	\$ 6,397,665	\$ 217,178	0	
2017	87,360,175	43,351	\$0.0692	\$5.4996	\$ 6,044,977	\$ 238,416	0	
2018E	90,596,169	63,744	\$0.0662	\$5.3280	\$ 5,997,915	\$ 339,628	0	
2019E	97,205,440	73,283	\$0.0644	\$5.7766	\$ 6,258,996	\$ 423,324	0	

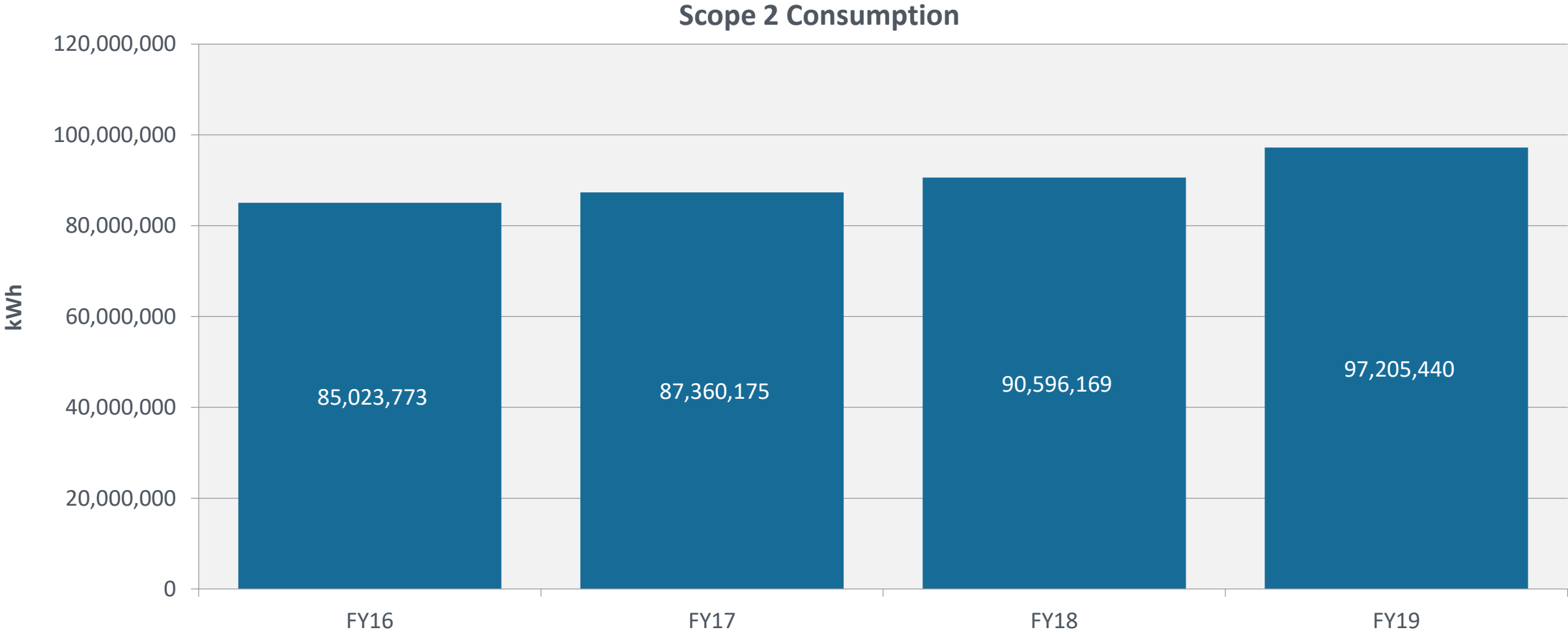
*Does the electricity consumption include solar data?*

# Texas Grid Getting Greener Since 2007



MTCDE = Metric Tons of Carbon Dioxide Equivalent

# Scope 2 Summary



# Scope 3



# Scope 3- Travel

Base Data from FY16-FY18:

	Air Travel	Other				
	Air Travel - Faculty and Students	Train	Taxi / Ferry / Rental Car	Bus	Alternative Fuel Bus	Personal Mileage Reimbur sement
Fiscal Year	Miles	Miles	Miles	Miles	Miles	Miles
2016	16063986	0	293905	0	0	0
2017	16985444	0	375228.9	0	0	0
2018	18678642	0	366804.1	0	0	0

