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GOVERNMENTAL COSTS AND REVENUES ASSOCIATED WITH GEOTHERMAL ENERGY DEVELOPMENT IN IMPERIAL COUNTY



Division of Agricultural Sciences
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GOVERNMENTAL COSTS AND REVENUES ASSOCIATED WITH
GEOTHERMAL ENERGY DEVELOPMENT
IN IMPERIAL COUNTY

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SUMMARY

This study estimates the cost and revenue impacts to local governments of three geothermal energy growth scenarios in Imperial County. The level of geothermal energy potential for the three development scenarios tested is 2,000, 4,000 and 8,000 megawatts. This would be enough electric power to serve 270,000 to 1,000,000 people. The government agencies involved do not expect any substantial additional capital costs due to geothermal energy development; therefore average costing techniques have been used for projecting public service costs and government revenues.

The analysis of the three growth scenarios tested indicates the following:

- * County population would increase by 3, 7 and 19 percent and assessed values would increase by 20, 60, and 165 percent for Alternatives #1, #2 and #3 respectively.
- * Direct and indirect effects would increase new jobs in the county by 1,000, 3,000 and 8,000.
- * Government revenues would tend to exceed public service costs for county and school districts, while city costs would tend to exceed revenues. In each of the alternatives, if county, cities and school districts are grouped together, the revenues exceed costs by an estimated \$1,600 per additional person either directly or indirectly related to geothermal energy development in the operational stages.

County government	+ \$ 480 per new person
City governments	- 50 " " "
School districts	+ 1,170 " " "
<hr/>	
All combined	+ \$1,600

- * In the tenth year of development, while facilities are still being explored, developed and constructed, the revenues would exceed costs by an approximate \$1,000 per additional person for each alternative.
- * School districts with geothermal plants in their boundaries would be required by legislation SB 90 to reduce their tax rates by 15 to 87 percent, depending on the level of energy development. Revenue limits and school taxing methods will be affected by the Serrano-Priest decision and by new school legislation in process.

INTRODUCTION

The purpose of this study is to evaluate the fiscal impacts to local government units of potential geothermal energy development in Imperial County. It does not attempt to deal with impacts to the private sector or costs and revenues to the state or federal governments.

The study area encompasses Imperial County's entire 4,241 square miles, or 2.7 percent of the state's total area. Imperial County is bordered by Riverside and San Diego Counties on the north and west respectively while its eastern border runs along the Colorado River (Arizona). To the south lies Mexico. The county's population in 1975 was 83,800 which represents 0.4 percent of the state's population. The assessed valuation of \$290 million for the county represents 0.35 percent of the state total.

The three levels of geothermal development chosen for this study test the fiscal implications of 'growth scenarios' based on parameters set forth in Lawrence Livermore Laboratory publications, primarily A Scenario for Geothermal Electric Power Development in Imperial Valley by Donald Ermak, which locates probable sites for geothermal wells and electric generating plants. Also used were reports from the Drylands Research Institute at the University of California in Riverside; primarily The Cost of Geothermal Energy Development by Tod Larson, which deals with the taxing structure for geothermal wells and plants, and The Economic Impacts of Geothermal Energy Development in Imperial County by Adam Rose, which examines direct and indirect geothermal employment demands. The other information needed to round out the impacts to the county's government, the cities and the school districts was developed from other related documents and through interviews with county officials.

Briefly the three geothermal scenarios are as follows:

Alternative #1: This alternative assumes that difficulties arise in geothermal exploration, power plant construction and the permit approval process, and that the geothermal resource is smaller than currently expected. It locates five 200 megawatt (mw) plants in the four KGRA's for a total of 1,000 mw capacity developed between 1980 and 2020, and brings 40 mw's on line per year over a forty-year period. Two plants would be located in the Heber area while one each would be in Holtville, Brawley, and the Salton Sea. This alternative has an estimated population growth at completion of 2,000 and 1,000 new jobs would be created. County-wide assessed valuation (A/V) would increase by \$60 million or 20 percent over the current A/V.

Alternative #2: This alternative has a 3,000 mw power production and is consistent with Lawrence Livermore Laboratory forecasts based on current data concerning technology and estimated heat resources in the four Imperial County KGRA's. The first electric power in this alternative would be produced in 1982 with the maximum level of 3,000 mw being attained in 2010. The growth rate would be approximately 100 mw per year. Fifteen 200 mw plants would be necessary to reach the 3,000 mw limit. Three would locate in the Heber KGRA, two in Holtville, three in Brawley and the remaining seven in the Salton Sea KGRA. This alternative would increase the county's population by 6,000 while creating 3,000 additional jobs by completion. A/V would increase by \$179 million or 62 percent over the current A/V.

Alternative #3: This alternative has a maximum power production level of 8,000 mw. An accelerated growth rate is assumed and the geothermal

resource is taken to be about three times larger than current estimates indicate. Production would begin in 1980 and be fully developed by 2020; thus the growth rate would be about 200 mw per year. Forty geothermal plants would be necessary to produce the 8,000 mw in this alternative. Twenty would locate in the Salton Sea KGRA, while Heber would have nine, Holtville would have four and Brawley's KGRA would have seven. This alternative increases the county's population by 16,000 while creating 8,000 new jobs. The county's A/V would increase by \$476 million or 164 percent over the current A/V.

Table 1

Highlights of Geothermal Growth - Plant Location, Population, Jobs & A/V

	Alternative #1	Alternative #2	Alternative #3
Total Electric Output (mw)	1,000	3,000	8,000
No. of 200 mw Power Plants	5	15	40
1. Salton Sea KGRA	(20%) 1	(47%) 7	(50%) 20
2. Brawley KGRA	(20%) 1	(20%) 3	(18%) 7
3. Heber KGRA	(40%) 2	(20%) 3	(22%) 9
4. Holtville (E. Mesa) KGRA	(20%) 1	(13%) 2	(10%) 4
<u>TOTAL</u>	(100%) 5	(100%) 15	(100%) 40
<u>Population Increase at Completion*</u>	2,016	6,049	16,130
<u>Jobs Created (Direct and Indirect)</u>	997	2,992	7,979
<u>Assessed Valuation Increase at Completion in millions of dollars**</u>	\$ 59.5	\$ 178.6	\$ 476.3

* 83,800 population in 1975

** \$290 million A/V in 1975-76

The first alternative distributes the production of electric power fairly evenly among the four Imperial Valley KGRA's. This situation reflects the current interest and activity in each area. The second alternative concentrates a

higher percentage of power in the Salton Sea while that in the other three KGRA's decreases so as to approach the predicted levels of geothermal resource available in each KGRA. At the highest level of production, half the commercially available power is produced in the Salton Sea KGRA.

To evaluate the fiscal impacts of the three alternatives, the study identifies the estimated assessed valuation of the geothermal power plants outside the municipal taxing areas and the A/V of residential, commercial and indirectly-related industries, as well as population, inside the municipal taxing areas. The current revenues and expenditures associated with local agency services in relation to property and people within the study area are first identified. Then the effect of population growth and land use changes on these revenues and expenditures are determined. Finally these revenue and expenditure factors are applied to the three alternative scenarios.

LOCATION OF GEOTHERMAL ENERGY PLANTS

The criteria used for siting geothermal power plants include: resource location, water availability, conflicts in land use and seismic risk. The primary restriction in locating the five to forty Imperial County geothermal plants is that they require a buffer zone of no less than half a mile from municipal boundaries. This means that the geothermal plants are outside city taxing areas. On the other hand, the study assumes that workers and families who directly and indirectly support geothermal development will be located within municipal taxing and service boundaries.

Geothermal energy development is not expected to affect the current agricultural use in the Imperial Valley. At the highest level considered, 8,000 mw, less than one half of one percent of the existing agricultural land area is used. Thus for the alternatives tested, the impact to land values and population will be a net increase with no negative effect to the current economic and taxing structure.

The four 'Known Geothermal Resource Areas' (KGRA) and their geographic relation to existing cities and waterways is shown in Figure 1, while the locations of the geothermal energy facilities for Alternatives #1, #2, and #3 are indicated in Figures 2, 3, and 4 respectively. It should be noted that the forty power plant sites in Alternative #3 include all fifteen sites from Alternative #2, which in turn includes all five sites from Alternative #1. However, the siting locations are not intended to be predictions of the actual locations of future power plants. Rather, they are hypothetical locations chosen from regions which appear to be suitable for geothermal development. The purpose of the siting patterns is to allow for the assessment of county-wide fiscal impacts as well as city and school cost and revenue impacts.

Figure 1

Imperial Valley

Known Geothermal Resource Areas, Cities, and Waterways

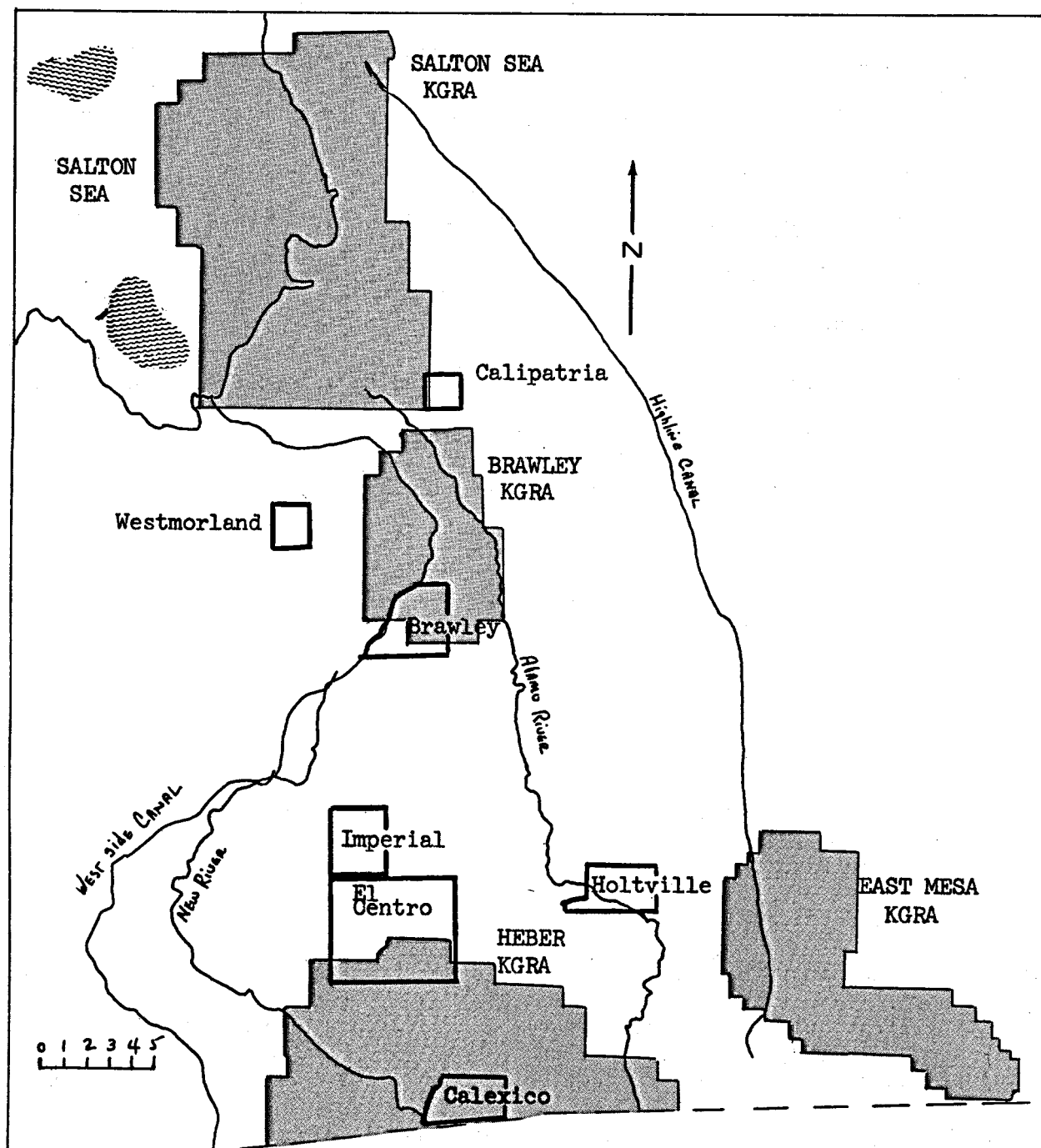


Figure 2

Alternative #1

Hypothetical Sitings of Five 200 megawatt Geothermal Facilities

Electric capacity: 1,000 mw
Increase A/V: \$59.5 million or 20 percent of county total
Increase population: 2,000 or 2 percent of county total

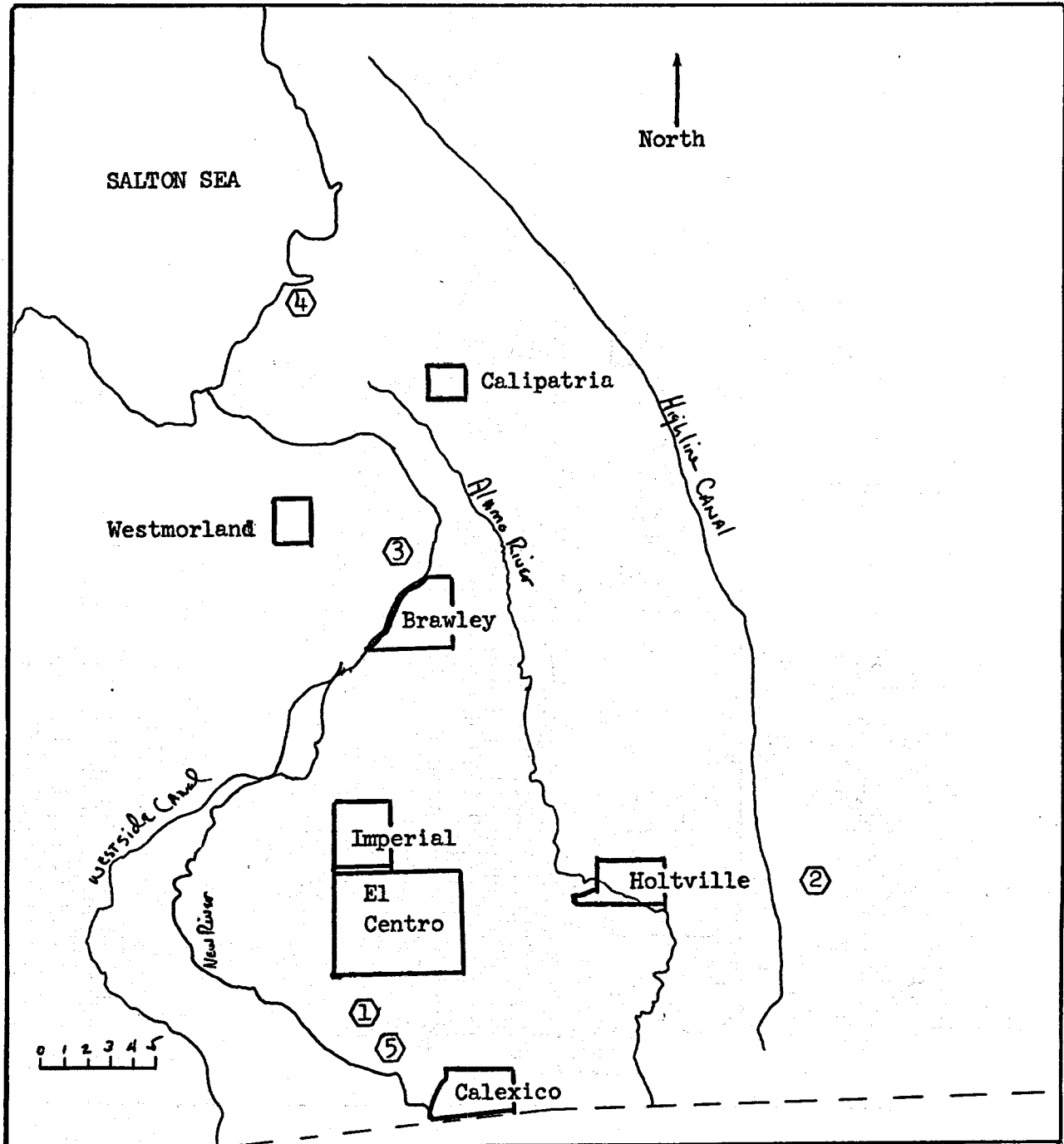
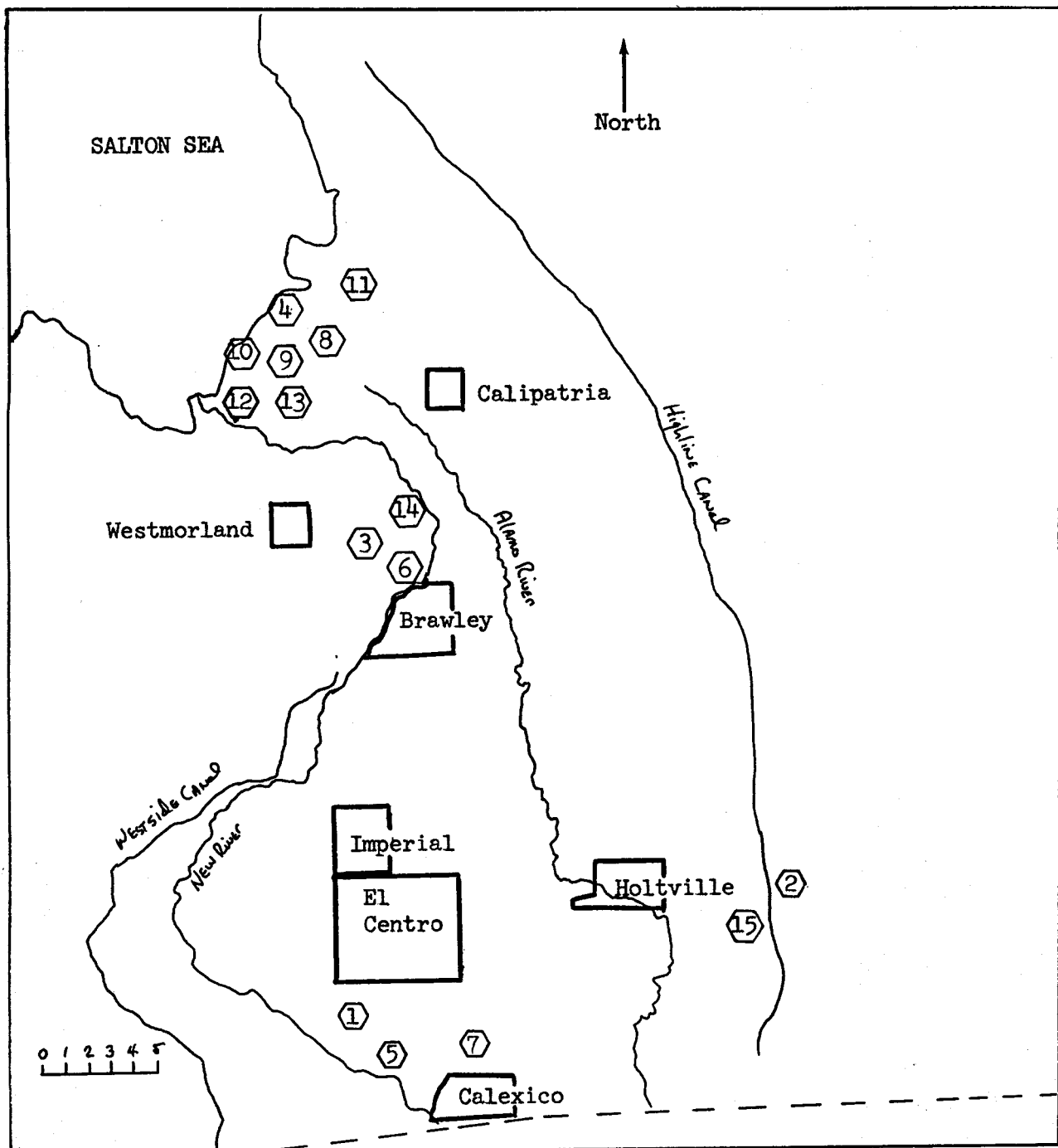


