## Employment in the San Diego region *City of Coronado*



#### Fast facts

City of Coronado					
13,720	employees				
0.9%	region's employees				
14.1	land area (square miles)				
975.1	employees per square mile				

#### **Key contact** Ray Major Chief Economist (619) 595-5668

ray.major@sandag.org

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## Table of Contents

The statistics	. 3
The maps	. 5
Appendix A: Jurisdiction employment methodology, data sources, and other things to consider	. 9
Appendix B: Jurisdiction resident profile	11
Appendix C: Employment centers located within the City of Coronado	15

## Background

The San Diego region is a growing and dynamic place to live and work. As the community, policy makers, and other stakeholders collaborate regarding how we create transportation options for our residents that are competitive and environmentally responsible, it is essential we utilize the data we have regarding where people live and work to invest in strategies that will best serve our communities.

In spring 2019, the Data, Analytics, and Modeling Department of SANDAG applied data analytics to multiple data sources to better understand where employment centers are in the region, where the employees in these areas commute from, and what their commutes look like. The result of this analysis were packets describing over 70 employment centers across the San Diego region.

As a next step in this series, this packet describes employment in the **City of Coronado**, including maps showing where individuals who work in the City of Coronado live and how far they have to travel to get to their places of employment, where residents of Coronado travel to work, as well as a map that shows all of the travel to and from the City of Coronado regardless if for work, recreation, or any other reason. SANDAG 2018 demographic and socioeconomic estimates for the population of Coronado are included (Appendix B), as is the packet for the employment center located partially in the City of Coronado (as shown in the red outline on the cover of this packet and Appendix C). Because employment centers can cross jurisdictional boundaries and not all the employees in a jurisdiction are included in an employment center, it is important to note the number of employees in this employment center will not total the number of employees in this jurisdiction.

Because the data shared here are analyzed specifically for the purposes of these analyses, it is important to note that these results may differ from other sources. Additional information regarding the data sources and important factors to consider when interpreting this information are provided at the end of this packet (Appendix A).

#### Highlight 1

#### Industries in this jurisdiction and the region overall

	City of (	City of Coronado		gion
	Number of jobs	Percentage/ rank	Number of jobs	Percentage/ rank
Health care and social assistance	961	7% (5)	199,700	13% (1)
Retail trade	1,090	8% (4)	156,612	10% (2)
Professional, scientific, technical	642	5% (7)	148,766	10% (3)
Food services	1,961	14% (2)	131,594	9% (4)
Manufacturing	5	<1% (21)	109,234	7% (5)
Administrative, support, waste services	115	1% (14)	91,519	6% (6)
Construction	217	2% (13)	83,498	5% (7)
Local government education	809	6% (6)	80,300	5% (8)
Other services	249	2% (11)	69,124	5% (9)
Finance and insurance	250	2% (10)	47,848	3% (10)
Wholesale trade	109	1% (15)	46,625	3% (11)
Arts, entertainment, recreation	309	2% (9)	45,639	3% (12)
Real estate, rental, leasing	241	2% (12)	38,582	3% (13)
Local government	527	4% (8)	37,429	2% (14)
Transportation and warehousing	90	1% (16)	36,183	2% (15)
Accommodation	1,496	11% (3)	33,094	2% (16)
Educational services	58	<1% (17)	32,892	2% (17)
State government education	0	0% (22)	31,600	2% (18)
Information	53	<1% (18)	26,262	2% (19)
Department of Defense	4,525	33% (1)	22,500	1% (20)
Management of companies/enterprises	7	<1% (19)	21,500	1% (21)
Federal government	0	0% (23)	11,454	1% (22)
Farm	6	<1% (20)	9,000	1% (23)
Utilities	0	0% (24)	7,208	<1% (24)
State government	0	0% (25)	7,037	<1% (25)
Mining and logging	0	0% (26)	300	<1% (26)
Total	13,720		1,525,500	

