



AGENDA
KERN REGIONAL
TRANSPORTATION MODELING COMMITTEE (TMC)

A sub-committee of Transportation Technical Advisory Committee (TTAC)
(merged with the Kern Climate Change Task Force in May 2010)

KERN COG BOARD ROOM
1401 19TH STREET, THIRD FLOOR
BAKERSFIELD, CALIFORNIA

WEDNESDAY
February 22, 2012
9:00 A.M.

WEB SITE: <http://www.kerncog.org/cms/agendas-minutes/transportation-modeling>

PARKING: All-day free parking in the unmarked spaces of the garage located at 19th and L Streets. This is an open meeting; local government planning, public works staffs are encouraged to attend.

DISCLAIMER: This agenda includes the proposed actions and activities, with respect to each agenda item, as of the date of posting. As such, it does not preclude the Committee from taking other actions on items on the agenda which are different or in addition to those recommended.

- I. Introductions/Sign-in Sheet
- II. Meeting Notes from December 14, 2011 – See *Attachment* – **Approve**
- III. Regional Planning Advisory Committee – Meeting notes from the January 4, 2012 and February 1, 2012 RPAC See *Attachment*. – Information
- IV. 8-County Demographic Forecast Consulting Contract (Raymond) – Information
- V. Draft Land Use Model Update - see <http://kerncog.org/cms/climatechange> (Hightower) Information - staff report to be handed out during meeting. Bring back for consideration at the March 28th TMC Meeting.
- VI. SB 375 Model Scenarios Discussion (Hightower) Action – select scenarios for staff to model and bring back results at March 28th meeting.
- VII. Model Improvement Program Update – Status/Timeline/Process – (Hightower) Information
- VIII. Kern COG Modeling Activity Report (Liu) – Information
- IX. Regional Traffic Count Program (Heimer/Flickinger) – Information
- X. Other Business/Schedule Next Meeting – **Wed., March 28, 2012 9:00AM** at Kern COG
- XI. Adjourn



**Kern Regional Transportation Modeling Committee (TMC)
A Subcommittee of the Kern COG TTAC**

Meeting Notes
December 14, 2011

I. Members Present:

Steven Young	County of Kern Roads
Warren Maxwell	County of Kern Roads
Barry Nienke	County of Kern Roads
Dennis McNamara	City of McFarland
Mike McCabe	City of Delano
Wayne Clausen	City of Shafter
Dave Dmohowski	Premier Planning Group
Paul Gorte	City of Taft
David Berggren	Caltrans
Walter Allen	TRIP/Parsons

Staff Present:

Rob Ball	Kern Council of Governments
Troy Hightower	Kern Council of Governments
Ed Flickinger	Kern Council of Governments
Rochelle Invina	Kern Council of Governments
Becky Napier	Kern Council of Governments
Vincent Liu	Kern Council of Governments
Ben Raymond	Kern Council of Governments
Michael Heimer	Kern Council of Governments

- II. Meeting Notes from October 26, 2011 – Approved.**
- III. Regional Planning Advisory Committee – Information.** Minutes from November 2, 2011 and November 30, 2011 meeting were available for committee review.
- IV. Regional Traffic Count Study – Information.** Four cities have responded for the supplemental traffic count locations. McFarland requested the deadline to submit new locations be extended to 4pm December 16.
- V. Census Household Data and TAZ Data Comparison –** The maps of 2020 and 2035 Households by TAZ were discussed. Current forecasts for some TAZs show less households than 2010 Census data. The maps depict the changes that would be needed to resolve this issue. The committee agreed that the adjustments depicted in the 2020 and 2035 maps should be made. Action - Approve the forecast household data redistribution to incorporate the 2010 Census.
- VI. Draft SB 375 Land Use Model Methodology documentation – Information.**
- VII. Draft Land Use Model Sample Project Level Model Run –** The plan is to show the worst case scenario versus zero sum gain in order to quantify goal toward SB 375 land use. Since it is more balanced, it redistributes base on latest planning assumptions and mitigates. This is not good for small projects. The Land Use model can help with local general plans. Different strategies for growth can be analyzed. Action – Take to the RPAC.

