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**SUBMITTAL TO THE BOARD OF DIRECTORS OF THE  
REDEVELOPMENT AGENCY  
COUNTY OF RIVERSIDE, STATE OF CALIFORNIA**



**FROM:** Redevelopment Agency

**SUBMITTAL DATE:**  
July 5, 2011

**SUBJECT:** Evaluation of Assembly Bills x1-26 and x1-27

**RECOMMENDED MOTION:** That the Board of Directors receive and file the attached reports on the Redevelopment Agency for the County of Riverside.

**BACKGROUND:** On June 29, 2011, Governor Brown signed Assembly Bills x1-26 and x1-27 (ABx1 26 and ABx1 27), which pertains to redevelopment agencies throughout the state. ABx1 26 eliminates redevelopment agencies and ABx1 27 creates an alternative redevelopment program. Under the approved legislation, the Redevelopment Agency for the County of Riverside (RCRDA) will have to pay approximately \$31.7 million in FY 11/12 and \$7.5 million in FY 12/13 to the State of California to be allowed to continue to function as a redevelopment agency.

Under the direction of its Board of Directors, RCRDA has completed many worthwhile projects in every supervisorial district. These projects have improved the quality of life for many residents throughout the county; current examples include the ongoing Mecca revitalization project, the Mission Palms and Mission Village senior housing projects in Rubidoux, the Thermal Sheriff's Station and Fire Station, and the recently approved Mead Valley community center and library projects.

(Continued)

Robert Field  
Executive Director

**FINANCIAL  
DATA**

Current F.Y. Total Cost:	\$ 0	In Current Year Budget:	N/A
Current F.Y. Net County Cost:	\$ 0	Budget Adjustment:	N/A
Annual Net County Cost:	\$ 0	For Fiscal Year:	2011/12

**COMPANION ITEM ON BOARD OF SUPERVISORS AGENDA:** No

**SOURCE OF FUNDS:** Redevelopment

Positions To Be Deleted Per A-30	<input type="checkbox"/>
Requires 4/5 Vote	<input type="checkbox"/>

**C.E.O. RECOMMENDATION:**

**APPROVE**

BY:

County Executive Office Signature

Jennifer L. Sargent

- Dep't Recomm.:  Consent
- Per Exec. Ofc.:  Consent
- Policy
- Policy

Prev. Agn. Ref.:

District: ALL

Agenda Number

4.6

**BACKGROUND:** (continued)

Completed public facility projects include the Perret Park Improvement Project, the Eddie Dee Smith Senior Center Rehabilitation Project, the Rubidoux Library, the Jurupa Sheriff's Station, the Valle Vista Sheriff's Station, the Murrieta Senior Center, the Roy Wilson Fire Station and Training Center, the Mecca Clinic and Farmworker Service Center, the Nuevo Dental Clinic, the Romoland Community Center, Eller Park, and many others. Other projects have constructed sidewalk improvements, storm drains, road improvements, and road and street improvements. A listing of representative projects from various categories is included as Attachment A. Other RCRDA-funded activities include façade improvements, graffiti abatement, homebuyer assistance, home improvement programs, mobile home tenant loans, demolition grants, and senior home repair.

The neediest residents of the county will have far fewer options available for affordable housing, as the 1,200 units of low income housing currently planned to be built with RCRDA housing funds will have to be delayed until funding becomes available. Over 6,500 affordable housing units have been built with RCRDA housing funds since the inception of the agency, but the need for affordable housing continues to soar as a result of the state of the economy, and the effect of ABx1 26 and ABx1 27 will only exacerbate the problem.

RCRDA will be able to make the required payments to the state, but doing so will limit the number and type of projects that can be initiated. This will have repercussions throughout the region, as these projects employ many different private sector firms and who collectively employ thousands of local residents, from professionals to members of the numerous trade unions that are active in the region. The economic impact from reducing the number of projects contracted for by RCRDA will have a sustained ripple effect on the county's economy.

A report prepared by the Rose Institute of State and Local Government at Claremont McKenna College notes that RCRDA generated \$678 million in economic activity within the county over the past five years. In addition, RCRDA activity has resulted in \$172 million in earnings for county residents over the same period, and generated 4,156 jobs and \$5.8 million in sales tax for County of Riverside. The Rose Institute's report is included as Attachment B.

The Redevelopment Agency for the County of Riverside has been extremely active and will continue perform its core mission of improving conditions and opportunities in the most disadvantaged communities in the county, albeit in a more limited capacity. RCRDA staff will keep the Board of Directors apprised as to the agency's status on a regular basis through the duration of the period during which Bx1 26 and ABx1 27 impact RCRDA operations.

**Project Name/Type**

**Fire Stations**

Mead Valley Fire Station Project  
Home Gardens Fire Station, Library and Community Center  
RCSD/Rubidoux Fire Station  
Mecca Fire Station  
North Shore Fire Station  
Thermal Fire Station  
Roy Wilson Fire Station and Roy Wilson Training Center  
Oasis Fire Station  
Highgrove Fire Station & Norton Younglove Community Center

**Sheriff Stations**

Jurupa Valley Sheriff Station  
Valle Vista Sheriff Station  
Mecca Library / Sheriff's Substation Project  
Thermal Sheriff Station, Forensics Laboratory and Evidence Storage Facility

**Clinics**

Don Schroeder Family Health Clinic  
Mecca Social Services Center  
Mecca Family Service Center and Community Health Clinic  
Nuevo Dental Clinic

**Community Centers and Parks**

Wildomar Parks Project  
Mead Valley Community Center  
Pinewood Park  
Lakeland Village/Wildomar Trails Project  
Perret Park Phase II Improvement Project  
Temescal Valley Sports Park  
Home Gardens Fire Station, Library and Community Center  
Home Gardens Library and Community Center Expansion  
El Cerrito Sports Park  
Eddie Dee Smith Senior Center Rehabilitation  
Jurupa Valley Aquatic Center  
Vernola Basin & Park Improvements  
Big League Dreams Ball Field Conversion  
Jurupa Self Sufficiency Center  
Rubidoux Youth Opportunity Center and Boxing Club  
Rubidoux Child Development Center  
Memorial Park Community Center and Baseball Field Rehabilitation  
Murrieta Senior Center  
Rancho Ramona Park  
Rummonds Center Renovation - Thermal  
Thermal Library and Community Center

## Attachment A

Bermuda Dunes Park Project  
Mecca Boys and Girls Club  
Mecca Senior Center  
Ripley Migrant Center Renovation  
Thousand Palms Community Park Improvements  
North Shore Community Center  
Ripley Community Center and Park  
Highgrove Fire Station & Norton Younglove Community Center  
Highgrove Community Park  
Eller Park Project  
Mauel Park Project  
Marion V. Ashley Community Center  
Mead Valley Community Center  
Cabazon Civic Center  
Cabazon Ball Field Project

### **Libraries**

Home Gardens Fire Station, Library and Community Center  
Home Gardens Library and Community Center Expansion  
Rubidoux Community Library  
Sun City Library  
Valle Vista Library Expansion  
Thermal Library and Community Center  
Mecca Library / Sheriff's Substation Project  
Art Samson Community Library  
Highgrove Library  
Mead Valley Library

### **Economic Development**

Corona Crossings  
Big League Dreams Sports Park (Jurupa Valley)  
Mission Plaza  
Butchko Animal Hospital  
Emerald Meadows Ranch  
Trumble Road Exclusive Negotiating Agreement  
Big League Dreams Sports Park (Perris Valley)

### **Other**

Mead Valley Code Enforcement Building Project  
Jurupa Valley High School Stadium  
Rubidoux Building and Safety Office  
YMCA Childcare Expansion Glen Avon  
County of Riverside Fleet Services  
Rubidoux Community Resource Center Parking Lot  
Mecca and Thermal Playground Improvements Project  
Bermuda Dunes Public Safety Office  
Mecca Post Office

Thermal Aviation Education Center  
Ripley Migrant Center Renovation  
Trumble Road Site Remediation  
Cabazon Fueling Station

**Infill Housing Projects**

37th and Wallace  
Mira Loma (Bellegrave)  
Mustang Lane, Rubidoux - ENA and acquisition - 22 units  
Canal Street Park - Rubidoux  
5580 Molino Way, Rubidoux - Single Family new construction  
Pontiac Street, Rubidoux - 2 single-family new construction  
Single Family Rehab/New Constr MOU - JVPA Habitat

**New Housing Construction**

Crestmore Family Apts (former Cottonwood MHP) - MOU- 63 units  
Vista Rio Apts, Rubidoux (Mission Plaza)  
Mission Village Single Family Housing, Glen Avon - ENA- 45 units  
Middleton Crossings - ENA Predevelopment Loan- 180 units  
Middleton Crossings Phase I  
Sierra Avenue & 30th  
Vineyards at Menifee  
North Hemet - Specific Plan - Master Planned housing and commercial  
100 Palms ENA - 80 units  
Desert Meadows Apts  
Operation Safe House - rental supportive housing  
Legacy Apartments  
Paseo de los Heroes III  
Highgrove Family Apts. ENA/DDA - 89 units

**Acquisition, Relocation, Rehabilitation, Resale for Housing**

RDA-1 - S.L. Imperial - Acquisition, Rehab and Resale  
Orange Blossom Ln (Marine Dr) (24+17 Units) - Acq & Rehab  
Middleton Crossings - Acquisition & Relocation  
Acquisition and resale (2) single family homes  
Romoland acquisition - 27972 Washington Ave - 329-192-007  
North Hemet - Specific Plan - Acquisition & Relocation

**Mobile Home Program**

Villalobos Acquisition & Relocation  
Hernandez Acquisition & Relocation  
St. Anthony  
Los Vinedos -Ave 68 - Resolution. Exp. 1/30/2012  
Espinoza Date Garden  
Mountain View Estates- Phase 1: 181;  
Rehab Polanco Park

**Other Housing Programs**

Mobile Home Tenant Loan  
Housing Rehabilitation  
Senior Home Repair  
Redevelopment Home Ownership  
Emergency Housing Response  
Demolition

