

REPORT TO SHASTA COUNTY RTPA

SUBJECT	MEETING DATE	ITEM NUMBER
Accept Travel Demand Model Forecast and Receive Caltrans I-5 Forecast Presentation	4/17/07	8

RECOMMENDATION

It is recommended that the Agency:

- 1) Accept updated Shasta County Travel Demand Forecast Model; and
- 2) Receive a presentation from Caltrans regarding the Transportation Concept Report (TCR) for Interstate 5

SUMMARY

The Shasta Travel Demand Forecast Model has been accepted by the Shasta Model Users Group (SMUG) and provided to Caltrans, the cities, and a number of consulting firms for their use in regional transportation planning. The core data files that account for growth in the region should be accepted as the official forecast for transportation planning for Shasta County. On a related matter, Caltrans will be making a presentation regarding these forecasts in relation to future Interstate 5 congestion.

DISCUSSION

On January 23, 2007, the Shasta Model Users Group (SMUG) unanimously accepted the Shasta County Travel Demand Forecasting Model as the official forecast for the region. SMUG is comprised of representatives from all Shasta County jurisdictions for the purpose of updating and enhancing the accuracy of the existing model. Approximately two years of development went into the most recent update. It is the third major update since the model's inception.

An up-to-date travel model is a required component to support the Regional Transportation Plan (RTP). Federal transportation planning legislation requires all Metropolitan Planning Organizations to develop an RTP with a 20-year minimum planning horizon [23 U.S.C. 134 (g) and 49 U.S.C. 5303 (f)]. Forecasts from the Shasta County Travel Demand Model will be used to update the next RTP.

Other uses of the model include:

- o Interstate 5 Transportation Concept Report - Travel demand forecasts for Interstate 5 will be utilized by Caltrans to determine future year level of service and the effectiveness of various improvement strategies.
- o Air Quality Conformity Determinations - Although the region is currently in "attainment" for air quality standards, the updated travel model satisfies all required specifications for use in air quality conformity determinations if needed.
- o ShastaFORWARD>> - Model output will be used to determine the impacts of various growth scenarios for Shasta County.
- o Fix 5 Partnership - Model output will help quantify the cumulative impacts of new development on Interstate 5 and provide the legal basis for required mitigation activities.
- o Traffic Impact Fees Programs - Model forecast is used to account for future trips and level of service calculations on existing and proposed transportation facilities.

The attached tables contain the underlying assumptions and metrics the Agency is asked to accept. These assumptions include 1) future road improvements organized in 5 year bands; 2) future land use based on overall residential, employment, and phased development projections; and 3) an overall summary of land use for 2005 and 2030.

Additionally, attached are four graphs of key data sets from the modeling effort. Two of the graphs detail the cumulative growth in employment and households by jurisdiction from 2005 to 2030. A graph in five year bands quantifying the expected hours of travel delay by facility category (freeway, arterial, etc) is attached. Lastly, a pie chart is provided that indicates the relative percentage share of vehicle miles traveled (VMT) by facility category in the year 2005.

In summary, the model provides the following forecast to 2030.

MODEL OUTPUTS	2005	2030	Average Annual % Increase
Population	179,189	244,468	1.95%
Households	69,629	103,843	1.93%
Employment	90,068	123,875	1.96%
Hours of Delay	5,169	14,768	7.43%
Daily Trips	1,195,865	1,729,557	1.72%
Daily Vehicle Miles of Travel	5,556,413	8,522,261	2.14%
Daily Vehicle Hours of Travel	133,939	208,211	2.01%

ALTERNATIVES

The Agency may choose not to accept the forecast. This is not recommended as the model has undergone extensive technical review by all entities involved in its development.

OTHER AGENCY INVOLVEMENT

This update has been coordinated with the affected agencies. The approval by the Agency brings closure to the model update project. The Technical Advisory Committee (TAC) concurs with the staff recommendation.

FINANCING

There is no financial impact. Planning funds and SMUG staff time have already been expended; the project costs of \$199,669 are within its budget.



Daniel S. Little, AICP, Executive Officer

DSL/TLH/jac

Attachments: Forecast Assumptions (2/12/07) Tables 1 - 4
2005 and 2030 Land Use Summaries by Area
Population, Housing, Employment Trends and Daily Vehicle
Miles of Travel Charts
Interstate 5 Transportation Concept Report: Summary Working
Paper B