Figure 3

Alternative #2

Hypothetical Sitings of Fifteen 200 megawatt Geothermal Facilities^{1/}

Electric capacity: 3,000 mw
Increase A/V: \$178.6 million or 62 percent of county total
Increase population: 6,000 or 7 percent of county total



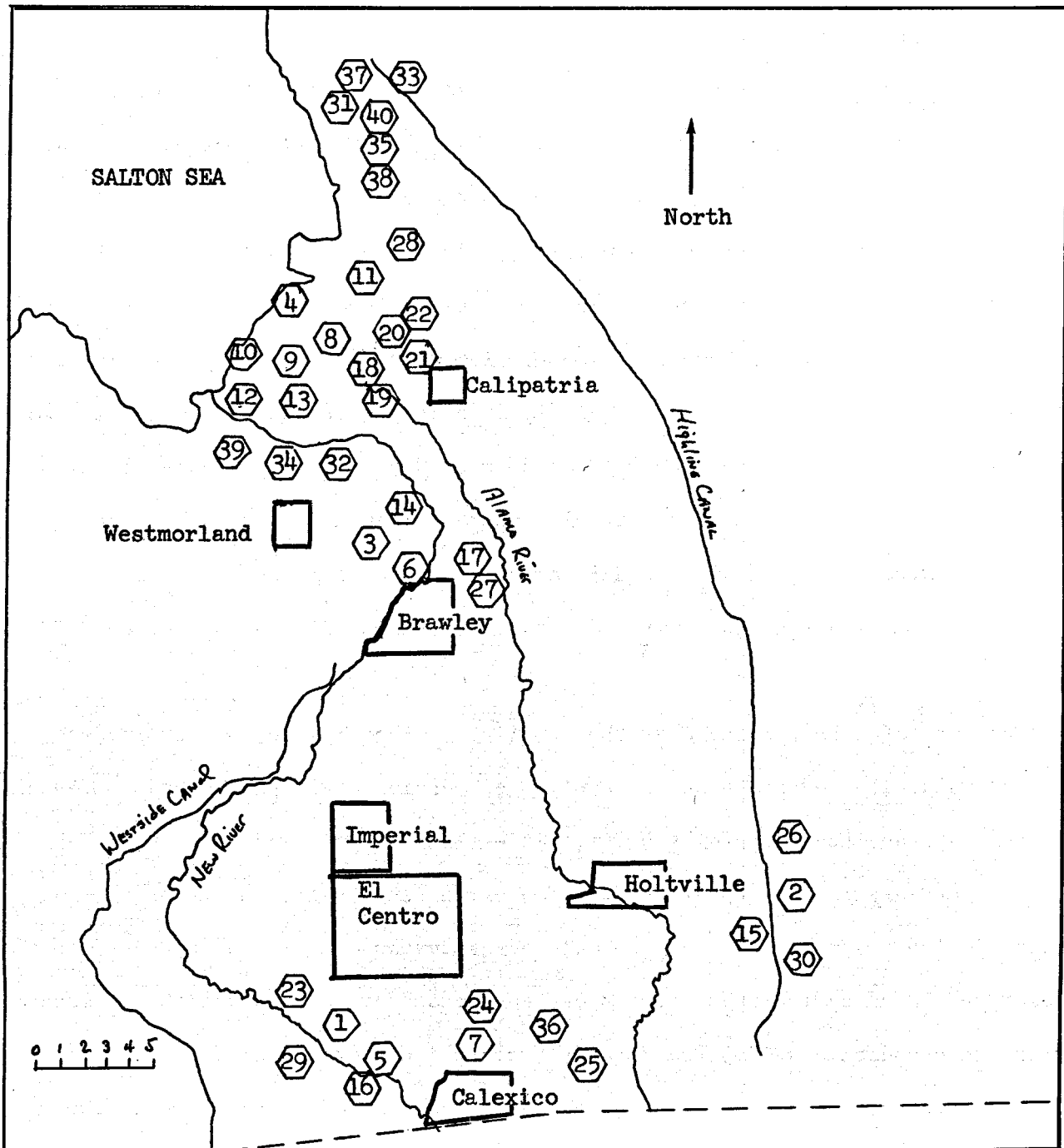
^{1/} All five sites in Alternative #1 are included in the sitings of Alternative #2.

Figure 4

Alternative #3

Hypothetical Sitings of Forty 200 megawatt Geothermal Facilities^{1/}

Electric capacity: 8,000 mw
Increase A/V: \$476.3 million or 164 percent of county total
Increase population: 16,100 or 19 percent of county total



^{1/} All fifteen sites in Alternative #2 are included in the sitings of Alternative #3.

The location process is divided into three impact categories:

1. Primary impact represents the actual location of the geothermal facility represented by the generating plant and supporting wells. The type of impact will be the increase in assessed valuation only. In all three alternatives tested, the primary impact of the geothermal facility is within the KGRA's and outside the cities' boundaries.

2. Secondary impact represents the families of those people employed directly by the geothermal energy industry. This impact is determined by locating all new families in one of the seven cities in the county. In order to allow for personal preferences and a reasonable commute-time from cities to the facility location, a graduated system for placing families is used. Sixty percent of the directly-employed families have been located in the city closest to the facility location, while thirty percent have been located in the second closest city, and the remaining ten percent have been located in El Centro. For example, if a geothermal plant is located in the Brawley KGRA, 60 percent of the families directly related to that plant would be assumed to locate in the city of Brawley, 30 percent in Calipatria, the next closest city, and the final 10 percent in El Centro.

The type of impact created by the families will be in the form of increased assessed valuation for homes and supporting commercial development, and increases in both costs and revenues for schools, cities and the county government.

3. Tertiary impact represents the employment and family impact of those persons indirectly related to geothermal energy development. The increased population caused by indirect effects of geothermal development will be located within the boundaries of Imperial County's seven incorporated cities. The allocation to each city is based on the current population in relation to the total seven city population. For example, Brawley's population of 13,946

represents 24 percent of that of all Imperial County cities (population 59,500).

The type of impact created by families indirectly related to geothermal development will be increased assessed valuation on homes, increased commercial activity and industrial expansion, and increases in both the costs and revenues for schools, cities and the county's government.

EXISTING COSTS AND REVENUES

The study's approach to revenues is to regard them as generated from people or through property, while costs are seen as services to people or property. Property-related taxes and services are based on a piece of property's assessed valuation; thus the more value placed on a piece of property, the greater its tax and service necessity. People-related costs and revenues can be divided into two categories: student and non-student. Costs associated with people include health care, welfare, schools and most police protection, while revenues are largely from sales tax, service fees and state and federal aid.

There are nineteen local government agencies used in this study's analysis which can be divided into three major categories.

Imperial County Government

Imperial County's 1975-76 costs and revenues are distributed into two categories: property and non-student population. First, the entire budget has been separated into property-related and people-related costs and revenues (see Appendix A). Costs are allocated according to the sub-agency within the County's government. Property-related costs are: general government, plant management, revenue sharing, fire protection, planning and protective inspection, public ways, health and sanitation and Cooperative Extension services. The total costs allocated to property are about 45 percent of the budget. People-related costs represent the remaining 55 percent and include: elections, judicial, sheriff, correction, public health, hospital care, welfare, education and parks and recreation.

The county government has two sources of revenue: (1) local sources, including property tax (67 percent of property-related revenues) and sales tax and fees

charged for services (25 percent of people-related revenues) and (2) aid from state and federal governments which supplies the balance (33 percent of property-related and 75 percent of people-related revenues). About 65 percent of this aid is designated for specific programs, e.g. federal aid for children (people-related) and state highway users' tax (property-related). The remaining 35 percent of state and federal contributions are general fund revenues which are allocated to sub-agencies within the county government according to need.

As illustrated in Table 2, at the present time it costs the county less to supply services to property than it receives in revenue derived from property (net surplus revenue of \$2.20 per \$100 of assessed valuation), while services to people exceed people-related revenues by \$38.85 per resident. Thus, as a practical matter, the county government uses its property tax revenue surplus to subsidize its people-related costs.

Costs and revenues that will be affected by geothermal energy facilities are included in the property-related section in the table and are distinguished by an asterisk. Here the study assumes the minimum expenditure for geothermal plants to include general government and protective inspection and planning. This implies that the other service categories (fire protection, waste disposal, road maintenance, and other county services) will be handled privately. Revenues will be derived solely from property tax and license and permits. Geothermal wells and electric generating plants would expect to generate revenues in excess of expenditures of \$1.67 per \$100 of A/V.

Incorporated Cities in Imperial County

For the seven incorporated cities in Imperial County, the costs and revenues serve and are derived from property and non-student population. An estimated 59,500 people live in the seven incorporated cities in Imperial County.

Table 2

Imperial County Costs and Revenues - 1975-1976

	<u>Revenue</u>	<u>Costs</u>
Property-Related Revenues <u>1/</u>		
	per \$100 of A/V	
Property tax	\$ 2.53*	
Licenses and permits	.19*	
From other governments	1.83	
Service charges and other revenue	1.15	
<u>Total</u>	\$ 5.70	
Total geothermal-related revenue	\$ 2.72*	
Property-Related Costs		
		per \$100 of A/V
General government		\$.62*
Plant management - revenue sharing		1.02
Fire protection		.15
Protective inspection and planning		.43*
Public ways		1.16
Health and sanitation - solid waste		.08
Cooperative Extension Service		.04
<u>Total</u>		\$ 3.50
Total geothermal-related costs		\$ 1.05*
Net Difference per \$100 of A/V		
Excess revenue: \$2.20; excess revenue for geothermal-related items: \$1.67*		
People-Related Revenue <u>2/</u>		
	per person	
Sales tax	\$ 18.42	
Licenses, permits and fines	9.37	
Interest, rents and concession	5.51	
From other governments - Welfare	66.12	
Grants, revenue sharing, highway tax and beverage fees	54.45	
Service fees, library, parks and rec., other revenue	57.95	
<u>Total</u>	\$ 223.82	
People-Related Costs		
		per person
Elections, communication, revenue sharing		\$ 29.25
Public protection, police, detention and correction, judicial		60.41
Health department		14.80
Welfare - administration and aid		151.17
Libraries and school administration		3.27
Parks and recreation		3.77
<u>Total</u>		\$ 262.67
Net Difference per Person		
Excess costs: \$38.85		

1/ Assessed valuation: \$289,956,495

2/ Population: 83,800

* Cost and revenue items which will potentially be affected by future geothermal energy development.

Table 3

Incorporated Cities in Imperial County
Status of Population & A/V - 1975-1976

<u>City</u>	<u>Population (%)</u>		<u>A/V (1975-1976)</u>
Brawley	13,946	(24%)	20,808,590
Calexico	13,000	(23%)	20,027,150
Calipatria	2,080	(3%)	2,516,390
El Centro	21,374	(36%)	43,205,910
Holtville	4,450	(7%)	5,396,985
Imperial	3,210	(5%)	5,407,360
Westmorland	1,440	(2%)	716,505
	59,500	(100%)	

Property-related costs and revenues are based on assessed valuation of land and improvements. The revenues derived from this assessment come from property tax, income from permits, fees and investments, as well as aid from state and federal governments. The costs related to property come from general government, insurance, 20 percent of police costs, fire protection and public works. The property costs and expenditures vary according to city but in every case the costs exceed the revenues. Some of the highlights of the property-related costs and revenues as well as the net cost difference can be noted in Table 4.

Revenues derived from the city population are in the form of sales and business-related taxes, fines, concession rentals, alcohol, cigarette and gasoline taxes, federal revenue sharing and park and recreation fees. The costs related to population are for police protection (80%), community promotion and elections, city enterprises and libraries and parks. Each resident currently generates more revenue than costs for the seven city governments, with the amount per person varying from \$4.56 to \$91.70. A thorough analysis can be found in Table 5 and a detailed cost/revenue percentage breakdown for cities can be found in Appendix B.

Table 4

Incorporated Cities - Property-Related Costs and Revenues - 1975-1976

	<u>Brawley</u> Revenue Costs	<u>Gallexico</u> Revenue Costs	<u>Calipatria</u> Revenue Costs	<u>El Centro</u> Revenue Costs	<u>Holtville</u> Revenue Costs	<u>Imperial</u> Revenue Costs	<u>Westmorland</u> Revenue Costs
<u>Property-Related Revenue</u>							
Property tax	\$ 3.61	\$ 2.82	\$ 4.12	\$ 2.59	\$ 4.30	\$ 3.30	\$ 3.08
Construction permits	.13	.34	.21	.14	.11	.05	.25
Service fees	1.02	1.41	.64	1.47	1.31	1.12	5.55
From other governments	1.07	1.13	2.99	1.43	8.42	2.32	4.83
Investments - money and property use	.12	.53	.84	.32	.46	.34	1.56
TOTAL	\$ 5.95	\$ 6.23	\$ 8.80	\$ 5.95	\$14.60	\$ 7.13	\$15.27
<u>Property-Related Costs</u>							
General government	\$.94	\$ 1.25	\$ 1.96	\$.60	\$.86	\$.81	\$ 3.91
Debt service and insurance - retirement	1.52	.14	1.65	1.05	.72	.59	3.02
Promotion, elections							
Police protection (at 20%)	.48	.55	.78	.50	.63	.59	1.30
Fire and building protection	1.61	1.56	1.17	1.23	1.68	.47	6.23
Street lighting and parking	2.16	2.58	1.60	1.78	2.52	3.30	7.20
Sewage collection and disposal	1.10	3.17	3.34	1.51	8.82	2.13	1.41
City enterprises and other costs	.13	.46	.85	.07	.12		.13
TOTAL	\$ 7.94	\$ 9.71	\$11.35	\$ 6.74	\$15.35	\$ 7.89	\$23.20
<u>Net Difference</u>							
Excess	Costs \$1.99 per \$100 of A/V	Costs \$3.48 per \$100 of A/V	Costs \$2.55 per \$100 of A/V	Costs \$.79 per \$100 of A/V	Costs \$.75 per \$100 of A/V	Costs \$.76 per \$100 of A/V	Costs \$7.93 per \$100 of A/V
Total Assessed Valuation	\$ 20,808,590	\$ 20,027,150	\$ 2,516,390	\$ 43,205,910	\$ 5,396,985	\$ 5,407,360	\$ 716,505

Table 5

Incorporated Cities - People-Related Costs and Revenues - 1975-1976

	<u>Brawley</u>		<u>Calxico</u>		<u>Calipatria</u>		<u>El Centro</u>		<u>Holtville</u>		<u>Imperial</u>		<u>Westmorland</u>	
	Revenue	Costs	Revenue	Costs	Revenue	Costs	Revenue	Costs	Revenue	Costs	Revenue	Costs	Revenue	Costs
<u>People-Related Revenue</u>														
Sales and business-related tax	\$ 54.23		\$ 65.79		\$ 36.20		\$ 67.14		\$ 29.05		\$ 38.06		\$ 23.18	
Licenses, fines, rents and investments	3.74		13.72		10.13		5.04		1.88		4.34		11.60	
From other governments - county, state, fed. grants	18.47		56.79		20.25		19.74		10.52		21.88		40.40	
Vehicle, cigarette, alcohol beverage tax	21.65		22.29		23.06		21.91		20.52		29.26		23.91	
Library, park, maps, police and other services	2.66		13.49		6.24		4.85		5.65		4.90		12.15	
TOTAL	\$100.75		\$172.08		\$ 95.88		\$118.68		\$ 67.62		\$ 98.44		\$111.24	
<u>People-Related Costs</u>														
Community promotion, election, insurances, retirement		\$ 16.95		\$ 11.35		\$ 14.52		\$ 18.97		\$ 8.20		\$ 12.08		\$ 12.66
Police protection (at 80%)		28.66		33.99		37.95		40.29		30.76		39.68		25.87
Animal regulation and civil defense		.18		1.28		1.13		1.23		1.66		1.65		1.39
Health service, city enterprises and other costs		1.16		3.60		5.60		.93		.48				.37
Libraries and parks		24.75		30.16		15.71		33.03		21.96		15.06		24.47
TOTAL		\$ 71.70		\$ 80.38		\$ 74.91		\$ 94.45		\$ 63.06		\$ 68.47		\$ 64.76
<u>Net Difference</u>														
Excess	Revenue		Revenue		Revenue		Revenue		Revenue		Revenue		Revenue	
	\$29.05		\$91.70		\$20.97		\$24.23		\$ 4.56		\$29.97		\$46.48	
	per person		per person		per person		per person		per person		per person		per person	
Total Population	13,946		13,000		2,080		21,374		4,450		3,210		1,440	

Educational Services

The study area includes five elementary school districts, two high school districts and four unified school districts. The elementary school districts include grades kindergarten through eight and are in every case included within a high school district (grades nine through twelve). The four unified school districts include all grades from kindergarten through twelve, but have education costs broken into kindergarten through eighth grade and ninth through twelfth grade, because the cost of education for the ninth through twelfth category is approximately 15 percent higher than the kindergarten through eighth grade group. For all the eleven school districts within the study area costs are determined by dividing the 1975-76 school district operational costs by the average daily attendance (ADA) or student population, while revenues are broken down into three major revenue sources:

1. Property-related revenue - A/V times current tax rate. In this case the revenues are directly related to the assessed valuation of the district, so as the district's A/V increases, so will the revenue.

2. Revenues from federal and state grants - fixed amount per ADA. This revenue category is from those state and federal programs that are generally allocated by student population, so as the student population increases, so will the revenue.

3. Revenue from state aid - equalization and basic aid as per SB 90. This revenue source is based on a school district's wealth (A/V per ADA). The 'richer' the district, the less state aid would be allocated and conversely the 'poorer' districts would receive more state aid.^{1/} The baseline information for these cost and revenue computations is listed in Table 6.

^{1/} The Serrano-Priest decision will alter the method and amount of aid from state sources. However, the legislation necessary to determine the new formula had not been enacted at the time of this study.

Table 6

Costs and Revenues

Elementary School, High School and Unified School Districts in Imperial County

		<u>REVENUE</u>				<u>COSTS</u>
		Property type		State and federal fixed per ADA		Per ADA
		Tax rate Per \$100 A/V	A/V (x 1000)		ADA A/V per ADA	
ELEMENTARY SCHOOLS						
23	Brawley	2.31	\$36,551	\$163.75	3,449 \$10,598	\$1,073
	El Centro	2.62	48,554	99.36	4,270 11,371	1,146
	Heber	2.66	3,956	210.54	732 5,404	1,405
	McCabe	2.66	12,042	152.70	271 44,437	1,346
	Westmorland	2.33	11,614	153.97	471 24,658	998
HIGH SCHOOLS						
	Brawley	1.82	61,123	220.81	1,585 38,563	1,378
	Central	1.80	79,863	136.82	2,410 33,138	1,288
UNIFIED SCHOOLS						
	Calexico	4.50	29,498	175.95	5,014 5,883	1,189
	Calipatria	4.41	22,783	215.14	1,234 18,463	1,417
	Holtville	5.09	35,608	134.99	1,943 18,326	1,467
	Imperial	4.00	35,996	93.76	1,562 23,045	1,349

FISCAL IMPACT OF GEOTHERMAL ENERGY DEVELOPMENT

Both population and land use will be affected by the three growth levels being evaluated for Imperial County. But what types of fiscal impacts are associated with geothermal development? Two methods are available for estimating local government costs and revenues for land development: using average costs and current expenditure patterns and projecting them on the land use change; and deriving costs specific to the land use or population change involved.

For this study both methods were analyzed. It was assumed that a number of functions would remain relatively constant; that is, that cost and revenue changes could be averaged based on the same relative proportions as at present. It was also assumed that specific costs and revenues would not change disproportionately with growth. Therefore, this study used average costing techniques for its analysis.

Average Costs and Revenues

In order to apply the average costs and revenues developed for the county, cities and school districts, a number of factors must first be estimated:

1/ How many jobs will be made available, and how many new households will be generated?