**Infrastructure**

Temescal Canyon Road Widening  
Bryant Street Storm Drain  
Grand Avenue Beautification Project  
Mission Trail/Lemon Street Storm Drain Project  
Lakeland Village/Wildomar Signal, Sidewalk and Drainage Project  
Marna O'Brien Park and Bio-Swale Improvement  
Palomar Street and Sewer Improvement Project  
Cajalco Widening Project  
Markham Street and Carroll Street Improvement Project  
Mead Valley Road Improvement Project Phase I and II  
Mead Valley Road Improvement Project Phase III  
El Cerrito Road Beautification  
Mission Boulevard Revitalization Project  
Streetscape Improvements - Limonite Avenue  
Etiwanda Avenue Improvements  
Sky Country improvements  
Limonite Avenue Beautification Phase 3 Streetscape Improvements  
Reconstruction of Clay and Galena Streets  
Rubidoux Sidewalk Improvements  
Agate Block Sidewalk Project  
Etiwanda Avenue Street Improvements  
Interstate 15 and Limonite Avenue Improvements  
Limonite Avenue Improvements  
Opal Street, Pacific Street, 45<sup>th</sup> Street, Rustic Lane Improvements  
Rubidoux Area 1 Street Improvement Project  
Valley Way Road Widening Project  
Van Buren Boulevard Median Beautification Phase I and II  
Rubidoux Area 2 Street Improvements Project  
Rubidoux Area 3 Street Improvements Project  
La Rue Street Improvements  
Pyrite Street Improvements  
Rubidoux Boulevard Street Improvements Phase I, II, III  
Bellevue Avenue Street Improvements  
Poinsettia Place Road Resurfacing  
Etiwanda, Homestead, Pedley & Sky Country Street Improvements  
Rubidoux Boulevard and Market Street Improvements

Attachment A

Armstrong Road and Sierra Avenue Beautification Project  
Murrieta Street Improvements  
Valle Vista Sewer Line  
Interstate 10/Apache Trail Improvement  
Ripley Lift Station Improvement Project  
CVAG – Monterey, Cook, Washington Streets Interchange Improvements  
La Canada Way Street Improvement Project - Thousand Palms  
Mecca Relocation of Irrigation Line  
42nd Avenue Improvement Project  
Rosa Avenue Street Improvements  
Thermal Sewer and Water Improvements  
Thermal Street Improvements  
Thousand Palms Beautification/ Street Improvements  
Coachella Valley Water District Pump Station  
Mecca Relocation of Irrigation Line  
Mecca Downtown Street Revitalization  
Mecca Roundabout  
Ripley Water System Improvements  
Jacqueline Cochran Airport Infrastructure Project  
French Valley Airport Entryway Improvements  
Hemet Ryan Hangar 5 Rehabilitation  
Center Street/Iowa Avenue Beautification Project  
Ethanac Road, Highway 74 and Palomar Road Improvements  
Highway 74/Sultanas Avenue Flashing Beacon  
Garfield Avenue Sidewalk Project  
Highgrove Backbone Sewer Project Phase I  
Romoland Beautification Project  
Cabazon Main Street  
Cabazon Sewer  
Esparanza Bridge

ATTACHMENT B

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**The Economic Impact of  
Riverside County  
Economic Development Agency  
Spending on the Local Economy**

**April 2011**



**ROSE INSTITUTE  
OF STATE AND LOCAL GOVERNMENT**  

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**CLAREMONT MCKENNA COLLEGE**



## 1. Overview

This study provides estimates of the impact of projects undertaken by the Riverside County Economic Development Agency (RCEDA) on the local economy. We use data on recent and ongoing RCEDA projects in conjunction with economic multipliers estimated by the Bureau of Economic Analysis (a department of the United States Department of Commerce) to project impacts on the value of output and jobs in Riverside County. These estimates additionally provide the basis for estimates of tax revenues indirectly generated by these projects. The impacts are provided overall and broken down by geographical areas, industry classifications, and legislative districts.

RCEDA projects generally are enhancements to infrastructure. Over the past five years, RCEDA has funded a total of 146 projects. Of these, based on current project descriptions at least 26 are public facilities (such as libraries) and parks, and 28 are related to roads, trails and sewers. Many of the remaining projects are for similar types of public works, schools, and facilities related to public services such as public safety offices, public area restoration and beautification, and similar. Going farther back, over the past 15 years, RCEDA has financed nine fire stations and five sheriff's stations. Total spending for fiscal years 2005-2006 to 2009-2010 was about \$256.6 million, with an additional \$121.9 million forecast for fiscal year 2010-2011 ending in June 2011.

As these projects generally are primarily related to construction, employing local labor and other local services (architectural/engineering/design, licensing, pre-construction local improvements such as sewer) we estimate economic impacts mainly by using local spending multipliers based on construction costs. The multipliers supplied to us by the Bureau of Economic Analysis (BEA) are well suited to estimation of the local effects we seek, and are specific to Riverside County (for the primary set of estimates) and to California (for additional analysis). Though we do not have precise information on the breakdown of costs apart from construction, we use rough estimates of other types of costs (primarily architecture and engineering costs) for sensitivity analysis. We also review the literature and conclude that the BEA multipliers are well within the normal range established in the economics literature on such multipliers.

Anecdotal evidence provides support for the use of multipliers in assessing the local impacts of RCEDA spending on projects. We note that the documentation provided by the BEA specifically includes an example of the impacts of construction on the local economy. In addition, sample projects provide some insight into how RCEDA spending translates into local jobs, business income, and individual earnings. The specific examples include:

**1) Mira Loma Industrial Center** - The Mira Loma area in northwestern Riverside County at the confluence of the Interstate 15 and State Highway 60 is almost entirely within the Jurupa Valley Project Area. The RDA has invested millions of dollars in street and flood control improvements that has facilitated millions of square feet of commercial and industrial development. Additionally, early in the development of the Center, funds were provided to numerous businesses to offset permit and development costs. To date, there are approximately 10,060 jobs in the area.

**2) Wildrose Business Park** - The Park is located in the Temescal Canyon area, which is located south of Corona. The RDA contributed funds for street improvements that helped facilitate the development of the Park. It consists of office, commercial, and industrial uses. To date, there are approximately 1,500 jobs in the business park.

**3) University Research Park/Hunter Park Industrial Area** - In the late 90s, the Highgrove sub-area was overlaid onto several hundred acres of industrial land in the Hunter Park area within the city of Riverside. It is a unique partnership between the City and County that was originated in order to facilitate the acquisition and development of land for the 56-acre University Research Park (URP). The URP was designed for high-tech businesses to locate there and provides amenities such as redundant fiber capacity and view lots. Additionally, the development of an incubator facility is imminent that will allow access to wet lab space for entrepreneurs. The Park itself has approximately 200 to 300 jobs while the larger industrial area should have close to 3,000 jobs.

In brief, the results show that: (1) over the past five years RCEDA spending has generated approximately \$663 to \$678 million in economic activity (value of purchased goods and services) in Riverside County for the six fiscal years ending in 2011 (including the current year forecast). This figure includes the \$378 million in direct spending done by the RCEDA, but also the additional economic activity due to multiplier effects. For example, demand for construction stimulates demand for inputs to the construction process, and payments to construction workers creates demand for products consumed by the construction workers; (2) the RCEDA spending resulted in earnings of about \$172 million by residents of Riverside County during the same six fiscal years, including both direct payroll on projects funded by RCEDA and multiplier effects; (3) over the same six fiscal years, RCEDA spending generated between 3,357 and 4,156 jobs in Riverside County; (4) over the six years, RCEDA spending generated approximately \$2.3 million in California business taxes, \$7.6 million in California personal income tax, and about \$5.8 million in sales tax in Riverside County. Finally, (5) spending on low- to moderate-income housing generated output value of approximately \$97.3 million, income of about \$24.7 million,

and 598 jobs during the period from 2000 to early 2011. This spending assisted a total of 3,093 households with construction, rehabilitation, and homeownership assistance. The main results are briefly summarized here, based on our more conservative estimates:

<u>Type of Spending</u>	<u>Output (millions)</u>	<u>Earnings (millions)</u>	<u>Employment</u>	<u>Households</u>
Project Spending, 2005-2011	\$663	\$172	3,357	
Housing Spending, 2000-2011	\$97	\$25	598	3,093

Additional results show that the beneficial effects of RCEDA spending extend beyond Riverside County to other areas of California. In particular, using the multiplier for the entire state of California based on the RCEDA spending yields total economic activity of approximately \$892 million, or roughly \$214 to \$229 million greater for Riverside County alone, suggesting an external benefit to other areas of the state. Similarly, overall job creation for California is approximately 6,914, suggesting up to 3,600 jobs are created elsewhere in the state due to RCEDA projects.

The remainder of this report is organized as follows: Section 2 discusses data and methods used in this analysis, Section 3 reviews related economics literature dealing with multiplier effects, Section 4 summarizes the results, and Section 5 concludes the study.

## 2. Data and Methods

RCEDA supplied us with information of project level expenditures from fiscal year 2005-2006 to present. For current projects, they additionally provided a breakdown into pre-construction, construction, and post-construction phase expenditures. Project level information also includes zip code and project district. We used zip code to identify legislative district or districts affected by each project. We note that, in general, geographical breakdowns of economic effects within Riverside County are necessarily crude approximations, as construction employees and other service providers receiving payments (and subsequent induced demand effects) are not restricted to the immediate area of a given project.

In a separate file, RCEDA supplied us with data on Redevelopment Low- and Moderate-Income Housing set-aside funds spent between January 1, 2000 and today. Such spending is a requirement in California for redevelopment agencies, thus ensuring that some funds are spent of critical housing needs. RDEDA indicates that they spent a total of \$54.3 million assisting 3,093 households during this period. RCEDA further indicates a further 2,497 housing units underway with total projected spending of \$100 million. Because the housing data are not conformable with the other projects data supplied to us, we analyze them separately.<sup>1</sup>

We use multipliers supplied by the Bureau of Economic Analysis (BEA) of the U.S. Department of Commerce as the basis for projecting the local economic effects of RCEDA projects. These multipliers are known as the Regional Input-Output Modeling System II (RIMS II) multipliers. As described in the RIMS II handbook<sup>2</sup>, these multipliers are based on a framework of inputs purchased and outputs sold for nearly 500 U.S. industries collected at the regional level. Hence RIMS II multipliers are available at many levels of aggregation. For this study, we obtained the matrix of multipliers showing relationships between input and outputs by industry within Riverside County, and also the impact of construction spending on other industries overall for the entire state of California. Although our main focus is on Riverside County effects, by contrasting basic results for construction between just Riverside County and the state of

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<sup>1</sup> We note that RCEDA indicates their spending on housing served as the basis for leveraging \$92.4 million in funds obtained through other sources. We note this but do not include this figure in the base for multiplier results as this would likely introduce some double counting.