Source: SANDAG Employment Estimates, 2016

#### Highlight 2

Other statistics about the education level and income of employees in this jurisdiction

**19%** have Bachelor's degree or higher (24% region) **\$58,207** mean employee salary (\$55,801 region) these jobs represent **0.9%** of the region's jobs these incomes represent **0.9%** 

of regional labor income

Sources: SANDAG Employment Estimates, 2016; LEHD LODES OD, 7.3, 2015

#### Highlight 3

What mode of transportation employees in this jurisdiction use to get to work during peak period

	Drive alone	Transit	Carpool	Bike	Walk
				ৰ্ণত	Ŕ
City of Coronado	75%	4%	10%	11%	2%
Region	80%	4%	13%	2%	1%

Source: SANDAG Activity Based Model, 2016

#### Highlight 4

How far employees drive on average to get to this jurisdiction during peak period and how long it takes them on average, by transportation mode

	City of C	Coronado	Reg	gion
	Mean number of miles	Mean length of time (Minutes)	Mean number of miles	Mean length of time (Minutes)
Vehicles	12.0	22.5	12.0	25.1
Transit	11.6	72.0	10.7	62.8
Bike	1.1	5.4	4.3	21.6
Walk	0.4	8.6	1.2	23.2

Note: Peak period includes 6:00 a.m. to 8:59 a.m. and 3:30 p.m. to 6:59 p.m. Source: SANDAG Activity Based Model, 2016

#### Highlight 5

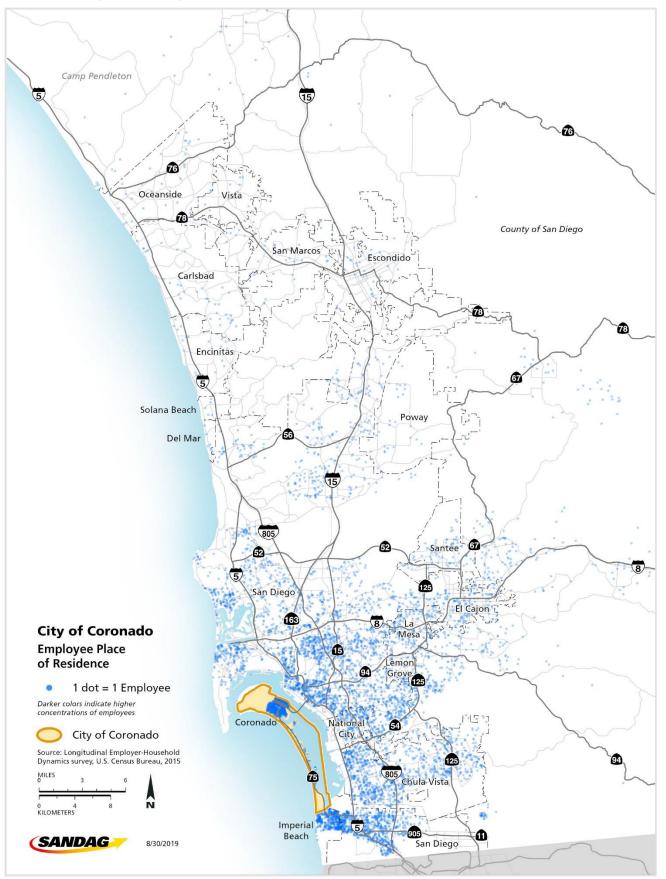
## Where employees travel from to work in the City of Coronado

Jurisdiction	Number of workers who travel from jurisdiction to the City of Coronado	Percent
San Diego	3290	48%
Coronado	909	13%
Chula Vista	901	13%
Unincorporated	557	8%
Imperial Beach	450	7%
National City	193	3%
La Mesa	156	2%
El Cajon	128	2%
Santee	77	1%
Lemon Grove	54	1%
Oceanside	37	1%
Carlsbad	35	1%
Escondido	33	1%
Poway	25	<1%
San Marcos	23	<1%
Encinitas	22	<1%
Vista	12	<1%
Del Mar	6	<1%
Solana Beach	5	<1%
Total	6,913	