- VIII. 3rd Draft SCS Centers Conceptual View** – Committee members discussed and recommended the following changes: update map to show areas that were covered by the legend; exclude the Community Areas layer; change the planned town center to planned community center and add a planned <2,000 employment strategic employment center for the City of Wasco; include an overlay of the transportation network (illustrating LOS); make the Resource and Other Layers consistent with the Public/Resources layer from the *Draft Kern County Region - Combined Land Use Input Layer* map; and create a comparison map that illustrates the *Draft Kern County Region - Combined Land Use Input Layer* and Draft SCS Conceptual View Centers maps. Action – Take to the RPAC.
- IX. Draft Land Use Model Update (I06)** – Presented updated version of Draft Land Use model designated I06 which included growth in the designated “Wind Resource Area”. Reviewed table on page 3 of the staff report which compared the VMT and CO2 emissions per capita for the draft base land use model F03 and the updated I06 model run. Reviewed the tables in Attachment 2 that indicated the difference between the 2035 “Spreadsheet Land Use” for county-wide households and employment. The I06 Land Use Model results were only different by 164 out of 417,100 households and 193 employees out of 460,882. These are the county-wide control totals for all modeling. The committee requested that staff display on the Land Use Map the results (Level of Service) from the transportation model run for I06 which was displayed on separate maps at the meeting. Action – Add transportation model results (LOS) to the Draft Land Use Map and present to RPAC.
- X. Model Improvement Program Update – Status/Timeline/Process - Information.** – The model structure has 10 household and 21 employment types. This will provide better trip rates. Quick response tool will help with analysis.
- XI. SB 375 Strategy List – Information.** – What we can do that nobody else is doing in the state. Unemployment should be off model.
- XII. Kern COG Modeling Activity Report - Information.** – HOV/BRT to tell ARB we studied feasibility.
- XIII. Other Business/Schedule Next Meeting:**
Promote BRT in 2020 as key SCS.

Next meeting: Wed., February 22, 2011 9:00 AM at Kern COG
- XIV. Adjournment**

KERN COUNCIL OF GOVERNMENTS
REGIONAL PLANNING ADVISORY COMMITTEE

KERN COG CONFERENCE ROOM
1401 19TH STREET, THIRD FLOOR
BAKERSFIELD, CALIFORNIA

WEDNESDAY
JAN. 4, 2012
1:30 P.M.

Vice-Chair Bevins called the meeting to order at approximately 1:35 P.M.

I. ROLL CALL

MEMBERS PRESENT:	Paul Hellman	City of Bakersfield
	Michael Bevins	City of California City
	Michael McCabe	City of Delano
	Dennis McNamara	City of McFarland
	Wayne Clausen	City of Shafter (phone)
	Paul Gorte	City of Taft
	David James	City of Tehachapi
	Craig Murphy	County of Kern
	Bob Wren	City of Wasco
	Jeff Sorensen	Caltrans (phone)
	Karen King	GET
STAFF:	Becky Napier	Kern COG
	Rob Ball	Kern COG
	Rochelle Invina	Kern COG
	Linda Urata	Kern COG
	Troy Hightower	Kern COG
	Bob Snoddy	Kern COG
	Ben Raymond	Kern COG
OTHER:	Charles Felix	CA Rural Legal Assistance
	Ruby Renteria	CA Rural Legal Assistance
	Bryce Dias	Great Valley Center (phone)
	Dave Dmohowski	Premier Planning Group
	Patty Poire	Western Properties
	Vince Zaragoza	Geo Planning and Economics
	Jeff Caton	ESA
	Amy Jewel	KEMA
	Nora DeCuir	PMC
	Andrea Nelson	PMC

- II. PUBLIC COMMENTS:** This portion of the meeting is reserved for persons to address the Committee on any matter not on this agenda but under the jurisdiction of the Committee. Committee members may respond briefly to statements made or questions posed. They may ask a question for clarification; make a referral to staff for information or request staff to report to the Committee at a later meeting. **SPEAKERS ARE LIMITED TO TWO MINUTES. PLEASE STATE YOUR NAME AND ADDRESS FOR THE RECORD PRIOR TO MAKING A PRESENTATION.**

None

III. PMC REGIONAL TRANSPORTATION PLAN/SUSTAINABLE COMMUNITIES STRATEGY (RTP/SCS) OUTREACH PRESENTATION:

Nora DeCuir of PMC gave an overview of the public participation strategy, the facilitated group activity that is planned, and next steps needed to prepare for the RTP/SCS outreach process. Ms. DeCuir presented a PowerPoint and Andrea Nelson of PMC recorded comments from RPAC members on flip charts pages. Ms. DeCuir explained that the outreach will consist of two phases. The first phase will focus on Region Energy Action Plans (REAP) and preliminary SCS issues. The second phase will focus on the SCS process and feedback on particular programs and strategies, including REAP.

Ms. DeCuir further explained there would be several ways to participate in the RTP/SCS outreach process including: stakeholder roundtable meetings, community workshops, a web-based prioritization activity, a statistically valid community survey, and email and telephone comments to Kern COG staff. PMC staff and Kern COG staff answered questions and noted suggestions made by the RPAC members.

IV. ESA PRESENTATION – ENERGY ACTION PLAN TEMPLATE AND PROGRESS OF THE GREENHOUSE GAS INVENTORIES:

Jeff Caton of ESA presented a PowerPoint on the status of the Greenhouse Gas (GHG) inventories in the communities that are participating in the Region Energy Action Plans (REAP) grant. Mr. Caton also discussed the schedule for completion of the project.

Amy Jewel of KEMA discussed the Energy Action Plan (EAP) template. The purpose of the template is to provide a standardized approach for developing the EAP for each municipality. The template will include results of the GHG inventories, as well as results from energy benchmarking completed using the Energy Star Portfolio Manager Tool, and details of common methodologies used.