The Drylands Research Institute has identified employment requirements for direct and indirect geothermal-related jobs (see Table 1).^{1/} The direct and indirect jobs have been further broken down into job classifications. For the purposes of this study, job classifications have been split into two groups:

^{1/} Adam Rose, The Economic Impact of Geothermal Energy Development in Imperial County, California. The Drylands Research Institute, University of California, Riverside, California, January 1977.

'professional' and 'non-professional,' since it is assumed that some jobs of a specialized nature will be filled by in-migrating professional workers, while the remaining non-specialized jobs will be filled by workers currently residing within the county. Imperial County has a net out-migration of approximately 6,000 people per year; if more jobs were available within the county, this out-migration would decrease and so would the rate of unemployment. In 1975, the unemployment rate for Imperial County averaged 14.3 percent of the work force, or 4,650 unemployed persons. This study assumes that the unemployment rate will drop from 14.3 to 10 percent, or that 1,400 jobs created directly and indirectly by the highest geothermal scenario will be filled by unemployed persons currently residing in the county.

Table 7

Effect of Geothermal Development on Imperial County Unemployment

<u>Alternative</u>	<u>Newly Employed</u>	<u>% Reduction</u>	<u>Unemployment %</u>
#1: 1,000 mw	175	.5	13.8
#2: 3,000 mw	525	1.6	12.7
#3: 8,000 mw	1,400	4.3	10.0

2. What will be the demographic characteristics and the home values of the new households?

Demographic characteristics have been developed for the professional and non-professional categories from national, regional and county data sources concerning family size, income, estimated home value and workers per family (see Appendix C). The professional family characteristics come from national data, since professional jobs are likely to be filled by in-migrating persons, or persons whose family characteristics will be similar to the national average for engineers and scientists with four years or more of college. The non-professional

family characteristics, on the other hand, come from county-wide data, since these jobs are more likely to be filled from within the county. The study assumes that these demographic characteristics will hold constant.^{1/}

Table 8

Demographic Characteristics of Professional & Non-Professional Households

<u>Characteristic</u>	<u>Professional</u>	<u>Non-Professional</u>
Number of persons per household	2.608	3.464
Under 5	.203	.344
K-8	.344	.879
9-12	.131	.251
Workers per family	1.350	1.680
<hr/>		
Home value	\$ 48,500	\$ 33,600
A/V	12,125	8,400
+ 30% direct (commercial)	15,763	10,920
+ 30% direct and 10% indirect (commercial + industrial)	16,975	11,760

3. How much commercial and industrial growth will be generated by the new households?

Another important consideration in estimating the fiscal impacts of the alternative geothermal growth scenarios is the ratio of commercial and secondary industrial development generated by the direct and indirect jobs and families. Cooperative Extension studies conducted in other counties in California conclude that commercial development is an estimated 30 percent of the residential assessed valuation, while industrial assessment amounts to approximately 10 percent

^{1/} The assumption that the student per family ratio would remain constant deserves some additional consideration. There can be considerable fluctuation in student population based on such factors as rapidly declining birth rate or the number of young families versus retired people in a community. In Imperial County, the birth rates are quite high compared to state or national figures. It is for this reason that a national average has been used for the professional (in-migrating) family characteristics.

of the residential assessed valuation. Thus for those households directly related to geothermal development (secondary impact), an additional 30 percent has been added to the home value to include commercially-induced development, and for those indirectly related (tertiary impact), 40 percent (30 percent for commercial plus 10 percent for industrial) has been added.

It is recognized that additional residential growth could, in some cases, stimulate more than direct proportional growth in the commercial sector, but it would be difficult to predict this effect. Small variations in the residential/commercial ratio (for example, 10 percent) would have a slight effect on the cities' cost/revenue net loss or gain, but the basic conclusions of this study would still hold true. It is possible that expansive growth could have a disproportional impact on assessed valuation; with greater demand, values increase. However, such an impact would be impossible to either predict or calculate for the purposes of fiscal analysis of this type. The costs and revenues associated with residential, commercial and industrial assessed valuation are therefore assumed to remain proportionally the same while the number of units increases under the three alternatives.

4. What will be the assessed valuation of the geothermal facilities?

There are two taxing components of property valuation from geothermal development: the assessment of the geothermal wells or fields, which are assessed by the County Assessor; and the assessment of the utility plants which are assessed by the State Board of Equalization. At present, the Geysers in Sonoma County is the only operating geothermal field in the United States and because of this, the science of assessing geothermal energy is still in its infancy. However, a study by Tod Larson for the Drylands Research Institute has concluded that assessed valuation could vary from between \$6 million and \$14 million with a reasonable average of \$10 million for an operational 200 mw geothermal plant

and field.^{1/}

Marginal Costs and Revenues

At this time county and city officials do not expect that any disproportionate costs would result from the levels of growth in the three scenarios analyzed. Therefore no marginal costs and revenues are considered for the county or city governments. The eleven school districts tested have ample capacity for the added ADA load considered in these alternatives.

Impact Evaluation

The overall effect for the government agencies tested is that revenues would exceed costs. However, whereas the county government and most of the school districts would have revenues in excess of costs, the cities would all have costs outweighing revenues. This is reasonably explained when it is remembered that geothermal plants with their large assessed valuation could not be located within city limit boundaries, while people and the social services accrued to them would be located within the city boundaries.

With the exception of districts located within city limit boundaries and therefore outside the KGRA's, most school district boundaries would be broad enough to include at least one geothermal plant within the district taxing area. Those districts which would include a geothermal plant would obviously experience revenues exceeding costs^{2/} while those districts without geothermal plants in -----

^{1/} Tod Larson, County Property Tax Derived from Geothermal Energy Development.
The Drylands Research Institute, University of California, Riverside,
California, January 1977.

^{2/} Practically speaking, this would not be allowed under the laws established in SB 90 (1971). Revenue limits incorporated in SB 90 would force the district tax rate to reduce (see Appendix D) unless district voters increased the revenue limit.

the district (El Centro Elementary, Westmorland Elementary, and Imperial Unified) would be likely to maintain an even cost/revenue balance. Thus no school district would need to adjust tax rates upward, while those school districts with geothermal plants within their boundaries would be required to reduce the tax rates by .27 to \$1.32 per \$100 of A/V in Alternative #1, by .61 to \$3.24 in Alternative #2, and by .87 to \$3.87 in Alternative #3, or by 15 to 87 percent depending on the alternative.

In the operational stages, the fiscal impacts of the three alternatives would be as follows:

1. Alternative #1 with five 200 mw plants distributed fairly evenly between the four KGRA's would increase the county population by 2,000 people and the student population by 500, while increasing the county A/V by \$60 million. The county government would experience revenues in excess of costs of \$966,000 while cities would have costs exceeding revenues by \$100,000. School districts with geothermal plants would have a revenue excess of \$7,000. The overall effect to county, city and school district governments would be \$3.2 million of revenues in excess of costs.

2. Alternative #2 with fifteen 200 mw plants would increase the effect experienced under Alternative #1 by a factor of three ($15 \div 5 = 3$). However, since the growth rate in the Salton Sea KGRA is greater than the other three KGRA's, the agencies in the Northern Valley (Brawley and Calipatria, as well as the Calipatria school district) experience growth rates and impacts exceeding those of the Southern and Eastern areas. The county population would increase by 6,000 people, of which 1,600 would be students. County revenues would exceed costs by \$2.9 million and the cities' costs would exceed revenues by \$309,000. School districts with geothermal plants would have revenues exceeding costs by \$7 million if 1975-76 tax rates were allowed to prevail, while schools with no

geothermal plants would have \$14,000 excess revenues over costs. The county A/V would increase by \$179 million. The overall effect to county, city and school district governments would be \$9.6 million of revenues in excess of costs.

3. Alternative #3 with forty 200 mw plants, half of which would be in the Salton Sea KGRA, would increase the effect experienced under Alternative #1 by a factor of eight ($40 \div 5 = 8$). The overall effect to county, city and school district governments would be \$25.5 million of revenues in excess of costs. The county's population would be boosted by 16,000 people, 4,200 of whom would be students, and the county A/V would increase by an estimated \$476 million. The county's revenues would be \$7.7 million in excess of costs, and the cities would experience a net cost/revenue loss of \$862,000, while if the 1975-76 tax rates were allowed to prevail, the school districts would realize revenues of \$18.7 million in excess of costs.

Comparative information for population, property values and net costs and revenues by county, city and school district can be found in Table 9. As can be seen, the population and property values in Alternatives #2 and #3 are three and eight times greater respectively than those in Alternative #1. The cost and revenue category also holds in the same relative manner when observed in the aggregate. However, as soon as the observations of Table 9 are isolated to any one city or school district, the magnitude difference can vary widely from this norm because of the geographic location of the city or school district with respect to the geothermal energy facility. For instance, the city of Calipatria (B-3) and the Calipatria Unified School District (C-5) show growth rates in excess of the average because of the disproportionate growth rate of geothermal plants in the Salton Sea KGRA.

The three geothermal energy scenarios can also be evaluated by measuring their growth rates in relation to the current county and city population and

Table 9

Comparative Growth Levels of
Population, Assessed Valuation and Costs and Revenues

	Alternative #1	Alternative #2	Alternative #3
No. of Geothermal Facilities			
1. Salton Sea KGRA	1	7 (x7) ^{1/}	20 (x20) ^{1/}
2. Brawley KGRA	1	3 (x3)	7 (x7)
3. Heber KGRA	1	3 (x3)	9 (x9)
4. Holtville	2	2 (x1)	4 (x2)
Total	5	15 (x3)	40 (x8)
New People	2,016	6,050 (x3)	16,130 (x8)
New Students	527	1,582 (x3)	4,220 (x8)
New Assessed Valuation (in millions of dollars)			
For Families \$	9.5	28.6 (x3)	76.3 (x8)
For G.T. Plants \$	50.0	150.0 (x3)	400.0 (x8)
Total \$	59.5	178.6 (x3)	476.3 (x8)
New Costs and Revenues (in thousands of dollars)			
A. County Gov. (excess revenue)	966.5	2,900.0 (x3)	7,732.0 (x8)
B. Cities			
1. Brawley (excess expend.)	- 28.0	- 91.3 (x3.3)	-237.2 (x8.5)
2. Calexico	- 29.1	- 79.8 (x2.7)	-223.3 (x7.7)
3. Calipatria	- 14.2	- 54.9 (x3.9)	-144.4 (x10.2)
4. El Centro	- 9.4	- 26.7 (x2.8)	- 69.3 (x7.4)
5. Holtville	- 5.1	- 14.2 (x2.8)	- 36.0 (x7.1)
6. Imperial	- .7	- 1.8 (x2.6)	- 5.2 (x7.4)
7. Westmorland	- 13.3	- 39.9 (x3.0)	-147.1 (x11.1)
Total Cities	- 99.8	-308.6 (x3.1)	-862.5 (x8.6)
C. Schools			
1. Brawley H.S.	197	597 (x3)	1,228 (x6)
2. Brawley Elementary	248	752 (x3)	1,305 (x5)
3. Westmorland Elem.	- 2	- 6 (x3)	222 (x111)
4. Calexico Unified	498	580 (x1)	1,715 (x3)
5. Calipatria Unified	440	3,092 (x7)	9,274 (x21)
6. Central Unified H.S.	209	442 (x2)	1,112 (x5)
7. El Centro Elem.	20	54 (x3)	136 (x7)
8. Heber Elementary	0	256 (x25)	531 (x531)
9. McCabe Elementary	266	266 (x1)	799 (x3)
10. Holtville Unified	499	986 (x2)	2,456 (x5)
11. Imperial Unified	- 11	- 34 (x3)	- 90 (x8)
Total Schools	2,364	6,994 (x3)	18,688 (x8)
A + B + C or Counties, Cities and Schools Grand Total (Excess Revenue)	3,230.7	9,585.4 (x3)	25,557.5 (x8)

Note: minus sign (-) indicates that expenditures exceed revenues.

^{1/} (x) larger than Alternative #1.

Table 10

Comparative Growth Levels
Current Status vs. Three Alternative Scenarios

Description		Current status 1975-1976	Current status plus Alt. #1	Current status plus Alt. #2	Current status plus Alt. #3
A. County	Pop (x 1,000)	83.8	85.8 (3%)	89.8 (7%)	99.9 (19%)
	A/V (x 1 M)	290.0	349.5 (20%)	468.6 (62%)	766.3 (164%)
B. Cities					
1. Brawley	Pop (x 1,000)	13.9	14.3 (3%)	15.3 (10%)	17.6 (27%)
	A/V (x 1 M)	20.8	22.9 (10%)	27.4 (32%)	38.1 (83%)
2. Calexico	Pop (x 1,000)	13.0	13.4 (3%)	14.2 (9%)	16.2 (25%)
	A/V (x 1 M)	20.0	21.9 (9%)	25.4 (27%)	35.1 (76%)
3. Calipatria	Pop (x 1,000)	2.1	2.2 (5%)	2.6 (24%)	3.3 (57%)
	A/V (x 1 M)	2.5	3.2 (28%)	5.0 (100%)	9.2 (268%)
4. El Centro	Pop (x 1,000)	21.4	22.1 (3%)	23.5 (10%)	26.9 (26%)
	A/V (x 1 M)	43.2	46.6 (8%)	53.0 (23%)	68.9 (59%)
5. Holtville	Pop (x 1,000)	4.5	4.7 (4%)	5.0 (11%)	5.7 (27%)
	A/V (x 1 M)	5.4	6.2 (15%)	7.6 (41%)	10.9 (102%)
6. Imperial	Pop (x 1,000)	3.2	3.3 (3%)	3.5 (9%)	4.1 (28%)
	A/V (x 1 M)	5.4	5.9 (9%)	6.9 (28%)	9.5 (76%)
7. Westmorland	Pop (x 1,000)	1.4	1.4 (2%)	1.5 (7%)	1.8 (29%)
	A/V (x 1 M)	.7	.9 (28%)	1.3 (86%)	2.8 (300%)
Total Cities					
	Pop (x 1,000)	59.5	61.5 (3%)	65.6 (10%)	75.6 (27%)
	A/V (x 1 M)	98.0	107.6 (10%)	126.6 (29%)	174.3 (78%)
C. School Districts					
1. Brawley H.S.	ADA	1585	1616 (2%)	1681 (6%)	1843 (16%)
	A/V (x 1 M)	61.12	73.71 (21%)	98.34 (61%)	140.52 (130%)
2. Brawley Elem	ADA	3449	3539 (3%)	3730 (8%)	4189 (21%)
	A/V (x 1 M)	36.55	48.61 (33%)	73.19 (100%)	103.84 (184%)
3. Westmorland E.	ADA	471	480 (2%)	498 (6%)	554 (18%)
	A/V (x 1 M)	11.61	11.81 (2%)	12.19 (5%)	23.72 (104%)
4. Calexico Unif.	ADA	5014	5125 (2%)	5334 (6%)	5884 (17%)
	A/V (x 1 M)	29.50	41.43 (40%)	44.91 (52%)	74.55 (153%)
5. Calipatria U.	ADA	1234	1262 (2%)	1336 (9%)	1502 (23%)
	A/V (x 1 M)	22.78	33.44 (47%)	95.32 (318%)	239.46 (900%)
6. Central U. H.S	ADA	2410	2455 (2%)	2542 (5%)	2757 (14%)
	A/V (x 1 M)	79.86	93.26 (17%)	109.67 (37%)	155.52 (95%)
7. El Centro E.	ADA	4270	4414 (3%)	4692 (10%)	5385 (26%)
	A/V (x 1 M)	48.55	51.95 (7%)	58.36 (20%)	74.21 (53%)
8. Heber Elem.	ADA	732	732	732	732
	A/V (x 1 M)	3.96	3.96	13.96 (253%)	23.96 (500%)
9. McCabe Elem.	ADA	271	271	271	271
	A/V (x 1 M)	12.04	22.04 (83%)	22.04 (83%)	42.04 (250%)
10. Holtville U.	ADA	1943	1985 (2%)	2062 (6%)	2253 (16%)
	A/V (x 1 M)	35.61	46.39 (30%)	57.77 (62%)	91.13 (155%)
11. Imperial Unif.	ADA	1562	1591 (2%)	1645 (5%)	1789 (15%)
	A/V (x 1 M)	36.00	36.52 (1%)	37.47 (4%)	40.09 (11%)
Total					
All Districts	ADA	22941	23470 (2%)	24586 (7%)	27159 (18%)
	A/V (x 1 M)	377.58	463.12 (23%)	623.22 (65%)	1009.04 (167%)

assessed valuation (see Table 10). On a county-wide basis, population growth would be 2 percent, 7 percent and 19 percent for Alternatives #1, #2 and #3 respectively, while A/V growth would be an estimated 20 percent, 62 percent and 164 percent respectively. Cities in Imperial County would experience a population growth of 3 percent, 10 percent and 27 percent, while A/V would increase on the average by 10 percent, 29 percent and 78 percent. Thus while county property value increases would be approximately 10 times greater than county population increases, the population to A/V ratio for cities would be only three to one. The reason for this impact difference is once again because geothermal plants locate outside city limit boundaries.

School district impacts would be on the same order of magnitude as the county's if the districts are viewed in the aggregate. Overall ADA growth would be 2 percent, 7 percent and 18 percent while A/V for districts would be 23 percent, 65 percent and 167 percent, a ratio of ten to one. However, school districts which do not have a geothermal energy plant within the district have an ADA/assessed valuation ratio of approximately one to one (see Table 10, C-3, C-7 and C-11).

Conclusions

The three alternatives would have the same overall effect to local governments; that is, the county government and school districts would experience revenues in excess of costs, while cities would have costs in excess of revenues. For all three scenarios, the excess revenues in the county government would be ten times greater than the cities' cost excess. This means that for every \$1.00 the county tax rate would decrease the cities' would increase \$.10. Those school districts which have geothermal energy plants within the district boundaries would be required to lower their tax rates under revenue limit legis-

lation established in SB 90 while those districts without geothermal facilities would more or less maintain the prevailing tax rate.

The inequity placed on cities and some school districts without geothermal plants would be solved by establishing an intergovernment revenue transfer or by broadening local taxing jurisdictions to include a geothermal plant. In general, no school district would experience excessive losses due to geothermal energy development. Most school districts would experience major revenue gains, city governments would have service costs exceed revenues by .10 for every \$1 and the county government would gain in excess revenues.

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Appendix A

Percentage of Costs and Revenues Attributed to People and Property (A/V) for Imperial County

<u>Revenues</u>	<u>Property</u> (%)	<u>People</u> (%)
Property tax	100	
Sales, use and other tax		100
Franchises	100	
Rents and concessions		100
Licenses		
Animal		100
Business, construction, zoning	100	
Fines, forfeits, penalties		100
Interest	45*	55*
From other governments		
State: Alcohol beverage fee		100
Highway tax		100
Motor vehicle & trailer in lieu	100	
Welfare - administration and aid		100
Agriculture aid	100	
Construction aid	100	
Veterans aid		100
Tax relief - home and business	100	
Federal: Revenue sharing and grants	45*	55*
Welfare - administration and aid		100
Charges for services		
Assessment and audit	100	
Election, inheritance, legal services		100
Planning, engineering, agriculture	100	
Court-related fees and services		100
Road and street service	100	
Health and sanitation service		100
Institutional, education services		100
Library service		100
Parks and recreation fees		100
Other revenues	45*	55*

Assessed Valuation: \$289,956,495

Population: 83,800

* Distribution is based on the weighted revenues in all other categories.

<u>Cost</u>	<u>Property</u> (%)	<u>People</u> (%)
General government		
Legislative, finance, personnel	100	
Elections, communications		100
Plant management and acquisition	100	
Promotion, insurances, EDP and other	100	
Revenue sharing	34*	66*
Public protection - judicial		100
Police protection		100
Detention and correction		100
Fire protection	100	
Protective inspection	100	
Planning and records	100	
Public Ways - Dept. of Public Works	100	
Health and sanitation - Dept. of Public Health		100
Solid waste disposal	100	
Public assistance - administration and aid		100
Education - school administration and libraries		100
Cooperative Extension Service	100	
Parks and recreation		100

* Distribution is based on the weighted revenues in all other categories.