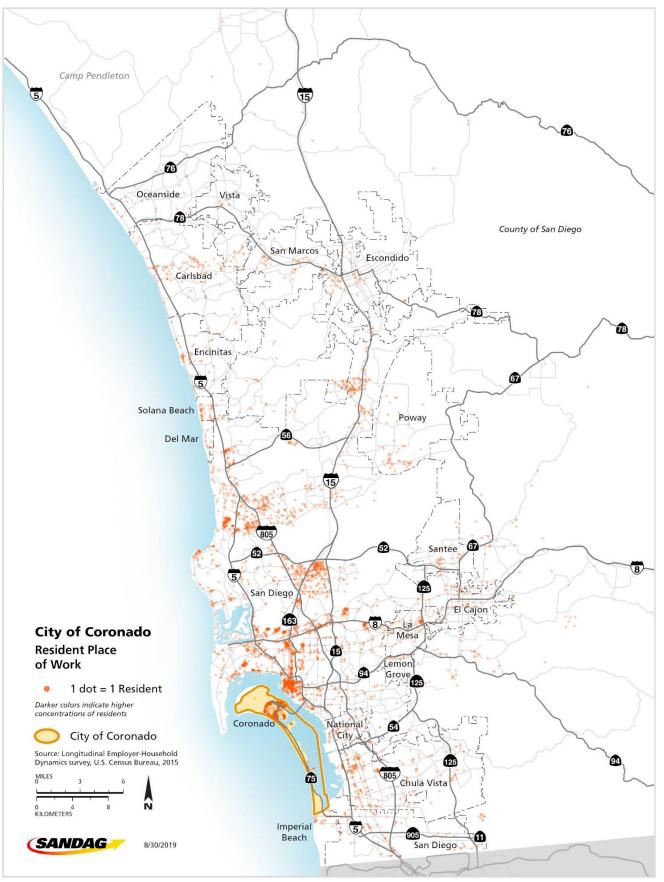
Note: The total number of employees shown here is lower than presented elsewhere because employees who travel from outside the region or have an unknown origin location are excluded and only primary jobs are included.

Source: SANDAG Employment Estimates, 2016; LEHD LODES OD, 7.3, 2015

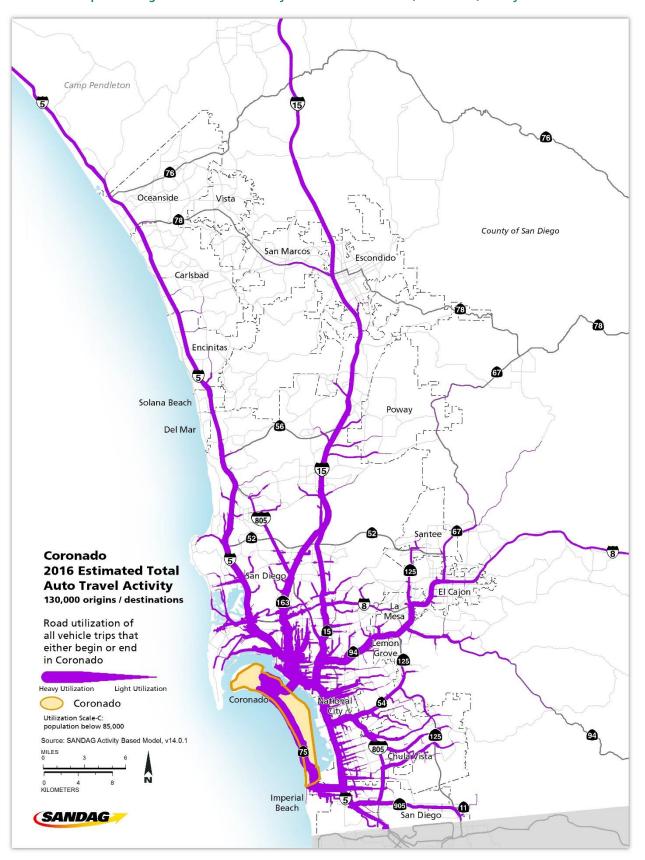
#### Map 1 Where do employees in the City of Coronado live?