Table 1: Shasta County Road Improvements

Name	Location	Description	Year	Source	Comments
SR 161	Locust - Shasta	Narrow from 4 to 2 lanes	2007	Caltrans	SMUG meeting 8/06
Redding Downtown (RDD)	Liberty - Trinity/California	Add turn lanes, modify 1-way	2007	Caltrans	Sketch sent 9/7/06
I-5 NB Off-Ramp	Deschutes	Construct off-ramp	2008	City of Anderson	SMUG meeting 8/06
Pleasant Hills	SR 273 - Vineyards	Construct 2-lane road	2008	City of Anderson	Vineyards Plan 9/06
Rhonda Road	S. of Deschutes	Relocate intersection to Deschutes	2008	City of Anderson	SMUG meeting 8/06
Airport Road	Riverside - Dersch	Widen from 2 to 4 lanes	2010	City of Anderson	SMUG meeting 8/06
Anderson Hills Parkway	W. of Pleasant Hills	Construct 4-lane road	2010	City of Anderson	Vineyards Plan 9/06
Anderson Hills Parkway	Pleasant Hills - Anderson	Construct 4-lane road	2015	City of Anderson	Vineyards Plan 9/06
Anderson Hills Parkway	Pleasant Hills - Locust	Construct 4-lane road	2025	City of Anderson	Vineyards Plan 9/06
Gateway Drive	Deschutes - Balls Ferry	Construct 2-lane road	2025	City of Anderson	SMUG meeting 7/06
Eastside Road	N. of S. Bonnyview	Delete connection E. of RR	pre-2004	City of Redding	SMUG meeting 8/06
Shasta Street	E. of Manzanita Hills	Construct 2-lane road	2006	City of Redding	Comments on network 2005
Airstrip Road	Crossfire - Viking	Complete 2-lane road	2006	City of Redding	Comments on network 12/06
Crossfire Ave	Tarmac - Airstrip	Construct 2-lane road	2006	City of Redding	Comments on network 12/06
Foothill Blvd	Stoneridge - Lakeside	Construct 2-lane extension	2006	City of Redding	Comments on network 12/06
Lakeside Drive	Buenaventura - Foothill	Construct 2-lane extension	2006	City of Redding	SMUG Meeting 9/06
South Bonnyview Road	SR 273 - Eastside	Widen to 2 EB lanes	2008	City of Redding	SMUG Meeting 9/06
South Bonnyview Road	Eastside - W. of Indianwood	Widen from 2 to 4 lanes	2008	City of Redding	SMUG Meeting 9/06
South Bonnyview Road	At Indianwood	Widen to 2 EB lanes	2008	City of Redding	SMUG Meeting 9/06
Browning Street	Churn Creek - Friendly	Widen from 2 to 4 lanes	2010	City of Redding	Comments on network 10/06
Hartnell Ave.	Victor - Shasta View	Widen from 2 to 4 lanes	2010	City of Redding	Comments on network 10/06
Hilltop Drive	SR 44 EB Ramps - Dana	Widen NB from 2 to 3 lanes	2010	City of Redding	Comments on network 10/06
Placer Street	Buenaventura - Airport	Widen from 2 to 4 lanes	2010	City of Redding	Comments on network 10/06
Placer Street	Boston - Buenaventura	Widen from 2 to 4 lanes	2010	City of Redding	Comments on network 10/06
Shasta View Drive	Rancho - Airport	Construct 2-lane road	2010	City of Redding	Comments on network 12/06
Stillwater Bus. Park Rd.	North Portion	Construct 2-lane road	2010	City of Redding	SMUG meeting 7/06
Cypress Avenue	Athens - Hartnell	Widen from 4 to 6 lanes	2010	City of Redding	SMUG meeting 8/06
Market Street	Placer - Tehama	Construct 2-lane road	2012	City of Redding	Comments on network 10/06
Airport Road	Rancho - SR 44	Widen from 2 to 4 lanes	2015	City of Redding	Comments on network 2005
Oak Mesa Lane	Tarmac - Gandlewood	Construct 2-lane road	2015	City of Redding	Comments on network 10/06
Old Alburas Road	Victor - Oak Mesa	Widen from 2 to 4 lanes	2015	City of Redding	SMUG meeting 8/06
Shasta View Drive	Collyer - Oasis	Complete 4-lane road	2015	City of Redding	Comments on network 2005
Tarmac Road	Oak Mesa - Shasta View	Construct 2-lane road	2015	City of Redding	Comments on network 2005
Cedar Road	El Reno - Westside	Construct 2-lane road	2025	City of Redding	SMUG meeting 7/06
Stillwater Bus. Park Rd.	South Portion	Construct 2-lane road	2030	City of Redding	SMUG meeting 8/06
Shasta View Drive	College View - Collyer	4-lane overcrossing	2035	City of Redding	SMUG meeting 8/06
Shasta Gateway	Ashby - Cascade	Construct 2-lane road	2012	City of Shasta Lake	Comments on network 2005
Cascade Drive	N. of Union School	Construct 2-lane road	2012	City of Shasta Lake	Comments on network 2005
Pine Grove Avenue	Leona - Akrich	Construct 2-lane road	2012	City of Shasta Lake	Comments on network 2005
North Fork Ranch Road	Olinda - Happy Valley	Construct 2-lane road	2015	Shasta County	North Fork Ranch Plan 5/06
New E-W	N. Fork Ranch - SR 273	Construct 2-lane road	2015	Shasta County	North Fork Ranch Plan 5/06
Gas Point Road	New N-S - Rhonda	Widen from 2 to 4(6) lanes	2010	Shasta RTPA	South Region preferred
Rhonda Road	Gas Point - I-5/Main	New/realigned 2(3) lane road	2010	Shasta RTPA	South Region preferred
New N-S Road	First - New E-W	Construct 2(3) lane road	2010	Shasta RTPA	South Region preferred
New E-W Road	New N-S - Rhonda	Construct 2(3) lane road	2010	Shasta RTPA	South Region preferred
I-5 Interchange	Main Street	Connect to west, add roundabouts	2010	Shasta RTPA	South Region preferred
Dana Drive	Hilltop - SR 44	Construct connector to ramp	2012	Shasta RTPA	SMUG meeting 8/06
New N-S Road	New E-W - Rhonda	Construct 2(3) lane road	2015	Shasta RTPA	South Region preferred
Gas Point Road	Rhonda - Main over I-5	Widen from 2 to 4(6) lanes	2020	Shasta RTPA	South Region preferred