Appendix B

Percent of Revenues Attributed to People and Property
for the Seven Incorporated Cities in Imperial County

Revenue	Brawley		Calxico		Calipatria		El Centro		Holtville		Imperial		Westmorland	
	Property (%)	People (%)	Property (%)	People (%)	Property (%)	People (%)	Property (%)	People (%)	Property (%)	People (%)	Property (%)	People (%)	Property (%)	People (%)
Property tax	100		100		100		100		100		100		100	
Property tax transfer	100		100		100		100		100		100		100	
Sales tax		100		100		100		100		100		100		100
Business-related tax		100		100		100		100		100		100		100
Rents and concessions		100		100		100		100		100		100		100
Licenses														
Animal, bicycle		100		100		100		100		100		100		100
Construction	100		100		100		100		100		100		100	
Parking - street, curb	100		100			100				100				
Fines, forfeits, penalties		100		100		100		100		100		100		100
Interest	47*	53*	36*	64*	53*	47*	50*	50*	58*	42*	55*	45*	41*	59*
From other governments														
State: Alcohol bev. fee		100		100		100		100		100		100		100
Vehicle and gas		100		100		100		100		100		100		100
Homeowners tax rel.	100		100		100		100		100		100		100	
Bus. Invest. tax rel.	100		100		100		100		100		100		100	
Trailer in lieu	100		100		100		100		100		100		100	
Cigarette tax		100		100		100		100		100		100		100
Other	47*	53*	36*	64*	53*	47*	50*	50*	58*	42*	55*	45*	41*	59*
County: Grant of gas tax		100		100				100		100		100		100
Federal: Revenue sharing	47*	53*	36*	64*	53*	47*	50*	50*	58*	42*	55*	45*	41*	59*
Other taxes in lieu	47*	53*	36*	64*	53*	47*					55*	45*	41*	59*
Other grants	47*	53*	36*	64*	53*	47*	50*	50*	100		55*	45*	41*	59*
Charges for services														
Zoning fees	100		100		100		100		100		100		100	
Plan checking fees	100		100				100							
Animal shelter fees		100		100		100		100		100				100
Engineering fees	100				100									
Maps - sales. police serv.		100		100		100		100		100		100		100
Fire services	100		100		100		100				100		100	
Cleaning - lot, curb	100		100		100		100		100		100		100	
Refuse collection	100		100			100		100		100		100		100
Library, park		100		100		100		100		100		100		100
Other revenue	47*	53*	36*	64*	53*	47*	50*	50*	58*	42*	55*	45*	41*	59*

* Distribution is based on the weighted revenues in all other categories.

Appendix B

Percent of Costs Attributed to People and Property
for the Seven Incorporated Cities in Imperial County

Cost	Brawley		Callexico		Calipatria		El Centro		Holtville		Imperial		Westmorland	
	Property (%)	People (%)	Property (%)	People (%)	Property (%)	People (%)	Property (%)	People (%)	Property (%)	People (%)	Property (%)	People (%)	Property (%)	People (%)
General government	100		100		100		100		100		100		100	
Debt service	61*	39*	65*	35*			59*	41*	75*	25*	66*	34*	64*	36*
Insurance, retirement	61*	39*	65*	35*	65*	35*	59*	41*	75*	25*	66*	34*	64*	36*
Comm. promotion, election and other		100		100		100		100		100		100		100
Public protection														
Police protection	20	80	20	80	20	80	20	80	20	80	20	80	20	80
Fire protection	100		100		100		100		100		100		100	
Building regulation	100		100		100		100		100		100		100	
Animal regulation and civil defense		100		100		100		100		100		100		100
Public Work														
Engineering and street lighting	100		100		100		100		100		100		100	
Parking facilities	100		100		100		100		100		100		100	
Sewage collection and disposal	100		100		100		100		100		100		100	
Solid waste collection and disposal	100		100		100		100		100		100		100	
Unallocated cost	61*	39*	65*	35*	65*	35*	59*	41*						
Health service	61*	39*	65*	35*	65*	35*			75*	25*			64*	36*
Libraries and park service		100		100		100		100		100		100		100
City enterprises			65*	35*					75*	25*			64*	36*
	Pop: 13,946 A/V: 20,808,590		Pop: 13,000 A/V: 20,027,150		Pop: 2,080 A/V: 2,516,390		Pop: 21,374 A/V: 43,205,910		Pop: 4,450 A/V: 5,396,985		Pop: 3,210 A/V: 5,407,360		Pop: 1,440 A/V: 7 6,505	

* Distribution is based on the weighted revenues in all other categories.

Appendix C

Family Characteristics Relating to Geothermal Employment

Households Relating to Type "1" and Type "2" Jobs

	<u>Professional^{1/}</u>	<u>Non-Professional^{2/}</u>
	Household relating to a Type "1" job	Household relating to a Type "2" job
Head of Household	1.000	1.000
Spouse	.930	.990
Children		
Under 5	.203	.344
5 - 14 (Grades K-8)	.344	.879
15 - 18 (" 9-12)	.131	.251
TOTAL Children	.678	1.474
TOTAL Household	2.608	3.464
Number of Persons in Workforce	1.350 ^{3/}	1.680 ^{4/}
Property Tax Generated per Household		
Home Value	\$48,500 ^{6/}	\$33,600 ^{5/}
Commercial Property x 30% ^{7/}	14,550 15,760 ^{8/}	10,080 10,920 ^{8/}
Industrial Property x 10%	4,850	3,360
	67,900 15,975	47,040 11,760

^{1/} Professional characteristics are formulated from national data concerning engineers as well as families with head of household having 4+ years of college; NSF and 1970 census publications.

^{2/} Non-professional characteristics are formulated from Imperial County data; 1970 census publications.

^{3/} In this case we assign 1 worker to the direct Type "1" job and .35 workers to Type "2" jobs.

^{4/} In this case we assign 1.68 workers per household to Type "2" jobs.

$$\begin{array}{l} \text{Number of Workers} \dots \frac{35,818}{21,030} = 1.68 \quad (\text{E.D.D., 1975}) \\ \text{Number of Hseholds} \dots \end{array}$$

^{5/} Home values determined from an audit of 60 homes for sale - July 1, 1974 to July 1, 1975.

^{6/} Home value determined by income variance between:

$$\begin{array}{l} \text{Type "1" income} \dots \frac{29,800}{20,670} = 1.44 \\ \text{Type "2" income} \dots \\ 1.44 \times 33,600 = 48,500 \end{array}$$

^{7/} Commercial and industrial property values determined from other Cooperative Extension studies.

^{8/} Assessed Valuation is 25 percent of sale value.

Appendix C
Demographic Characteristics for Eight-Year Cycle of Geothermal Energy Development - Jobs, Population & A/V

	<u>Exploration</u>		<u>Field Development</u>		<u>Construction</u>			<u>Operation</u>
	1	2	3	4	5	6	7	8
<u>DIRECT</u>								
<u>Professional</u>								
Jobs	11.10	13.80	32.34	28.64	71.79	72.72	53.60	20.00
Spouse	10.32	12.83	30.07	26.63	66.76	67.62	49.84	18.60
Under 5	2.25	2.80	6.56	5.81	14.57	14.76	10.88	4.06
K - 8	3.81	4.74	11.12	9.85	24.69	25.01	18.43	6.88
9 - 12	1.45	1.80	4.23	3.75	9.40	9.52	7.02	2.61
Total Persons	28.94	35.94	84.34	74.69	187.22	189.65	139.78	52.16
A/V	174930.	217488.	509678.	451366.	1131410.	1146067.	844736.	315200.
 <u>Non-Professional</u>								
Jobs	4.83	11.41	30.76	31.53	35.04	40.26	45.91	0.00
Spouse	4.78	11.29	30.45	31.21	34.69	39.56	45.45	0.00
Under 5	1.54	3.92	10.58	10.84	12.05	13.55	15.79	0.00
K - 8	4.24	10.03	27.04	27.71	30.80	35.39	40.36	0.00
9 - 12	1.21	2.86	7.72	7.91	8.79	10.10	11.52	0.00
Total Persons	16.73	39.52	106.56	109.23	121.39	139.48	159.05	0.00
A/V	52747.	124605.	335926.	344344.	382677.	434712.	501410.	0.
 <u>Total Direct</u>								
Jobs	15.93	25.21	63.10	60.17	106.83	112.98	99.51	20.00
Spouse	15.10	24.13	60.53	57.85	101.45	107.49	95.30	18.60
Under 5	3.79	6.72	17.14	16.66	26.62	28.31	26.67	4.06
K - 8	8.06	14.77	38.16	37.56	55.49	60.41	58.79	6.88
9 - 12	2.66	4.67	11.95	11.66	18.20	19.63	18.54	2.61
Total Persons	45.68	75.51	190.90	183.92	308.61	329.13	298.84	52.16
A/V	227683.	342093.	846604.	796710.	1514088.	1585778.	1346146.	315200.

Appendix C (continued)

INDIRECT	Exploration		Field Development		Construction			Operation
	1	2	3	4	5	6	7	
<u>Professional</u>								
Jobs	1.50	3.20	11.00	13.70	10.70	15.50	17.20	49.30
Spouse	1.39	2.97	10.22	9.95	9.95	14.41	15.99	45.84
Under 5	0.30	0.64	2.23	2.17	2.17	3.14	3.49	10.00
K - 8	0.51	1.10	3.78	3.68	3.68	5.33	5.91	16.95
9 - 12	0.19	0.41	1.44	1.40	1.40	2.03	2.25	6.45
Total Persons	3.91	8.34	28.68	27.90	27.90	40.42	44.85	128.57
A/V	25462.	54320.	186725.	181632.	181632.	263112.	291970.	836867.
<u>Non-Professional</u>								
Jobs	0.87	1.89	6.33	6.22	6.22	8.91	9.98	64.24
Spouse	0.86	1.87	6.27	6.16	6.16	8.82	9.88	63.59
Under 5	0.30	0.65	2.18	2.14	2.14	3.06	3.43	22.09
K - 8	0.77	1.66	5.57	5.47	5.47	7.53	8.77	56.46
9 - 12	0.22	0.47	1.59	1.56	1.56	2.23	2.50	16.12
Total Persons	3.04	6.55	21.95	21.55	21.55	30.87	34.59	222.53
A/V	10325.	22260.	74550.	73165.	73165.	104824.	117460.	755475.
<u>Total Indirect</u>								
Jobs	2.37	5.09	17.33	16.92	16.92	24.41	27.18	113.54
Spouse	2.26	4.84	16.50	16.11	16.11	23.23	25.88	109.44
Under 5	0.60	1.30	4.41	4.31	4.31	6.21	6.92	32.10
K - 8	1.28	2.76	9.35	9.15	9.15	13.16	14.69	73.42
9 - 12	0.41	0.89	3.03	2.96	2.96	4.26	4.76	22.58
Total Persons	6.95	14.90	50.64	49.46	49.46	71.30	79.45	351.10
A/V	35787.	76580.	261275.	254817.	254817.	367937.	409430.	1592342.

APPENDIX D

Alternative #1

Status in Tenth Year of Development
with 40 mw coming 'on line' annually

IMPACT FOR 3 PLANTS IN YEAR 10, 6 and 1

Plant 1: in operation
Plant 2: in year 6 of development
Plant 3: in year 1 of development

NET COUNTY IMPACT FROM PLANT \$ 253505. FROM FAMILIES \$ 57475. - TOTAL \$ 310,980

TOTAL ADDITIONAL A/V FOR COUNTY 19304728. POPULATION, 856.31

Cost/Revenue	Net	Direct			Indirect			Total
		Professional	Non-Professional	Total	Professional	Non-Professional	Total	
Assessed Valuation: Net Rev.	\$	35996.	10834.	46830.	24759.	19153.	43913.	90743.
Population: Net Cost	\$	-10518.	-6068.	-16587.	-6717.	-9962.	-16680.	-33268.
A/V + Pop: Net Revenue	\$	25477.	4765.	30242.	18042.	9191.	27233.	57475.
<u>Jobs/Population/Assessed Valuation</u>								
Job Impact		103.	105.	208.	66.	147.	218.	427.
Population Impact		270.	156.	426.	172.	256.	429.	856.
A/V Impact		1636203.	492459.	2128661.	1125441.	870624.	1996066.	4124727.

NET IMPACT ON CITIES

Direct

Indirect

	Professional	Non-Professional	Total	Professional	Non-Professional	Total	Total
1 Brawley	\$	\$	\$	\$	\$	\$	\$
A/V: Net Cost	-2088.	-629.	-2718.	-5249.	-4061.	-9310.	-12029.
Population: Net Rev.	504.	291.	796.	1177.	1746.	2923.	3719.
A/V + Pop: Net Cost	-1584.	-338.	-1922.	-4072.	-2314.	-6387.	-8309.
2 Calexico							
A/V: Net Cost	0.	0.	0.	-8557.	-6620.	-15177.	-15177.
Population: Net Rev.	0.	0.	0.	3464.	5138.	8602.	8602.
A/V + Pop: Net Cost	0.	0.	0.	-5093.	-1481.	-6575.	-6575.
3 Calipatria							
A/V: Net Cost	-1338.	-403.	-1741.	-1004.	-777.	-1781.	-3523.
Population: Net Rev.	182.	105.	287.	126.	188.	315.	602.
A/V + Pop: Net Cost	-1156.	-298.	-1454.	-877.	-588.	-1466.	-2920.
4 El Centro							
A/V: Net Cost	-5502.	-1431.	-6933.	-3193.	-2470.	-5664.	-12598.
Population: Net Rev.	2792.	1392.	4185.	1504.	2231.	3736.	7922.
A/V + Pop: Net Cost	-2709.	-38.	-2748.	-1688.	-238.	-1927.	-4676.
5 Holtville							
A/V: Net Cost	-5157.	-1978.	-7136.	-631.	-488.	-1119.	-4255.
Population: Net Rev.	518.	381.	900.	58.	87.	146.	1046.
A/V + Pop: Net Cost	-4638.	-1597.	-6235.	-572.	-400.	-973.	-7208.
6 Imperial							
A/V: Net Cost	-718.	0.	-718.	-461.	-356.	-817.	-1536.
Population: Net Rev.	468.	0.	468.	279.	414.	693.	1162.
A/V + Pop: Net Cost	-249.	0.	-249.	-181.	57.	-124.	-373.
7 Westmorland							
A/V: Net Cost	0.	0.	0.	-2159.	-1670.	-3830.	-3830.
Population: Net Rev.	0.	0.	0.	194.	288.	482.	482.
A/V + Pop: Net Cost	0.	0.	0.	-1965.	-1382.	-3347.	-3347.

TOTAL NET IMPACT ON CITIES A/V Population Net Cost
 \$ -56951. + 23539. - -33411.

	New A/V	New Population
Brawley	604487.	128.04
Calexico	436140.	93.81
Calipatria	138167.	28.73
El Centro	1544705.	326.95
Holtville	1100772.	229.59
Imperial	202147.	38.78
Westmorland	48304.	10.39
Total	\$ 4124729.	856.29

SCHOOL A / V AND NUMBER OF CHILDREN					A/V per ADA	Current Tax Rate	New ^{1/} Tax Rate	Difference Decrease + Increase -
	New A/V	New ADA	Current + New ADA	Total ADA				
1 Brawley High School	732792.	8.64	62055784.	1573.64	38939.	1.8229	2.8069	0.0159
2 Brawley Elementary	884487.	25.43	37435352.	3474.43	10774.	2.3102	2.2772	0.0329
3 Westmorland Elem.	48304.	2.12	11662060.	473.12	24648.	2.3260	2.3244	-0.0034
4 Calexico Unified H.S.	436140.	5.95	29934008.	1509.95	19824.	1.8848	1.8468	0.0179
5 Calexico Unified Elem.	436140.	19.19	29934003.	3529.19	8481.	2.6188	2.6003	0.0184
6 Calipatria Unif. H.S.	138167.	1.75	22920936.	371.75	61656.	1.8465	1.8447	0.0017
7 Calipatria Unif. Elem.	138167.	5.49	22920936.	869.49	26361.	2.5656	2.5728	-0.0072
8 Central Unified H.S.	11544702.	19.73	91457760.	2429.73	37641.	1.7960	1.5842	0.2127
9 El Centro Elementary	1594705.	61.34	50143800.	4331.34	11578.	2.6161	2.5847	0.0263
10 Heber Elementary	0.	0.00	3955845.	732.00	5404.	2.6560	2.6560	0.0000
11 McCabe Elementary	10000002.	0.00	22042364.	271.00	81337.	2.6630	1.4548	1.2081
12 Holtville Unif. H.S.	6000772.	13.81	41608400.	596.81	69717.	2.1305	1.8684	0.2620
13 Holtville Unif. Elem.	6000772.	42.81	41608400.	1402.81	29660.	2.9602	2.6442	0.3159
14 Imperial Unif. H.S.	202147.	2.25	36198296.	471.25	76813.	1.6758	1.6743	0.0014
15 Imperial Unif. Elem.	202147.	6.79	36198296.	1099.79	32913.	2.3286	2.3356	-0.0070
TOTAL CHILDREN				215.35	52.14	163.20		
				Total New ADA	New H.S. ADA	New Elem. ADA		

^{1/} Revenue limits established in SB 90 would force district tax rates to reduce (or increase).

	Revenue		State & Federal		Cost			
	State Aid	Prop. Tax	Per ADA	Per ADA	Per ADA			
1 Brawley High School								
Direct Professional	364.	1913.	192.	1198.				
Non-Professional	305.	576.	160.	1000.				
Total	669.	2490.	352.	2199.				
Indirect Professional	727.	5305.	495.	3089.				
Non-Professional	1544.	4104.	1060.	6617.				
Total	2246.	9409.	1556.	9710.				
Geothermal Impact	0.	5104.	0.	0.		Revenue	Cost	Net
Grand Total	2915.	17003.	1908.	11910.		21827.	11910.	9917.
Per New ADA					2525.		1378.	1147.
2 Brawley Elementary								
Direct Professional	1472.	2424.	374.	2453.				
Non-Professional	1641.	731.	416.	2730.				
Total	3115.	3155.	791.	5190.				
Indirect Professional	3110.	6094.	874.	5733.				
Non-Professional	8858.	4714.	2477.	16369.				
Total	11911.	10808.	3372.	22105.				
Geothermal Impact	0.	6468.	0.	0.				
Grand Total	15027.	20433.	4164.	27296.	37624.	27296.	12328.	
Per New ADA					1558.		1073.	484.
3 Westmorland Elem.								
Direct Professional	0.	0.	0.	0.				
Non-Professional	0.	0.	0.	0.				
Total	0.	0.	0.	0.				
Indirect Professional	70.	633.	84.	550.				
Non-Professional	199.	490.	242.	1572.				
Total	270.	1123.	327.	2123.				
Geothermal Impact	0.	0.	0.	0.				
Grand Total	270.	1123.	327.	2123.	1721.	2123.	-401.	
Per New ADA					809.		998.	-188.
4 Calexico Unified H.S.								
Direct Professional	0.	0.	0.	0.				
Non-Professional	0.	0.	0.	0.				
Total	0.	0.	0.	0.				
Indirect Professional	1264.	4634.	333.	2469.				
Non-Professional	2688.	3585.	713.	5331.				
Total	3920.	8220.	1047.	7823.				
Geothermal Impact	0.	0.	0.	0.				
Grand Total	3920.	8220.	1047.	7823.	13188.	7823.	5365.	
Per New ADA					2215.		1313.	901.
5 Calexico Unified Elem.								
Direct Professional	0.	0.	0.	0.				
Non-Professional	0.	0.	0.	0.				
Total	0.	0.	0.	0.				
Indirect Professional	3273.	6439.	875.	5655.				
Non-Professional	9317.	4981.	2500.	16146.				
Total	12590.	11421.	3376.	21804.				
Geothermal Impact	0.	0.	0.	0.				
Grand Total	12590.	11421.	3376.	21804.	27330.	21804.	5525.	
Per New ADA					1423.		1135.	287.