<sup>2</sup> U.S. Department of Commerce, Bureau of Economic Analysis, *Regional Multipliers: A User Handbook for the Regional Input-Output Modeling System (RIMS II)*, Third Edition, U.S. Government Printing Office: Washington, D.C. March 1997.

California, we are able to back out estimates of spending within Riverside on the rest of California generally.

RIMS II multipliers provide several types of relationships. Those appropriate for this study provide estimates of the value of output generated across sectors of the economy by final demand spending in a given industry, earnings generated across sectors by final demand spending in a given industry, and employment generated across sectors by final demand spending in a given industry. Additionally, RIMS II provides two types of multipliers, one of which (Type I) excludes induced economic activity created when project employees subsequently spend income earned as part of the original project, and another type (Type II) that includes this induced demand. We rely on Type II multipliers in this study, as they are more likely to capture all paths by which project spending impacts the local economy directly and indirectly.

In order to estimate tax effects, we link industry level multiplier results to industry level profit margin estimated from a broad based data set that covers financial accounting values for all publicly traded firms in the United States.<sup>3</sup> These profit margins allow us to project from the output values by industry to the business profits generated by those industries, and thus to business taxes. We estimate personal income at the individual level by industry by dividing industry level earnings by industry level employees. This provides the basis for estimating personal taxes paid to California, which we calculate by applying California individual tax table rates to the estimated personal income taxes. Finally, sales taxes are estimated for sectors that make taxable sales in Riverside County, using the 8.75% sales tax rate applicable in Riverside County.

### **3. Literature Survey**

A collection of recent papers examines the effects of government spending on local economies. Although these papers look at different industries and use different data than we do here, Table 1 below shows that the estimated multipliers fall in the same range as the RIMS II multipliers obtained from the BEA. For example, the RIMS II California Type I and Type II Construction

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<sup>3</sup> This database is Standard & Poors COMPUSTAT, a standard source for corporate accounting information.

Final Demand Multipliers sum to approximately 1.56 and 2.36, respectively, across 20 economic sectors used by the BEA. These values are well within the ranges summarized in Table 1.

Moretti (2010) looked at the effect of an exogenous increase in employment in tradable industries on tradable and non-tradable jobs. In both instances, he found an increase in local jobs, with multipliers ranging from 0.29 for the effect on tradable jobs to a high of 1.89 on non-tradable jobs. Looking at more specific industries, Bergstrom et al. (1990) and Doeksen et al. (1998) found employment multipliers in the same range.

Like Frechtling and Horvath (1999) for tourism, Bergstrom et al. (1990) and Doeksen et al. (1998) also estimate earnings and output multipliers for state parks and rural hospitals, respectively. The earnings and output multipliers found for the effects of state parks on other local industries are slightly higher than those found for both tourism and the healthcare industry, but all three show multipliers in the range seen in the RIMS II multipliers used in this report.

Type I and Type II multipliers are estimated for the effects of the availability of childcare on the regional economy in Liu et al. (2004). The Type I multiplier of 1.49 estimates the change in spending between industries, while the Type 2 multiplier of 1.91 measures the effect on household spending and wages. In Olfert and Stabler (1994), local expenditures multipliers range from 1.09 to 1.43.

Another set of literature estimates these multipliers at larger government levels. Using an instrumental variables approach, Shoag finds earnings multipliers as high as 3. Blanchard and Perotti (2002) and Ramey (2009) estimate output multipliers at the federal level, looking at changes in GDP as a result of federal spending.

The main conclusion from this survey of recent multiplier research is that RIMS II multipliers supplied by BEA are consistent in magnitude with multipliers estimated in current economics research.

**Table 1. Survey of multiplier studies**

Study	Multipliers					
	Earnings Multiplier	Jobs Multiplier	Output Multiplier	Type I (regional economy)*	Type II (households)*	Expenditures Multiplier
Moretti (2010)**	--	0.26 - 1.89	--	--	--	--
Doeksen et al. (1998) Health sector**	1.31 - 1.55	1.44 - 1.68	1.39 - 1.99	--	--	--
Bergstrom et al. (1990) State parks***	2.01 - 2.83	1.36 - 1.81	1.80 - 2.46	--	--	--
Frechtling & Horvath (1999) Tourism expenditures**	0.35	18.00	1.18	--	--	--
Liu et al. (2004) Childcare	--	--	--	1.49	1.91	--
Olfert & Stabler (1994) Rural government funding**	--	--	--	--	--	1.09 - 1.43
Shoag (working paper) State spending	up to 3	--	--	--	--	--
Blanchard & Perotti (2002) Postwar federal spending	--	--	~1	--	--	--
Ramey (2009) Federal spending	--	--	0.6 - 1.1	--	--	--

\*The Type I multiplier estimates the change in spending between industries, while the Type 2 multiplier measures the effect on household spending and wages.

\*\*See paper for multipliers estimated by industry/sector.

\*\*\*See paper for multipliers estimated by state.

#### 4. Results

This section tabulates findings based on our analysis of the data supplied to us by RCEDA and other data information we applied as described above. First, we briefly summarize the RCEDA data. Next, we show the impacts on local output, earnings, and jobs. In each case, we tabulate results across economic sectors and geographic areas. Finally, we present estimates of consequent tax effects.

##### 4.a. RCEDA data summary

Tables 2 – 4 summarize spending by the RCEDA over the past five years across several dimensions. Overall spending was about \$256.6 million over the five fiscal years ended June 2010. In addition, spending for the current fiscal year (ending June 2011) is forecast to total approximately \$121.9 million. Forecast figures were not supplied in the same format as past spending figures, and therefore are not included in the three tables below.

**Table 2. RCEDA Spending by year and supervisory district**

<u>District</u>	<u>Year</u>					<u>Total</u>
	<u>2006</u>	<u>2007</u>	<u>2008</u>	<u>2009</u>	<u>2010</u>	
1	25,500	8,284,786	2,563,054	2,354,764	1,991,923	15,220,027
2	28,791,108	24,537,372	15,586,937	21,792,404	34,127,405	124,835,226
3	0	4,150	452,751	395,542	3,329,281	4,181,724
4	4,922,592	6,086,503	10,614,266	26,268,010	39,565,090	87,456,461
5	1,372,073	1,106,885	4,715,785	5,581,211	12,141,095	24,917,049
TOTAL	35,111,273	40,019,696	33,932,793	56,391,931	91,154,794	256,610,487



**Table 3. RCEDA Spending by year and zip code.**

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<u>Zip code</u>	<u>Year</u>					<u>Total</u>
	<u>2006</u>	<u>2007</u>	<u>2008</u>	<u>2009</u>	<u>2010</u>	
91752	5,236,705	2,926,487	225,000	6,089,624	2,829,490	17,307,306
92203	0	0	152,153	914,245	916,774	1,983,172
92225	0	0	0	0	0	0
92230	145,615	123,550	496,853	1,673,585	176,832	2,616,435
92254	2,682,566	4,445,076	5,405,786	3,852,797	4,793,939	21,180,164
92274	572,513	789,442	1,777,392	8,920,623	27,746,643	39,806,613
92276	1,581,968	757,985	3,184,935	12,486,345	6,013,734	24,024,967
92507	0	68,201	1,601,108	413,928	2,084,220	4,167,457
92509	21,114,126	20,801,587	8,751,001	10,289,893	21,513,386	82,469,993
92530	0	0	286,474	0	152,870	439,344
92544	0	0	0	0	0	0
92545	53,545	0	0	0	0	53,545
92548	0	0	0	0	0	0
92562	0	0	452,391	317,931	0	770,322
92567	0	694,046	190,428	385,796	24,416	1,294,686
92570	0	1,033,264	146,317	1,475,781	1,437,136	4,092,498
92585	1,226,458	221,088	2,427,396	3,162,341	10,642,085	17,679,368
92586	0	4,150	360	23,172	2,542,823	2,570,505
92595	25,500	7,251,522	2,130,263	878,983	365,017	10,651,285
92879	2,256,459	512,149	32,124	736,931	0	3,537,663
92881	183,818	297,149	6,578,812	4,675,956	9,784,529	21,520,264
92883	0	0	0	0	36,900	36,900
Total	35,079,273	39,925,696	33,838,793	56,297,931	91,060,794	256,202,487

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**Table 4. RCEDA Spending by year and legislative district.**

Year	2006	2007	2008	2009	2010	Total
Assembly District 61	\$5,236,705	\$2,926,487	\$225,000	\$6,089,624	\$2,829,490	\$17,307,306
Assembly District 62	\$26,350,831	\$23,796,275	\$10,577,109	\$16,793,445	\$26,427,096	\$103,944,756
Assembly District 63	\$0	\$68,201	\$1,601,108	\$413,928	\$2,084,220	\$4,167,457
Assembly District 64	\$24,757,928	\$31,224,388	\$27,488,602	\$43,559,198	\$83,236,117	\$210,266,233
Assembly District 65	\$1,425,618	\$2,076,098	\$3,261,354	\$6,720,675	\$14,823,292	\$28,307,037
Assembly District 66	\$28,816,608	\$32,822,158	\$18,602,382	\$24,465,099	\$36,119,328	\$140,825,575
Assembly District 71	\$28,791,108	\$24,537,372	\$16,325,802	\$22,110,335	\$34,317,175	\$126,081,792
Assembly District 73	\$0	\$0	\$738,865	\$317,931	\$152,870	\$1,209,666
Assembly District 77	\$572,513	\$789,442	\$1,777,392	\$8,920,623	\$27,746,643	\$39,806,613
Assembly District 80	\$4,982,662	\$6,116,053	\$11,017,119	\$27,847,595	\$39,647,922	\$89,611,351
Senate District 31	\$28,607,290	\$24,308,424	\$10,609,233	\$17,530,376	\$26,427,096	\$107,482,419
Senate District 32	\$26,350,831	\$23,796,275	\$10,577,109	\$16,793,445	\$26,427,096	\$103,944,756
Senate District 33	\$0	\$0	\$738,865	\$317,931	\$189,770	\$1,246,566
Senate District 36	\$598,013	\$8,045,114	\$4,646,880	\$10,140,709	\$30,807,353	\$54,238,069
Senate District 37	\$32,396,707	\$35,480,620	\$27,980,616	\$52,127,203	\$86,266,855	\$234,252,001
Senate District 38	\$0	\$0	\$452,391	\$317,931	\$0	\$770,322
Senate District 40	\$4,837,047	\$5,992,503	\$10,520,266	\$26,174,010	\$39,471,090	\$86,994,916