*In this base data there is no split between individual and group air travel.*

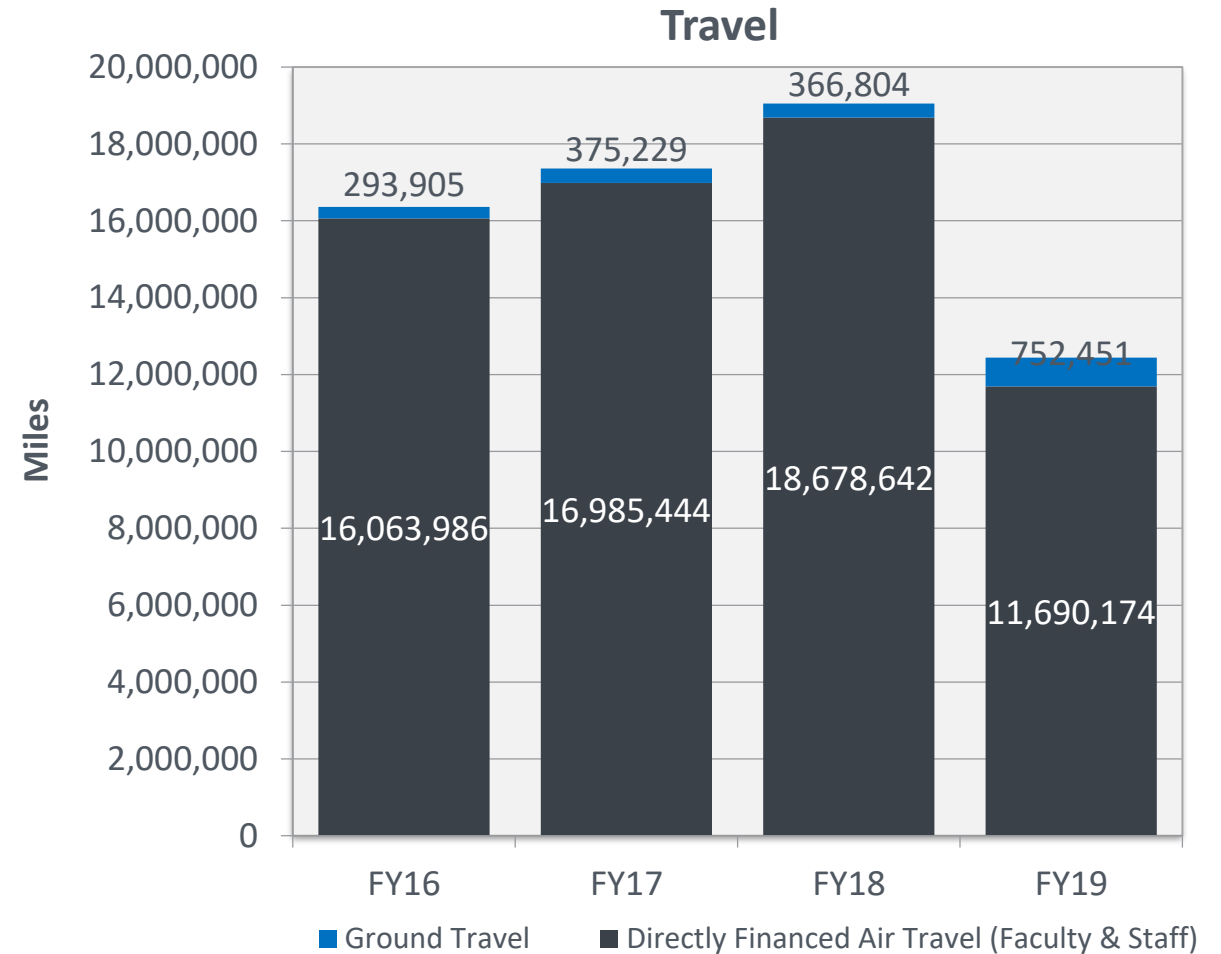


# Scope 3 – Travel

Base Data:

UTRGV AIR MILES FY 19	
Air individual	8,644,781
Air Group	3,045,393
Total Air	11,690,174
UTRGV CAR MILES FY 19	
Enterprise	631936
National	23565
Avis	46859
Budget	7267
Hertz	42824
Total Car	752451

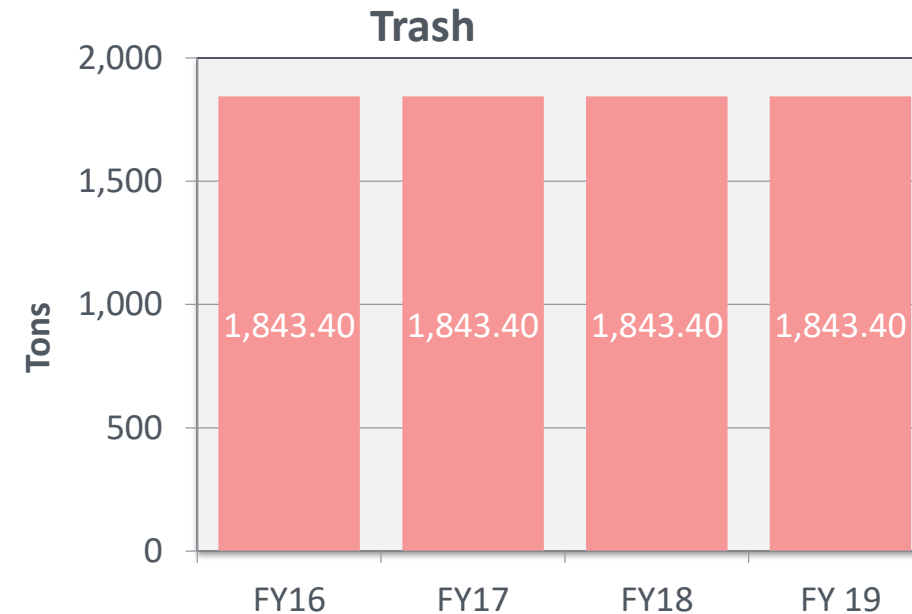
*Does the group air travel take into account the miles for every person each trip or is it the overall trip miles?*



# Scope 3 – Trash

Base Data:

Container #	Building Code	Location	# times Service/week	# times Service/year	Size (cubic yards)
10-253-04	Grounds Shop	Grounds Shop	3	156	4
00-004-08	Grounds Shop	Grounds Shop	3	156	8
08-087-08	Grounds Shop	Grounds Shop	3	156	8
14-314-04	EUREC	UREC	3	156	4
09-044-10	EBSBL	Baseball E32	3	156	10
00-09-03	EROTC	ROTC E26	3	156	3
06-067-04	EVLGA	Village Apt. E36	3	156	4
S/N 113591	ECOB	ECOB E15	3	156	4
14-317-04	ESSBL	ESSBL E4	3	156	4
00-93-04	ESSBL	ESSBL E4	3	156	4
03-161-04	ELABS	ELABS	3	156	4
19-058-04	ELABS	ELABS	3	156	4
07-107-03	ELABS	ELABS	3	156	3
No #s	ELABS	ELABS	3	156	2
	BASFC	Facilities	As needed	31	30
	BASFC	Facilities	As needed	31	30



*Is the estimate of 31 pickups a year still accurate for these two lines?*

Calculation:

- For each row, multiple **# times service/year** by **Size (cubic yards)** (i.e.  $156 \times 4$  in the first row)
- Take the sum of your calculations to get 40,964 total cubic yards
- Multiple 40,964 cubic yards by 90 to get 3,686,760 pounds (1 cubic yard = 90 pounds)
- Divide 3,686,760 pounds by 2000 to get 1,843.4 tons (1 ton = 2000 pounds)

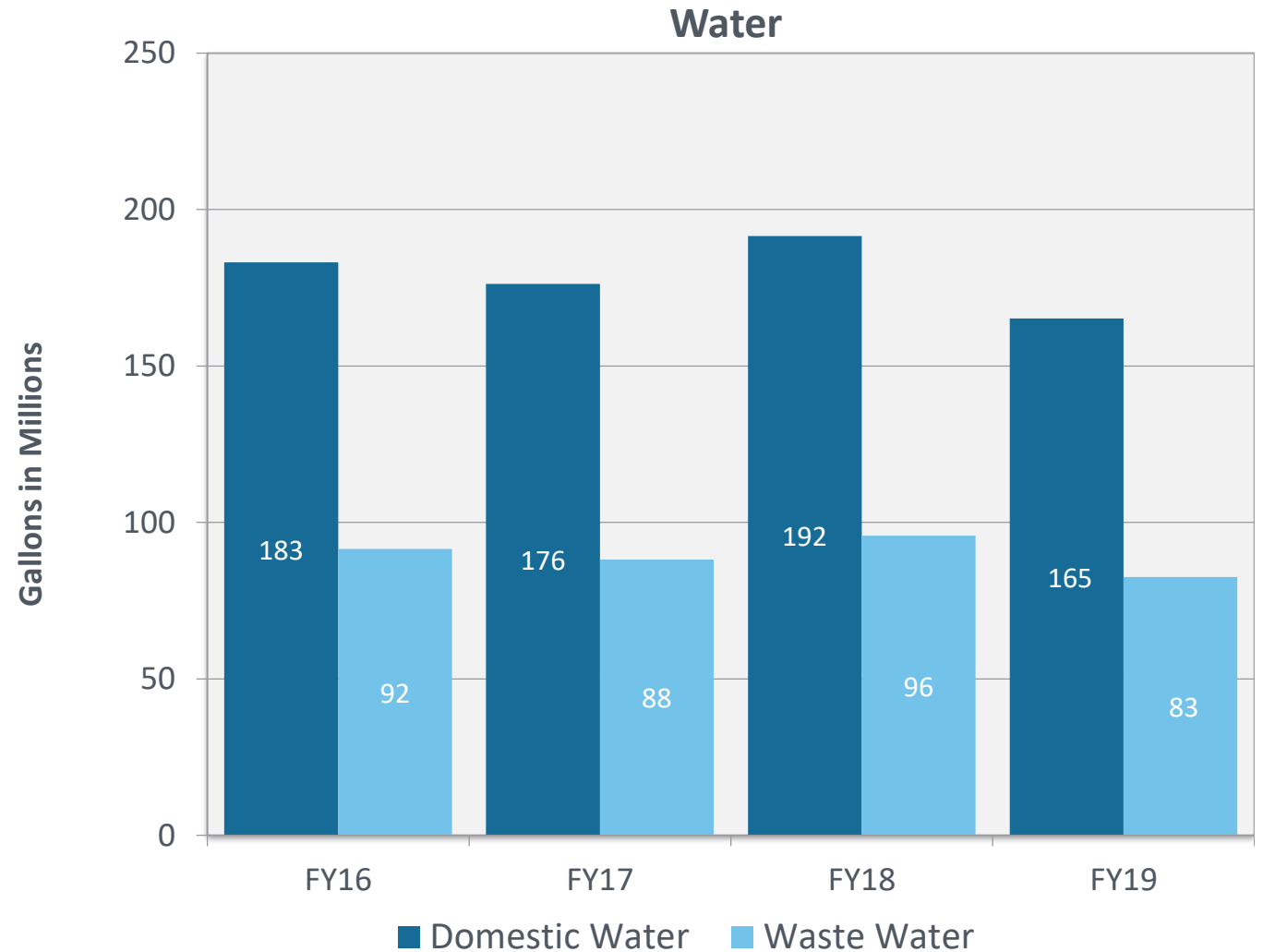
# Scope 3 – Water

Base Data:

	Water	
	Total	
	Water	Total
Fiscal Year	Consumption (MGal.)	Water Cost
2012	246,347	\$ 674,463
2013	243,202	\$ 657,085
2014	150,644	\$ 427,778
2015	127,938	\$ 380,614
2016	183,088	\$ 529,953
2017	176,231	\$ 546,813
2018E	191,559	\$ 676,205
2019E	165,152	\$ 512,560

Assumes waste water is equal to ½ domestic water

Assumes MGal is “milligal”  
1Mgal= 1000 gallons



# Scope 3 – Paper

Base data:

Product Description	Manufa	Mfr Cat	Amount	Quantit	Unit Pri	Unit Pri	Extended Price	Depart
1/2*11 White Boise USA Copy paper			1/EA	10	7.85		78.5	Campus A
1/23VMutrgv/XER 86601_ COPY Paper 8 1/2x11			1/CS	3	35.76		107.28	Student Ac
Astrobrights Cardstock Paper, 65 lbs, 8.5" x 11", Assorted Colors, 250/Pack (21004)	NEENAH P	21004/220	PK	1	15.59		15.59	Student U
Astrobrights Cardstock Paper, 65 lbs, 8.5" x 11", Assorted Colors, 250/Pack (21004)	NEENAH P	21004/220	PK	1	15.59		15.59	Engaged S
Astrobrights Cardstock Paper, 65 lbs, 8.5" x 11", Blast-Off Blue, 250/Pack (21911)	NEENAH P	WAU2191	PK	1	22.35		22.35	Military &
Astrobrights Cardstock Paper, 65 lbs, 8.5" x 11", Fireball Fuchsia, 250/Pack (22881)	NEENAH P	WAU2288	PK	1	23.81		23.81	College Ac
Astrobrights Cardstock Paper, 65 lbs, 8.5" x 11", Gamma Green, 250/Pack (22741)	NEENAH P	22741	PK	1	19.02		19.02	College Ac
Astrobrights Cardstock Paper, 65 lbs, 8.5" x 11", Plasma Pink, 250/Pack (22129)	NEENAH P	WAU2212	PK	3	14.19		42.57	Communie
Astrobrights Cardstock Paper, 65 lbs, 8.5" x 11", Solar Yellow, 250/Pack (22731)	NEENAH P	22731	PK	1	16.91		16.91	College Ac
Astrobrights Cardstock Paper, 65 lbs, 8.5" x 11", Terrestrial Teal, 250/Pack (21855/22109)	NEENAH P	21855 / 22	PK	1	13.63		13.63	College Ac
Astrobrights Inkjet, Laser Print Colored Paper - Letter - 8 1/2 x 11 - 24 lb Basis Weight - Smooth - 500 / Ream - Plasma Pink	NEENAH P	WAU2211	RM	1	14.89		14.89	Mathemat
Astrobrights Vintage Multipurpose Paper, 24 lbs, 8.5" x 11", Assorted Colors, 500/Pack (21224)	NEENAH P	21224/222	RM	5	13		65	Sociology
Astroparche Cardstock Paper, 65 lbs, 8.5" x 11" (US letter), Natural, 250/Pack (26428/27428)	NEENAH P	26428/274	PK	2	16.46		32.92	
Boise X-9 Multipurpose Copy Paper, LETTER-Size, 92/104+ US/Euro Brightness, 20 Lb., 8 1/2"H x 11"W, 5,000 Sheets/Ct	Boise Pape	OX9001-C	CS	5	31.1		155.5	
Boise X-9 Multipurpose Copy Paper, LETTER-Size, 92/104+ US/Euro Brightness, 20 Lb., 8 1/2"H x 11"W, 5,000 Sheets/Ct	Boise Pape	OX9001-C	CS	20	31.1		622	Chemistry
Boise X-9 Multipurpose Copy Paper, LETTER-Size, 92/104+ US/Euro Brightness, 20 Lb., 8 1/2"H x 11"W, 5,000 Sheets/Ct	Boise Pape	OX9001-C	CS	12	31.1		373.2	Mathemat
Boise X-9 Multipurpose Copy Paper, LETTER-Size, 92/104+ US/Euro Brightness, 20 Lb., 8 1/2"H x 11"W, 5,000 Sheets/Ct	Boise Pape	OX9001-C	CS	4	31.1		124.4	Physics an
Boise X-9 Multipurpose Copy Paper, LETTER-Size, 92/104+ US/Euro Brightness, 20 Lb., 8 1/2"H x 11"W, 5,000 Sheets/Ct	Boise Pape	OX9001-C	CS	1	31.1		31.1	Family Me
Boise X-9 Multipurpose Copy Paper, LETTER-Size, 92/104+ US/Euro Brightness, 20 Lb., 8 1/2"H x 11"W, 5,000 Sheets/Ct	Boise Pape	OX9001-C	CS	2	31.1		62.2	Health Ser
Boise X-9 Multipurpose Copy Paper, LETTER-Size, 92/104+ US/Euro Brightness, 20 Lb., 8 1/2"H x 11"W, 5,000 Sheets/Ct	Boise Pape	OX9001-C	CS	3	31.1		93.3	Clinical Af
Boise X-9 Multipurpose Copy Paper, LETTER-Size, 92/104+ US/Euro Brightness, 20 Lb., 8 1/2"H x 11"W, 5,000 Sheets/Ct	Boise Pape	OX9001-C	CS	2	31.1		62.2	College Ac
Boise X-9 Multipurpose Copy Paper, LETTER-Size, 92/104+ US/Euro Brightness, 20 Lb., 8 1/2"H x 11"W, 5,000 Sheets/Ct	Boise Pape	OX9001-C	CS	5	32.97		164.85	Financial S
Boise X-9 Multipurpose Copy Paper, LETTER-Size, 92/104+ US/Euro Brightness, 20 Lb., 8 1/2"H x 11"W, 5,000 Sheets/Ct	Boise Pape	OX9001-C	CS	20	32.97		659.4	Mathemat
Boise X-9 Multipurpose Copy Paper, LETTER-Size, 92/104+ US/Euro Brightness, 20 Lb., 8 1/2"H x 11"W, 5,000 Sheets/Ct	Boise Pape	OX9001-C	CS	5	32.97		164.85	Mathemat