D-5

	Revenue			Cost				
	State Aid	Prop. Tax	State & Federal Per ADA	Per ADA				
6 Calipatria Unif. H.S.								
Direct Professional	54.	969.	93.	681.				
Non-Professional	45.	292.	78.	568.				
Total	99.	1261.	171.	1250.				
Indirect Professional	37.	727.	65.	475.				
Non-Professional	81.	562.	139.	1018.				
Total	119.	1290.	205.	1494.				
Geothermal Impact	0.	0.	0.	0.	Revenue	Cost	Net	
Grand Total	218.	2551.	376.	2744.	3147.	2744.	402.	
Per New ADA					1796.	1566.	230.	
7 Calipatria Unif. Elem.								
Direct Professional	305.	1346.	245.	1546.				
Non-Professional	345.	405.	273.	1721.				
Total	651.	1752.	520.	3272.				
Indirect Professional	104.	1010.	171.	1079.				
Non-Professional	293.	781.	489.	3081.				
Total	397.	1792.	661.	4161.				
Geothermal Impact	0.	0.	0.	0.				
Grand Total	1048.	3544.	1181.	7434.	5775.	7434.	-1659.	
Per New ADA					1051.	1353.	-302.	
8 Central Unified H.S.								
Direct Professional	2701.	12510.	790.	7445.				
Non-Professional	2009.	3253.	569.	5360.				
Total	4687.	15763.	1360.	12811.				
Indirect Professional	1408.	7260.	426.	4011.				
Non-Professional	3002.	5616.	912.	8592.				
Total	4384.	12877.	1339.	12609.				
Geothermal Impact	0.	179600.	0.	0.				
Grand Total	9071.	208240.	2699.	25420.	220012.	25420.	194591.	
Per New ADA					11149.	1288.	9811.	
9 El Centro Elementary								
Direct Professional	8931.	18222.	1510.	17421.				
Non-Professional	8756.	4739.	1449.	16710.				
Total	17687.	22962.	2960.	34137.				
Indirect Professional	4712.	10575.	813.	9382.				
Non-Professional	13428.	8181.	2322.	26783.				
Total	18140.	18757.	3136.	36170.				
Geothermal Impact	0.	0.	0.	0.				
Grand Total	35825.	41719.	6097.	70307.	81512.	70307.	13204.	
Per New ADA					1361.	7146.	215.	
10 Heber Elementary								
Direct Professional	0.	0.	0.	0.				
Non-Professional	0.	0.	0.	0.				
Total	0.	0.	0.	0.				
Indirect Professional	0.	0.	0.	0.				
Non-Professional	0.	0.	0.	0.				
Total	0.	0.	0.	0.				
Geothermal Impact	0.	0.	0.	0.				
Grand Total	0.	0.	0.	0.	0.	0.	0.	
Per New ADA					0.	0.	0.	

	Revenue		State & Federal		Cost			
	State Aid	Prop. Tax	Per ADA	Per ADA	Per ADA			
11 McCabe Elementary								
Direct Professional	0.	0.	0.	0.	0.			
Non-Professional	0.	0.	0.	0.	0.			
Total	0.	0.	0.	0.	0.			
Indirect Professional	0.	0.	0.	0.	0.			
Non-Professional	0.	0.	0.	0.	0.			
Total	0.	0.	0.	0.	0.			
Geothermal Impact	0.	266300.	0.	0.	0.	Revenue	Cost	Net
Grand Total	0.	266300.	0.	0.	0.	266300.	0.	266300.
Per New ADA						266300.	0.	266300.
12 Holtville Unified H.S.								
Direct Professional	713.	14650.	771.	9256.				
Non-Professional	757.	5620.	818.	9820.				
Total	1472.	20270.	1590.	19087.				
Indirect Professional	81.	1793.	87.	1050.				
Non-Professional	173.	1387.	187.	2251.				
Total	254.	3180.	275.	3303.				
Geothermal Impact	0.	104394.	0.	0.				
Grand Total	1727.	127846.	1865.	22390.	131438.	22390.		109047.
Per New ADA					4513.	1620.		7892.
13 Holtville Unified Elem.								
Direct Professional	2794.	20355.	2025.	21032.				
Non-Professional	4336.	7809.	2866.	29761.				
Total	7143.	28165.	4893.	50802.				
Indirect Professional	245.	2491.	230.	2389.				
Non-Professional	658.	1927.	656.	6820.				
Total	903.	4419.	887.	9211.				
Geothermal Impact	0.	145049.	0.	0.				
Grand Total	8047.	177634.	5780.	60013.	191462.	60013.		131448.
Per New ADA					4471.	1401.		3069.
14 Imperial Unified H.S.								
Direct Professional	97.	1584.	73.	1165.				
Non-Professional	0.	0.	0.	0.				
Total	97.	1584.	73.	1165.				
Indirect Professional	58.	1016.	43.	695.				
Non-Professional	125.	786.	93.	1489.				
Total	183.	1802.	137.	2186.				
Geothermal Impact	0.	0.	0.	0.				
Grand Total	281.	3387.	211.	3351.	3880.	3351.		528.
Per New ADA					1723.	1488.		234.
15 Imperial Unified Elem.								
Direct Professional	257.	2201.	193.	2659.				
Non-Professional	0.	0.	0.	0.				
Total	257.	2201.	193.	2659.				
Indirect Professional	153.	1412.	115.	1582.				
Non-Professional	438.	1092.	328.	4518.				
Total	591.	2505.	444.	6101.				
Geothermal Impact	0.	0.	0.	0.				
Grand Total	849.	4707.	637.	8761.	6194.	8761.		-2566.
Per New ADA					911.	1288.		-377.

Alternative #2
Status in Eighth Year of Development
with 100 mw coming 'on line' annually

IMPACT FOR 4 PLANTS IN YEAR 8, 6, 4 and 2

Plant 1: in operation
Plant 2: in year 6 of development
Plant 3: in year 4 of development
Plant 4: in year 2 of development

NET COUNTY IMPACT FROM PLANT \$ 300098. FROM FAMILIES \$ 73467. + TOTAL \$ 373,565
TOTAL ADDITIONAL A/V FOR COUNTY 23300456. POPULATION 1127.47

<u>Cost/Revenue Net</u>		<u>Direct</u>			<u>Indirect</u>			
	<u>Professional</u>	<u>Non-Professional</u>	<u>Total</u>	<u>Professional</u>	<u>Non-Professional</u>	<u>Total</u>	<u>Total</u>	
Assessed Valuation: Net Rev.	\$ 46862.	19990.	66853.	29390.	21026.	50416.	117270.	
Population: Net Cost	\$ -13694.	-11197.	-24891.	-7973.	-10136.	-18110.	-43802.	
A/V + Pop: Net Revenue	\$ 33168.	8792.	41961.	21417.	10890.	31506.	73467.	
<u>Jobs/Population/Assessed Valuation</u>								
Job Impact	135.	180.	315.	78.	164.	247.	563.	
Population Impact	352.	288.	640.	205.	281.	486.	1126.	
A/V Impact	\$ 2130121.	9081 1.	3038781.	1335931.	955744.	2291676.	5330457	

NET IMPACT ON CITIES

Direct

Indirect

	Professional	Non-Professional	Total	Professional	Non-Professional	Total	Total
1 Brawley							
A/V: Net Cost	-5389.	-4111.	-9500.	-6231.	-4458.	-10689.	-20140.
Population: Net Rev.	1301.	1903.	3205.	1397.	1916.	3314.	6520.
A/V + Pop: Net Cost	-4087.	-2207.	-6295.	-4834.	-2541.	-7375.	-13670.
2 Calexico							
A/V: Net Cost	0.	0.	0.	-10158.	-7267.	-17425.	-17425.
Population: Net Rev.	0.	0.	0.	4112.	5640.	9752.	9752.
A/V + Pop: Net Cost	0.	0.	0.	-6046.	-1627.	-7672.	-7672.
3 Calipatria							
A/V: Net Cost	-8444.	-5493.	-13938.	-1192.	-853.	-2045.	-15983.
Population: Net Rev.	1149.	1433.	2582.	150.	206.	357.	2939.
A/V + Pop: Net Cost	-7295.	-4060.	-11356.	-1041.	-646.	-1688.	-13044.
4 El Centro							
A/V: Net Cost	-5893.	-1759.	-7652.	-3790.	-2712.	-6503.	-14156.
Population: Net Rev.	2990.	1712.	4703.	1786.	2450.	4236.	4939.
A/V + Pop: Net Cost	-2902.	-47.	-2949.	-2004.	-262.	-2266.	-5216.
5 Holtville							
A/V: Net Cost	-5157.	-1978.	-7136.	-749.	-536.	-1285.	-8421.
Population: Net Rev.	518.	381.	900.	70.	96.	166.	1066.
A/V + Pop: Net Cost	-4638.	-1597.	-6235.	-679.	-440.	-1119.	-7355.
6 Imperial							
A/V: Net Cost	-718.	0.	-718.	-547.	-391.	-938.	-1657.
Population: Net Rev.	468.	0.	468.	331.	454.	786.	1255.
A/V + Pop: Net Cost	-249.	0.	-249.	-215.	63.	-152.	-402.
7 Westmorland							
A/V: Net Cost	0.	0.	0.	-2563.	-1834.	-4397.	-4397.
Population: Net Rev.	0.	0.	0.	230.	316.	547.	547.
A/V + Pop: Net Cost	0.	0.	0.	-2332.	-1517.	-3850.	-3850.

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	A/V	Population	Net Cost
TOTAL NET IMPACT ON CITIES	\$ -82232.	+ 31021.	- 51210.

	New A/V	New Population
Brawley	1014594.	224.44
Calexico	500731.	106.35
Calipatria	626805.	140.17
El Centro	1791900.	368.95
Holtville	1122883.	233.88
Imperial	218081.	41.88
Westmorland	55458.	11.77
Total	\$ 5330457.	1127.47

SCHOOL A / V AND NUMBER OF CHILDREN

	New A/V	New ADA	Current + New A/V	Total ADA	A/V per ADA	Current Tax Rate	New ^{1/} Tax Rate	Difference Reduced + Increased -
1 Brawley High School	3470052.	14.93	64593040.	1599.93	40372.	1.8229	1.7434	0.0794
2 Brawley Elementary	3414594.	45.62	39965464.	3494.62	11436.	2.3102	2.1475	0.1626
3 Westmorland Elementary	55458.	2.38	11669214.	473.38	24650.	2.3260	2.3294	-0.0034
4 Calexico Unified H.S.	500731.	6.70	29998596.	1510.70	19857.	1.8848	1.8638	0.0209
5 Calexico Unified Elem.	500731.	21.52	29998596.	3531.52	8494.	2.6188	2.5967	0.0220
6 Calipatria Unif. H.S.	1296805.	8.77	24079576.	378.77	63572.	1.8465	1.7917	0.0547
7 Calipatria Unif. Elem.	1296805.	28.00	24079576.	892.00	26994.	2.5656	2.5333	0.0322
8 Central Unified H.S.	11798894.	22.33	91554960.	2432.33	37681.	1.7960	1.5815	0.2143
9 El Centro Elementary	1798900.	69.59	50345992.	4339.59	11601.	2.6161	2.5867	0.0293
10 Heber Elementary	0.	0.00	3455845.	732.00	5404.	2.6560	2.6563	-0.0003
11 McCabe Elementary	10000002.	0.00	22042364.	271.00	81337.	2.6630	1.4548	1.2081
12 Holtville Unif. H.S.	6022884.	14.07	41630512.	597.07	69724.	2.1305	1.8682	0.2622
13 Holtville Unif. Elem.	6022884.	43.61	41630512.	1403.61	29659.	2.9602	2.6443	0.3153
14 Imperial Unif. H.S.	218081.	2.43	36214232.	471.43	76816.	1.6756	1.6742	0.0015
15 Imperial Unif. Elem.	218081.	7.37	36214232.	1100.37	32910.	2.3286	2.3363	-0.0077
TOTAL CHILDREN								

287.36	69.25	218.10
Total	New	New
New	H.S.	Elem.
ADA	ADA	ADA

^{1/} Revenue limit established in SB 90 would force district tax rates to reduce (or increase).

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	Revenue		State & Federal		Cost				
	State Aid	Prop. Tax	Per ADA	Per ADA	Per ADA				
1 Brawley High School									
Direct Professional	886.	4936.	496.		3100.				
Non-Professional	1884.	3766.	1047.		6540.				
Total	2754.	8702.	1544.		9640.				
Indirect Professional	894.	6297.	587.		3666.				
Non-Professional	1731.	4505.	1163.		7262.				
Total	2600.	10803.	1752.		10936.				
Geothermal Impact	0.	43749.	0.		0.	Revenue	Cost	Net	
Grand Total	5354.	63255.	3297.		20577.	71907.	20577.	51330.	
Per New ADA					4815.		1378.	3437.	
2 Brawley Elementary									
Direct Professional	3709.	6256.	967.		6343.				
Non-Professional	10471.	4773.	2722.		17846.				
Total	14180.	11029.	3690.		24189.				
Indirect Professional	3741.	7234.	1038.		6808.				
Non-Professional	4800.	5175.	2741.		17969.				
Total	13482.	12409.	3780.		24780.				
Geothermal Impact	0.	55444.	0.		0.				
Grand Total	27622.	78883.	7470.		48969.	113977.	48969.	65007.	
Per New ADA					2498.		1073.	1424.	
3 Westmorland Elementary									
Direct Professional	0.	0.	0.		0.				
Non-Professional	0.	0.	0.		0.				
Total	0.	0.	0.		0.				
Indirect Professional	89.	751.	100.		653.				
Non-Professional	228.	537.	266.		1725.				
Total	318.	1289.	367.		2379.				
Geothermal Impact	0.	0.	0.		0.				
Grand Total	318.	1289.	367.		2379.	1975.	2379.	-404.	
Per New ADA					828.		998.	-169.	
4 Calexico Unified H.S.									
Direct Professional	0.	0.	0.		0.				
Non-Professional	0.	0.	0.		0.				
Total	0.	0.	0.		0.				
Indirect Professional	1528.	5501.	395.		2954.				
Non-Professional	2983.	3936.	783.		5850.				
Total	4480.	9437.	1179.		8810.				
Geothermal Impact	0.	0.	0.		0.				
Grand Total	4480.	9437.	1179.		8810.	15098.	8810.	6287.	
Per New ADA					2251.		1313.	937.	
5 Calexico Unified Elem.									
Direct Professional	0.	0.	0.		0.				
Non-Professional	0.	0.	0.		0.				
Total	0.	0.	0.		0.				
Indirect Professional	3430.	7644.	1040.		6715.				
Non-Professional	10298.	5468.	2744.		17724.				
Total	14168.	13113.	3785.		24442.				
Geothermal Impact	0.	0.	0.		0.				
Grand Total	14168.	13113.	3785.		24442.	31067.	24442.	6624.	
Per New ADA					1443.		1135.	307.	

	Revenue		State & Federal		Cost		
	State Aid	Prop. Tax	Per ADA	Per ADA	Per ADA		
6 Calipatria Unif. H.S.							
Direct Professional	343.	6114.	590.	4300.			
Non-Professional	618.	3978.	1064.	7749.			
Total	962.	10092.	1656.	12063.			
Indirect Professional	45.	863.	77.	564.			
Non-Professional	89.	617.	153.	1117.			
Total	134.	1481.	231.	1682.			
Geothermal Impact	0.	12371.	0.	0.		Revenue	Cost
Grand Total	1096.	23945.	1887.	13746.	20930.	13746.	Net
Per New ADA					1068.	1566.	1502.
7 Calipatria Unif. Elem.							
Direct Professional	1696.	8495.	1553.	9772.			
Non-Professional	4217.	5527.	3729.	23467.			
Total	5913.	14023.	5283.	33240.			
Indirect Professional	135.	1199.	203.	1281.			
Non-Professional	341.	858.	537.	3383.			
Total	477.	2057.	741.	4665.			
Geothermal Impact	0.	17189.	0.	0.			
Grand Total	6385.	33273.	6024.	37906.	45680.	37906.	7774.
Per New ADA					1630.	1353.	277.
8 Central Unified H.S.							
Direct Professional	2906.	13397.	840.	7973.			
Non-Professional	2489.	4001.	700.	6591.			
Total	5395.	17398.	1547.	14572.			
Indirect Professional	1700.	8618.	505.	4761.			
Non-Professional	3328.	6165.	1001.	9430.			
Total	5028.	14784.	1506.	14200.			
Geothermal Impact	0.	179600.	0.	0.			
Grand Total	10373.	211782.	3055.	28773.	225211.	28773.	196438.
Per New ADA					10082.	1288.	8794.
9 El Centro Elementary							
Direct Professional	9591.	19514.	1618.	18657.			
Non-Professional	10619.	5823.	1782.	20549.			
Total	20210.	25343.	3400.	39211.			
Indirect Professional	5654.	12553.	966.	11140.			
Non-Professional	14834.	8981.	2550.	29402.			
Total	20417.	21535.	3516.	40546.			
Geothermal Impact	0.	0.	0.	0.			
Grand Total	40758.	46878.	6917.	79757.	94553.	79757.	14795.
Per New ADA					1358.	1146.	212.
10 Heber Elementary							
Direct Professional	0.	0.	0.	0.			
Non-Professional	0.	0.	0.	0.			
Total	0.	0.	0.	0.			
Indirect Professional	0.	0.	0.	0.			
Non-Professional	0.	0.	0.	0.			
Total	0.	0.	0.	0.			
Geothermal Impact	0.	0.	0.	0.			
Grand Total	0.	0.	0.	0.	0.	0.	0.
Per New ADA					0.	0.	0.

	Revenue		State & Federal		Cost		Revenue	Cost	Net
	State Aid	Prop. Tax	Per ADA	Per ADA	Per ADA				
11 McCabe Elementary									
Direct Professional	0.	0.	0.	0.	0.				
Non-Professional	0.	0.	0.	0.	0.				
Total	0.	0.	0.	0.	0.				
Indirect Professional	0.	0.	0.	0.	0.				
Non-Professional	0.	0.	0.	0.	0.				
Total	0.	0.	0.	0.	0.				
Geothermal Impact	0.	266300.	0.	0.	0.	266300.	0.	266300.	
Grand Total	0.	266300.	0.	0.	0.				
Per New ADA						266300.	0.	266300.	
12 Holtville Unified H.S.									
Direct Professional	713.	14650.	771.	9256.					
Non-Professional	757.	5620.	818.	9820.					
Total	1472.	20270.	1590.	19087.					
Indirect Professional	96.	2128.	103.	1247.					
Non-Professional	190.	1523.	205.	2470.					
Total	286.	3652.	309.	3720.					
Geothermal Impact	0.	104394.	0.	0.					
Grand Total	1759.	128317.	1899.	22807.	131976.	22807.	109163.		
Per New ADA					1377.	1620.	7757.		
13 Holtville Unified Elem.									
Direct Professional	2794.	20355.	2025.	21032.					
Non-Professional	4336.	7809.	2866.	29761.					
Total	7143.	28165.	4893.	50802.					
Indirect Professional	322.	2958.	273.	2836.					
Non-Professional	774.	2116.	721.	7487.					
Total	1096.	5074.	994.	10325.					
Geothermal Impact	0.	145049.	0.	0.					
Grand Total	8239.	178289.	5887.	61128.	192417.	61128.	131289.		
Per New ADA					4411.	1401.	3010.		
14 Imperial Unified H.S.									
Direct Professional	97.	1584.	73.	1165.					
Non-Professional	0.	0.	0.	0.					
Total	97.	1584.	73.	1165.					
Indirect Professional	69.	1206.	52.	825.					
Non-Professional	137.	863.	103.	1634.					
Total	206.	2069.	155.	2462.					
Geothermal Impact	0.	0.	0.	0.					
Grand Total	304.	3654.	228.	3627.	4187.	3627.	560.		
Per New ADA					1718.	1488.	229.		
15 Imperial Unified Elem.									
Direct Professional	257.	2201.	193.	2659.					
Non-Professional	0.	0.	0.	0.					
Total	257.	2201.	193.	2659.					
Indirect Professional	182.	1676.	136.	1879.					
Non-Professional	481.	1199.	361.	4960.					
Total	663.	2876.	497.	6840.					
Geothermal Impact	0.	0.	0.	0.					
Grand Total	921.	5078.	691.	9499.	6691.	9499.	-2808.		
Per New ADA					907.	1288.	-380.		