The tables are included primarily to provide background on the pattern of spending across time and geographical areas. It is very important to note that in Table 4, there can be significant double- and triple-counting. This occurs when spending for any zip code is fully attributed to all assembly and senate districts that fall within the zip code, and spending for all zip codes that overlap a given assembly or senate district are attributed to the senate or assembly district. We believe it is inappropriate to try to parcel out spending strictly into small districts as spending at a particular project address is likely to actually go to vendors not necessarily in that same immediate location, and subsequent multiplier effects typically will fan out even farther. Hence, these numbers are suggestive of impact in legislative districts rather than being precise values spent in the districts.<sup>4</sup>

#### **4.b. Output, earnings, jobs and tax effects.**

This section summarizes the effects of RCEDA spending on the value of output, earnings, and jobs during the five fiscal years ending June 2010. These are estimated using the RIMS II Type II multipliers as described above applied to the RCEDA spending figures summarized in section 4.a. above. The tables below are split into four groups. The first two groups show output, earnings, and jobs split out by industry sector and year based on the assumption that all project cost is related to construction, and uses Riverside County specific multipliers. This includes Tables 5 - 7. Overall, these three tables include point estimates for total value of output created by the project spending and multiplier effects of about \$678 million, along with about \$172 in earnings, and 4,166 jobs.

The second group is the same as the first except that not all cost is assumed to go to construction. As noted above, we do not have precise figures regarding other types of project costs, but RCEDA personnel indicate that it is reasonable to assume that approximately 10% on average goes to architects' fees, 10% to engineering fees, and another 5% to costs that could reasonably be characterized as NAICS code 541610 – "Management, scientific, and technical consulting

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<sup>4</sup> This caution actually applies to breakdowns presented by zip code within Riverside County as well as the legislative district in terms of how likely it is that all multiplier effects remain within the immediate area of the initial spending. However, this concern lessens as the geographical area in question increases.

services” for tasks such as compliance and technical documentation preparation. Hence, Tables 8-10 provide a rough estimate of the impact on the basic results if we assume these fractions are spent on costs other than construction in applying the RIMS II multipliers to obtain output, earnings and employment results for Riverside County. Differences in the multiplier impacts across input industry segments generate slightly smaller estimates than the overall figures using just construction. Here, estimated output is \$662 million, along with \$172 million in earnings and 3,145 jobs. Note that there are fewer but higher paying secondary effect jobs in this scenario.

The third group assumes all costs are construction costs, and hence is comparable to the first group in this dimension, but uses California (statewide) multipliers rather than those just for Riverside County. Hence comparing the results in Tables 11 - 13 to Tables 5 - 7 allows us to infer the impacts of spending within Riverside County on output, earnings, and jobs within California but external to Riverside County. The results for the construction-only analysis show statewide output value at \$892 million, \$295 million in income and 6,914 jobs. Hence, relative to the results in Tables 5 - 7, we can infer roughly \$224 million in value created outside of Riverside County as multiplier effects from the Riverside projects, along with \$123 million in income and 2,748 jobs.

The fourth group (Tables 14 - 16) presents the same information as the first group (Tables 5 - 7 using Riverside County multipliers and assuming all costs are construction), but presents the figures split out by zip code rather than industry, allowing a tighter interpretation of where the benefits are going. It is worth noting again that these results should be interpreted bearing in mind that multiplier effects are likely to cross zip code boundaries within Riverside County even if they are quite accurate for the county as a whole, so caution should be applied when using these figures. The fifth group (Tables 17 - 19) similarly present the same information as the second group but again by zip code rather than industry.

Finally, Table 20 summarizes the three sources of tax revenues based on the assumptions described in the data section above. In particular, using profit margins estimated from a large data set of accounting information, and applying these margins to output value predicted in the multipliers given in Table 5, we estimate total Business Tax revenues in Riverside County associated with RCEDA spending of roughly \$2.3 million over the six fiscal years in question. Applying the sales tax rate for just industries likely to making taxable sales to consumer of goods

and services, we find sales tax revenues collected in Riverside County and spurred by multiplier effects on the Riverside projects as about \$5.8 million. Finally, California personal income taxes paid due to the direct spending on projects and multiplier effects creating other jobs based on the Riverside RIMS are about \$7.6 million. Collectively, over the six fiscal years we examined, the three types of taxes revenues total about \$15.6 million.

**Table 5. Output Based on Riverside County Type II Multipliers (Construction Only)**

	Year							
<u>Industry</u>	<u>2006</u>	<u>2007</u>	<u>2008</u>	<u>2009</u>	<u>2010</u>	<u>2011</u>	<u>Total</u>	
Agriculture, forestry, fishing, and hunting	\$238,757	\$272,134	\$230,743	\$383,465	\$619,853	\$828,707	\$2,573,658	
Mining	\$393,246	\$448,221	\$380,047	\$631,590	\$1,020,934	\$1,364,929	\$4,238,967	
Utilities	\$733,826	\$836,412	\$709,195	\$1,178,591	\$1,905,135	\$2,547,056	\$7,910,215	
Construction	\$35,328,963	\$40,267,818	\$34,143,176	\$56,741,561	\$91,719,954	\$122,624,285	\$380,825,757	
Manufacturing	\$6,611,453	\$7,535,709	\$6,389,545	\$10,618,601	\$17,164,448	\$22,947,876	\$71,267,631	
Wholesale trade	\$1,580,007	\$1,800,886	\$1,526,976	\$2,537,637	\$4,101,966	\$5,484,091	\$17,031,563	
Retail trade	\$3,440,905	\$3,921,930	\$3,325,414	\$5,526,409	\$8,933,170	\$11,943,132	\$37,090,960	
Transportation and warehousing	\$1,299,117	\$1,480,729	\$1,255,513	\$2,086,501	\$3,372,727	\$4,509,142	\$14,003,730	
Information	\$835,648	\$952,469	\$807,600	\$1,342,128	\$2,169,484	\$2,900,475	\$9,007,805	
Finance and insurance	\$1,246,450	\$1,420,699	\$1,204,614	\$2,001,914	\$3,235,995	\$4,326,339	\$13,436,011	
Real estate and rental and leasing	\$3,683,173	\$4,198,066	\$3,559,550	\$5,915,514	\$9,562,138	\$12,784,027	\$39,702,467	
Professional, scientific, and technical services	\$2,004,854	\$2,285,125	\$1,937,562	\$3,219,979	\$5,204,939	\$6,958,703	\$21,611,162	
Management of companies and enterprises	\$158,001	\$180,089	\$152,698	\$253,764	\$410,197	\$548,409	\$1,703,156	
Administrative and waste management services	\$965,560	\$1,100,542	\$933,152	\$1,550,778	\$2,506,757	\$3,351,389	\$10,408,178	
Educational services	\$196,623	\$224,110	\$190,024	\$315,795	\$510,467	\$682,465	\$2,119,483	
Health care and social assistance	\$1,716,941	\$1,956,963	\$1,659,314	\$2,757,565	\$4,457,469	\$5,959,379	\$18,507,632	
Arts, entertainment, and recreation	\$189,601	\$216,106	\$183,237	\$304,516	\$492,236	\$658,091	\$2,043,788	
Accommodation	\$298,446	\$340,167	\$288,429	\$479,331	\$774,816	\$1,035,884	\$3,217,073	
Food services and drinking places	\$758,403	\$864,425	\$732,948	\$1,218,066	\$1,968,944	\$2,632,364	\$8,175,150	
Other services	\$1,218,361	\$1,388,683	\$1,177,468	\$1,956,800	\$3,163,071	\$4,228,844	\$13,133,228	
<b>Total</b>	<b>\$62,898,334</b>	<b>\$71,691,283</b>	<b>\$60,787,205</b>	<b>\$101,020,505</b>	<b>\$163,294,698</b>	<b>\$218,315,587</b>	<b>\$678,007,614</b>	

**Table 6. Earnings Based on Riverside County Type II Multipliers (Construction Only)**

Industry	Year						Total
	2006	2007	2008	2009	2010	2011	
Agriculture, forestry, fishing, and hunting	\$42,134	\$48,024	\$40,719	\$67,670	\$109,386	\$146,242	\$454,175
Mining	\$80,756	\$92,045	\$78,045	\$129,701	\$209,656	\$280,298	\$870,502
Utilities	\$122,889	\$140,069	\$118,765	\$197,372	\$319,042	\$426,540	\$1,324,677
Construction	\$9,813,601	\$11,185,505	\$9,484,216	\$15,761,545	\$25,477,765	\$34,062,301	\$105,784,932
Manufacturing	\$1,046,316	\$1,192,587	\$1,011,197	\$1,680,480	\$2,716,413	\$3,631,687	\$11,278,680
Wholesale trade	\$372,179	\$424,209	\$359,688	\$597,754	\$966,241	\$1,291,808	\$4,011,879
Retail trade	\$1,011,205	\$1,152,567	\$977,264	\$1,624,088	\$2,625,258	\$3,509,819	\$10,900,201
Transportation and warehousing	\$277,379	\$316,156	\$268,069	\$445,496	\$720,123	\$962,763	\$2,989,986
Information	\$136,934	\$156,077	\$132,338	\$219,929	\$355,504	\$475,288	\$1,476,069
Finance and insurance	\$266,846	\$304,150	\$257,889	\$428,579	\$692,776	\$926,202	\$2,876,442
Real estate and rental and leasing	\$273,868	\$312,154	\$264,676	\$439,857	\$711,007	\$950,576	\$2,952,138
Professional, scientific, and technical services	\$639,025	\$728,358	\$617,577	\$1,026,333	\$1,659,017	\$2,218,010	\$6,888,321
Management of companies and enterprises	\$52,667	\$60,030	\$50,899	\$84,588	\$136,732	\$182,803	\$567,719
Administrative and waste management services	\$368,668	\$420,207	\$356,294	\$592,115	\$957,125	\$1,279,621	\$3,974,031
Educational services	\$70,223	\$80,039	\$67,866	\$112,784	\$182,310	\$243,737	\$756,958
Health care and social assistance	\$688,181	\$784,386	\$665,083	\$1,105,282	\$1,786,634	\$2,388,626	\$7,418,192
Arts, entertainment, and recreation	\$63,200	\$72,035	\$61,079	\$101,505	\$164,079	\$219,364	\$681,263
Accommodation	\$84,267	\$96,047	\$81,439	\$135,341	\$218,772	\$292,485	\$908,350
Food services and drinking places	\$224,712	\$256,126	\$217,170	\$360,908	\$583,391	\$779,960	\$2,422,267
Other services	\$319,513	\$364,179	\$308,788	\$513,167	\$829,509	\$1,109,005	\$3,444,161
<b>Total</b>	<b>\$15,954,562</b>	<b>\$18,184,950</b>	<b>\$15,419,061</b>	<b>\$25,624,493</b>	<b>\$41,420,738</b>	<b>\$55,377,137</b>	<b>\$171,980,942</b>