Table 2: Shasta County Residential Projections

PROJECTION OF OCCUPIED RESIDENTIAL UNITS BY SUBAREA, SHASTA COUNTY 2005-2030

PROJECTION OF OCCUPIED RESIDENTIAL UNITS BY SUBAREA, SHASTA COUNTY 2009-2030															
	2005 base year (DOF occupied housing units)	2010		2015		2020		2025		2030		Estimated Incremental Household Growth	Estimated Percent Household Growth	Net Remaining	Land Capacity (Est. Units)
		2010	2015	2020	2025	2030	2020	2025	2030						
Projected Units Countywide	68,220	75,158	81,656	88,154	94,652	101,150	32,930	48.3%	32,930	43,962	101,150	32,930	48.3%	32,930	43,962
Redding at Midpoint Densities, Assume 75% Buildout	34,612	39,109	43,116	46,603	49,587	52,044	17,432	50.4%	15,497	17,432	52,044	17,432	50.4%	15,497	17,432
Anderson (OmniMeans/PMC)	3,847	5,191	6,531	7,765	8,553	9,193	5,346	139.0%	10,151	5,346	9,193	5,346	139.0%	10,151	5,346
Shasta Lake	3,786	4,286	4,786	5,286	5,786	6,286	2,651	66.0%	7,651	2,651	6,286	2,651	66.0%	7,651	3,917
Total Unincorporated County	25,975	26,572	27,224	28,499	30,726	33,626	7,651	29.5%	7,651	7,651	33,626	7,651	29.5%	7,651	17,503
Urban:	Cottonwood (OmniMeans/PMC)	1,160	1,368	1,614	1,904	2,247	2,651	1,491	128.5%	6,160	2,651	2,651	128.5%	6,160	1,492
	Other South County (OmniMeans/PMC)	932	1,020	1,104	1,188	1,280	2,482	1,550	166.3%	4,610	2,482	2,482	166.3%	4,610	444
	Palo Cedro and Southeast of Redding, 70% Buildout	1,662	1,692	1,624	1,715	1,839	2,024	462	29.6%	4,149	2,024	2,024	29.6%	4,149	924
	Happy Valley (incl. North Fork)	845	919	998	1,219	1,524	1,977	1,132	134.0%	3,017	1,977	1,977	134.0%	3,017	2,724
	North Central Shasta County (Big Bend, Montgomery)	1,240	1,253	1,268	1,308	1,363	1,444	204	16.5%	2,812	1,444	1,444	16.5%	2,812	-----
Rural:	East Shasta County (Burney, Fall River, McArthur, C)	3,365	3,399	3,436	3,538	3,680	3,889	524	15.6%	2,288	3,889	524	15.6%	2,288	-----
	Shingletown and Highway 44 Dersch Road Corridor	1,811	1,890	1,974	2,211	2,536	3,020	1,209	66.8%	1,079	3,020	1,209	66.8%	1,079	5,770
	Other	10,856	10,881	10,908	10,984	11,088	11,242	386	3.6%	693	11,242	386	3.6%	693	-----
	Bella Vista Water/Northeast of Redding	4,204	4,249	4,298	4,433	4,620	4,897	693	16.5%	0	4,897	693	16.5%	0	1,095

PROJECTION OF OCCUPIED RESIDENTIAL UNITS BY SUBAREA, SHASTA COUNTY, 5-YEAR INCREMENTS

	2005 base year (DOF occupied housing units)	2005 to 2010		2010 to 2015		2015 to 2020		2020 to 2025		2025 to 2030	
		2010	2015	2010	2015	2020	2025	2030	2030	2030	2030
Projected Units Countywide											
Redding at Midpoint Densities, Assume 75% Buildout	68,220	6,938	6,498	6,498	6,498	6,498	6,498	6,498	6,498	6,498	6,498
Anderson (OmniMeans/PMC)	34,612	4,497	4,006	3,488	2,983	2,458	1,953	1,428	903	458	458
Shasta Lake	3,847	1,344	1,344	1,234	788	640	492	344	196	49	49
Total Unincorporated County	3,786	500	500	500	500	500	500	500	500	500	500
	25,976	597	652	1,276	2,227	2,900	3,573	4,246	4,919	5,592	5,592
Urban:											
Cottonwood (OmniMeans/PMC)	1,160	208	246	290	343	404	465	526	587	648	648
Other South County (OmniMeans/PMC)	932	88	84	84	84	84	84	84	84	84	84
Palo Cedro and Southeast of Redding, 70% Buildout	1,562	30	32	32	32	32	32	32	32	32	32
Happy Valley (Incl. North Fork)	845	74	79	79	79	79	79	79	79	79	79
Rural:											
North Central Shasta County (Big Bend, Montgomery)	1,240	13	14	14	14	14	14	14	14	14	14
East Shasta County (Burney, Fall River, McArthur, C)	3,365	34	37	37	37	37	37	37	37	37	37
Shingletown and Highway 44 Dersch Road Corridor	1,811	79	84	84	84	84	84	84	84	84	84
Other	10,856	25	27	27	27	27	27	27	27	27	27
Bella Vista Water/Northeast of Redding	4,204	45	48	48	48	48	48	48	48	48	48