V. APPROVAL OF DISCUSSION SUMMARY: Meeting of Wednesday, November 30, 2011.

Mr. McNamara made a motion to approve the minutes of November 30, 2011, seconded by Mr. Murphy, motion carried.

VI. 4th DRAFT SCS CONCEPTUAL VIEW CENTERS MAPS:

Ms. Invina presented an updated conceptual view map series designed to illustrate some of the strategies that may be included in the SCS. The 4th Draft SCS Conceptual View Centers Maps have been developed based on the adopted 2008 Kern Regional Blueprint Conceptual View Maps. Strategies must be financially constrained to be included in the final SCS. The maps are distinguished by phases; resources and other layers, existing, planned, and potential, and a map that combines all the phase layers.

RPAC members were encouraged to review the SCS Conceptual View Centers Maps and provide comment by February 1, 2012.

VII. DRAFT LAND USE MODEL SAMPLE PROJECT LEVEL REDISTRIBUTION METHODOLOGY

Mr. Raymond explained that during development of the land use model in 2009/2010, the Kern COG Climate Change Task Force (now the Kern Regional Transportation Modeling Committee) requested a method to calculate offsite passenger vehicle travel and GHG emissions. Kern COG staff prepared a sample project level model to help evaluate one possible method for calculating GHG emissions from passenger vehicles for specific areas and/or projects. Some strengths and limitations of the project level redistribution method were discussed. Staff recommended that RPAC members consider whether this type of modeling would be of benefit or whether it might create unexpected issues. This was an informational item.

VIII. DRAFT LAND USE MODEL UPDATE (I06)

Mr. Hightower provided an update of the land use model for the SCS and informed the Committee that the model was available for review at <http://kerncog.org/cms/climatechange>. Mr. Hightower explained that Kern COG plans to continue development of the land use model to assist in the preparation of the SCS for the 2013/2014 RTP with the assistance and oversight of the Kern Regional Transportation Modeling Committee, Technical Transportation Advisory Committee and the RPAC. This was an informational item.

IX. DRAFT SB 375 STRATEGY LIST

Mr. Hightower explained that SB 375 requires regions to analyze strategies to reduce per capita GHG emissions from passenger vehicle travel. The information provided in the staff report is a list of core policy variables that the California Air Resources Board associated with key land use and transportation-related components that are correlated with GHG reductions. Also included are strategies used by MTC, SCAG, SANDAG, and SACOG in the preparation of the RTP/SCS. This was an informational item.

X. METROPOLITAN BAKERSFIELD TRANSIT SYSTEM LONG-RANGE PLAN DRAFT FINAL REPORT

Mr. Snoddy presented the Metropolitan Bakersfield Transit System Long-Range Plan Draft Final Report. Mr. Snoddy advised the Committee that comments on the Report are invited until Tuesday, January 17, 2012. Comments may be sent to Gina Hayden, Project Manager, Golden Empire Transit (GET), at ghayden@getbus.org or by calling (661) 869-6304.

Ms. King of GET answered questions from the Committee.

XI. DISCUSSION SUMMARIES/MEETING UPDATES:

Meeting notes of the October 26, 2011, Kern Regional Transportation Modeling Committee.

XII. MEMBER ITEMS

Ms. Napier announced the following:

1. Included in the agenda packet is the Caltrans Transportation Planning Grants Announcement for the 2012/2013 Grant Cycle.
2. The Kern COG Board Appointments of the Community At-Large Voting Members of the RPAC will be considered at the January 19, Board Meeting. The candidates include Richard Rowe from the Kern River Valley area and Patty Poire of Western Properties.
3. The eight COG coalition is establishing an oversight committee for the Planner's Toolkit. One planner from each county is requested to participate in a quarterly conference call. Mr. Bevins suggested Mr. Clausen be the representative from Kern County, the Committee concurred.
4. The Valley Planners Workgroup is scheduled for February 29, 2012, and will be available by webcast.

XIII. MEMBER ITEMS

None

XIV. ADJOURNMENT

The next meeting will be February 1, 2012 at 1:30 P.M. With no further business, the meeting was adjourned at 4:37 p.m.

KERN COUNCIL OF GOVERNMENTS
REGIONAL PLANNING ADVISORY COMMITTEE

KERN COG CONFERENCE ROOM
1401 19TH STREET, THIRD FLOOR
BAKERSFIELD, CALIFORNIA

WEDNESDAY
FEB. 1, 2012
1:30 P.M.

Chairman Clausen called the meeting to order at 1:36 P.M.

I. ROLL CALL

MEMBERS PRESENT:	Paul Hellman	City of Bakersfield
	Michael McCabe	City of Delano (phone)
	Dennis McNamara	City of McFarland
	Wayne Clausen	City of Shafter (phone)
	Paul Gorte	City of Taft
	David James	City of Tehachapi
	Rhonda Barnhard	City of Wasco
	Karen King	GET
	Richard Rowe	Community Member
	Patty Poire	Community Member
	Rebecca Moore	LAFCO
STAFF:	Becky Napier	Kern COG
	Rob Ball	Kern COG
	Linda Urata	Kern COG
	Troy Hightower	Kern COG
	Ben Raymond	Kern COG
OTHER:	Dave Dmohowski	Premier Planning Group
	Jeff Caton	ESA (phone)
	Nora DeCuir	PMC
	Ken Bley	(phone)

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None

- III. APPROVAL OF DISCUSSION SUMMARIES:** Meeting of Wednesday, January 4, 2012.