# Scope 3 – Paper

## Sightlines base data manipulation

Product Description	% Recycled	Pounds	Pounds * Quantity	Quantity
1/2*11 White Boise USA Copy	0	20	200	10
1/23VMutrgv/XER 86601_COP	0	20	60	3
Astrobrights Cardstock Paper,	0	65	65	1
Astrobrights Cardstock Paper,	0	65	65	1
Astrobrights Cardstock Paper,	0	65	65	1
Astrobrights Cardstock Paper,	0	65	65	1
Astrobrights Cardstock Paper,	0	65	65	1

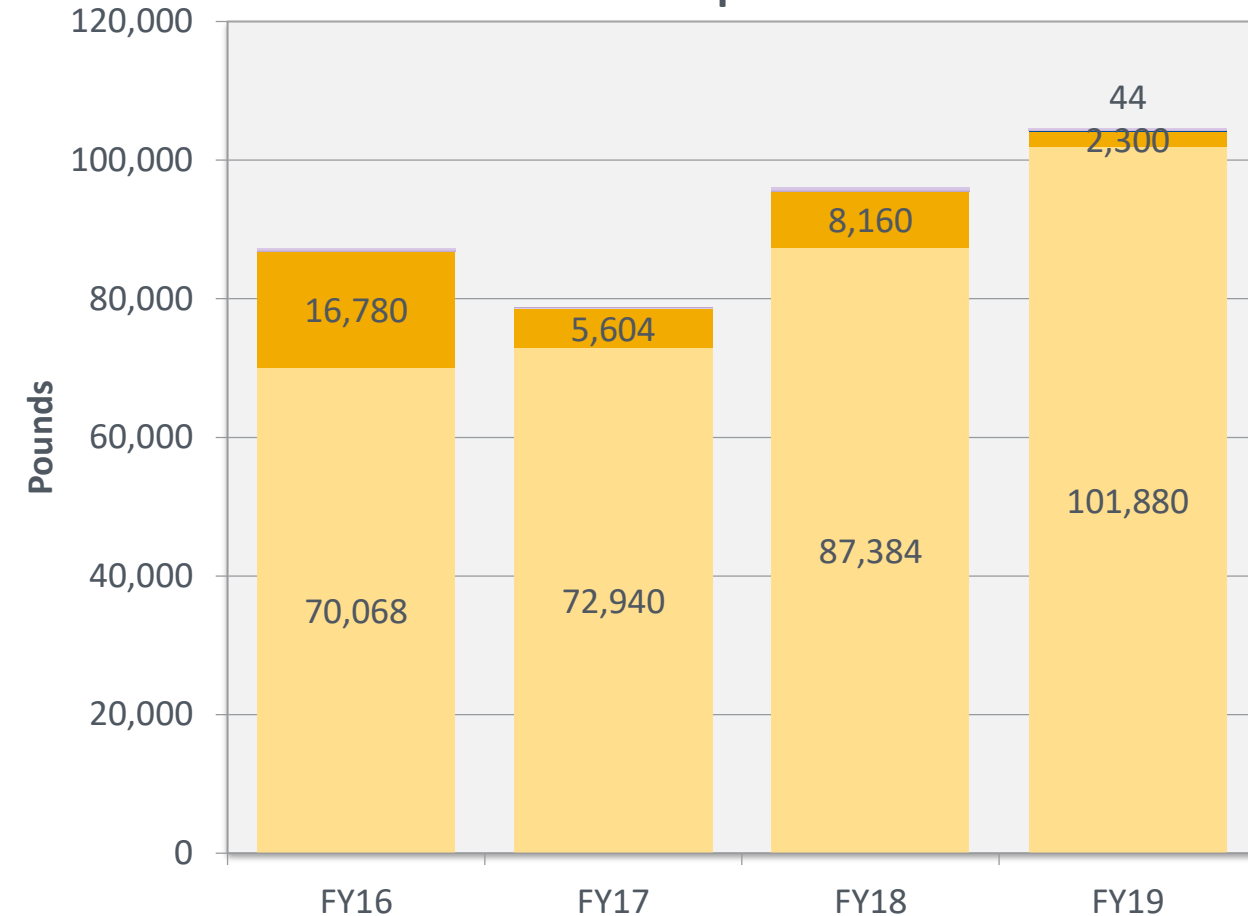


Sum of Pounds * Quantity	Column Labels				
Row Labels	0	30	50	100	Grand Total
FY16	70,068	16,780		468	87,316
FY17	72,940	5,604		128	78,672
FY18	87,384	8,160		480	96,024
FY19	101,880	2,300	44	408	104,632
Grand Total	332,272	32,844	44	1,484	366,644

Assumes lines with no pounds are 20 pounds

Assumes recycled paper with no % are 0%

## Paper



0% Recycled 30% Recycled 50% Recycled 100% Recycled

# Scope 3 – Commuting

Base Data:

Zip Code	# of zip codes	mileage per permit	Total mileage per zip code	
78545	2	158.6	317.2	zip codes in green are a further distance than a round trip between two campuses with is over 100 miles so considered impractical
78582	196	105.6	20697.6	
78584	89	147.4	13118.6	
78501	591	15.2	8983.2	
78502	15	15.2	228	
78503	220	26.8	5896	
78504	807	9.8	7908.6	
78505	4	19.8	79.2	
78516	234	37	8658	
78520	590	20	11800	
78521	739	24	17736	
78522	2	25.8	51.6	
78523	10	27.4	274	
78526	592	21.2	12550.4	
78535	4	59.4	237.6	