Table 3: Shasta County Employment Projection

Total County	2005	2010	2015	2020	2025	2030
Retail	14,719	15,943	17,121	18,403	19,790	21,300
Service	29,669	33,229	36,798	40,706	44,950	49,531
Government	11,147	11,892	12,588	13,331	14,112	14,924
Other	14,094	14,947	15,673	16,442	17,249	18,087
Total Employment	69,629	76,011	82,180	88,862	96,101	103,843
Anderson + Anderson SOI						
Retail	1,183	1,281	1,376	1,479	1,591	1,712
Service	1,403	1,571	1,740	1,925	2,126	2,342
Government	483	515	545	578	611	647
Other	1,713	1,817	1,905	1,998	2,096	2,198
Total Employment	4,782	5,185	5,567	5,980	6,424	6,899
Redding + Redding SOI						
Retail	11,417	12,366	13,280	14,275	15,350	16,522
Service	23,748	26,598	29,454	32,582	35,979	39,647
Government	8,069	8,609	9,112	9,650	10,215	10,803
Other	9,156	9,710	10,182	10,681	11,205	11,750
Total Employment	52,390	57,282	62,028	67,188	72,750	78,722
Shasta Lake						
Retail	493	534	573	616	663	713
Service	678	759	841	930	1,027	1,132
Government	576	615	651	689	729	771
Other	577	612	641	673	706	740
Total Employment	2,324	2,520	2,706	2,909	3,125	3,357
Cottonwood						
Retail	278	301	323	347	373	402
Service	297	333	369	408	451	496
Government	341	364	386	408	432	457
Other	302	321	336	353	370	388
Total Employment	1,219	1,319	1,414	1,516	1,626	1,744
Rural East (Burney, Fall River, McArthur, Cassel)						
Retail	484	524	563	605	650	700
Service	977	1,094	1,212	1,341	1,480	1,631
Government	387	413	437	462	490	518
Other	443	470	493	517	543	569
Total Employment	2,291	2,501	2,704	2,925	3,163	3,418
Shasta County Other						
Retail	864	936	1,005	1,080	1,162	1,250
Service	2,567	2,875	3,184	3,522	3,889	4,286
Government	1,290	1,376	1,457	1,543	1,633	1,727
Other	1,902	2,017	2,115	2,219	2,328	2,441
Total Employment	6,623	7,204	7,761	8,364	9,012	9,704

Based on Woods & Poole, growth rates adjusted in proportion to population projections

Table 4: Shasta County Development Phasing Assumptions

Development	Address	Land Use	Units	2005	2010	2015	2020	2025	2030	After 2030	TOTAL	Percent by 2030
Anderson Potential Target Site		Retail	SF	0	0	0	130,000	0	130,000	66,000	326,000	80%
		Fast Food	SF	0	0	2,500	0	0	2,500	0	5,000	100%
City of Redding	7251 Eastside	Industrial	SF	0	0	0	198,000	0	298,000	496,000	992,000	50%
Clower Creek	5901 Airport	Office	SF	0	0	72,700	0	0	0	0	72,700	100%
		Retail	SF	0	0	0	72,700	0	0	0	72,700	100%
Cobblestone Business Park		Office	SF	0	187,000	0	0	0	0	0	187,000	100%
Lasata		MF Attached	DU	0	0	150	151	0	0	0	301	100%
Manor Crest (Cottonwood Hills)		SF Detached	DU	0	64	64	0	0	0	0	128	100%
McConnell Land	350-440 Old Oregon Trail	SF Detached	DU	0	0	223	1,165	0	0	0	1,388	100%
Mountain Gate Meadows		SF Detached	DU	0	0	0	0	250	500	250	1,000	75%
		MF Attached	DU	0	0	0	250	250	0	0	500	100%
		Service Commercial	SF	0	0	0	100,000	0	0	0	100,000	100%
North Fork		SF Detached	DU	0	47	47	460	314	532	0	1,400	100%
		Retail	SF	0	0	0	0	180,000	290,000	472,000	942,000	50%
		Office	SF	0	0	0	145,000	0	0	0	145,000	100%
Oak Ranch Estates		Equestrian Center	Emps	0	0	0	0	10	0	0	10	100%
Oasis Road Specific Plan		SF Detached	DU	0	66	66	0	0	0	0	132	100%
		SF 1-5 DU/Acre	DU	0	0	6	3	0	0	0	12	100%
		SF 2-3.5 DU/Acre	DU	0	0	16	0	16	0	0	32	100%
		SF 6-10 DU/Acre	DU	0	0	30	30	0	0	0	60	100%
		MF 15 DU/Acre	DU	0	0	593	296	296	0	0	1,185	100%
		MF 18 DU/Acre	DU	0	0	448	280	168	0	0	896	100%
		Regional Commercial	SF	0	188,500	188,500	188,500	377,000	0	1,342,222	2,284,722	41%
		General Commercial	SF	0	0	143,500	143,500	0	143,500	143,500	574,000	75%
		Shopping Center	SF	0	0	0	0	0	113,500	113,500	227,000	50%
		General Office	SF	0	0	0	0	19,800	0	0	19,800	100%
		Limited Office	SF	0	0	13,100	0	0	0	0	13,100	100%
Palo Cedro Silverbridge Oaks		SF Detached	DU	0	0	0	100	200	0	0	300	100%
Palomar Davis Ridge		SF Detached	DU	0	197	197	0	0	0	0	394	100%
		MF Attached	DU	0	56	0	0	0	0	0	56	100%
Park Marina Drive Specific Plan		SF Detached	DU	0	22	0	0	0	0	0	22	100%
		MF Attached	DU	0	0	99	14	10	0	0	123	100%
		Retail	SF	0	0	50,000	39,200	42,500	55,500	0	187,200	100%
		Office	SF	0	0	0	0	42,500	0	0	42,500	100%
		Hotel	SF	0	0	0	55,500	42,500	0	0	98,000	100%
Shasta Gateway Industrial Park		Industrial	SF	0	49,000	49,000	94,000	94,000	94,000	1,590,000	1,970,000	19%
		Office	SF	0	24,500	24,500	24,500	24,500	0	0	98,000	100%
Shastina Ranch		SF Detached	DU	0	328	0	94	0	0	0	422	100%
		School	Emps	0	0	50	0	0	0	0	50	100%
Shingletown Sierra Pacific		SF Detached	DU	0	66	66	0	0	0	0	132	100%
Stillwater Business Park		Industrial	SF	0	0	0	224,000	224,000	199,000	3,554,000	4,201,000	15%
		Office	SF	0	0	205,200	563,900	223,600	593,900	510,900	2,097,500	76%
VA Home Property	Knighton Road	Industrial	SF	0	365,000	138,000	0	0	132,000	0	635,000	100%
		Office	SF	0	191,800	127,900	0	179,100	0	0	498,800	100%
Vineyards		SF Detached	DU	0	682	422	1,166	1,029	666	330	4,295	92%
		MF Attached	DU	0	0	640	0	287	287	0	1,214	100%
		Retail	SF	0	20,000	0	50,000	20,000	50,000	0	140,000	100%
		Office	SF	0	0	50,000	50,000	0	0	0	100,000	100%
		School	Emps	0	0	0	50	50	0	0	100	100%
Woodridge Lake		Retail	SF	0	0	30,000	30,000	0	0	0	60,000	100%