#### Map 2 Where do residents of Coronado work?



#### Map 3 All automobile trips that originate or end in the City of Coronado for work, recreation, or any other reason



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# Appendix A: Jurisdiction employment methodology, data sources, and other things to consider

#### Methodology

As a supplement to the employment center products and presentations, SANDAG has prepared this packet to showcase jurisdiction employment data. This packet was created using the same source data and methodology as the employment center products. Employment centers represent areas of employment concentration, whereas this packet refers to the jurisdictional employment in whole.

Additional technical information regarding this methodology is available by contacting the Data, Analytics, and Modeling Department at SANDAG.

#### Data sources and other things to consider

#### Longitudinal Employer-Household Dynamics (LEHD) Origin-Destination Employment Statistics (LODES) 7.3 (2015)

The Longitudinal Employer-Household Dynamics (LEHD) Origin-Destination Employment Statistics (LODES) data are a publicly available product of the U.S. Census Bureau. The LODES data are an extract of the LEHD infrastructure which is composed of administrative records, census, and survey data. The LODES data provide counts of unemployment insurance-covered wage and salary jobs, including private sector and state, local and some federal government jobs. Workplace location and residential location of an employee is measured at the census block-level (2010). The 2015 data that are used here reflect the latest available data (version 7.3) at the time of this analysis and included two primary tables: Original-Destinations (OD) (used in Highlight 5 and Maps 1 and 2), and Workplace Area Characteristics (WAC) (Highlight 2). It should be noted these data (1) contain wage and salary jobs (and exclude self-employed individuals); (2) do not include military and other security-related federal agencies, postal workers, some employees at nonprofits and religious institutions, and informal workers; (3) only includes an individual's primary job if an individual has more than one; and (4) education attainment includes only workers age <u>30 or older</u>. Additional information is available at https://lehd.ces.census.gov/data/.

#### SANDAG Employment Estimates (2016)

On a regular basis, SANDAG produces estimates of employment and individual earnings for the San Diego region. These estimates were used in Fast facts and Highlights 1, 2, and 5. These estimates utilize California Employment Development Department (EDD) data, the Quarterly Census of Employment and Wages (QCEW) data, and the LEHD LODES data from the U.S. Census Bureau among other sources. <u>The employment estimates include wage and</u> salary for private sector and government workers, as well as the self-employed. Uniformed military are not included; however, U.S. Department of Defense (DOD) civilian workers have been assigned to military bases. Tribal government jobs are included where data were available. Additional information regarding these estimates is available by contacting the Economic and Demographic Analysis Modeling team at SANDAG.

#### SANDAG Population and Housing Estimates (2016)

Each year SANDAG produces estimates of population and housing for the San Diego region. These estimates utilize several data sources including the California Department of Finance, the U.S. Census Bureau, and a variety of other publicly available datasets. These small-area estimates contain information on the characteristics of the population (ethnicity, age, sex) and housing units (occupied, vacant, unoccupiable) in the region. The population living in military barracks, college dorms and other institutional facilities are included in the population and are counted in housing referred to as Group Quarters. The active military population and their dependents who live in households are included in the household population counts. The population and housing estimates are created in a process similar to the Regional Growth Forecast and contain similar information, however the Population and Housing Estimates reflect current conditions. These data are in Appendix B. Additional information regarding these estimates is available by contacting the Economic and Demographic Analysis Modeling team at SANDAG.