Mr. Hellman made a motion to approve the discussion summary of January 4, 2012, seconded by Mr. McNamara, motion carried.

IV. PMC REGIONAL TRANSPORTATION PLAN/SUSTAINABLE COMMUNITIES STRATEGY (RTP/SCS) OUTREACH PRESENTATION:

Nora DeCuir of PMC reviewed the results of the meeting of January 4, displayed the draft website, and discussed next steps for the outreach process. Committee members provided suggestions on the draft website. There was discussion about the website survey and that the survey would be more useful if zip codes were provided so member agencies would know who was responding via the web.

V. SAN JOAQUIN VALLEY GREENPRINT:

Mr. Heimer reviewed the status of the San Joaquin Valley Greenprint, presented the Statement of Intent, Project Tasks and Deliverables, and the Roll-Out Strategy. Mr. James asked if Kern COG could opt out of the Greenprint or if it was mandated. Ms. Napier explained that Kern could opt out of the Greenprint if that was the desire of the Committee. Mr. Ball explained that staff would watch the Greenprint very closely and report back to the Committee periodically.

This was an information item.

VI. SAN JOAQUIN VALLEY INTERREGIONAL GOODS MOVEMENT PLAN UPDATE:

Mr. Raymond reviewed the development of the San Joaquin Valley Interregional Goods Movement Plan. Mr. Raymond stated that the consultant team is currently working on completing portions of Phase I and starting Phase II work. Online surveys have been created to focus on each of the three stakeholder groups: Carriers, Public Agencies, and Customers.

This was an information item.

VII. FEDERAL DESIGNATION OF THE TEJON INDIAN TRIBE OF KERN COUNTY:

Ms. Napier provided information on Federal designation of the Tejon Indian Tribe of Kern County. Ms. Napier explained there are statutory and regulatory requirements for a Metropolitan Planning Organization (MPO) such as Kern COG when its planning area contains Indian Tribal lands. The regulations require the MPO to involve the Indian Tribal government in the development of transportation plans and programs and (1) secure meaningful Tribal input and involvement in the decision-making process; and (2) advise the Tribe of the final decision and provide explanations. Ms. Napier explained that Kern COG would be contacting the Tribe as part of the Regional Transportation Plan development.

This was an information item.

VIII. DRAFT LAND USE MODEL SAMPLE PROJECT LEVEL REDISTRIBUTION METHODOLOGY:

Mr. Hightower explained that during development of the land use model in 2009/2010, the Kern COG Climate Change Task Force (now the Kern Regional Transportation Modeling Committee) requested a method to calculate offsite passenger vehicle travel and GHG emissions. Kern COG staff prepared a sample project level model to help evaluate one possible method for calculating GHG emissions from passenger vehicles for specific areas and/or projects. Some strengths and limitations of the project level redistribution method were discussed. Committee members asked questions and Attorney, Ken Bley, participating by telephone explained some of the legal ramifications of this type of modeling.

This was an information item.

IX. DISCUSSION SUMMARIES/MEETING UPDATES:

Meeting notes of the January 4, 2012, Transportation Technical Advisory Committee.

X. INFORMATION/ANNOUNCEMENTS

Mr. Ball requested a volunteer to review and rank Request for Proposal Responses for a consultant to develop an environmental review policy for Kern COG and review and comment preparation for the Fresno-to-Bakersfield, High Speed Rail revised Draft EIR/EIS. Mr. Hellman volunteered.

XI. MEMBER ITEMS

Mr. Gorte handed out an article entitled: "California Cap and Trade Update: Low-Carbon Fuel Standard Enjoined. What Next?" A brief discussion ensued.

XII. ADJOURNMENT

The next meeting will be March 7, 2012 at 1:30 P.M. Mr. McNamara made a motion to adjourn the meeting at 2:59 p.m., seconded by Mr. Rowe, motion carried.



February 22, 2012

TO: Kern Regional Transportation Modeling Committee

FROM: ROBERT R. BALL
INTERIM EXECUTIVE DIRECTOR

BY: Ben Raymond, Regional Planner I

SUBJECT: TMC AGENDA ITEM: IV
8-County Demographic Forecast Consulting Contract

DESCRIPTION:

The 8 – San Joaquin Valley COGs have received a grant to create a Model Improvement Program for the 8 travel models in the valley.

DISCUSSION

As part of this grant, a consultant has been retained to provide a revised forecast for the 8 counties. Below is a list of recent milestones regarding the San Joaquin Valley Demographic Forecast:

- The draft report from the consultant is expected to be released during the 4th week of February.
- The final report will be presented to the 8 San Joaquin Valley Transportation Planning Agency Directors' meeting on March 1st for their acceptance with the statement that it is not mandatory that an MPO use the forecasts.