SHASTA COUNTY TRAVEL MODEL

SHASTA COUNTY LAND USE SUMMARY SH05: Shasta County 2005 1/19/07

2004 Land Use Summary

Area	Population	Housing Units	Occupied Units	Employment				TOTAL
				Retail	Service	Government	Other	
Incorporated								
Anderson	9,065	3,738	3,737	886	1,220	410	846	3,363
Redding	81,136	33,886	33,848	10,662	22,065	7,492	7,718	48,138
Shasta Lake	9,016	3,711	3,706	493	678	576	577	2,324
Subtotal Incorporated	99,217	41,335	41,290	12,242	23,963	8,479	9,141	53,825
Unincorporated								
Anderson Sphere	1,841	759	758	297	173	73	867	1,410
Redding Sphere	10,120	3,994	3,987	287	1,640	577	1,438	3,941
Cottonwood	3,479	1,323	1,322	278	297	341	302	1,219
Rural North Central (Big Bend, Montgomery Creek)	293	143	141	12	5	20	0	37
Rural East (Burney, Fall River, McArthur, Cassel)	5,240	2,183	2,166	484	977	387	443	2,291
Rural Shingletown	1,263	628	607	87	88	53	34	262
Rural Vineyards	39	15	15	0	0	0	0	0
Rural Other	41,760	17,371	17,101	765	2,474	1,217	1,868	6,323
Subtotal Unincorporated	64,035	26,416	26,097	2,209	5,653	2,668	4,953	15,483
TOTAL	163,252	67,751	67,388	14,451	29,616	11,147	14,094	69,308

Increment 2004 to 2005

Area	Population	Housing Units	Occupied Units	Employment				TOTAL
				Retail	Service	Government	Other	
Incorporated								
Anderson	262	125	125	0	10	0	0	10
Redding	1,602	583	583	268	43	0	0	311
Shasta Lake	131	69	69	0	0	0	0	0
Subtotal Incorporated	1,996	777	777	268	53	0	0	321
Unincorporated								
Anderson Sphere	0	0	0	0	0	0	0	0
Redding Sphere	27	0	0	0	0	0	0	0
Cottonwood	10	0	0	0	0	0	0	0
Rural North Central (Big Bend, Montgomery Creek)	0	0	0	0	0	0	0	0
Rural East (Burney, Fall River, McArthur, Cassel)	0	0	0	0	0	0	0	0
Rural Shingletown	0	0	0	0	0	0	0	0
Rural Vineyards	0	0	0	0	0	0	0	0
Rural Other	146	60	60	0	0	0	0	0
Subtotal Unincorporated	182	60	60	0	0	0	0	0
TOTAL	2,178	837	837	268	53	0	0	321

2005 Land Use Summary

Area	Population	Housing Units	Occupied Units	Employment				TOTAL
				Retail	Service	Government	Other	
Incorporated								
Anderson	9,327	3,863	3,862	886	1,230	410	846	3,373
Redding	82,738	34,469	34,430	11,130	22,108	7,492	7,718	48,449
Shasta Lake	9,147	3,780	3,775	493	678	576	577	2,324
Subtotal Incorporated	101,213	42,112	42,067	12,510	24,016	8,479	9,141	54,146
Unincorporated								
Anderson Sphere	1,841	759	758	297	173	73	867	1,410
Redding Sphere	10,147	3,994	3,987	287	1,640	577	1,438	3,941
Cottonwood	3,489	1,323	1,322	278	297	341	302	1,219
Rural North Central (Big Bend, Montgomery Creek)	293	143	141	12	5	20	0	37
Rural East (Burney, Fall River, McArthur, Cassel)	5,240	2,183	2,166	484	977	387	443	2,291
Rural Shingletown	1,263	628	607	87	88	53	34	262
Rural Vineyards	39	15	15	0	0	0	0	0
Rural Other	41,906	17,431	17,161	765	2,474	1,217	1,868	6,323
Subtotal Unincorporated	64,217	26,476	26,157	2,209	5,653	2,668	4,953	15,483
TOTAL	165,430	68,588	68,224	14,719	29,669	11,147	14,094	69,629