**Table 7. Employment Based on Riverside County Type II Multipliers (Construction Only)**

<u>Industry</u>	<u>Year</u>							<u>Total</u>
	<u>2006</u>	<u>2007</u>	<u>2008</u>	<u>2009</u>	<u>2010</u>	<u>2011</u>		
Agriculture, forestry, fishing, and hunting	1	2	1	2	4	5	16	
Mining	1	2	1	2	4	5	15	
Utilities	1	1	1	2	3	4	13	
Construction	216	247	209	348	562	751	2,333	
Manufacturing	22	25	21	36	57	77	238	
Wholesale trade	6	7	6	10	16	21	65	
Retail trade	40	45	38	64	103	137	427	
Transportation and warehousing	7	8	6	11	17	23	71	
Information	2	2	2	3	5	7	21	
Finance and insurance	4	4	4	6	10	13	42	
Real estate and rental and leasing	11	12	10	17	27	36	113	
Professional, scientific, and technical services	11	12	10	17	27	37	114	
Management of companies and enterprises	1	1	1	1	2	2	7	
Administrative and waste management services	16	18	16	26	42	56	174	
Educational services	3	3	3	4	7	9	29	
Health care and social assistance	16	18	15	25	40	54	168	
Arts, entertainment, and recreation	3	3	3	5	7	10	31	
Accommodation	3	3	3	5	7	10	31	
Food services and drinking places	13	15	13	21	35	46	144	
Other services	11	12	10	17	28	37	116	
<b>Total</b>	<b>386</b>	<b>440</b>	<b>373</b>	<b>621</b>	<b>1,003</b>	<b>1,341</b>	<b>4,166</b>	



**Table 8. Output Based on Riverside Type II Multipliers (Construction, Architecture, Engineering, Management/Science)**

Industry	Year						Total
	2006	2007	2008	2009	2010	2011	
Agriculture, forestry, fishing, and hunting	\$214,003	\$243,920	\$206,820	\$343,709	\$555,588	\$742,790	\$2,306,831
Mining	\$298,972	\$340,768	\$288,938	\$480,177	\$776,183	\$1,037,712	\$3,222,750
Utilities	\$692,570	\$789,389	\$669,324	\$1,112,331	\$1,798,028	\$2,403,860	\$7,465,502
Construction	\$26,560,274	\$30,273,299	\$25,668,801	\$42,658,240	\$68,954,955	\$92,188,796	\$286,304,365
Manufacturing	\$5,425,394	\$6,183,843	\$5,243,295	\$8,713,681	\$14,085,239	\$18,831,151	\$58,482,604
Wholesale trade	\$1,376,537	\$1,568,972	\$1,330,335	\$2,210,846	\$3,573,724	\$4,777,862	\$14,838,276
Retail trade	\$3,020,974	\$3,443,295	\$2,919,578	\$4,851,962	\$7,842,958	\$10,485,583	\$32,564,349
Transportation and warehousing	\$1,184,830	\$1,350,465	\$1,145,062	\$1,902,946	\$3,076,019	\$4,112,459	\$12,771,780
Information	\$874,095	\$996,290	\$844,757	\$1,403,877	\$2,269,299	\$3,033,921	\$9,422,239
Finance and insurance	\$1,334,228	\$1,520,748	\$1,289,446	\$2,142,893	\$3,463,882	\$4,631,011	\$14,382,209
Real estate and rental and leasing	\$3,749,708	\$4,273,903	\$3,623,853	\$6,022,376	\$9,734,876	\$13,014,968	\$40,419,685
Professional, scientific, and technical services	\$10,832,530	\$12,346,877	\$10,468,945	\$17,398,039	\$28,123,077	\$37,598,931	\$116,768,398
Management of companies and enterprises	\$163,970	\$186,892	\$158,466	\$263,350	\$425,693	\$569,127	\$1,767,498
Administrative and waste management services	\$1,222,399	\$1,393,286	\$1,181,370	\$1,963,285	\$3,173,554	\$4,242,859	\$13,176,753
Educational services	\$198,554	\$226,311	\$191,890	\$318,896	\$515,480	\$689,167	\$2,140,300
Health care and social assistance	\$1,716,239	\$1,956,163	\$1,658,635	\$2,756,438	\$4,455,646	\$5,956,942	\$18,500,063
Arts, entertainment, and recreation	\$204,699	\$233,315	\$197,828	\$328,765	\$531,432	\$710,495	\$2,206,534
Accommodation	\$360,066	\$410,402	\$347,981	\$578,299	\$934,792	\$1,249,764	\$3,881,304
Food services and drinking places	\$890,773	\$1,015,300	\$860,875	\$1,430,663	\$2,312,597	\$3,091,809	\$9,602,017
Other services	\$1,178,510	\$1,343,261	\$1,138,954	\$1,892,795	\$3,059,611	\$4,090,523	\$12,703,654
Total	\$61,499,326	\$70,096,699	\$59,435,153	\$98,773,569	\$159,662,635	\$213,459,729	\$662,927,111

**Table 9. Earnings Based on Riverside Type II Multipliers (Construction, Architecture, Engineering, Management/Science)**

Industry	Year						Total
	2006	2007	2008	2009	2010	2011	
Agriculture, forestry, fishing, and hunting	\$37,920	\$43,221	\$36,647	\$60,903	\$98,447	\$131,618	\$408,758
Mining	\$61,445	\$70,034	\$59,382	\$98,686	\$159,521	\$213,270	\$662,339
Utilities	\$116,218	\$132,465	\$112,318	\$186,657	\$301,722	\$403,385	\$1,252,766
Construction	\$7,377,932	\$8,409,339	\$7,130,298	\$11,849,636	\$19,154,357	\$25,608,270	\$79,529,831
Manufacturing	\$850,922	\$969,877	\$822,361	\$1,366,658	\$2,209,136	\$2,953,488	\$9,172,443
Wholesale trade	\$324,077	\$369,382	\$313,200	\$520,498	\$841,359	\$1,124,848	\$3,493,363
Retail trade	\$887,437	\$1,011,498	\$857,651	\$1,425,306	\$2,303,937	\$3,080,231	\$9,566,061
Transportation and warehousing	\$267,548	\$304,950	\$258,568	\$429,707	\$694,600	\$928,639	\$2,884,011
Information	\$144,132	\$164,281	\$139,294	\$231,489	\$374,190	\$500,271	\$1,553,657
Finance and insurance	\$285,630	\$325,560	\$276,043	\$458,748	\$741,544	\$991,402	\$3,078,928
Real estate and rental and leasing	\$276,677	\$315,355	\$267,390	\$444,368	\$718,300	\$960,325	\$2,982,416
Professional, scientific, and technical services	\$3,318,718	\$3,782,662	\$3,207,328	\$5,330,165	\$8,615,951	\$11,519,029	\$35,773,853
Management of companies and enterprises	\$55,125	\$62,831	\$53,274	\$88,535	\$143,113	\$191,334	\$594,212
Administrative and waste management services	\$481,376	\$548,670	\$465,219	\$773,133	\$1,249,732	\$1,670,820	\$5,188,950
Educational services	\$70,925	\$80,840	\$68,544	\$113,912	\$184,133	\$246,175	\$764,528
Health care and social assistance	\$687,479	\$783,586	\$664,404	\$1,104,154	\$1,784,811	\$2,386,189	\$7,410,622
Arts, entertainment, and recreation	\$67,765	\$77,238	\$65,490	\$108,836	\$175,929	\$235,207	\$730,465
Accommodation	\$102,174	\$116,457	\$98,744	\$164,101	\$265,260	\$354,638	\$1,101,374
Food services and drinking places	\$264,563	\$301,548	\$255,684	\$424,913	\$686,851	\$918,281	\$2,851,841
Other services	\$308,277	\$351,373	\$297,930	\$495,121	\$800,339	\$1,070,007	\$3,323,047
<b>Total</b>	<b>\$15,986,338</b>	<b>\$18,221,168</b>	<b>\$15,449,770</b>	<b>\$25,675,528</b>	<b>\$41,503,233</b>	<b>\$55,487,428</b>	<b>\$172,323,466</b>

**Table 10. Employment Based on Riverside Type II Multipliers (Construction, Architecture, Engineering, Management/Science)**