Alternative #3
Status in Eighth Year of Development
with 200 mw coming "on line" annually

IMPACT FOR 8 PLANTS IN YEAR 8

Plant 1: in operation
Plant 2: in year 7 of development
Plant 3: in year 6 of development
Plant 4: in year 5 of development

Plant 5: in year 4 of development
Plant 6: in year 3 of development
Plant 7: in year 2 of development
Plant 8: in year 1 of development

NET COUNTY IMPACT FROM PLANT \$ 501834. FROM FAMILIES \$ 141117. - Total \$ 642951
TOTAL ADDITIONAL A/V FOR COUNTY \$40275288. POPULATION 2158.00

Cost/Revenue Net	Direct			Indirect			Total
	Professional	Non-Professional	Total	Professional	Non-Professional	Total	
Assessed Valuation: Net Rev.	\$ 105399.	47991.	153390.	44477.	27087.	71565.	224956.
Population: Net Cost	\$ -30799.	-26882.	-57682.	-12065.	-14088.	-26156.	-83838.
A/V + Pop: Net Revenue	\$ 74600.	21108.	95708.	32412.	12999.	45409.	141117.
<u>Jobs/Population/Assessed Valuation</u>							
Job Impact	303.	435.	738.	119.	217.	341.	1080.
Population Impact	792.	691.	1484.	310.	362.	673.	2158.
A/V Impact	\$ 4790882.	2181421.	6972306.	2021720.	1231264.	3252985.	10225291

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NET IMPACT ON CITIES

Direct

Indirect

	Professional	Non-Professional	Total	Professional	Non-Professional	Total	Total
	\$	\$	\$	\$	\$	\$	\$
1 Brawley							
A/V: Net Cost	-20117.	-9676.	-29794.	-9430.	-5743.	-15173.	-44967.
Population: Net Rev.	4859.	4480.	9340.	2114.	2469.	4584.	13925.
A/V + Pop: Net Cost	-15258.	-5195.	-20453.	-7315.	-3274.	-10589.	-31042.
2 Calexico							
A/V: Net Cost	-10642.	-7014.	-17656.	-15372.	-9362.	-24735.	-42391.
Population: Net Rev.	4640.	5862.	10503.	6222.	7265.	13487.	23993.
A/V + Pop: Net Cost	-6001.	-1151.	-7152.	-9150.	-2096.	-11245.	-18398.
3 Calipatria							
A/V: net Cost	-37409.	-12953.	-50363.	-1804.	-1098.	-2903.	-53266.
Population: Net Rev.	5090.	3378.	8469.	227.	266.	494.	8963.
A/V + Pop: Net Cost	-32319.	-9574.	-41893.	-1576.	-832.	-2409.	-44302.
4 El Centro							
A/V: Net Cost	-9896.	-4613.	-14510.	-5736.	-3493.	-9230.	-23741.
Population: Net Rev.	5022.	4488.	9511.	2703.	3156.	5859.	15371.
A/V + Pop: Net Cost	-4873.	-125.	-4998.	-3033.	-337.	-3371.	-8370.
5 Holtville							
A/V: Net Cost	-3801.	-2256.	-6057.	-1134.	-690.	-1824.	-7882.
Population: Net Rev.	382.	435.	817.	105.	123.	229.	1047.
A/V + Pop: Net Cost	-3418.	-1821.	-5240.	-1028.	-567.	-1595.	-6835.
6 Imperial							
A/V: Net Cost	-1880.	-765.	-2646.	-828.	-504.	-1332.	-3979.
Population: Net Rev.	1227.	958.	2185.	501.	585.	1087.	3272.
A/V + Pop: Net Cost	-653.	192.	-461.	-326.	81.	-244.	-706.
7 Westmorland							
A/V: Net Cost	0.	0.	0.	-3879.	-2362.	-6242.	-6242.
Population: Net Rev.	0.	0.	0.	349.	407.	757.	757.
A/V + Pop: Net Cost	0.	0.	0.	-3530.	-1954.	-5485.	-5485.

TOTAL NET IMPACT ON CITIES A/V Population Net Cost
 \$-182471. + 67330. = -115140.

	New A/V	New Population
Brawley	2259696.	479.34
Calexico	1218141.	261.64
Calipatria	2088876.	427.45
El Centro	3005261.	634.39
Holtville	1051010.	229.66
Imperial	523577.	109.20
Westmorland	78722.	16.29
Total	\$ 9537704.	2157.97

SCHOOL A / V AND NUMBER OF CHILDREN

	New A/V	New ADA	Current + New ADA	Total ADA	A/V per ADA	Current	New ^{1/}	Difference
						Tax Rate	Tax Rate	Decrease + Increase -
1 Brawley High School	8838416.	30.39	69961408.	1615.39	43309.	1.8229	1.6271	0.1957
2 Brawley Elementary	8759696.	92.36	45310560.	3541.36	12794.	2.3102	1.9251	0.3850
3 Westmorland Elementary	78722.	3.21	11692478.	474.21	24656.	2.3260	2.3297	-0.0037
4 Calexico Unified H.S.	3618140.	16.31	33116008.	1520.31	21782.	1.8848	1.6999	0.1848
5 Calexico Unified Elem.	3618140.	51.94	33116008.	3561.94	9297.	2.6188	2.3759	0.2428
6 Calipatria Unif. H.S.	5868875.	25.32	28651644.	395.32	72475.	1.8465	1.5766	0.2698
7 Calipatria Unif. Elem.	5868875.	77.55	28651644.	941.55	30430.	2.5656	2.3001	0.2654
8 Central Unified H.S.	13675260.	38.85	93538320.	2448.85	38196.	1.7960	1.5614	0.2345
9 El Centro Elementary	3005261.	122.09	51559352.	4392.09	11739.	2.6161	2.5706	0.0454
10 Heber Elementary	670000.	0.00	4625844.	732.00	6319.	2.6560	2.2713	0.3846
11 McCabe Elementary	10000002.	0.00	22042364.	271.00	81337.	2.6630	1.4548	1.2081
12 Holtville Unif. H.S.	7751011.	14.25	43358640.	597.25	72596.	2.1305	1.7943	0.3361
13 Holtville Unif. Elem.	7751011.	45.21	43358640.	1405.21	30855.	2.9602	2.5456	0.4145
14 Imperial Unif. H.S.	523577.	6.62	36519728.	475.62	76782.	1.6758	1.6748	0.0009
15 Imperial Unif. Elem.	523577.	20.67	36519728.	1113.67	32791.	2.3286	2.3557	-0.0271
TOTAL CHILDREN		544.84 Total New ADA	131.76 New H.S. ADA	413.07 New Elem. ADA				

^{1/} Revenue limits established in SB 90 would force district tax rate to reduce (or increase).

	Revenue		State & Federal Per ADA	Cost Per ADA			
	State Aid	Prop. Tax			Revenue	Cost	Net
1 Brawley High School							
Direct Professional	3134.	18428.	1854.	11571.			
Non-Professional	4276.	8863.	2466.	15391.			
Total	7347.	27292.	4321.	26970.			
Indirect Professional	1407.	9530.	889.	5548.			
Non-Professional	2303.	5804.	1498.	9354.			
Total	3683.	15334.	2387.	14713.			
Geothermal Impact	0.	118488.	0.	0.			
Grand Total	11031.	161115.	6711.	41884.	178858.	41884.	136973.
Per New ADA					5884.	1378.	4506.
2 Brawley Elementary							
Direct Professional	13541.	23354.	3612.	23677.			
Non-Professional	24289.	11233.	6407.	42003.			
Total	37667.	34588.	10021.	65670.			
Indirect Professional	5744.	10947.	1571.	10300.			
Non-Professional	12776.	6667.	3531.	23147.			
Total	18457.	17615.	5103.	33452.			
Geothermal Impact	0.	150163.	0.	0.			
Grand Total	56124.	202366.	15124.	99143.	273616.	99143.	174472.
Per New ADA					2962.	1073.	1888.
3 Westmorland Elem.							
Direct Professional	0.	0.	0.	0.			
Non-Professional	0.	0.	0.	0.			
Total	0.	0.	0.	0.			
Indirect Professional	141.	1138.	152.	789.			
Non-Professional	306.	693.	342.	2223.			
Total	448.	1831.	495.	3212.			
Geothermal Impact	0.	0.	0.	0.			
Grand Total	448.	1831.	495.	3212.	2774.	3212.	-438.
Per New ADA					862.	998.	-136.
4 Calexico Unified H.S.							
Direct Professional	1902.	5763.	446.	3334.			
Non-Professional	3485.	3798.	815.	6085.			
Total	5360.	9562.	1261.	9420.			
Indirect Professional	2361.	8326.	598.	4469.			
Non-Professional	3911.	5070.	1009.	7536.			
Total	6240.	13396.	1608.	12014.			
Geothermal Impact	0.	45235.	0.	0.			
Grand Total	11601.	68194.	2870.	21435.	82666.	21435.	61231.
Per New ADA					5067.	1313.	3753.
5 Calexico Unified Elem.							
Direct Professional	4719.	8008.	1173.	7578.			
Non-Professional	11511.	5278.	2853.	18427.			
Total	16179.	13286.	4027.	26005.			
Indirect Professional	6024.	11568.	1573.	10160.			
Non-Professional	13408.	7045.	3535.	22831.			
Total	19367.	18613.	5110.	32996.			
Geothermal Impact	0.	62851.	0.	0.			
Grand Total	35546.	94751.	9137.	59002.	139436.	59002.	80434.
Per New ADA					2684.	1135.	1548.

		Revenue		State & Federal		Cost				
		State Aid	Prop. Tax	Per ADA	Per ADA	Per ADA				
6	Calipatria Unif. H.S.									
	Direct Professional	1523.	27089.	2621.	19089.					
	Non-Professional	1458.	9379.	2510.	18276.					
	Total	2983.	36468.	5134.	37364.					
	Indirect Professional	68.	1306.	117.	853.					
	Non-Professional	114.	795.	197.	1439.					
	Total	183.	2102.	315.	2294.					
	Geothermal Impact	0.	69797.	0.	0.					
	Grand Total	3166.	108368.	5449.	39679.			Revenue	Cost	Net
								116984.	39679.	77305.
	Per New ADA							4618.	1566.	3051.
7	Calipatria Unif. Elem.									
	Direct Professional	5286.	37638.	6885.	43322.					
	Non-Professional	7704.	13032.	8793.	55328.					
	Total	13074.	50671.	15680.	98662.					
	Indirect Professional	219.	1815.	308.	1939.					
	Non-Professional	467.	1105.	692.	4357.					
	Total	686.	2921.	1000.	6296.					
	Geothermal Impact	0.	96979.	0.	0.					
	Grand Total	13761.	150571.	16681.	104961.			181014.	104961.	76053.
	Per New ADA							2334.	1353.	980.
8	Central Unified H.S.									
	Direct Professional	4986.	22499.	1422.	13390.					
	Non-Professional	6582.	10488.	1835.	17279.					
	Total	11527.	32988.	3258.	30666.					
	Indirect Professional	2622.	13042.	765.	7204.					
	Non-Professional	4355.	7943.	1289.	12146.					
	Total	6951.	20985.	2056.	19364.					
	Geothermal Impact	0.	191633.	0.	0.					
	Grand Total	18479.	245607.	5315.	50051.			249402.	50051.	219351.
	Per New ADA							6933.	1288.	5645.
9	El Centro Elementary									
	Direct Professional	16328.	32774.	2716.	31324.					
	Non-Professional	28520.	15278.	4672.	53872.					
	Total	44726.	48052.	7389.	85196.					
	Indirect Professional	8659.	18998.	1461.	16854.					
	Non-Professional	19296.	11570.	3284.	37874.					
	Total	27879.	30568.	4747.	54736.					
	Geothermal Impact	0.	0.	0.	0.					
	Grand Total	72606.	78621.	12136.	139935.			143364.	139935.	23428.
	Per New ADA							1337.	1146.	191.
10	Heber Elementary									
	Direct Professional	0.	0.	0.	0.					
	Non-Professional	0.	0.	0.	0.					
	Total	0.	0.	0.	0.					
	Indirect Professional	0.	0.	0.	0.					
	Non-Professional	0.	0.	0.	0.					
	Total	0.	0.	0.	0.					
	Geothermal Impact	0.	17795.	0.	0.					
	Grand Total	0.	17795.	0.	0.			17795.	0.	17795.
	Per New ADA							17795.	0.	17795.

		Revenue		State & Federal		Cost		
		State Aid	Prop. Tax	Per ADA	Per ADA	Per ADA		
11	McCabe Elementary							
	Direct Professional	0.	0.	0.	0.	0.		
	Non-Professional	0.	0.	0.	0.	0.		
	Total	0.	0.	0.	0.	0.		
	Indirect Professional	0.	0.	0.	0.	0.		
	Non-Professional	0.	0.	0.	0.	0.		
	Total	0.	0.	0.	0.	0.		
	Geothermal Impact	0.	266300.	0.	0.	0.	Revenue	
	Grand Total	0.	266300.	0.	0.	0.	266300.	Cost
	Per New ADA						0.	Net
								266300.
12	Holtville Unified H.S.							
	Direct Professional	526.	10798.	568.	6825.			
	Non-Professional	863.	6409.	933.	11201.			
	Total	1390.	17207.	1501.	18027.			
	Indirect Professional	145.	3221.	157.	1887.			
	Non-Professional	245.	1962.	265.	3182.			
	Total	391.	5184.	422.	5073.			
	Geothermal Impact	0.	142743.	0.	0.			
	Grand Total	1781.	165135.	1924.	23100.	168841.	23100.	145740.
	Per New ADA					11844.	1620.	10224.
13	Holtville Unified Elem.							
	Direct Professional	1723.	15003.	1492.	15498.			
	Non-Professional	4213.	8905.	3269.	33941.			
	Total	5964.	23909.	4761.	49440.			
	Indirect Professional	534.	4476.	413.	4292.			
	Non-Professional	1093.	2726.	929.	9645.			
	Total	1627.	7202.	1342.	13939.			
	Geothermal Impact	0.	198333.	0.	0.			
	Grand Total	7591.	229445.	6104.	63379.	243141.	63379.	179762.
	Per New ADA					5376.	1401.	3975.
14	Imperial Unified H.S.							
	Direct Professional	256.	4146.	192.	3054.			
	Non-Professional	289.	1688.	217.	3447.			
	Total	545.	5835.	409.	6501.			
	Indirect Professional	104.	1826.	78.	1249.			
	Non-Professional	176.	1112.	132.	2105.			
	Total	281.	2938.	211.	3357.			
	Geothermal Impact	0.	0.	0.	0.			
	Grand Total	827.	8774.	621.	9858.	10223.	9858.	364.
	Per New ADA					1543.	1488.	55.
15	Imperial Unified Elem.							
	Direct Professional	674.	5762.	506.	6957.			
	Non-Professional	1013.	2346.	760.	10452.			
	Total	1688.	8109.	1267.	17410.			
	Indirect Professional	275.	2537.	206.	2843.			
	Non-Professional	619.	1545.	465.	6389.			
	Total	895.	4082.	672.	9234.			
	Geothermal Impact	0.	0.	0.	0.			
	Grand Total	2584.	12192.	1939.	26644.	16716.	26644.	-9927.
	Per New ADA					808.	1288.	-480.

Alternative #1
Minimum Geothermal Development
Five 200 mw plants in operation

IMPACT FOR 5 PLANTS IN YEAR 8

Impact to County Government

NET COUNTY IMPACT FROM PLANT \$434999. FROM FAMILIES \$131496. = Total \$ 966,495
TOTAL ADDITIONAL A/V FOR COUNTY \$ 59537704. POPULATION 2016.29

<u>Cost/Revenue Net</u>	Direct			Indirect			Total
	Professional	Non-Professional	Total	Professional	Non-Professional	Total	
Assessed Valuation: Net Rev.	\$ 34672.	0.	34672.	72055.	83102.	155157.	209829.
Population: Net Cost	\$ -10132.	0.	-10132.	-24974.	-43226.	-68201.	-78333.
61 A/V + Pop: Net Revenue	\$ 24539.	0.	24539.	67080.	39875.	106955.	131496.
<u>Jobs/Population/Assessed Valuation</u>							
Job Impact	100.	0.	100.	246.	625.	871.	997.
Population Impact	260.	0.	260.	642.	1112.	1755.	2016.
A/V Impact	\$ 1576000.	0.	1576000.	4184335.	3777375.	7961711.	\$ 9537704.

NET IMPACT ON CITIES

	Direct			Indirect			Total
	Professional	Non-Professional	Total	Professional	Non-Professional	Total	
1 Brawley							
A/V: Net Cost	-3763.	0.	-3763.	-19516.	-17619.	-37137.	-40901.
Population: Net Rev.	909.	0.	909.	4377.	7576.	11953.	12862.
A/V + Pop: Net Cost	-2854.	0.	-2854.	-15140.	-10043.	-25184.	-28038.
2 Calexico							
A/V: Net Cost	-6581.	0.	-6581.	-31816.	-26722.	-60539.	-67120.
Population: Net Rev.	2869.	0.	2869.	12880.	22293.	35173.	38043.
A/V + Pop: Net Cost	-3711.	0.	-3711.	-18936.	-6428.	-25365.	-29076.
3 Calipatria							
A/V: Net Cost	-9645.	0.	-9645.	-3734.	-3371.	-7105.	-16750.
Population: Net Rev.	1312.	0.	1312.	471.	816.	1288.	2601.
A/V + Pop: Net Cost	-8332.	0.	-8332.	-3262.	-2554.	-5817.	-14149.
4 El Centro							
A/V: Net Cost	-4233.	0.	-4233.	-11873.	-10718.	-22592.	-26825.
Population: Net Rev.	2148.	0.	2148.	5594.	7683.	15278.	17427.
A/V + Pop: Net Cost	-2084.	0.	-2084.	-6278.	-1035.	-7313.	-9398.
5 Holtville							
A/V: Net Cost	-1418.	0.	-1418.	-2347.	-2119.	-4466.	-5884.
Population: Net Rev.	142.	0.	142.	219.	379.	598.	741.
A/V + Pop: Net Cost	-1275.	0.	-1275.	-2128.	-1739.	-3867.	-5143.
6 Imperial							
A/V: Net Cost	-718.	0.	-718.	-1714.	-1547.	-3261.	-3980.
Population: Net Rev.	468.	0.	468.	1038.	1797.	2835.	3304.
A/V + Pop: Net Cost	-249.	0.	-249.	-675.	249.	-425.	-675.
7 Westmorland							
A/V: Net Cost	0.	0.	0.	-8029.	-7249.	-15278.	-15278.
Population: Net Rev.	0.	0.	0.	723.	1251.	1974.	1974.
A/V + Pop: Net Cost	0.	0.	0.	-7306.	-5997.	-13304.	-13304.

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TOTAL NET IMPACT ON CITIES	A/V	Population	Net Cost
	\$-176742.	+ 76955.	= -99786.