- After acceptance by the COG directors, the report will be sent to the DOF, ARB and HCD for their information only with a statement that the Valley MPOs retained a consultant to prepare the forecasts which each MPO may or may not use.
- The following table is a summary showing the Kern Demographic Forecast which are lower than what we currently use.

Kern COG Demographic Forecast Data					
	Households	Household Population	Group Quarters	Total Population	Employment
2010	256,300	808,600	37,000	845,600	308,200
2020	319,200	966,500	44,300	1,010,800	365,700
2035	417,200	1,264,100	56,900	1,321,000	460,385

SJV Forecasts					
	Households	Household Population	Group Quarters	Total Population	Employment
2010	255,000	802,500	37,500	840,000	269,200
2020	289,000	959,600	44,400	1,004,000	316,068
2035	342,000	1,204,700	55,300	1,260,000	388,278

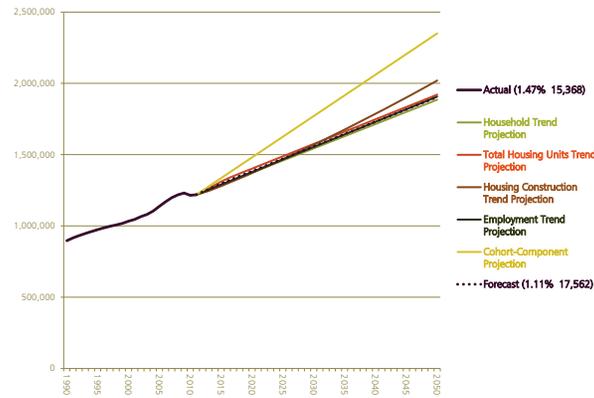
- Attached is a PDF of a presentation provided by the consultant on the San Joaquin Valley demographic forecast.

ACTION: Discussion/Information

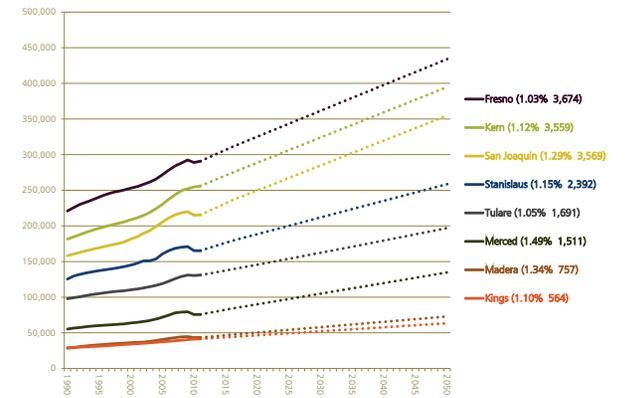
SAN JOAQUIN VALLEY DEMOGRAPHIC FORECASTS