#### SANDAG Activity Based Transportation Model (2016)

To plan and complete regional transportation projects, SANDAG creates and maintains a transportation model which uses a variety of regional transportation survey and socioeconomic and demographic data (e.g., count of trips from home to work, how people carpool, what bus routes are most frequented, and which highways are used and when). These data are then utilized in the Activity Based Model (ABM) to simulate individual and household transportation choices. These choices include how individuals travel around the region (the mode), why people travel around the region (the trip purpose), and when they travel (time of day). The ABM model is refined based on transportation data and expert feedback on methodology and data sources. For this analysis, SANDAG utilized release version 14.0.1 of ABM to estimate travel for the year 2016 (reference scenario #232). Data in both Highlight 3 and 4 are restricted only to transportation trips in the model in which (1) the trip begins at home and ends at work and does not have any intermediary stops (e.g., dropping a child at school); and (2) the trip's purpose is work and (3) the trip start time is during peak periods which are defined as 6:00 a.m. to 8:59 a.m. and 3:30 p.m. to 6:59 p.m. Transit travel time includes walk time to transit stop, initial wait time, in vehicle time, transfer wait time, and walk time to the destination. Map 3 includes all auto trips (work and non-work related) to and from the City of Coronado. The margin of error might be larger for small jurisdictions with few work trips and all trips Additional information about the ABM is available here:

sandag.org/index.asp?subclassid=120&fuseaction=home.subclasshome

## **Appendix B: Jurisdiction resident profile**

#### Demographic and Socioeconomic Estimates Jurisdiction Coronado



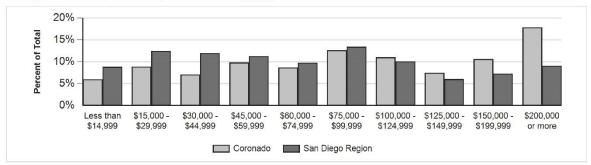
	Jan 1, 2018
Total Population	21,683
Household Population	18,033
Group Quarters Population	3,650
Persons Per Household	2.38
Housing and Occupancy	Total

	Housing Units	Households	Vacancy Rate
Total Housing Units	9,574	7,590	20.7%
Single Family - Detached	4,302	3,656	15.0%
Single Family - Attached	1,175	859	26.9%
Multi-Family	4,097	3,075	24.9%
Mobile Home and Other	0	0	

#### Household Income

#### Households by Income Category (2010 \$, adjusted for inflation)

	Less than \$15,000	\$15,000- \$29,999	\$30,000- \$44,999	\$45,000- \$59,999	\$60,000- \$74,999	\$75,000- \$99,999	\$100,000- \$124,999	\$125,000- \$149,999	\$150,000- \$199,999	\$200,000 or more
% of Total	6%	9%	7%	10%	9%	13%	11%	7%	11%	18%
Median House	ehold Income			2018						
Adjusted for	Inflation (2010 \$)			\$93,880						
Not adjusted	for inflation (curre	ent 2017\$)		\$105,863						



#### IMPORTANT ADVISORY:

Caution should be taken when using data for small population groups, particularly at small levels of geography. Minor adjustments were made (such as correcting the location of housing units that were erroneously allocated by the Census Bureau to roads and open space) to more accurately reflect the region's true population and housing distribution.

In addition, Census 2010 does not include information about structure type or household income. Those details and other demographic estimates shown here are developed from other sources, including the California Department of Finance E-5 estimates for cities and the County of San Diego; San Diego County Assessor Records, vital events records from the California Department of Health, and income data from the U.S. Census Bureau American Community Survey.

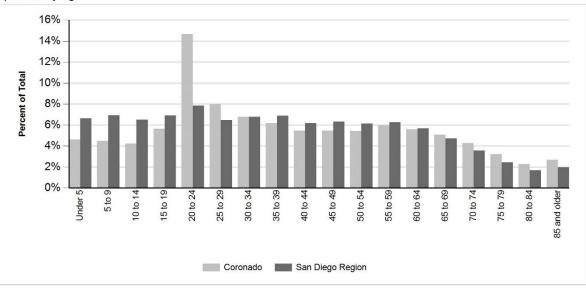
Caution should always be taken when using data for small population groups, particularly at small levels of geography.