	New A/V	New Population
Brawley	2055344.	442.78
Calexico	1428753.	414.87
Calipatria	656899.	124.03
El Centro	3375684.	719.24
Holtville	734655.	162.60
Imperial	523696.	110.26
Westmorland	142673.	42.48
Total	\$ 9537704	2016.29

SCHOOL A / V AND NUMBER OF CHILDREN

	New A/V	New ADA	Current + New A/V	Total ADA	A/V per ADA	Current Tax Rate	New ^{1/} Tax Rate	Difference Decrease + Increase -
1 Brawley High School	12248016.	30.76	73371008.	1615.76	45409.	1.8229	1.5542	0.2686
2 Brawley Elementary	12055344.	90.17	48606208.	3539.17	13733.	2.3102	1.7999	0.5102
3 Westmorland Elementary	192673.	8.88	11806428.	479.88	24602.	2.3260	2.3421	-0.0161
4 Calexico Unified H.S.	11728754.	26.23	41426624.	1530.23	27072.	1.8848	1.3731	0.5116
5 Calexico Unified Elem.	11728754.	84.33	41426624.	3594.33	11525.	2.6188	1.9286	0.6901
6 Calipatria Unif. H.S.	10656898.	7.08	33439668.	377.08	88679.	1.8465	1.2840	0.5624
7 Calipatria Unif. Elem.	10656898.	21.10	33439668.	885.10	37780.	2.5656	1.8119	0.7536
8 Central Unified H.S.	13375674.	44.99	93258736.	2454.99	37987.	1.7960	1.5723	0.2236
9 El Centro Elementary	3375684.	143.55	51949776.	4413.55	11770.	2.6161	2.5776	0.0384
10 Heber Elementary	0.	0.00	3955845.	732.00	5404.	2.6560	2.6560	0.0000
11 McCabe Elementary	10000002.	0.00	22042364.	271.00	81337.	2.6630	1.4548	1.2081
12 Holtville Unif. H.S.	10784654.	10.01	46392280.	593.01	78231.	2.1305	1.6645	0.4659
13 Holtville Unif. Elem.	10784654.	31.58	46392280.	1391.58	33337.	2.9602	2.3497	0.6104
14 Imperial Unif. H.S.	523696.	6.86	36519840.	475.86	76743.	1.6758	1.6756	0.0001
15 Imperial Unif. Elem.	523696.	21.85	36519840.	1114.85	32757.	2.3286	2.3592	-0.0306

TOTAL CHILDREN

527.44	125.94	401.50
Total	New	New
New	H.S.	Elem.
ADA	ADA	ADA

^{1/} Revenue limit established in SB 90 would force district tax rate to reduce (or increase).

		Revenue		Cost			
		State & Federal					
	State Aid	Prop. Tax	Per ADA	Per ADA			
1 Brawley High School							
Direct Professional	488.	3447.	345.	2158.			
Non-Professional	0.	0.	0.	0.			
Total	488.	3447.	345.	2158.			
Indirect Professional	2568.	19725.	1841.	11492.			
Non-Professional	6536.	17806.	4602.	28722.			
Total	8982.	37531.	6446.	40233.			
Geothermal Impact	0.	182290.	0.	0.	Revenue	Cost	Net
Grand Total	9471.	223269.	6792.	42391.	239532.	42391.	197141.
Per New ADA				7786.		1378.	6408.
2 Brawley Elementary							
Direct Professional	2369.	4369.	675.	4430.			
Non-Professional	0.	0.	0.	0.			
Total	2369.	4369.	675.	4430.			
Indirect Professional	11349.	22658.	3252.	21323.			
Non-Professional	38094.	20454.	10835.	71026.			
Total	49171.	43113.	14070.	92362.			
Geothermal Impact	0.	231020.	0.	0.			
Grand Total	51540.	278502.	14766.	96793.	344809.	96793.	244016.
Per New ADA				3823.		1073.	2750.
3 Westmorland Elem.							
Direct Professional	0.	0.	0.	0.			
Non-Professional	0.	0.	0.	0.			
Total	0.	0.	0.	0.			
Indirect Professional	256.	2355.	315.	2047.			
Non-Professional	853.	2126.	1052.	6821.			
Total	1110.	4481.	1368.	8870.			
Geothermal Impact	0.	0.	0.	0.			
Grand Total	1110.	4481.	1368.	8870.	6960.	8870.	-1910.
Per New ADA				783.		998.	-215.
4 Calexico Unified H.S.							
Direct Professional	1025.	3564.	275.	2057.			
Non-Professional	0.	0.	0.	0.			
Total	1025.	3564.	275.	2057.			
Indirect Professional	4578.	17232.	1239.	9258.			
Non-Professional	11511.	15556.	3098.	23139.			
Total	15938.	32788.	4340.	32412.			
Geothermal Impact	0.	188480.	0.	0.			
Grand Total	16963.	224833.	4615.	34469.	246412.	34469.	211942.
Per New ADA				9392.		1313.	8078.
5 Calexico Unified Elem.							
Direct Professional	2680.	4952.	726.	4688.			
Non-Professional	0.	0.	0.	0.			
Total	2680.	4952.	726.	4688.			
Indirect Professional	11972.	23943.	3257.	21032.			
Non-Professional	40108.	21614.	10849.	70059.			
Total	51800.	45557.	14109.	91104.			
Geothermal Impact	0.	261879.	0.	0.			
Grand Total	54480.	312390.	14835.	95792.	381706.	95792.	285913.
Per New ADA				4525.		1135.	3390.

	Revenue			Cost		
	State Aid	Prop. Tax	State & Federal Per ADA	Per ADA		
6 Calipatria Unif. H.S.						
Direct Professional	391.	6984.	673.	4906.		
Non-Professional	0.	0.	0.	0.		
Total	391.	6984.	673.	4906.		
Indirect Professional	141.	2704.	242.	1768.		
Non-Professional	352.	2441.	606.	4419.		
Total	493.	5145.	850.	6190.		
Geothermal Impact	0.	184650.	0.	0.	Revenue	Cost
Grand Total	885.	196779.	1523.	11096.	199189.	11096.
Net						181092.
Per New ADA				28120.	1566.	24553.
7 Calipatria Unif. Elem.						
Direct Professional	1032.	9704.	1775.	11173.		
Non-Professional	0.	0.	0.	0.		
Total	1032.	9704.	1775.	11173.		
Indirect Professional	370.	3757.	638.	4014.		
Non-Professional	1235.	3391.	2125.	13372.		
Total	1605.	7149.	2763.	17387.		
Geothermal Impact	0.	256560.	0.	0.		
Grand Total	2638.	273413.	4539.	28562.	280591.	28562.
Net						257028.
Per New ADA				13295.	1353.	11941.
8 Central Unified H.S.						
Direct Professional	1971.	9623.	606.	5715.		
Non-Professional	0.	0.	0.	0.		
Total	1971.	9623.	606.	5715.		
Indirect Professional	5114.	26994.	1584.	14922.		
Non-Professional	12874.	24368.	3960.	37295.		
Total	17861.	51362.	5547.	52241.		
Geothermal Impact	0.	179600.	0.	0.		
Grand Total	19832.	240586.	6154.	57956.	246573.	57956.
Net						208616.
Per New ADA				5925.	1288.	4636.
9 El Centro Elementary						
Direct Professional	6655.	14018.	1162.	13404.		
Non-Professional	0.	0.	0.	0.		
Total	6655.	14018.	1162.	13404.		
Indirect Professional	17255.	39320.	3025.	34889.		
Non-Professional	57842.	35496.	10079.	116216.		
Total	74764.	74817.	13107.	151127.		
Geothermal Impact	0.	0.	0.	0.		
Grand Total	81420.	88835.	14269.	164532.	184524.	164532.
Net						19992.
Per New ADA				1285.	1146.	139.
10 Heber Elementary						
Direct Professional	0.	0.	0.	0.		
Non-Professional	0.	0.	0.	0.		
Total	0.	0.	0.	0.		
Indirect Professional	0.	0.	0.	0.		
Non-Professional	0.	0.	0.	0.		
Total	0.	0.	0.	0.		
Geothermal Impact	0.	0.	0.	0.		
Grand Total	0.	0.	0.	0.	0.	0.
Net						0.
Per New ADA				0.	0.	0.

		Revenue		State & Federal Per ADA	Cost Per ADA			
		State Aid	Prop. Tax					
11	McCabe Elementary							
	Direct Professional	0.	0.	0.	0.			
	Non-Professional	0.	0.	0.	0.			
	Total	0.	0.	0.	0.			
	Indirect Professional	0.	0.	0.	0.			
	Non-Professional	0.	0.	0.	0.			
	Total	0.	0.	0.	0.			
	Geothermal Impact	0.	266300.	0.	0.	Revenue	Cost	Net
	Grand Total	0.	266300.	0.	0.	266300.	0.	266300.
	Per New ADA					266300.	0.	266300.
12	Holtville Unified H.S.							
	Direct Professional	195.	4029.	211.	2537.			
	Non-Professional	0.	0.	0.	0.			
	Total	195.	4029.	211.	2537.			
	Indirect Professional	301.	6668.	325.	3709.			
	Non-Professional	753.	6019.	813.	9770.			
	Total	1055.	12687.	1140.	13685.			
	Geothermal Impact	0.	213050.	0.	0.			
	Grand Total	1251.	229767.	1351.	16223.	232369.	16223.	216146.
	Per New ADA					23211.	1620.	21591.
13	Holtville Unified Elem.							
	Direct Professional	515.	5598.	557.	5785.			
	Non-Professional	0.	0.	0.	0.			
	Total	515.	5598.	557.	5785.			
	Indirect Professional	792.	9265.	855.	8885.			
	Non-Professional	2639.	8363.	2850.	29596.			
	Total	3432.	17629.	3706.	38486.			
	Geothermal Impact	0.	296020.	0.	0.			
	Grand Total	3948.	319247.	4264.	44272.	327460.	44272.	289187.
	Per New ADA					10366.	1401.	8965.
14	Imperial Unified H.S.							
	Direct Professional	97.	1584.	73.	1165.			
	Non-Professional	0.	0.	0.	0.			
	Total	97.	1584.	73.	1165.			
	Indirect Professional	217.	3779.	163.	2587.			
	Non-Professional	543.	3411.	407.	6466.			
	Total	760.	7191.	570.	9057.			
	Geothermal Impact	0.	0.	0.	0.			
	Grand Total	858.	8776.	644.	10222.	10278.	10222.	56.
	Per New ADA					1496.	1488.	8.
15	Imperial Unified Elem.							
	Direct Professional	257.	2201.	193.	2659.			
	Non-Professional	0.	0.	0.	0.			
	Total	257.	2201.	193.	2659.			
	Indirect Professional	571.	5251.	428.	5885.			
	Non-Professional	1901.	4741.	1427.	19605.			
	Total	2473.	9992.	1855.	25495.			
	Geothermal Impact	0.	0.	0.	0.			
	Grand Total	2731.	12194.	2049.	28154.	16975.	28154.	-11178.
	Per New ADA					776.	1288.	-511.

Alternative #2
Moderate Geothermal Development
Fifteen 200 mw plants in operation

IMPACT FOR 15 PLANTS IN YEAR 8

Impact to County Government

NET COUNTY IMPACT FROM PLANT \$2504997. FROM FAMILIES \$ 394468. = Total \$ 2899485

TOTAL ADDITIONAL A/V FOR COUNTY \$178613024. POPULATION 6048.89

	<u>Cost/Revenue Net</u>			Direct			Indirect			Total
		Professional	Non-Professional	Total	Professional	Non-Professional	Total		Total	
Assessed Valuation: Net Rev.	\$104015.		0.	104015.	276166.	249306.	525472.		629488.	
Population: Net Cost	\$ -30396.		0.	-30396.	-74924.	-129679.	-204603.		-234999.	
A/V + Pop: Net Revenue	\$ 73619.		0.	73619.	201241.	119027.	320869.		394468.	
<u>Jobs/ Population/Assessed Valuation</u>										
Job Impact	300.		0.	300.	739.	1077.	2692.		2992.	
Population Impact	782.		0.	782.	1928.	3137.	5266.		6049.	
A/V Impact	\$ 4728001.		0.	4728001.	12553002.	11332124.	23885124.		\$ 28613024	

NET IMPACT ON CITIES

	Direct			Indirect			Total
	Professional	Non-Professional	Total	Professional	Non-Professional	Total	
1 Brawley							
A/V: Net Cost	-20699.	0.	-20699.	-58554.	-52859.	-111413.	-132112.
Population: Net Rev.	5000.	0.	5000.	13132.	22729.	35861.	40861.
A/V + Pop: Net Cost	-15699.	0.	-15698.	-45422.	-30130.	-75552.	-41251.
2 Calexico							
A/V: Net Cost	-6581.	0.	-6581.	-95450.	-86167.	-181617.	-184199.
Population: Net Rev.	2869.	0.	2869.	38641.	66880.	105521.	104391.
A/V + Pop: Net Cost	-3711.	0.	-3711.	-56809.	-19286.	-76095.	-79807.
3 Calipatria							
A/V: Net Cost	-43403.	0.	-43403.	-11203.	-10113.	-21317.	-64720.
Population: Net Rev.	5906.	0.	5906.	1415.	2449.	3865.	9771.
A/V + Pop: Net Cost	-37496.	0.	-37496.	-9788.	-7664.	-17452.	-54948.
4 El Centro							
A/V: Net Cost	-4711.	0.	-4711.	-35621.	-32156.	-67778.	-77489.
Population: Net Rev.	4928.	0.	4928.	16784.	27051.	43836.	57755.
A/V + Pop: Net Cost	-4782.	0.	-4782.	-18836.	-3105.	-21941.	-26724.
5 Holtville							
A/V: Net Cost	-2836.	0.	-2836.	-7042.	-6357.	-13399.	-16236.
Population: Net Rev.	285.	0.	285.	657.	1138.	1796.	2081.
A/V + Pop: Net Cost	-2551.	0.	-2551.	-6384.	-5218.	-11603.	-14154.
6 Imperial							
A/V: Net Cost	-1437.	0.	-1437.	-5142.	-4642.	-9784.	-11221.
Population: Net Rev.	437.	0.	437.	3115.	5392.	8507.	9445.
A/V + Pop: Net Cost	-499.	0.	-499.	-2026.	749.	-1276.	-1776.
7 Westmorland							
A/V: Net Cost	0.	0.	0.	-24089.	-21747.	-45836.	-45836.
Population: Net Rev.	0.	0.	0.	2169.	3754.	5923.	5923.
A/V + Pop: Net Cost	0.	0.	0.	-21920.	-17992.	-39913.	-39913.

TOTAL NET IMPACT ON CITIES A/V Population Net Cost
 \$ -535816. + 227241. - -308575.

	New A/V	New Population
Brawley	6636822.	1406.59
Calexico	5408017.	1182.02
Calipatria	2536055.	465.99
El Centro	9606800.	2095.14
Holtville	2164846.	456.52
Imperial	1476526.	315.16
Westmorland	576014.	127.44
Total	\$ 28613125	6048.89

SCHOOL A / V AND NUMBER OF CHILDREN

	Net A/V	New ADA	Current + New A/V	Total ADA	A/V per ADA	Current Tax Rate	New ^{1/} Tax Rate	Difference Decrease + Increase -
1 Brawley High School	37246784.	96.20	98339776.	1661.20	58493.	1.8229	1.2160	0.6068
2 Brawley Elementary	36630800.	280.84	73184664.	3729.84	19622.	2.3102	1.2434	1.0667
3 Westmorland Elementary	576014.	26.65	12191774.	497.65	24498.	2.3260	2.3730	-0.0470
4 Calexico Unified H.S.	15406014.	75.57	44905880.	1579.57	28429.	1.8848	1.3208	0.5639
5 Calexico Unified Elem.	15408014.	244.76	44905880.	3754.76	11959.	2.6188	1.8914	0.7273
6 Calipatria Unif. H.S.	72537984.	25.94	95320752.	395.94	240740.	1.8465	0.4747	1.3717
7 Calipatria Unif. Elem.	72537984.	75.69	95320752.	939.69	101437.	2.5656	0.6936	1.8719
8 Central Unified H.S.	29806756.	131.83	109671824.	2541.84	43146.	1.7960	1.3932	0.4027
9 El Centro Elementary	9808800.	422.41	58362888.	4692.41	12437.	2.6161	2.5235	0.0925
10 Heber Elementary	10000002.	0.00	13955846.	732.00	19065.	2.6560	0.7528	1.9031
11 McCabe Elementary	10000002.	0.00	22042364.	271.00	81337.	2.6630	1.4548	1.2081
12 Holtville Unif. H.S.	22164832.	28.46	57772456.	611.46	94481.	2.1305	1.3801	0.7503
13 Holtville Elem.	22064832.	90.63	57772456.	1450.63	39825.	2.9602	2.0035	0.9566
14 Imperial Unif. H.S.	1476526.	19.82	37472672.	488.82	76659.	1.6756	1.6769	-0.0011
15 Imperial Unif. Elem.	1476526.	63.48	37472672.	1156.48	32402.	2.3286	2.4180	-0.0894
TOTAL CHILDREN		1582.34 Total New ADA	377.84 New H.S. ADA	1204.49 New Elem. ADA				

^{1/} Revenue limit established in SB 90 would force district tax rate to reduce (or increase).

	State Aid	Revenue		Cost		Revenue	Cost	Net
		Prop. Tax	State & Federal Per ADA	Per ADA	Per ADA			
1 Brawley High School								
Direct Professional	2685.	18961.	1901.	11869.				
Non-Professional	0.	0.	0.	0.				
Total	2685.	18961.	1901.	11869.				
Indirect Professional	7704.	59175.	5524.	34477.				
Non-Professional	19608.	53419.	13807.	86168.				
Total	26948.	112594.	19340.	120699.				
Geothermal Impact	0.	546870.	0.	0.				
Grand Total	29633.	678425.	21242.	132568.	729301.	132568.	594733.	
Per New ADA					7581.	1378.	4203.	
2 Brawley Elementary								
Direct Professional	13033.	24029.	3717.	24370.				
Non-Professional	0.	0.	0.	0.				
Total	13033.	24029.	3717.	24370.				
Indirect Professional	34048.	67975.	9758.	63969.				
Non-Professional	14283.	61364.	32506.	213080.				
Total	147513.	129340.	42271.	277087.				
Geothermal Impact	0.	693060.	0.	0.				
Grand Total	160546.	846430.	45988.	301457.	1052966.	301457.	751508.	
Per New ADA					3749.	1073.	2675.	
3 Westmorland Elementary								
Direct Professional	0.	0.	0.	0.				
Non-Professional	0.	0.	0.	0.				
Total	0.	0.	0.	0.				
Indirect Professional	769.	7065.	947.	6143.				
Non-Professional	2561.	6378.	3156.	20464.				
Total	3331.	13444.	4104.	26611.				
Geothermal Impact	0.	0.	0.	0.				
Grand Total	3331.	13444.	4104.	26611.	20880.	26611.	-5730.	
Per New ADA					783.	998.	-215.	
4 Calexico Unified H.S.								
Direct Professional	1025.	3564.	275.	2057.				
Non-Professional	0.	0.	0.	0.				
Total	1025.	3564.	275.	2057.				
Indirect Professional	13736.	51694.	3719.	27775.				
Non-Professional	34535.	46668.	9296.	69417.				
Total	47271.	98365.	13021.	97236.				
Geothermal Impact	0.	148480.	0.	0.				
Grand Total	48639.	290410.	13296.	99293.	352546.	99293.	253252.	
Per New ADA					4665.	1313.	7351.	
5 Calexico Unified Elem.								
Direct Professional	2680.	4952.	726.	4688.				
Non-Professional	0.	0.	0.	0.				
Total	2680.	4952.	726.	4688.				
Indirect Professional	35918.	71829.	9771.	63097.				
Non-Professional	20325.	64843.	32549.	210176.				
Total	155400.	136672.	42327.	273311.				
Geothermal Impact	0.	261879.	0.	0.				
Grand Total	158080.	403505.	43053.	278000.	604639.	278000.	324639.	
Per New ADA					2470.	1135.	1334.	