February 8, 2012

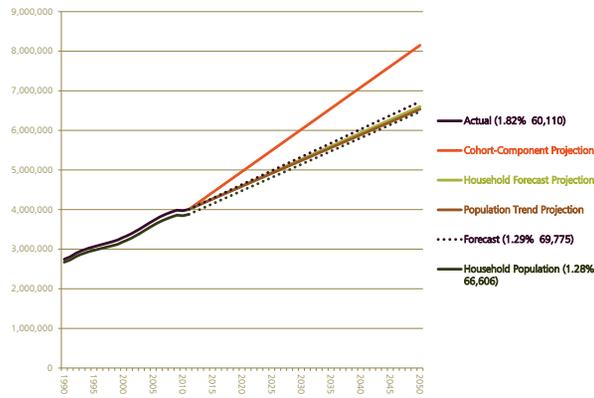
VALLEYWIDE HOUSEHOLD FORECAST



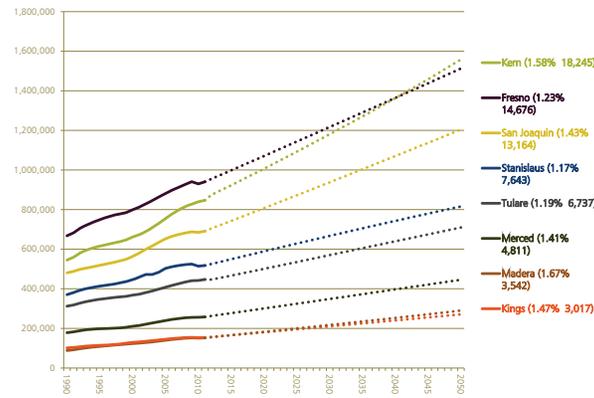
HOUSEHOLD GROWTH BY COUNTY



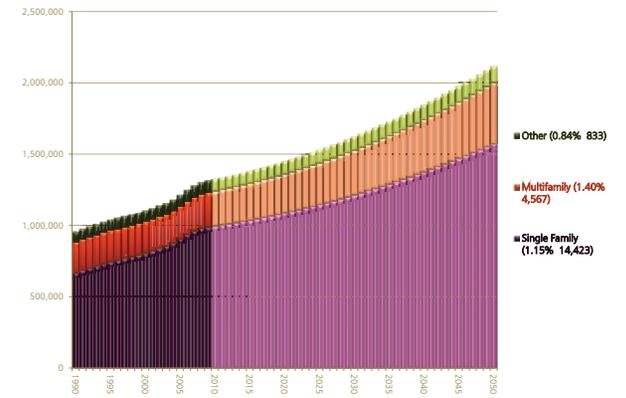
VALLEYWIDE POPULATION FORECAST



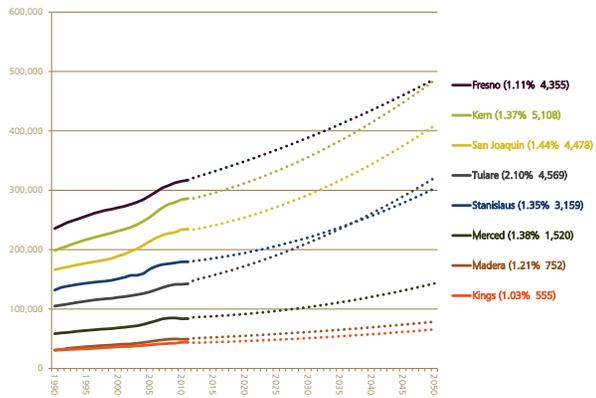
POPULATION GROWTH BY COUNTY



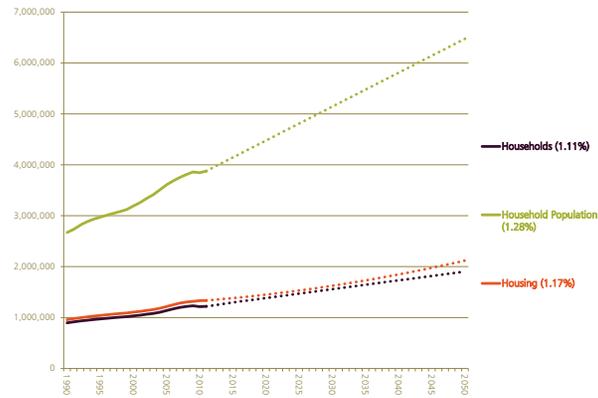
VALLEYWIDE HOUSING GROWTH



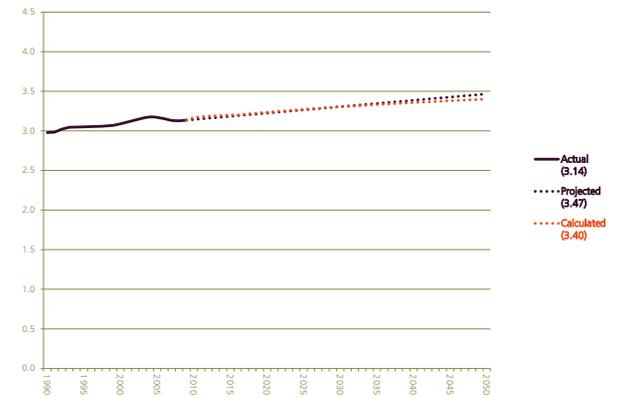
HOUSING GROWTH BY COUNTY