Source: SANDAG, Current Estimates SANDAG www.sandag.org May 25, 2019 Coronado Page 1 of 3

#### Population by Age and Sex

	Total	Male	Female	Percent Female
Total Population	21,683	11,905	9,778	45%
Under 5	1,001	547	454	45%
5 to 9	973	522	451	46%
10 to 14	919	483	436	47%
15 to 17	603	321	282	47%
18 and 19	620	390	230	37%
20 to 24	3,177	2,255	922	29%
25 to 29	1,733	1,143	590	34%
30 to 34	1,472	823	649	44%
35 to 39	1,337	761	576	43%
40 to 44	1,183	620	563	48%
45 to 49	1,184	564	620	52%
50 to 54	1,177	588	589	50%
55 to 59	1,292	634	658	51%
60 and 61	469	219	250	53%
62 to 64	744	345	399	54%
65 to 69	1,098	513	585	53%
70 to 74	931	425	506	54%
75 to 79	699	311	388	56%
80 to 84	491	217	274	56%
85 and older	580	224	356	61%
Under 18	3,496	1,873	1,623	46%
65 and older	3,799	1,690	2,109	56%
Median Age	36.3	31.8	42.7	N/A





Source: SANDAG, Current Estimates SANDAG www.sandag.org May 25, 2019 Coronado Page 2 of 3

#### Population by Race, Ethnicity and Age

			N	on-Hispanic		
	Hispanic	White	Black	American Indian	Asian & Pacific Isl.	All Othe
Total Population	3,466	15,538	895	117	926	74
Under 5	275	621	14	7	41	43
5 to 9	288	593	11	3	20	58
10 to 14	220	587	12	5	25	70
15 to 17	150	373	18	4	19	3
18 and 19	137	369	46	5	17	40
20 to 24	575	1,948	376	20	117	14
25 to 29	288	1,164	153	15	60	5
30 to 34	217	1,022	72	8	88	6
35 to 39	203	926	65	15	81	4
40 to 44	221	802	32	7	85	3
45 to 49	185	858	20	9	85	2
50 to 54	178	894	17	0	54	3
55 to 59	180	992	20	6	65	2
60 and 61	45	382	12	2	20	2000 C
62 to 64	63	630	6	2	31	1
65 to 69	84	951	8	5	36	1
70 to 74	51	834	4	2	30	1
75 to 79	40	626	4	1	25	
80 to 84	33	436	2	0	16	
85 and older	33	530	3	1	11	
Under 18	933	2,174	55	19	105	21
65 and older	241	3,377	21	9	118	33
Median Age	26.5	41.0	24.6	29.8	39.7	24.

Source: SANDAG, Current Estimates SANDAG www.sandag.org May 25, 2019 Coronado Page 3 of 3 Page intentionally left blank.

## Appendix C: Employment center located within the City of Coronado

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May 2019

## Coronado employment center

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Tier 4 employment centers in the San Diego region<sup>1</sup>: An analysis of where people live and work

Highlight 1

Characteristics of this employment center

5,449 employees	<b>61st</b> largest employment center of the 79	.48 square miles	<b>11,352</b> employees per square mile	<b>2.9</b> of emplin this ecenter a in this ecenter
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Sources: SANDAG Employment Estimates, 2016; LEHD LODES OD, 7.3, 2015