Industry	Year						Total
	2006	2007	2008	2009	2010	2011	
Agriculture, forestry, fishing, and hunting	1	1	0	1	1	2	5
Mining	1	1	1	2	3	4	11
Utilities	0	1	0	1	1	2	5
Construction	162	185	156	260	420	562	1,745
Manufacturing	15	17	15	25	40	53	164
Wholesale trade	3	4	3	5	8	11	35
Retail trade	16	18	15	26	42	56	173
Transportation and warehousing	4	5	4	7	11	15	46
Information	1	1	1	2	3	3	11
Finance and insurance	2	2	2	3	5	7	20
Real estate and rental and leasing	5	6	5	8	13	18	55
Professional, scientific, and technical services	54	62	53	87	141	189	587
Management of companies and enterprises	0	1	0	1	1	2	5
Administrative and waste management services	16	18	15	26	41	55	171
Educational services	0	0	0	0	0	0	1
Health care and social assistance	0	0	0	0	0	1	2
Arts, entertainment, and recreation	1	1	1	1	2	2	7
Accommodation	2	2	1	2	4	5	16
Food services and drinking places	5	5	4	7	12	16	50
Other services	3	4	3	5	8	11	34
<b>Total</b>	<b>292</b>	<b>333</b>	<b>282</b>	<b>469</b>	<b>757</b>	<b>1,013</b>	<b>3,145</b>

**Table 11. Output based on California Type II Multiplier**

Industry	Year							Total
	2006	2007	2008	2009	2010	2011		
Agriculture, forestry, fishing, and hunting	\$407,291	\$464,228	\$393,620	\$654,146	\$1,057,396	\$1,413,677	\$4,390,359	
Mining	\$459,958	\$524,258	\$444,520	\$738,734	\$1,194,128	\$1,596,480	\$4,958,077	
Utilities	\$832,137	\$948,467	\$804,207	\$1,336,489	\$2,160,369	\$2,888,288	\$8,969,957	
Construction	\$35,472,919	\$40,431,899	\$34,282,301	\$56,972,768	\$92,093,688	\$123,123,947	\$382,377,522	
Manufacturing	\$9,034,131	\$10,297,068	\$8,730,908	\$14,509,644	\$23,454,128	\$31,356,816	\$97,382,695	
Wholesale trade	\$2,728,146	\$3,109,530	\$2,636,578	\$4,381,653	\$7,082,727	\$9,469,198	\$29,407,833	
Retail trade	\$4,592,555	\$5,234,576	\$4,438,409	\$7,376,065	\$11,923,047	\$15,940,426	\$49,505,078	
Transportation and warehousing	\$1,601,074	\$1,824,898	\$1,547,335	\$2,571,472	\$4,156,659	\$5,557,213	\$17,258,651	
Information	\$2,619,301	\$2,985,469	\$2,531,386	\$4,206,838	\$6,800,148	\$9,091,405	\$28,234,547	
Finance and insurance	\$4,273,042	\$4,870,397	\$4,129,621	\$6,862,898	\$11,093,538	\$14,831,421	\$46,060,917	
Real estate and rental and leasing	\$6,316,518	\$7,199,543	\$6,104,509	\$10,144,908	\$16,398,747	\$21,924,179	\$68,088,406	
Professional, scientific, and technical services	\$4,522,332	\$5,154,537	\$4,370,544	\$7,263,281	\$11,740,737	\$15,696,688	\$48,748,119	
Management of companies and enterprises	\$944,493	\$1,076,530	\$912,792	\$1,516,943	\$2,452,064	\$3,278,268	\$10,181,090	
Administrative and waste management services	\$1,537,874	\$1,752,863	\$1,486,256	\$2,469,967	\$3,992,580	\$5,337,849	\$16,577,388	
Educational services	\$435,380	\$496,244	\$420,767	\$699,260	\$1,130,319	\$1,511,172	\$4,693,142	
Health care and social assistance	\$2,921,258	\$3,329,639	\$2,823,208	\$4,691,809	\$7,584,079	\$10,139,476	\$31,489,468	
Arts, entertainment, and recreation	\$502,091	\$572,282	\$485,239	\$806,405	\$1,303,514	\$1,742,722	\$5,412,252	
Accommodation	\$456,447	\$520,256	\$441,126	\$733,095	\$1,185,012	\$1,584,293	\$4,920,229	
Food services and drinking places	\$1,256,984	\$1,432,705	\$1,214,794	\$2,018,831	\$3,263,342	\$4,362,899	\$13,549,555	
Other services	\$1,857,386	\$2,117,042	\$1,795,045	\$2,983,133	\$4,822,089	\$6,446,854	\$20,021,549	
<b>Total</b>	<b>\$82,771,315</b>	<b>\$94,342,431</b>	<b>\$79,993,166</b>	<b>\$132,938,338</b>	<b>\$214,888,311</b>	<b>\$287,293,271</b>	<b>\$892,226,833</b>	

**Table 12. Earnings based on California Type II Multiplier**

	Year									
<u>Industry</u>	<u>2006</u>	<u>2007</u>	<u>2008</u>	<u>2009</u>	<u>2010</u>	<u>2011</u>	<u>Total</u>			
Agriculture, forestry, fishing, and hunting	\$87,778	\$100,049	\$84,832	\$140,980	\$227,887	\$304,672	\$946,198			
Mining	\$101,823	\$116,057	\$98,405	\$163,537	\$264,349	\$353,419	\$1,097,590			
Utilities	\$143,956	\$164,081	\$139,124	\$231,207	\$373,735	\$499,662	\$1,551,765			
Construction	\$13,802,241	\$15,731,742	\$13,338,981	\$22,167,668	\$35,832,950	\$47,906,586	\$148,780,168			
Manufacturing	\$1,804,719	\$2,057,012	\$1,744,146	\$2,898,545	\$4,685,356	\$6,264,051	\$19,453,830			
Wholesale trade	\$884,804	\$1,008,496	\$855,106	\$1,421,077	\$2,297,101	\$3,071,091	\$9,537,675			
Retail trade	\$1,611,607	\$1,836,904	\$1,557,515	\$2,588,390	\$4,184,005	\$5,593,773	\$17,372,195			
Transportation and warehousing	\$568,803	\$648,319	\$549,711	\$913,549	\$1,476,708	\$1,974,273	\$6,131,363			
Information	\$603,914	\$688,339	\$583,644	\$969,941	\$1,567,862	\$2,096,142	\$6,509,842			
Finance and insurance	\$1,253,472	\$1,428,703	\$1,211,401	\$2,013,192	\$3,254,226	\$4,350,713	\$13,511,707			
Real estate and rental and leasing	\$533,691	\$608,299	\$515,778	\$857,157	\$1,385,553	\$1,852,404	\$5,752,884			
Professional, scientific, and technical services	\$2,099,654	\$2,393,178	\$2,029,181	\$3,372,237	\$5,451,057	\$7,287,748	\$22,633,055			
Management of companies and enterprises	\$386,224	\$440,217	\$373,261	\$620,311	\$1,002,703	\$1,340,556	\$4,163,271			
Administrative and waste management services	\$698,714	\$796,392	\$675,263	\$1,122,199	\$1,813,980	\$2,425,187	\$7,531,736			
Educational services	\$179,067	\$204,100	\$173,057	\$287,599	\$464,889	\$621,530	\$1,930,244			
Health care and social assistance	\$1,386,895	\$1,580,778	\$1,340,345	\$2,227,481	\$3,600,614	\$4,813,814	\$14,949,928			
Arts, entertainment, and recreation	\$172,045	\$196,097	\$166,271	\$276,320	\$446,658	\$597,157	\$1,854,548			
Accommodation	\$140,445	\$160,079	\$135,731	\$225,568	\$364,619	\$487,475	\$1,513,917			
Food services and drinking places	\$403,780	\$460,227	\$390,227	\$648,507	\$1,048,280	\$1,401,490	\$4,352,511			
Other services	\$551,247	\$628,309	\$532,745	\$885,353	\$1,431,130	\$1,913,339	\$5,942,123			
<b>Total</b>	<b>\$27,414,882</b>	<b>\$31,247,379</b>	<b>\$26,494,725</b>	<b>\$44,030,820</b>	<b>\$71,173,663</b>	<b>\$95,155,080</b>	<b>\$295,516,548</b>			

**Table 13. Employment Based on California Type II Multiplier**

Industry	Year							Total
	2006	2007	2008	2009	2010	2011		
Agriculture, forestry, fishing, and hunting	4	4	3	6	9	12	38	
Mining	1	1	1	2	3	4	13	
Utilities	1	2	1	2	4	5	15	
Construction	304	347	294	489	790	1,056	3,280	
Manufacturing	35	39	33	56	90	120	373	
Wholesale trade	14	16	14	23	37	50	155	
Retail trade	63	72	61	101	164	219	680	
Transportation and warehousing	13	15	13	21	34	46	143	
Information	8	9	8	13	21	29	89	
Finance and insurance	17	20	17	28	45	61	188	
Real estate and rental and leasing	22	25	21	36	58	77	239	
Professional, scientific, and technical services	31	36	30	51	82	109	339	
Management of companies and enterprises	5	5	4	7	12	16	50	
Administrative and waste management services	29	33	28	46	74	100	309	
Educational services	7	8	6	11	17	23	72	
Health care and social assistance	31	36	30	50	82	109	339	
Arts, entertainment, and recreation	7	8	7	12	19	25	78	
Accommodation	5	5	5	8	12	16	51	
Food services and drinking places	24	27	23	38	62	83	258	
Other services	19	22	18	31	50	66	206	
Total	641	731	620	1,030	1,665	2,226	6,914	