*Total # of commuters = Students + Employees  
=21,500*

*8 trips per week*

*15 weeks per semester*

Base Data:

Yearly permits sold approximately	
Students	18,000
Employees	3,500
Visitors	7,000
Total	28,500

# Scope 3 – Bus Data

Base Data:

Campus Connector	M-Th	F	Weslaco Connector	M-Th	F	Campus Circulator	Edinburg	Brownsville	EVABL	M-Th	RGC Connector	M-F	MTS	M-Th
Trip Mileage	67	67	Trip Mileage	23	23	Trip Mileage	1.76	2.89	Trip Mileage	3	Trip Mileage	10.1	Trip Mileage	13
Total Trips	11	9	Total Trips	5	4	Total Trips	44	30	Total Trips	7	Total Trips	2	Total Trips	6
Total Trip Mileage	737	603	Total Trip Mileage	115	92	Total Trip Mileage	77.44	86.7	Total Trip Mileage	21	Total Trip Mileage	20.2	Total Trip Mileage	78

Service Days	Total Svc Days	M-Th	Friday
Fall 2018	86	73	13
Spring 2019	77	65	12
Summer 2019	53	42	11

*Is this bus data from between the two campuses or a bus for commuters?*



# Commuting Survey is Available

## Sample of commuting survey we distribute:

Welcome,

Sustainability has become a focal point within institutions of higher education. We are currently conducting a campus-wide assessment of sustainability. Part of this evaluation is a quantification of our greenhouse gas emissions – our “carbon footprint”. While we are also assessing the impact of our carbon footprint, with this in mind, we are asking you to help us by completing this short, anonymous and confidential commuting survey. Your answers will complete.

Simply click on the “continue” button below to begin the survey. Please feel free to contact me with any questions you may have.

Thank you for participating in this effort.

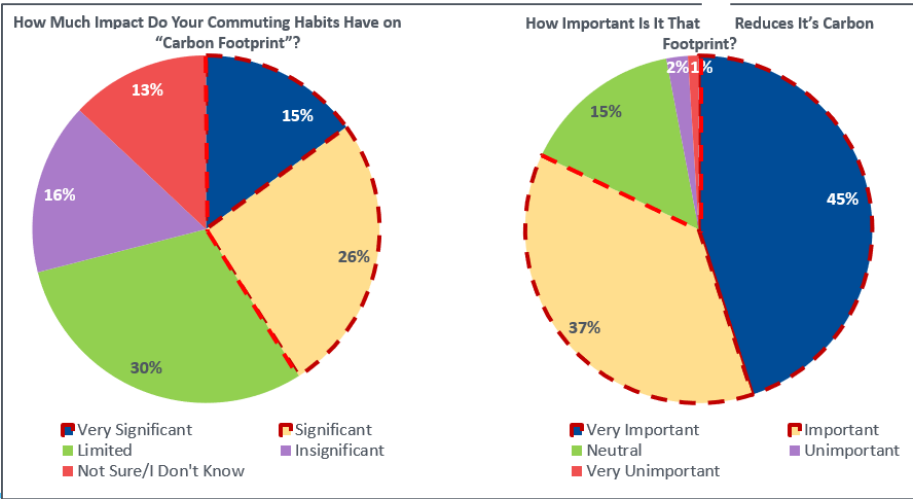
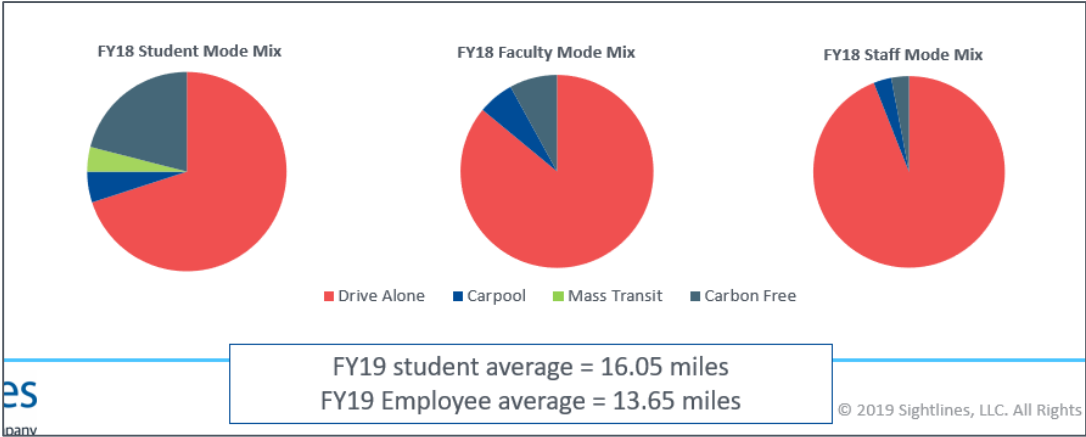
☐ Q8

Please indicate which modes of transportation you used to commute to campus during the week of

Click to write Column 1

	Don't Commute This Day	Drive Alone	Carpool (2-6)	Vanpool (7+)	Bus	Subway / T / Light Rail	Regional / Commuter Rail	Bike / Walk	Telecommute
Monday	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Tuesday	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Wednesday	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Thursday	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Friday	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Saturday	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Sunday	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