SHASTA COUNTY TRAVEL MODEL

SHASTA COUNTY LAND USE SUMMARY SH30: Shasta County 2030 1/19/07

2004 Land Use Summary

Area	Population	Housing Units	Occupied Units	Employment				TOTAL
				Retail	Service	Government	Other	
Incorporated								
Anderson	9,055	3,738	3,737	885	1,220	410	846	3,363
Redding	81,136	33,886	33,848	10,862	22,065	7,492	7,718	48,138
Shasta Lake	9,016	3,711	3,706	493	678	576	577	2,324
Subtotal Incorporated	99,217	41,335	41,290	12,242	23,963	8,479	9,141	53,825
Unincorporated								
Anderson Sphere	1,841	759	758	297	173	73	867	1,410
Redding Sphere	10,120	3,994	3,987	287	1,640	577	1,438	3,941
Cottonwood	3,479	1,323	1,322	278	297	341	302	1,219
Rural North Central (Big Bend, Montgomery Creek)	293	143	141	12	5	20	0	37
Rural East (Burney, Fall River, McArthur, Cassel)	5,240	2,183	2,166	484	977	387	443	2,291
Rural Shingletown	1,263	628	607	87	88	53	34	262
Rural Vineyards	39	15	15	0	0	0	0	0
Rural Other	41,760	17,371	17,101	765	2,474	1,217	1,868	6,323
Subtotal Unincorporated	64,035	26,416	26,097	2,209	5,653	2,668	4,953	15,483
TOTAL	163,252	67,751	67,388	14,451	29,616	11,147	14,094	69,308

Increment 2004 to 2030

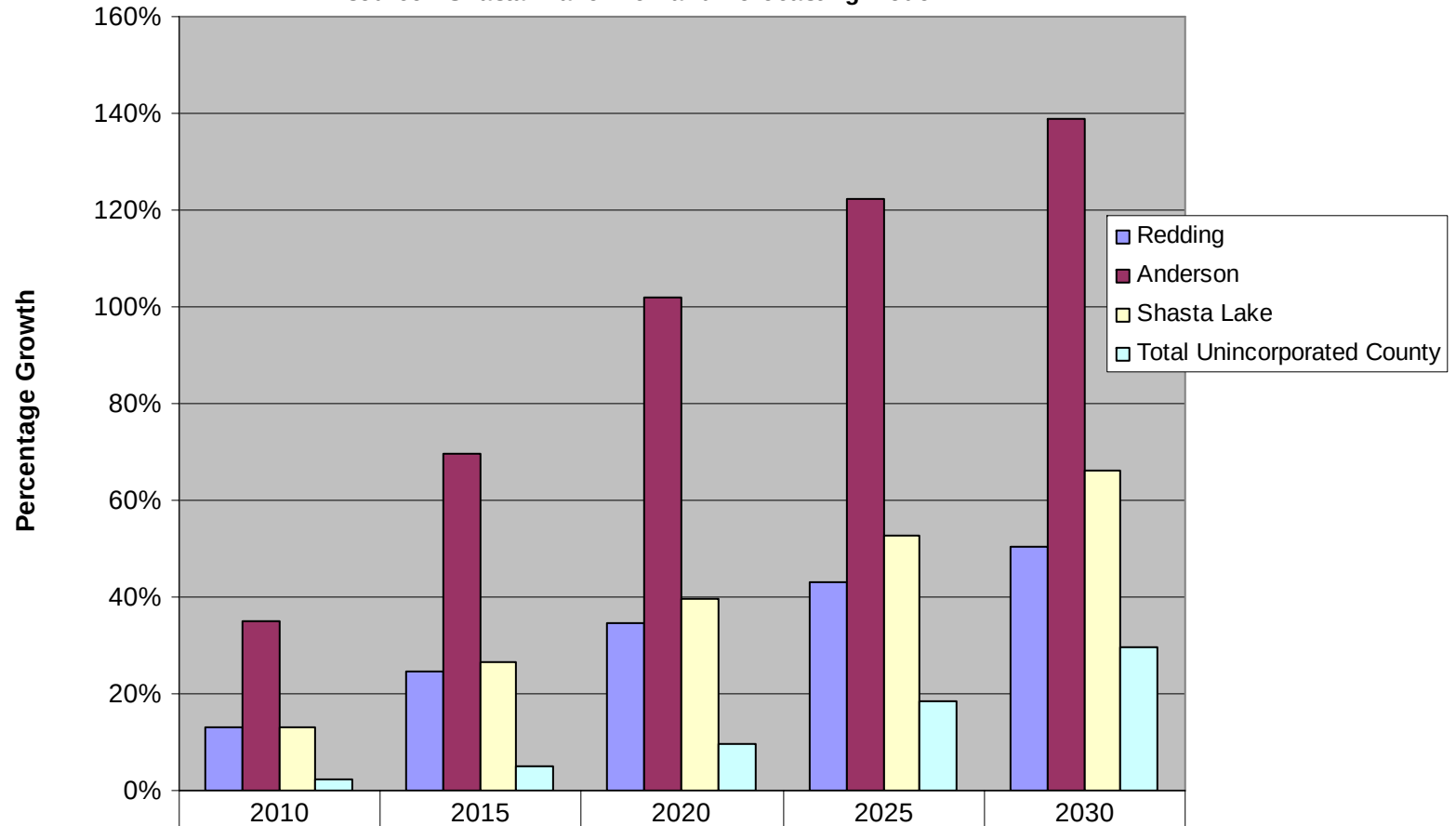
Area	Population	Housing Units	Occupied Units	Employment				TOTAL
				Retail	Service	Government	Other	
Incorporated								
Anderson	4,111	2,006	2,006	1,573	495	169	233	2,470
Redding	44,537	18,225	18,225	4,318	11,420	2,388	1,958	20,084
Shasta Lake	6,486	2,563	2,563	92	401	186	437	1,116
Subtotal Incorporated	55,134	22,794	22,794	5,982	12,316	2,743	2,629	23,670
Unincorporated								
Anderson Sphere	1,728	739	739	131	470	0	24	625
Redding Sphere	2,840	1,144	1,144	0	5,157	298	910	6,366
Cottonwood	3,702	1,400	1,400	20	206	152	10	388
Rural North Central (Big Bend, Montgomery Creek)	377	193	193	0	0	0	0	0
Rural East (Burney, Fall River, McArthur, Cassel)	1,097	482	482	140	849	136	115	1,240
Rural Shingletown	1,962	972	972	146	170	0	45	360
Rural Vineyards	9,567	3,739	3,739	0	0	0	0	0
Rural Other	6,244	2,295	2,295	210	407	403	238	1,257
Subtotal Unincorporated	27,518	10,964	10,964	647	7,259	988	1,342	10,236
TOTAL	82,652	33,757	33,757	6,629	19,575	3,732	3,971	33,906