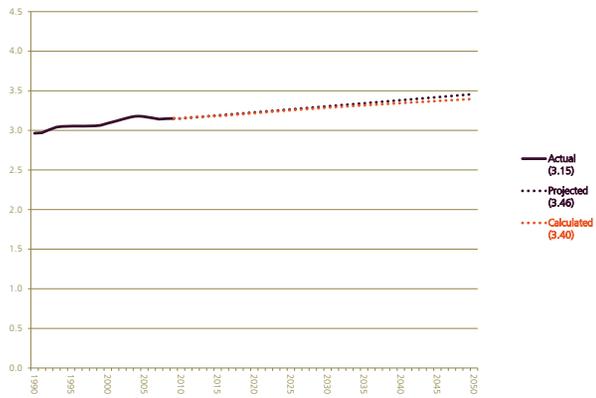
VALLEYWIDE PRIMARY FORECASTS



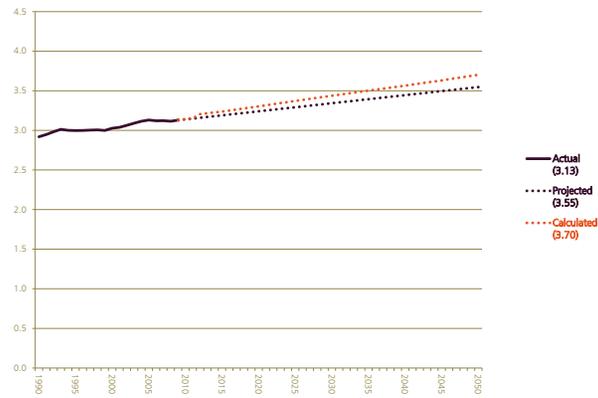
VALLEYWIDE AVERAGE HOUSEHOLD SIZE



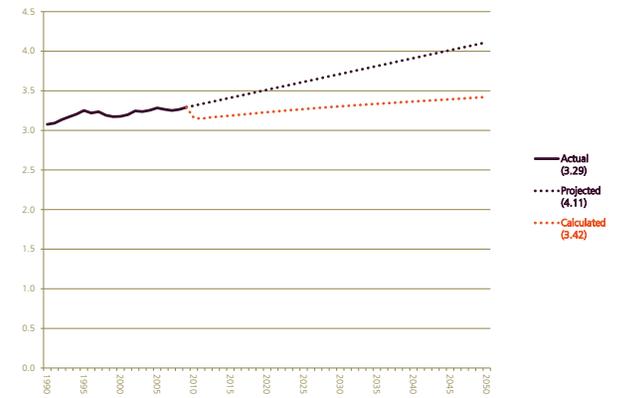
FRESNO AVERAGE HOUSEHOLD SIZE



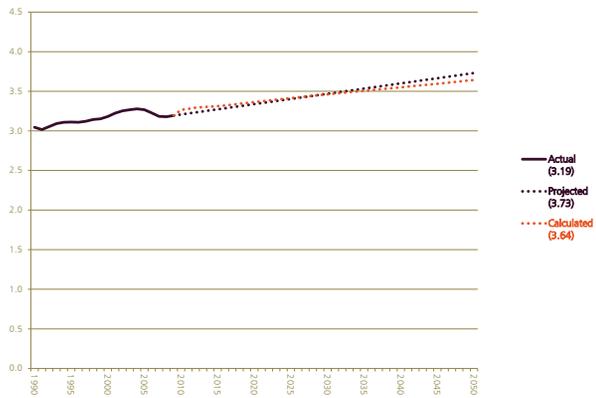
KERN AVERAGE HOUSEHOLD SIZE



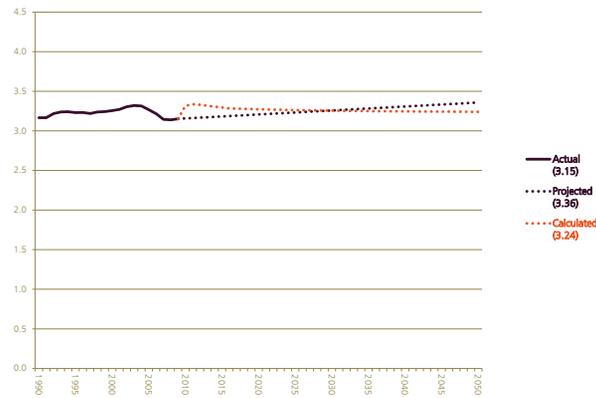
KINGS AVERAGE HOUSEHOLD SIZE



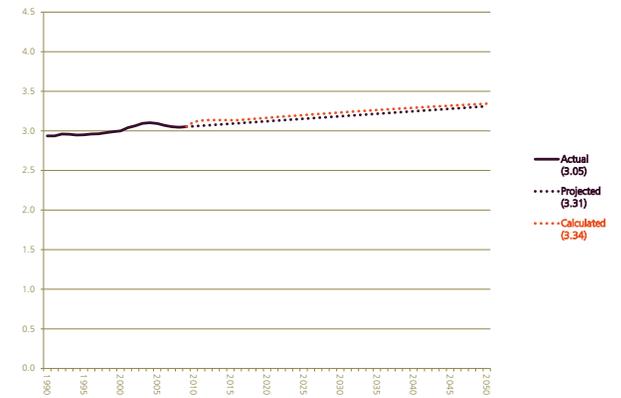
MADERA AVERAGE HOUSEHOLD SIZE



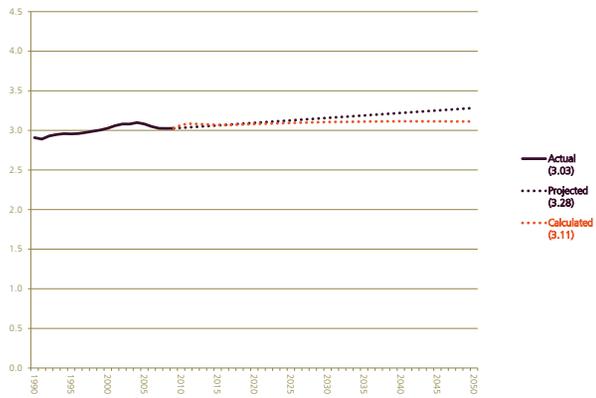