## Sample of results:

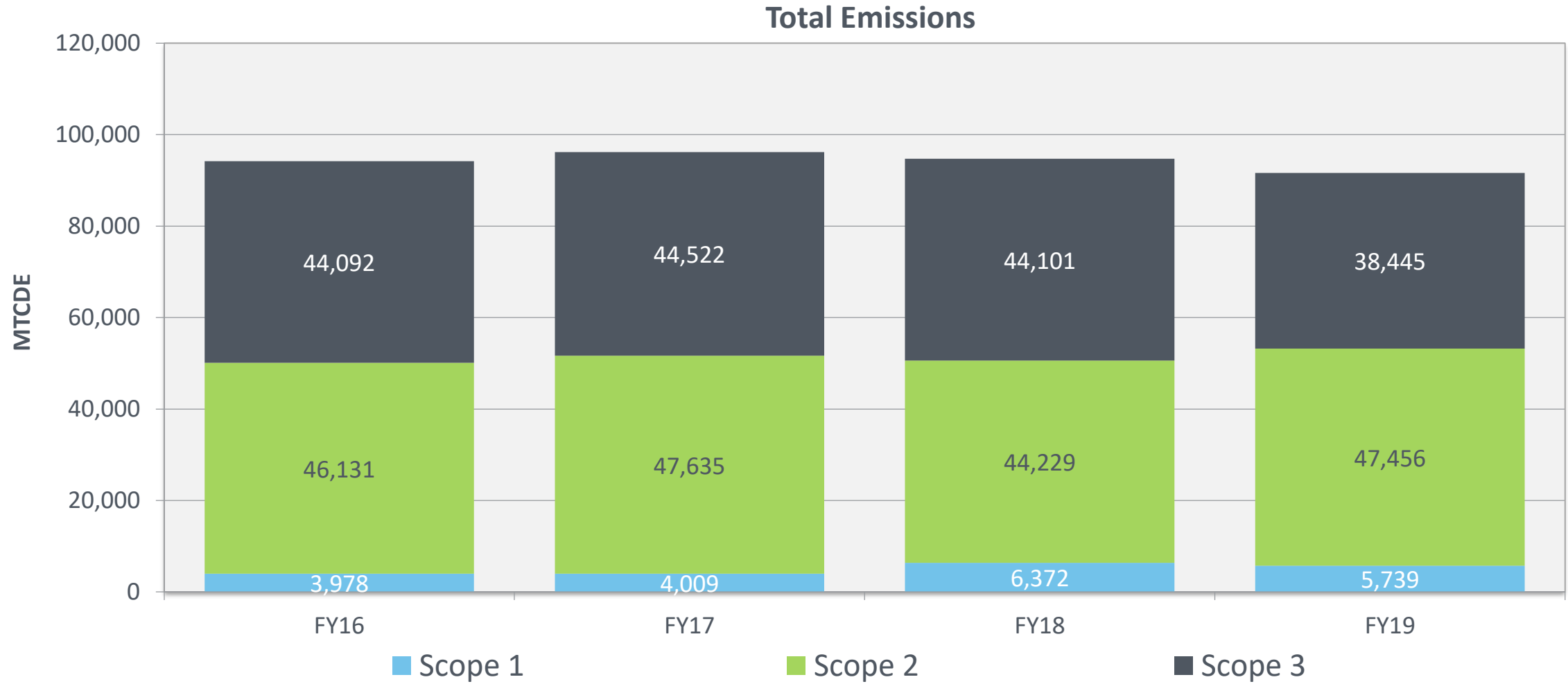


# Preliminary Look at Emissions



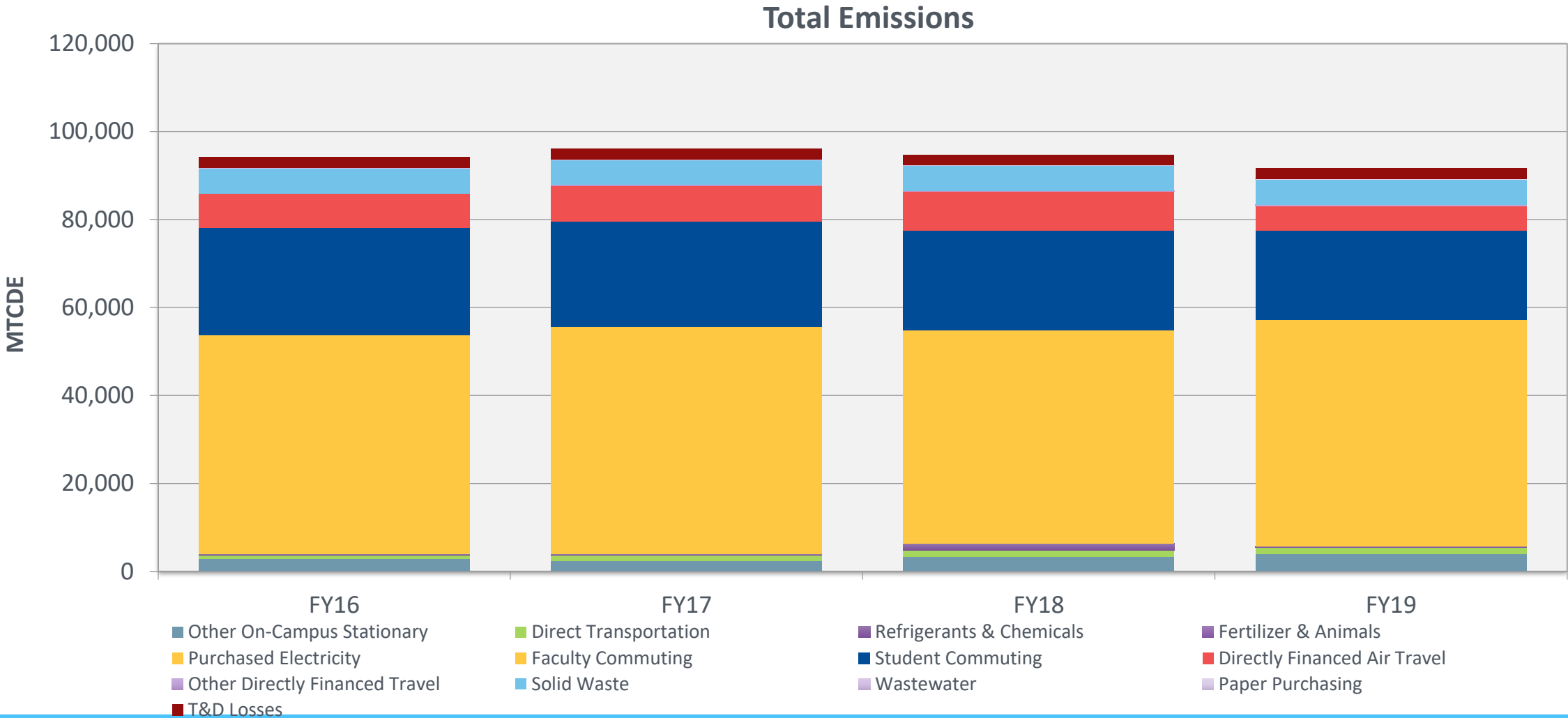
# Scope 2 and 3 Make Up Majority of Emissions