**Table 14. Output Based on Riverside County Type II Multiplier (Construction Only)**

<u>Zip Code</u>	<u>Year</u>							<u>Total</u>
	<u>2006</u>	<u>2007</u>	<u>2008</u>	<u>2009</u>	<u>2010</u>	<u>2011</u>	<u>Total</u>	
91752	\$9,389,591	\$5,254,852	\$404,185	\$10,927,167	\$5,073,981	N/A	\$31,049,775	
92203	\$0	\$0	\$273,324	\$1,640,513	\$1,644,004	N/A	\$3,557,841	
92225	\$0	\$0	\$0	\$0	\$0	N/A	\$0	
92230	\$261,093	\$221,849	\$892,535	\$3,003,066	\$317,104	N/A	\$4,695,646	
92254	\$4,809,932	\$7,981,657	\$9,710,826	\$6,913,425	\$8,596,727	N/A	\$38,012,567	
92274	\$1,026,535	\$1,417,536	\$3,192,865	\$16,007,086	\$49,756,646	N/A	\$71,400,668	
92276	\$2,836,523	\$1,361,051	\$5,721,342	\$22,405,386	\$10,784,124	N/A	\$43,108,425	
92507	\$0	\$122,463	\$2,876,192	\$742,749	\$3,737,526	N/A	\$7,478,930	
92509	\$37,858,349	\$37,351,696	\$15,720,091	\$18,464,092	\$38,578,863	N/A	\$147,973,091	
92530	\$0	\$0	\$514,615	\$0	\$274,134	N/A	\$788,749	
92544	\$0	\$0	\$0	\$0	\$0	N/A	\$0	
92545	\$96,008	\$0	\$0	\$0	\$0	N/A	\$96,008	
92548	\$0	\$0	\$0	\$0	\$0	N/A	\$0	
92562	\$0	\$0	\$812,664	\$570,493	\$0	N/A	\$1,383,157	
92567	\$0	\$1,246,241	\$342,080	\$692,269	\$43,784	N/A	\$2,324,374	
92570	\$0	\$1,855,347	\$262,840	\$2,648,128	\$2,577,143	N/A	\$7,343,459	
92585	\$2,199,081	\$396,990	\$4,360,517	\$5,674,476	\$19,083,911	N/A	\$31,714,974	
92586	\$0	\$7,452	\$647	\$41,580	\$4,559,915	N/A	\$4,609,594	
92595	\$45,722	\$13,020,961	\$3,826,754	\$1,577,239	\$654,566	N/A	\$19,125,243	
92879	\$4,045,908	\$919,624	\$57,707	\$1,322,342	\$0	N/A	\$6,345,581	
92881	\$329,592	\$533,566	\$11,818,022	\$8,390,494	\$17,546,099	N/A	\$38,617,773	
92883	\$0	\$0	\$0	\$0	\$66,171	N/A	\$66,171	
<b>Total</b>	<b>\$62,898,334</b>	<b>\$71,691,283</b>	<b>\$60,787,205</b>	<b>\$101,020,505</b>	<b>\$163,294,698</b>	<b>\$218,315,587</b>	<b>\$678,007,614</b>	

**Table 15. Earnings Based on Riverside County Type II Multiplier (Construction Only)**

Zip Code	Year										Total	
	2006	2007	2008	2009	2010	2011	2011	2011	2011	2011		
91752	\$2,381,729	\$1,332,927	\$102,524	\$2,771,745	\$1,287,047	N/A	\$7,875,973					
92203	\$0	\$0	\$69,330	\$416,127	\$417,012	N/A	\$902,469					
92225	\$0	\$0	\$0	\$0	\$0	N/A	\$0					
92230	\$66,228	\$56,273	\$226,397	\$761,747	\$80,435	N/A	\$1,191,080					
92254	\$1,220,070	\$2,024,598	\$2,463,213	\$1,753,634	\$2,180,615	N/A	\$9,642,129					
92274	\$260,387	\$359,567	\$809,890	\$4,060,299	\$12,621,090	N/A	\$18,111,234					
92276	\$719,502	\$345,239	\$1,451,255	\$5,683,269	\$2,735,462	N/A	\$10,934,726					
92507	\$0	\$31,063	\$729,565	\$188,403	\$948,047	N/A	\$1,897,078					
92509	\$9,603,011	\$9,474,495	\$3,987,501	\$4,683,534	\$9,785,774	N/A	\$37,534,315					
92530	\$0	\$0	\$130,535	\$0	\$69,536	N/A	\$200,071					
92544	\$0	\$0	\$0	\$0	\$0	N/A	\$0					
92545	\$24,353	\$0	\$0	\$0	\$0	N/A	\$24,353					
92548	\$0	\$0	\$0	\$0	\$0	N/A	\$0					
92562	\$0	\$0	\$206,138	\$144,709	\$0	N/A	\$350,847					
92567	\$0	\$316,117	\$86,771	\$175,598	\$11,106	N/A	\$589,592					
92570	\$0	\$470,621	\$66,671	\$671,715	\$653,709	N/A	\$1,862,715					
92585	\$557,811	\$100,699	\$1,106,073	\$1,439,367	\$4,840,755	N/A	\$8,044,705					
92586	\$0	\$1,890	\$164	\$10,547	\$1,156,652	N/A	\$1,169,253					
92595	\$11,598	\$3,302,849	\$970,680	\$400,077	\$166,035	N/A	\$4,851,239					
92879	\$1,026,270	\$233,268	\$14,638	\$335,421	\$0	N/A	\$1,609,597					
92881	\$83,603	\$135,342	\$2,997,716	\$2,128,302	\$4,450,680	N/A	\$9,795,644					
92883	\$0	\$0	\$0	\$0	\$16,785	N/A	\$16,785					
Total	\$15,954,562	\$18,184,950	\$15,419,061	\$25,624,493	\$41,420,738	\$55,377,137	\$171,980,942					



**Table 16. Employment Based on Riverside County Type II Multiplier (Construction Only)**

Zip Code	Year										Total	
	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015		
91752	58	32	67	31	191	N/A	N/A	N/A	N/A	N/A	N/A	191
92203	0	0	10	10	22	N/A	N/A	N/A	N/A	N/A	N/A	22
92225	0	0	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A	0
92230	2	1	18	2	29	N/A	N/A	N/A	N/A	N/A	N/A	29
92254	30	49	42	53	234	N/A	N/A	N/A	N/A	N/A	N/A	234
92274	6	9	98	306	439	N/A	N/A	N/A	N/A	N/A	N/A	439
92276	17	8	138	66	265	N/A	N/A	N/A	N/A	N/A	N/A	265
92507	0	1	5	23	46	N/A	N/A	N/A	N/A	N/A	N/A	46
92509	233	229	113	237	909	N/A	N/A	N/A	N/A	N/A	N/A	909
92530	0	0	0	2	5	N/A	N/A	N/A	N/A	N/A	N/A	5
92544	0	0	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A	0
92545	1	0	0	0	1	N/A	N/A	N/A	N/A	N/A	N/A	1
92548	0	0	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A	0
92562	0	0	4	0	8	N/A	N/A	N/A	N/A	N/A	N/A	8
92567	0	8	4	0	14	N/A	N/A	N/A	N/A	N/A	N/A	14
92570	0	11	16	16	45	N/A	N/A	N/A	N/A	N/A	N/A	45
92585	14	2	35	117	195	N/A	N/A	N/A	N/A	N/A	N/A	195
92586	0	0	0	28	28	N/A	N/A	N/A	N/A	N/A	N/A	28
92595	0	80	10	4	118	N/A	N/A	N/A	N/A	N/A	N/A	118
92879	25	6	8	0	39	N/A	N/A	N/A	N/A	N/A	N/A	39
92881	2	3	52	108	237	N/A	N/A	N/A	N/A	N/A	N/A	237
92883	0	0	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A	0
Total	386	440	621	1003	4166	1341	1341	1341	1341	1341	1341	4166

**Table 17. Output Based on Riverside County Type II Multipliers (Construction, Architecture, Engineering, Management/Science)**

<u>Zip Code</u>	<u>Year</u>								<u>Total</u>
	<u>2006</u>	<u>2007</u>	<u>2008</u>	<u>2009</u>	<u>2010</u>	<u>2011</u>	<u>2010</u>	<u>2011</u>	
91752	\$9,180,744	\$5,137,971	\$395,195	\$10,684,121	\$4,961,123	N/A	\$4,961,123	N/A	\$30,359,154
92203	\$0	\$0	\$267,245	\$1,604,024	\$1,607,438	N/A	\$0	N/A	\$3,478,707
92225	\$0	\$0	\$0	\$0	\$0	N/A	\$0	N/A	\$0
92230	\$255,285	\$216,914	\$872,683	\$2,936,271	\$310,051	N/A	\$310,051	N/A	\$4,591,204
92254	\$4,702,948	\$7,804,126	\$9,494,834	\$6,759,654	\$8,405,516	N/A	\$8,405,516	N/A	\$37,167,077
92274	\$1,003,703	\$1,386,007	\$3,121,848	\$15,651,051	\$48,649,940	N/A	\$48,649,940	N/A	\$69,812,548
92276	\$2,773,432	\$1,330,778	\$5,594,085	\$21,907,037	\$10,544,259	N/A	\$10,544,259	N/A	\$42,149,591
92507	\$0	\$119,739	\$2,812,219	\$726,228	\$3,654,394	N/A	\$3,654,394	N/A	\$7,312,581
92509	\$37,016,289	\$36,520,906	\$15,370,438	\$18,053,407	\$37,720,777	N/A	\$37,720,777	N/A	\$144,681,817
92530	\$0	\$0	\$503,169	\$0	\$268,037	N/A	\$268,037	N/A	\$771,205
92544	\$0	\$0	\$0	\$0	\$0	N/A	\$0	N/A	\$0
92545	\$93,873	\$0	\$0	\$0	\$0	N/A	\$0	N/A	\$93,873
92548	\$0	\$0	\$0	\$0	\$0	N/A	\$0	N/A	\$0
92562	\$0	\$0	\$794,589	\$557,803	\$0	N/A	\$0	N/A	\$1,352,392
92567	\$0	\$1,218,522	\$334,472	\$676,871	\$42,810	N/A	\$42,810	N/A	\$2,272,675
92570	\$0	\$1,814,080	\$256,994	\$2,589,228	\$2,519,821	N/A	\$2,519,821	N/A	\$7,180,123
92585	\$2,150,168	\$388,160	\$4,263,528	\$5,548,263	\$18,659,439	N/A	\$18,659,439	N/A	\$31,009,558
92586	\$0	\$7,286	\$632	\$40,655	\$4,458,492	N/A	\$4,458,492	N/A	\$4,507,065
92595	\$44,705	\$12,731,344	\$3,741,638	\$1,542,158	\$640,007	N/A	\$640,007	N/A	\$18,699,852
92879	\$3,955,917	\$899,169	\$56,423	\$1,292,930	\$0	N/A	\$0	N/A	\$6,204,440
92881	\$322,261	\$521,698	\$11,555,161	\$8,203,869	\$17,155,832	N/A	\$17,155,832	N/A	\$37,758,821
92883	\$0	\$0	\$0	\$0	\$64,699	N/A	\$64,699	N/A	\$64,699
<b>Total</b>	<b>\$61,499,326</b>	<b>\$70,096,699</b>	<b>\$59,435,153</b>	<b>\$98,773,569</b>	<b>\$159,662,635</b>	<b>\$213,459,729</b>	<b>\$159,662,635</b>	<b>\$213,459,729</b>	<b>\$662,927,111</b>