2030 Land Use Summary

Area	Population	Housing Units	Occupied Units	Employment				TOTAL
				Retail	Service	Government	Other	
Incorporated								
Anderson	13,176	5,744	5,743	2,459	1,715	579	1,080	5,833
Redding	125,673	52,111	52,072	15,180	33,485	9,881	9,677	68,222
Shasta Lake	15,502	6,274	6,269	585	1,079	762	1,014	3,440
Subtotal Incorporated	154,351	64,129	64,084	18,224	36,279	11,222	11,770	77,495
Unincorporated								
Anderson Sphere	3,569	1,498	1,496	427	644	73	891	2,035
Redding Sphere	12,960	5,138	5,132	287	6,797	875	2,348	10,307
Cottonwood	7,181	2,723	2,722	298	504	493	312	1,607
Rural North Central (Big Bend, Montgomery Creek)	670	336	334	12	5	20	0	37
Rural East (Burney, Fall River, McArthur, Cassel)	6,337	2,665	2,648	624	1,826	523	558	3,531
Rural Shingletown	3,225	1,600	1,579	233	257	53	78	622
Rural Vineyards	9,606	3,754	3,754	216	345	43	17	620
Rural Other	48,004	19,666	19,396	974	2,881	1,620	2,106	7,580
Subtotal Unincorporated	91,553	37,380	37,061	3,071	13,257	3,700	6,311	26,339
TOTAL	245,904	101,508	101,145	21,296	49,536	14,922	18,081	103,834