Results based off unqualified data

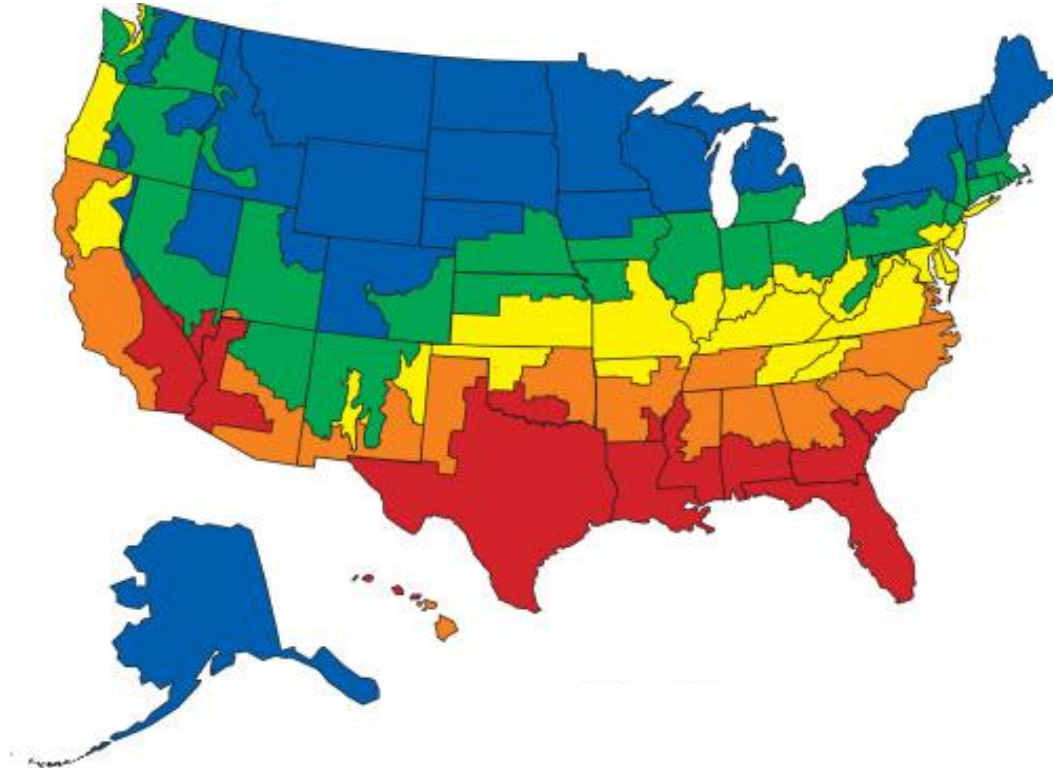


# Scope 2 and 3 Make Up Majority of Emissions

Results based off unqualified data



# Peer Institutions Used for Benchmarking



Institution	Size	Climate Zone	Urbanization
Arizona State University	23.2M GSF	5	Urban Fringe of a Large City
Clemson University	8.8M GSF	4	Urban Fringe of a Mid-Size City
George Mason University	7.5M GSF	3	Urban Fringe of a Large City
Northwestern University	14.5M GSF	2	Large City
Texas A&M University	18M GSF	5	Mid-Size City
The University of Alabama	12.2M GSF	5	Mid-size City
Towson University	5.8M GSF	3	Urban Fringe of a Large City
Virginia Commonwealth University	9.7M GSF	4	Mid-size City

## Sustainability Solutions Measurement and Analysis Members

- Sightlines has approximately 50 Sustainability Solutions Members
- Approximately two-thirds are private
- Approximately two-thirds have signed the ACUPCC
- Approximately forty percent are Charter Signatories

## Peer Group Based On

Size  
Technical Complexity  
Climate Zone