**Table 18. Earnings Based on Riverside County Type II Multipliers (Construction, Architecture, Engineering, Management/Science)**

<u>Zip Code</u>	<u>Year</u>							<u>Total</u>
	<u>2006</u>	<u>2007</u>	<u>2008</u>	<u>2009</u>	<u>2010</u>	<u>2011</u>		
91752	\$2,386,473	\$1,335,581	\$102,728	\$2,777,266	\$1,289,611	N/A	\$7,891,659	
92203	\$0	\$0	\$69,468	\$416,955	\$417,843	N/A	\$904,266	
92225	\$0	\$0	\$0	\$0	\$0	N/A	\$0	
92230	\$66,360	\$56,385	\$226,848	\$763,264	\$80,596	N/A	\$1,193,453	
92254	\$1,222,500	\$2,028,630	\$2,468,119	\$1,757,127	\$2,184,958	N/A	\$9,661,333	
92274	\$260,906	\$360,283	\$811,503	\$4,068,386	\$12,646,226	N/A	\$18,147,305	
92276	\$720,935	\$345,927	\$1,454,145	\$5,694,588	\$2,740,910	N/A	\$10,956,504	
92507	\$0	\$31,125	\$731,018	\$188,778	\$949,935	N/A	\$1,900,856	
92509	\$9,622,137	\$9,493,365	\$3,995,443	\$4,692,862	\$9,805,264	N/A	\$37,609,070	
92530	\$0	\$0	\$130,795	\$0	\$69,674	N/A	\$200,470	
92544	\$0	\$0	\$0	\$0	\$0	N/A	\$0	
92545	\$24,402	\$0	\$0	\$0	\$0	N/A	\$24,402	
92548	\$0	\$0	\$0	\$0	\$0	N/A	\$0	
92562	\$0	\$0	\$206,548	\$144,997	\$0	N/A	\$351,545	
92567	\$0	\$316,747	\$86,944	\$175,948	\$11,128	N/A	\$590,767	
92570	\$0	\$471,558	\$66,804	\$673,052	\$655,011	N/A	\$1,866,425	
92585	\$558,922	\$100,899	\$1,108,276	\$1,442,234	\$4,850,396	N/A	\$8,060,727	
92586	\$0	\$1,894	\$164	\$10,568	\$1,158,955	N/A	\$1,171,581	
92595	\$11,621	\$3,309,428	\$972,614	\$400,874	\$166,366	N/A	\$4,860,901	
92879	\$1,028,314	\$233,733	\$14,667	\$336,089	\$0	N/A	\$1,612,803	
92881	\$83,770	\$135,612	\$3,003,687	\$2,132,541	\$4,459,544	N/A	\$9,815,153	
92883	\$0	\$0	\$0	\$0	\$16,818	N/A	\$16,818	
<b>Total</b>	<b>\$15,986,338</b>	<b>\$18,221,168</b>	<b>\$15,449,770</b>	<b>\$25,675,528</b>	<b>\$41,503,233</b>	<b>\$55,487,428</b>	<b>\$172,323,466</b>	

**Table 19. Employment Based on Riverside County Type II Multipliers (Construction, Architecture, Engineering, Management/Science)**

<u>Zip Code</u>	<u>Year</u>										<u>Total</u>	
	<u>2006</u>	<u>2007</u>	<u>2008</u>	<u>2009</u>	<u>2010</u>	<u>2011</u>	<u>2010</u>	<u>2009</u>	<u>2008</u>	<u>2007</u>		
91752	47	26	2	54	25	N/A	25	2	54	25	N/A	154
92203	0	0	1	8	8	N/A	8	1	8	8	N/A	18
92225	0	0	0	0	0	N/A	0	0	0	0	N/A	0
92230	1	1	4	15	2	N/A	2	4	15	2	N/A	23
92254	24	39	48	34	42	N/A	42	48	34	42	N/A	188
92274	5	7	16	79	246	N/A	246	16	79	246	N/A	353
92276	14	7	28	111	53	N/A	53	28	111	53	N/A	213
92507	0	1	14	4	18	N/A	18	14	4	18	N/A	37
92509	191	185	78	91	191	N/A	191	78	91	191	N/A	735
92530	0	0	3	0	1	N/A	1	3	0	1	N/A	4
92544	0	0	0	0	0	N/A	0	0	0	0	N/A	0
92545	0	0	0	0	0	N/A	0	0	0	0	N/A	0
92548	0	0	0	0	0	N/A	0	0	0	0	N/A	0
92562	0	0	4	3	0	N/A	0	4	3	0	N/A	7
92567	0	6	2	3	0	N/A	0	2	3	0	N/A	11
92570	0	9	1	13	13	N/A	13	1	13	13	N/A	36
92585	11	2	22	28	94	N/A	94	22	28	94	N/A	157
92586	0	0	0	0	23	N/A	23	0	0	23	N/A	23
92595	0	64	19	8	3	N/A	3	19	8	3	N/A	95
92879	20	5	0	7	0	N/A	0	0	7	0	N/A	32
92881	2	3	58	41	87	N/A	87	58	41	87	N/A	191
92883	0	0	0	0	0	N/A	0	0	0	0	N/A	0
<b>Total</b>	<b>317</b>	<b>354</b>	<b>300</b>	<b>499</b>	<b>807</b>	<b>1079</b>	<b>807</b>	<b>300</b>	<b>499</b>	<b>807</b>	<b>1079</b>	<b>3357</b>

**Table 20. Tax Revenues in Riverside County Due to RCEDA Spending, 2006 – 2011.**

<u>Industry</u>	<u>Business Taxes</u>	<u>Sales Taxes</u>	<u>Personal Income Tax</u>	<u>Total</u>
Agriculture, forestry, fishing, and hunting	\$10,424		\$13,552	\$249,171
Mining	\$17,016		\$48,187	\$436,113
Utilities	\$81,173		\$97,370	\$870,687
Construction	\$1,028,708		\$4,801,750	\$39,152,712
Manufacturing	\$286,358		\$530,807	\$7,053,083
Wholesale trade	\$26,949		\$233,724	\$1,750,934
Retail trade	\$83,006	\$3,245,459	\$288,771	\$3,617,236
Transportation and warehousing	\$71,096		\$126,609	\$1,423,032
Information	-\$15,483*		\$93,098	\$865,798
Finance and insurance	\$185,361		\$178,966	\$1,539,978
Real estate and rental and leasing	\$372,848		\$79,131	\$3,925,945
Professional, scientific, and technical services	\$20,534		\$397,602	\$2,309,113
Management of companies and enterprises	\$1,618		\$38,522	\$189,166
Administrative and waste management services	\$17,831		\$97,884	\$1,026,431
Educational services	\$9,166	\$185,455	\$20,467	\$215,087
Health care and social assistance	\$46,185		\$329,578	\$1,995,181
Arts, entertainment, and recreation	\$1,525	\$178,831	\$16,337	\$196,693
Accommodation	\$7,498	\$281,494	\$27,460	\$316,452
Food services and drinking places	\$19,054	\$715,326	\$44,103	\$778,483
Other services	\$34,591	\$1,149,157	\$106,357	\$1,290,105
Total	\$2,305,459	\$5,755,722	\$7,570,274	\$15,631,456

\*We note that this negative value is not due to a mathematical error. Margins in this sector have been highly volatile for a considerable period of time, reflecting the end of the dot com bubble and other factors. The median margin across all U.S. firms in this sector is indeed negative. We view the accuracy of this particular result with skepticism due to the within sector volatility, but note that the small magnitude of the business taxes indicates it does not have an important influence on the overall tax results presented here.

**Table 21: Output, Employment and Income Results based on Low- and Moderate- Housing Spending, 2000 - 2011**

<u>Industry</u>	<u>Output</u>	<u>Earnings</u>	<u>Employment</u>
Agriculture, forestry, fishing, and hunting	\$369,240	\$65,160	2
Mining	\$608,160	\$124,890	2
Utilities*	\$1,134,870	\$190,050	2
Construction	\$54,636,660	\$15,176,850	335
Manufacturing	\$10,224,690	\$1,618,140	34
Wholesale trade	\$2,443,500	\$575,580	9
Retail trade	\$5,321,400	\$1,563,840	61
Transportation and warehousing*	\$2,009,100	\$428,970	10
Information	\$1,292,340	\$211,770	3
Finance and insurance	\$1,927,650	\$412,680	6
Real estate and rental and leasing	\$5,696,070	\$423,540	16
Professional, scientific, and technical services	\$3,100,530	\$988,260	16
Management of companies and enterprises	\$244,350	\$81,450	1
Administrative and waste management services	\$1,493,250	\$570,150	25
Educational services	\$304,080	\$108,600	4
Health care and social assistance	\$2,655,270	\$1,064,280	24
Arts, entertainment, and recreation	\$293,220	\$97,740	4
Accommodation	\$461,550	\$130,320	4
Food services and drinking places	\$1,172,880	\$347,520	21
Other services*	\$1,884,210	\$494,130	17
<b>Total</b>	<b>\$97,273,020</b>	<b>\$24,673,920</b>	<b>598</b>

## **5. Conclusion**

This study examines the effects of spending by the Riverside County Economic Development Agency (RCEDA) on the local (and to a lesser extent, the statewide) economy over the six fiscal years ending in June 2011. Overall, we find that, due to both direct spending and multiplier effects, total spending of approximately \$378.5 million by the RCEDA generated output valued between \$663 and \$678 million, personal income about \$172 million, and between 3,357 and 4,156 jobs. In addition, the Riverside projects created value outside of Riverside County but within California of roughly \$224 million in output, \$123 million in income, and 2,748 jobs. Separately, spending of \$54.3 million on Low- to Moderate-Income Housing over the period from 2000 to early 2011 resulted in an additional output value of approximately \$97.3 million, income of about \$24.7 million, and 598 jobs over that period of time. Finally, total California tax revenues consequent to the projects, including business, sales, and personal taxes, sums to about \$15.6 million.

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