	Revenue		State & Federal Per ADA	Cost		Revenue	Cost	Net
	State Aid	Prop. Tax		Per ADA	Per ADA			
6 Calipatria Unif. H.S.								
Direct Professional	1761.	31428.	3032.	22078.				
Non-Professional	0.	0.	0.	0.				
Total	1761.	31428.	3032.	22078.				
Indirect Professional	423.	8112.	728.	5304.				
Non-Professional	1057.	7323.	1820.	13257.				
Total	1481.	15436.	2550.	18570.				
Geothermal Impact	0.	1292549.	0.	0.				
Grand Total	3243.	1339414.	5582.	40648.		1348240.	40648.	1307592.
Per New ADA					51958.		1566.	50391.
7 Calipatria Unif. Elem.								
Direct Professional	4643.	43668.	7991.	50281.				
Non-Professional	0.	0.	0.	0.				
Total	4643.	43668.	7991.	50281.				
Indirect Professional	1112.	11272.	1914.	12043.				
Non-Professional	3705.	10175.	6375.	40116.				
Total	4818.	21447.	8291.	52167.				
Geothermal Impact	0.	1795919.	0.	0.				
Grand Total	9462.	1861035.	16282.	102448.		1886780.	102448.	1784331.
Per New ADA					24925.		1353.	23571.
8 Central Unified H.S.								
Direct Professional	4521.	22077.	1392.	13112.				
Non-Professional	0.	0.	0.	0.				
Total	4521.	22077.	1392.	13112.				
Indirect Professional	15343.	80982.	4754.	44768.				
Non-Professional	38623.	73106.	11881.	111885.				
Total	53966.	154088.	16643.	156723.				
Geothermal Impact	0.	359200.	0.	0.				
Grand Total	58404.	535366.	18035.	169836.		611506.	169836.	441670.
Per New ADA					4638.		1288.	3350.
9 El Centro Elementary								
Direct Professional	15268.	32159.	2667.	30752.				
Non-Professional	0.	0.	0.	0.				
Total	15268.	32159.	2667.	30752.				
Indirect Professional	51767.	117961.	9077.	104669.				
Non-Professional	73527.	106489.	30238.	348650.				
Total	224293.	224450.	39321.	453381.				
Geothermal Impact	0.	0.	0.	0.				
Grand Total	239561.	256610.	41988.	484134.		578160.	484134.	54026.
Per New ADA					1273.		1146.	127.
10 Heber Elementary								
Direct Professional	0.	0.	0.	0.				
Non-Professional	0.	0.	0.	0.				
Total	0.	0.	0.	0.				
Indirect Professional	0.	0.	0.	0.				
Non-Professional	0.	0.	0.	0.				
Total	0.	0.	0.	0.				
Geothermal Impact	0.	265600.	0.	0.				
Grand Total	0.	265600.	0.	0.		265600.	0.	265600.
Per New ADA					265600.		0.	265600.

	Revenue		State & Federal		Cost		Revenue	Cost	Net
	State Aid	Prop. Tax	Per ADA	Per ADA	Per ADA				
11 McCabe Elementary									
Direct Professional	0.	0.	0.	0.	0.				
Non-Professional	0.	0.	0.	0.	0.				
Total	0.	0.	0.	0.	0.				
Indirect Professional	0.	0.	0.	0.	0.				
Non-Professional	0.	0.	0.	0.	0.				
Total	0.	0.	0.	0.	0.				
Geothermal Impact	0.	266300.	0.	0.	0.	Revenue			
Grand Total	0.	266300.	0.	0.	0.	266300.	Cost	0.	Net
Per New ADA						266300.	0.	266300.	
12 Holtville Unified H.S.									
Direct Professional	391.	8058.	422.	5075.					
Non-Professional	0.	0.	0.	0.					
Total	391.	8058.	422.	5075.					
Indirect Professional	704.	20004.	976.	11728.					
Non-Professional	2260.	18059.	2441.	29311.					
Total	3166.	38063.	3420.	41057.					
Geothermal Impact	0.	426100.	0.	0.					
Grand Total	3558.	472222.	3843.	46133.	479623.	46133.	433490.		
Per New ADA					16848.	1620.	15227.		
13 Holtville Unified Elem.									
Direct Professional	1031.	11196.	1114.	11571.					
Non-Professional	0.	0.	0.	0.					
Total	1031.	11196.	1114.	11571.					
Indirect Professional	2377.	27795.	2567.	26655.					
Non-Professional	7918.	25091.	8551.	88788.					
Total	10297.	52887.	11120.	115459.					
Geothermal Impact	0.	592040.	0.	0.					
Grand Total	11329.	656123.	12235.	127031.	679688.	127031.	552656.		
Per New ADA					7499.	1401.	6097.		
14 Imperial Unified H.S.									
Direct Professional	195.	3169.	146.	2330.					
Non-Professional	0.	0.	0.	0.					
Total	195.	3169.	146.	2330.					
Indirect Professional	651.	11338.	489.	7761.					
Non-Professional	1629.	10235.	1222.	19398.					
Total	2281.	21574.	1712.	27172.					
Geothermal Impact	0.	0.	0.	0.					
Grand Total	2477.	24743.	1859.	29502.	29080.	29502.	-422.		
Per New ADA					1467.	1488.	-21.		
15 Imperial Unified Elem.									
Direct Professional	515.	4403.	387.	5318.					
Non-Professional	0.	0.	0.	0.					
Total	515.	4403.	387.	5318.					
Indirect Professional	1713.	15755.	1285.	17657.					
Non-Professional	5705.	14223.	4281.	58817.					
Total	7420.	29978.	5567.	76485.					
Geothermal Impact	0.	0.	0.	0.					
Grand Total	7936.	34382.	5955.	81804.	48273.	81804.	-33530.		
Per New ADA					760.	1288.	-528.		

Alternative #3
Maximum Geothermal Development
Forty 200 mw plants in operation

IMPACT FOR 40 PLANTS IN YEAR 8

Impact to County Government

NET COUNTY IMPACT FROM PLANT \$6679978. FROM FAMILIES \$1051971. = Total \$ 7731949
TOTAL ADDITIONAL A/V FOR COUNTY \$476301056. POPULATION 16130.34

	Direct			Indirect			Total
	Professional	Non-Professional	Total	Professional	Non-Professional	Total	
<u>Cost/Revenue Net</u>							
Assessed Valuation: Net Rev.	\$ 277375.	0.	277375.	736441.	664817.	1401260.	1678635.
Population: Net Cost	\$ -81056.	0.	-81056.	-179797.	-345811.	-545608.	-626664.
A/V + Pop: Net Revenue	\$ 196318.	0.	196318.	536644.	319006.	855652.	1051971.
<u>Jobs/Population/Assessed Valuation</u>							
Job Impact	800.	0.	800.	1971.	5007.	7179.	7979.
Population Impact	2086.	0.	2086.	5142.	8701.	14043.	16130.
A/V Impact	\$ 12608002.	0.	12608002.	33474616.	30218140.	63693552.	\$76301056

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NET IMPACT ON CITIES

	Direct			Indirect			Total
	Professional	Non-Professional	Total	Professional	Non-Professional	Total	
1 Brawley							
A/V: Net Cost	-47043.	0.	-47043.	-156144.	-140958.	-297102.	-344146.
Population: Net Rev.	11364.	0.	11364.	35018.	60611.	95630.	106994.
A/V + Pop: Net Cost	-35679.	0.	-35679.	-121125.	-80347.	-201472.	-237151.
2 Calexico							
A/V: Net Cost	-36197.	0.	-36197.	-254534.	-221778.	-434313.	-520510.
Population: Net Rev.	15784.	0.	15784.	103043.	178348.	281391.	297175.
A/V + Pop: Net Cost	-20413.	0.	-20413.	-151491.	-51430.	-202921.	-223335.
3 Calipatria							
A/V: Net Cost	-113330.	0.	-113330.	-29876.	-28970.	-56846.	-170176.
Population: Net Rev.	15422.	0.	15422.	3774.	8533.	10307.	25730.
A/V + Pop: Net Cost	-17907.	0.	-17907.	-26101.	-20437.	-46538.	-144446.
4 El Centro							
A/V: Net Cost	-21912.	0.	-21912.	-94990.	-85751.	-180741.	-202654.
Population: Net Rev.	11121.	0.	11121.	44759.	71470.	122230.	133352.
A/V + Pop: Net Cost	-10790.	0.	-10790.	-50230.	-8280.	-58511.	-69302.
5 Holtville							
A/V: Net Cost	-5673.	0.	-5673.	-16779.	-16952.	-35732.	-41405.
Population: Net Rev.	570.	0.	570.	1754.	3036.	4790.	5361.
A/V + Pop: Net Cost	-5102.	0.	-5102.	-17025.	-13916.	-30941.	-36044.
6 Imperial							
A/V: Net Cost	-5030.	0.	-5030.	-13712.	-12376.	-26091.	-31122.
Population: Net Rev.	3282.	0.	3282.	6307.	14378.	22686.	25969.
A/V + Pop: Net Cost	-1747.	0.	-1747.	-5404.	1999.	-3405.	-5152.
7 Westmorland							
A/V: Net Cost	-44491.	0.	-44491.	-64239.	-57991.	-122231.	-167223.
Population: Net Rev.	4363.	0.	4363.	5784.	10012.	15796.	20160.
A/V + Pop: Net Cost	-40127.	0.	-40127.	-58455.	-47979.	-106435.	-147062.
TOTAL NET IMPACT ON CITIES	\$ -1477239.	+	614743.	=	-862495.		

	New A/V	New Population
Brawley	17243740.	3663.10
Calexico	14457148.	3240.74
Calipatria	6673564.	1226.99
El Centro	25652388.	5503.58
Holtville	5520760.	1175.67
Imperial	4044999.	866.50
Westmorland	2106743.	433.75
Total	\$ 16301056.	16130.

SCHOOL A / V AND NUMBER OF CHILDREN

	New A/V	New ADA	Current + New A/V	Total		Current Tax Rate	New ^{1/} Tax Rate	Difference Decrease + Increase -
1 Brawley High School	79402000.	257.83	140524992.	1842.83	76254.	1.8229	0.9486	0.8742
2 Brawley Elementary	67293552.	739.78	103844416.	4188.98	24789.	2.3102	1.0539	1.2562
3 Westmorland Elem.	12108744.	83.45	23722500.	554.45	42785.	2.3266	1.3918	0.9341
4 Calexico Unified H.S.	44757072.	205.96	74454944.	1709.96	43541.	1.8848	0.8826	1.0021
5 Calexico Unified Elem.	44757072.	664.39	74454944.	4174.39	17836.	2.6188	1.3177	1.3010
6 Calipatria Unif. H.S.	216672896.	68.41	239455648.	438.41	546187.	1.8465	0.2107	1.6357
7 Calipatria Unif. Elem.	216672896.	199.74	239455648.	1063.79	225095.	2.5656	0.3286	2.2369
8 Central Unified H.S.	75652128.	347.39	155515200.	2757.39	56399.	1.7960	1.0810	0.7149
9 El Centro Elementary	25652388.	1115.44	74206480.	5385.44	13779.	2.6161	2.4326	0.1834
10 Heber Elementary	20000004.	0.00	23955848.	732.00	32726.	2.6560	0.4315	2.2174
11 McCabe Elementary	30000004.	0.00	42042368.	271.00	155137.	2.6630	0.7627	1.9002
12 Holtville Unif. H.S.	55520664.	73.82	91128288.	656.82	138740.	2.1305	0.9426	1.1878
13 Holtville Unif. Elem.	55520664.	236.18	91128288.	1596.18	57091.	2.9602	1.4525	1.5076
14 Imperial Unif. H.S.	4094999.	54.16	40091144.	523.16	76632.	1.6758	1.6761	-0.0003
15 Imperial Unif. Elem.	4094999.	172.74	40091144.	1265.74	31674.	2.3286	2.5516	-0.2230
TOTAL CHILDREN		4219.58	1007.59	3211.99				
		Total New ADA	New H.S. ADA	New Elem. ADA				

^{1/} Revenue limit established in SB 90 would force district tax rate to reduce (or increase).

	Revenue		State & Federal Per ADA	Cost Per ADA		Revenue	Cost	Net
	State Aid	Prop. Tax						
1 Brawley High School								
Direct Professional	7567.	53435.	5359.	33449.				
Non-Professional	0.	0.	0.	0.				
Total	7567.	53435.	5359.	33449.				
Indirect Professional	20546.	157799.	14732.	91940.				
Non-Professional	52288.	142452.	36818.	229780.				
Total	71862.	300252.	51573.	321864.				
Geothermal Impact	0.	1093739.	0.	0.				
Grand Total	79429.	1447427.	56933.	355313.	1583791.	355313.	1228478.	
Per New ADA				6142.		1378.	4764.	
2 Brawley Elementary								
Direct Professional	29621.	54613.	8449.	55386.				
Non-Professional	0.	0.	0.	0.				
Total	29621.	54613.	8449.	55386.				
Indirect Professional	90795.	181268.	26023.	170584.				
Non-Professional	304756.	163638.	86684.	568213.				
Total	393367.	344907.	112723.	738897.				
Geothermal Impact	0.	1155099.	0.	0.				
Grand Total	422989.	1554620.	121172.	794283.	2098782.	794283.	1304498.	
Per New ADA				2836.		1073.	1762.	
3 Westmorland Elementary								
Direct Professional	1547.	13196.	1907.	12365.				
Non-Professional	0.	0.	0.	0.				
Total	1547.	13196.	1907.	12365.				
Indirect Professional	2050.	18842.	2526.	16382.				
Non-Professional	6831.	17010.	8416.	54571.				
Total	8883.	35852.	10944.	70963.				
Geothermal Impact	0.	232600.	0.	0.				
Grand Total	10431.	281649.	12851.	83329.	304933.	83329.	221603.	
Per New ADA				3653.		998.	2655.	
4 Calexico Unified H.S.								
Direct Professional	5638.	19604.	1515.	11316.				
Non-Professional	0.	0.	0.	0.				
Total	5638.	19604.	1515.	11316.				
Indirect Professional	36630.	137858.	9918.	74068.				
Non-Professional	92093.	124450.	24789.	185113.				
Total	127503.	262308.	34723.	259296.				
Geothermal Impact	0.	565440.	0.	0.				
Grand Total	133142.	847353.	36238.	270613.	1016734.	270613.	746121.	
Per New ADA				4936.		1313.	3622.	
5 Calexico Unified Elem.								
Direct Professional	14744.	27239.	3993.	25787.				
Non-Professional	0.	0.	0.	0.				
Total	14744.	27239.	3993.	25787.				
Indirect Professional	95781.	191544.	26058.	168260.				
Non-Professional	320868.	172915.	86799.	560470.				
Total	414400.	364460.	112873.	728830.				
Geothermal Impact	0.	785639.	0.	0.				
Grand Total	429144.	1177339.	116866.	754617.	1723350.	754617.	968732.	
Per New ADA				2593.		1135.	1458.	

	Revenue			Cost		Revenue	Cost	Net
	State Aid	Prop. Tax	State & Federal Per ADA	Per ADA				
6 Calipatria Unif. H.S.								
Direct Professional	4600.	82064.	7917.	57648.				
Non-Professional	0.	0.	0.	0.				
Total	4600.	82064.	7917.	57648.				
Indirect Professional	1128.	21633.	1942.	14145.				
Non-Professional	2820.	19529.	4855.	35352.				
Total	3951.	41163.	6800.	49520.				
Geothermal Impact	0.	3877644.	0.	0.				
Grand Total	8551.	4000871.	14718.	107168.	4024141.	107168.	3914972.	
Per New ADA					58821.	1566.	57254.	
7 Calipatria Unif. Elem.								
Direct Professional	12125.	114023.	20866.	131290.				
Non-Professional	0.	0.	0.	0.				
Total	12125.	114023.	20866.	131290.				
Indirect Professional	2966.	30058.	5104.	32116.				
Non-Professional	9880.	27135.	17002.	106978.				
Total	12848.	57194.	22109.	139113.				
Geothermal Impact	0.	5387751.	0.	0.				
Grand Total	24974.	5558968.	42976.	270403.	5626918.	270403.	5354514.	
Per New ADA					28163.	1353.	24810.	
8 Central Unified H.S.								
Direct Professional	10202.	49816.	3142.	29587.				
Non-Professional	0.	0.	0.	0.				
Total	10202.	49816.	3142.	29587.				
Indirect Professional	40915.	215952.	12677.	119381.				
Non-Professional	102994.	194949.	31684.	298362.				
Total	142888.	410902.	44361.	417928.				
Geothermal Impact	0.	897999.	0.	0.				
Grand Total	153091.	1358718.	47523.	447515.	1559333.	447515.	1111817.	
Per New ADA					4488.	1288.	3200.	
9 El Centro Elementary								
Direct Professional	34452.	72564.	6018.	69389.				
Non-Professional	0.	0.	0.	0.				
Total	34452.	72564.	6018.	69389.				
Indirect Professional	138045.	314563.	24207.	279117.				
Non-Professional	462738.	283970.	80634.	929735.				
Total	578115.	598535.	104856.	1209016.				
Geothermal Impact	0.	0.	0.	0.				
Grand Total	632567.	671099.	110874.	1278405.	1414542.	1278405.	134136.	
Per New ADA					1268.	1146.	122.	
10 Heber Elementary								
Direct Professional	0.	0.	0.	0.				
Non-Professional	0.	0.	0.	0.				
Total	0.	0.	0.	0.				
Indirect Professional	0.	0.	0.	0.				
Non-Professional	0.	0.	0.	0.				
Total	0.	0.	0.	0.				
Geothermal Impact	0.	531200.	0.	0.				
Grand Total	0.	531200.	0.	0.	531200.	0.	531200.	
Per New ADA					531200.	0.	531200.	

	Revenue		State & Federal		Cost		
	State Aid	Prop. Tax	Per ADA	Per ADA	Per ADA		
11 McCabe Elementary							
Direct Professional	0.	0.	0.	0.			
Non-Professional	0.	0.	0.	0.			
Total	0.	0.	0.	0.			
Indirect Professional	0.	0.	0.	0.			
Non-Professional	0.	0.	0.	0.			
Total	0.	0.	0.	0.			
Geothermal Impact	0.	798899.	0.	0.	Revenue	Cost	Net
Grand Total	0.	798899.	0.	0.	798899.	0.	798899.
Per New ADA					798899.	0.	798899.
12 Holtville Unified H.S.							
Direct Professional	782.	16116.	845.	10151.			
Non-Professional	0.	0.	0.	0.			
Total	782.	16116.	845.	10151.			
Indirect Professional	2412.	53345.	2605.	31274.			
Non-Professional	6028.	48157.	6511.	78163.			
Total	8444.	101503.	9120.	109486.			
Geothermal Impact	0.	1065249.	0.	0.			
Grand Total	9227.	1182869.	9966.	119637.	1202063.	119637.	1082425.
Per New ADA					16283.	1620.	14662.
13 Holtville Unified Elem.							
Direct Professional	2063.	22393.	2229.	23143.			
Non-Professional	0.	0.	0.	0.			
Total	2063.	22393.	2229.	23143.			
Indirect Professional	6339.	74120.	6846.	71081.			
Non-Professional	21116.	66911.	22805.	236769.			
Total	27457.	141032.	29655.	307892.			
Geothermal Impact	0.	1480099.	0.	0.			
Grand Total	29523.	1643524.	31884.	331036.	1704932.	331036.	1373896.
Per New ADA					7218.	1401.	5817.
14 Imperial Unified H.S.							
Direct Professional	685.	11092.	514.	8157.			
Non-Professional	0.	0.	0.	0.			
Total	685.	11092.	514.	8157.			
Indirect Professional	1738.	30236.	1304.	20697.			
Non-Professional	4544.	27295.	3259.	51728.			
Total	6085.	57531.	4566.	72458.			
Geothermal Impact	0.	0.	0.	0.			
Grand Total	6770.	63624.	5080.	80616.	80474.	80616.	-141.
Per New ADA					1485.	1488.	-2.
15 Imperial Unified Elem.							
Direct Professional	1805.	15413.	1355.	18616.			
Non-Professional	0.	0.	0.	0.			
Total	1805.	15413.	1355.	18616.			
Indirect Professional	4568.	42014.	3427.	47087.			
Non-Professional	15215.	37928.	11418.	156845.			
Total	19786.	79942.	14847.	203960.			
Geothermal Impact	0.	0.	0.	0.			
Grand Total	21592.	95356.	16203.	222576.	133152.	222576.	-89424.
Per New ADA					770.	1288.	-517.

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