Cumulative Percentage Growth of Shasta County Households from 2005

source: Shasta Travel Demand Forecasting Model

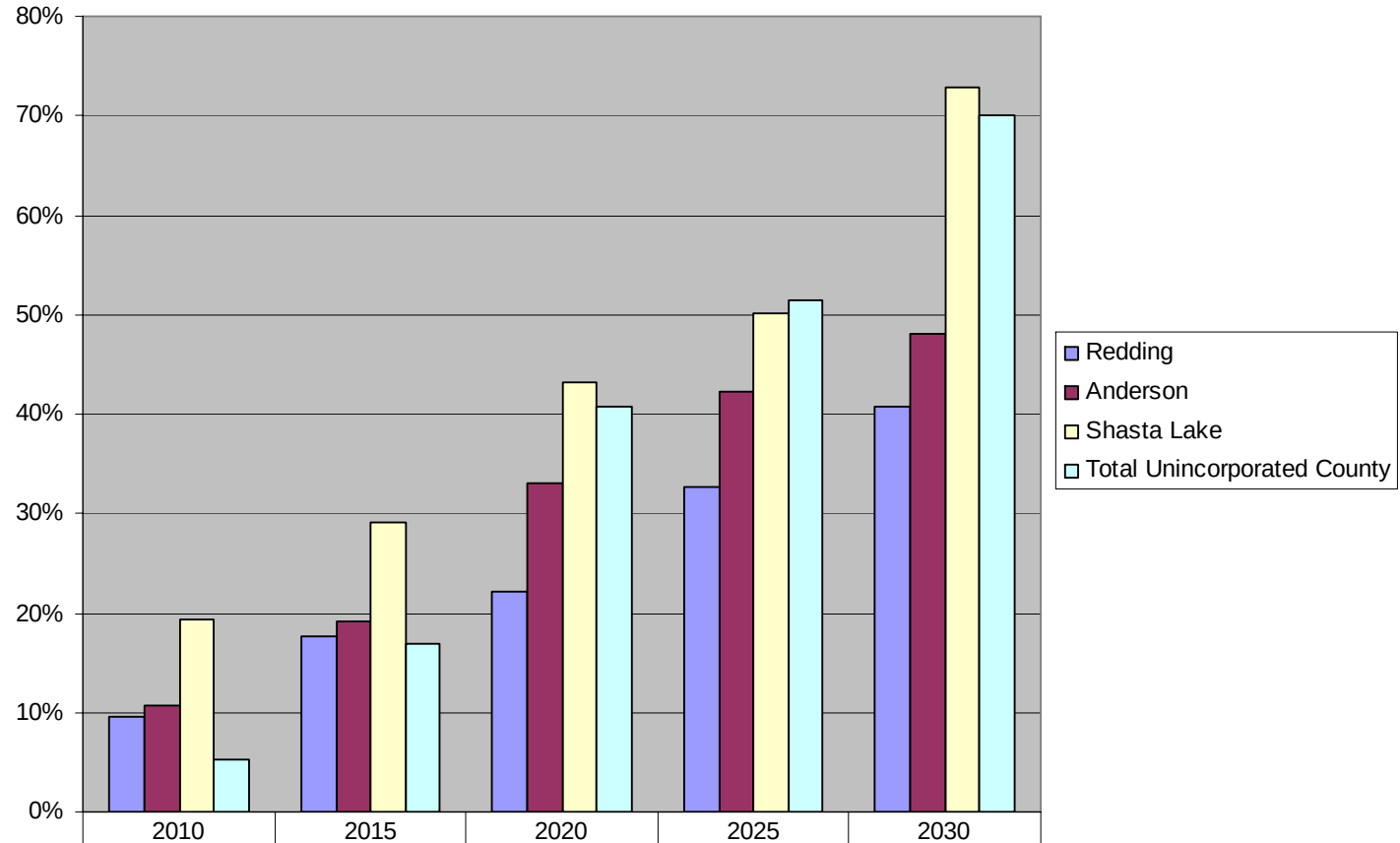


Redding	13%	25%	35%	43%	50%
Anderson	35%	70%	102%	122%	139%
Shasta Lake	13%	26%	40%	53%	66%
Total Unincorporated County	2%	5%	10%	18%	29%

Study Year

Cumulative Percentage Growth of Shasta County Employment from 2005

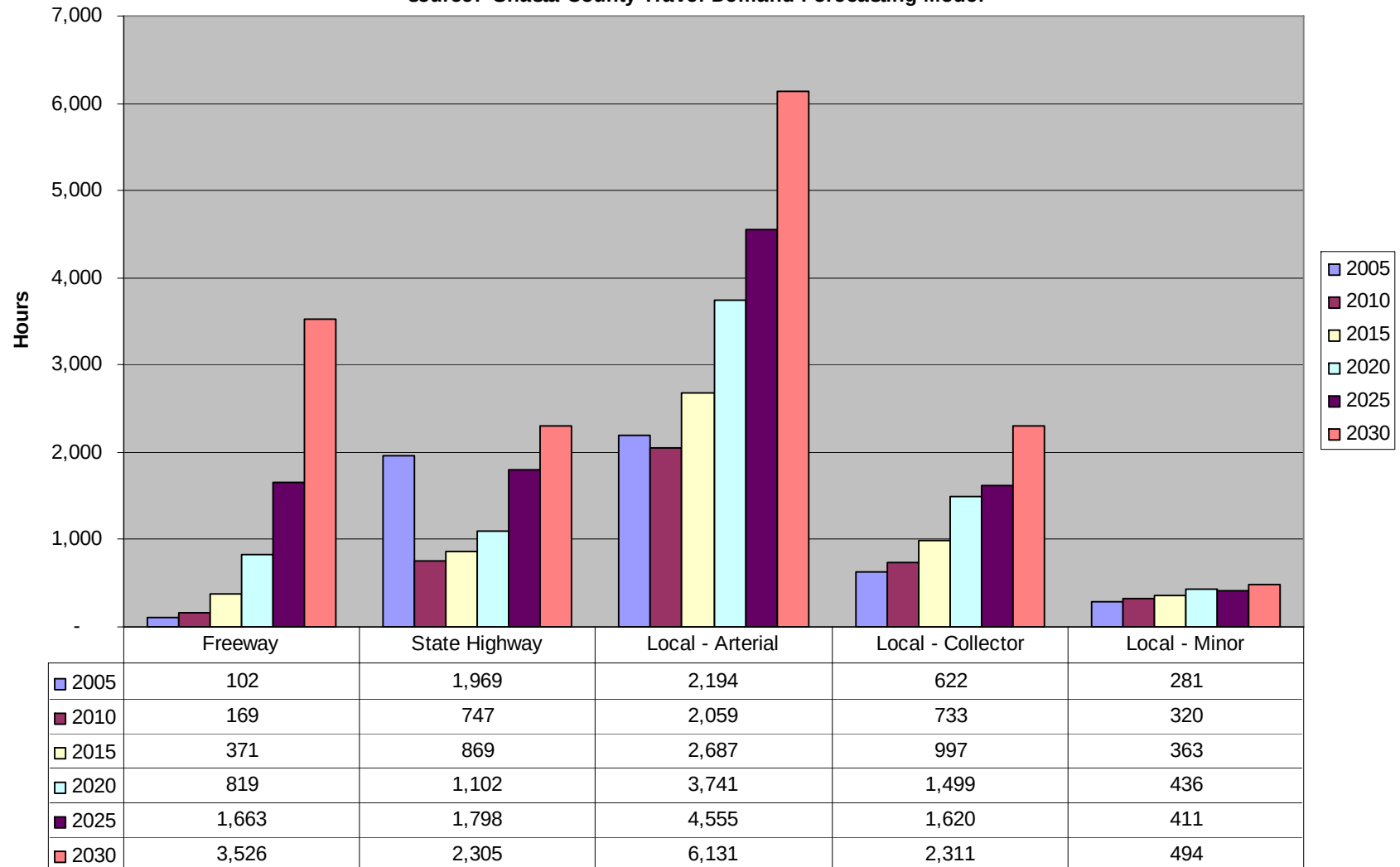
source: Shasta County Travel Demand Forecasting Model



Redding	10%	18%	22%	33%	41%
Anderson	11%	19%	33%	42%	48%
Shasta Lake	19%	29%	43%	50%	73%
Total Unincorporated County	5%	17%	41%	51%	70%

Shasta County Vehicle Hours of Delay by Facility

source: Shasta County Travel Demand Forecasting Model



Shasta County 2005 Vehicle Miles of Travel by Facility Type
source: Shasta County Travel Demand Forecasting Model