#### Highlight 2

Industries in this employment center and the region overall

	Coronado employment center		Region	
	Number of jobs	Percentage/ rank	Number of jobs	Percentage/ rank
Health care and social assistance	774	14% (3)	199,700	13% (1)
Retail trade	702	13% (4)	156,612	10% (2)
Professional, scientific, technical	354	7% (5)	148,766	10% (3)
Food services	1,568	29% (1)	131,594	9% (4)
Manufacturing	2	<1% (17)	109,234	7% (5)
Administrative, support, waste services	98	2% (11)	91,519	6% (6)
Construction	206	4% (7)	83,498	5% (7)
Local government education	0	0% (19)	80,300	5% (8)
Other services	159	3% (9)	69,124	5% (9)
Finance and insurance	212	4% (6)	47,848	3% (10)
Wholesale trade	5	<1% (16)	46,625	3% (11)
Arts, entertainment, recreation	166	3% (8)	45,639	3% (12)
Real estate, rental, leasing	145	3% (10)	38,582	3% (13)
Local government	0	0% (20)	37,429	2% (14)
Transportation and warehousing	43	1% (13)	36,183	2% (15)
Accommodation	910	17% (2)	33,094	2% (16)
Educational services	54	1% (12)	32,892	2% (17)
State government education	0	0% (21)	31,600	2% (18)
Information	42	1% (14)	26,262	2% (19)
Department of Defense	0	0% (22)	22,500	1% (20)
Management of companies/enterprises	7	<1% (15)	21,500	1% (21)
Federal government	0	0% (23)	11,454	1% (22)
Farm	2	<1% (18)	9,000	1% (23)
Utilities	0	0% (24)	7,208	<1% (24)
State government	0	0% (25)	7,037	<1% (25)
Mining and logging	0	0% (26)	300	<1% (26)
Total	5,449		1,525,500	

Source: SANDAG Employment Estimates, 2016

<sup>1</sup> This data summary was prepared by SANDAG and is part of an evolving analysis of where people live and work in the San Diego region. Tier 4 employment centers are those between 2,000 and 14,999 employees. For data notes, sources, and qualifications, please visit: sandag.org\employmentcenters. Suggested reference: SANDAG (2019, May). *Tier 4 employment centers in the San Diego region: Coronado employment center.* San Diego, CA: Author.

#### Highlight 3

Other statistics about the education level and income of employees in this employment center

<b>18%</b> have Bachelor's degree or higher (24% region)	\$54,509 mean employee salary (\$55,801 region)	these jobs represent <b>.4%</b> of the region's jobs	these incomes represent <b>.4%</b> of regional labor income
ources: SANDAG Employment Est	imates, 2016; LEHD LODES OD, 7.3, 2	2015	
ighlight 4			

What mode of transportation these employment center employees use to get to work during peak period?

	Drive alone	Transit	Carpool	Bike	Walk
				್ಂ	沃
Coronado employment center	77%	7%	13%	1%	1%
Region	80%	4%	13%	2%	1%

Source: SANDAG Activity Based Model, 2016

#### Highlight 5

How far employees drive on average to get to this employment center during peak period and how long it takes them on average, by transportation mode

		Coronado employment center		Region		
	Mean number of miles	Mean length of time (Minutes)	Mean number of miles	Mean length of time (Minutes)		
Vehicles	13.1	24.0	12.0	25.1		
Transit	11.7	71.0	10.7	62.8		
Bike	3.5	17.5	4.3	21.6		
Walk	.8	16.4	1.2	23.2		

Note: Peak period includes 6:00 a.m. to 8:59 a.m. and 3:30 p.m. to 6:59 p.m. Source: SANDAG Activity Based Model, 2016

#### Highlight 6

### What jurisdictions these employment center employees travel from

Jurisdiction	Number of workers in the employment center	Percent
San Diego	1,409	49%
Coronado	389	14%
Chula Vista	373	13%
Unincorporated	229	8%
Imperial Beach	153	5%
National City	77	3%
La Mesa	60	2%
El Cajon	56	2%
Lemon Grove	30	1%
Santee	27	1%
Oceanside	20	1%
Escondido	16	1%
Carlsbad	14	1%
Poway	11	<1%
San Marcos	9	<1%
Encinitas	8	<1%
Vista	5	<1%
Del Mar	5	<1%
Solana Beach	1	<1%
Total	2,892	

Note: The total number of employees shown here is lower than presented elsewhere because employees who travel from outside the region or have an unknown origin location are excluded and only primary jobs are included.

Source: SANDAG Employment Estimates, 2016; LEHD LODES OD, 7.3, 2015

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Map 1