MERCED AVERAGE HOUSEHOLD SIZE



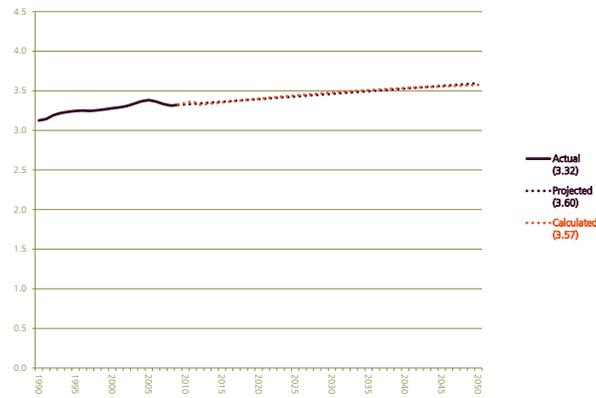
SAN JOAQUIN AVERAGE HOUSEHOLD SIZE



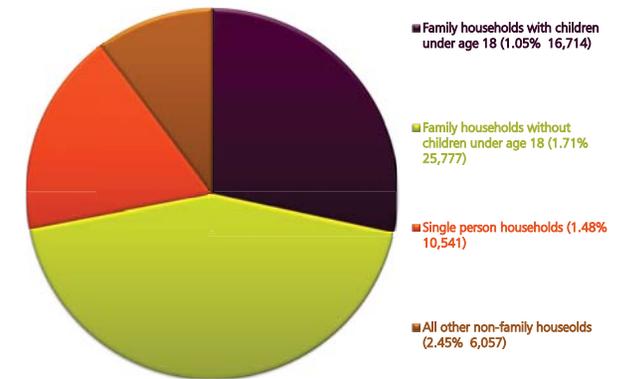
STANISLAUS AVERAGE HOUSEHOLD SIZE



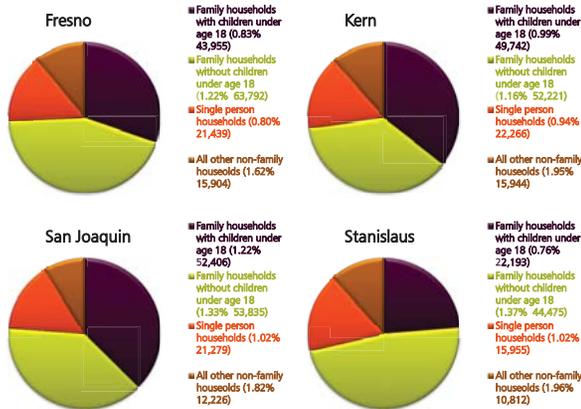
TULARE AVERAGE HOUSEHOLD SIZE



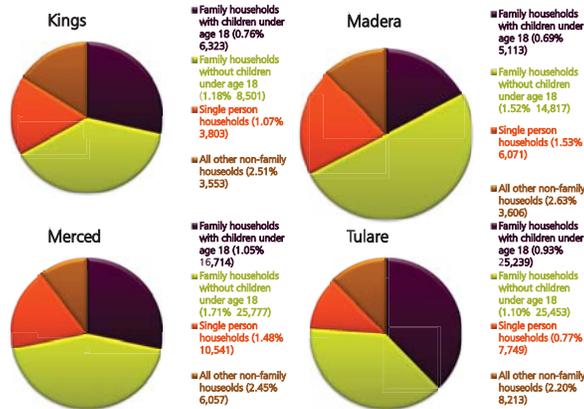
VALLEYWIDE HOUSEHOLD TYPE



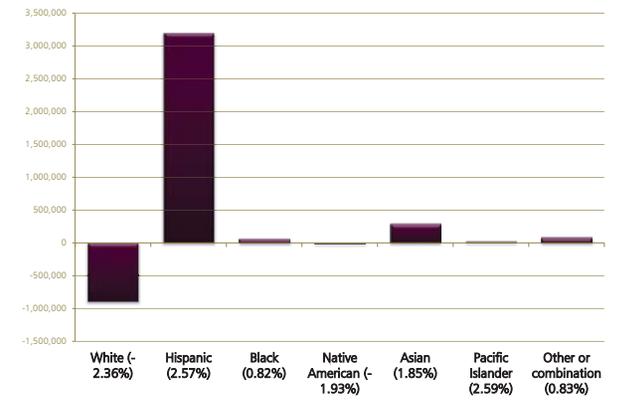
HOUSEHOLD TYPE BY COUNTY



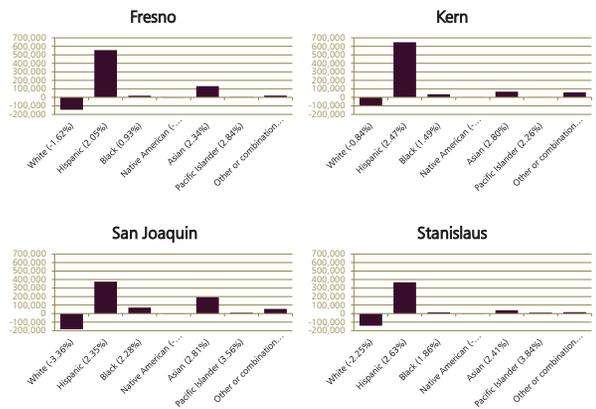
HOUSEHOLD TYPE BY COUNTY



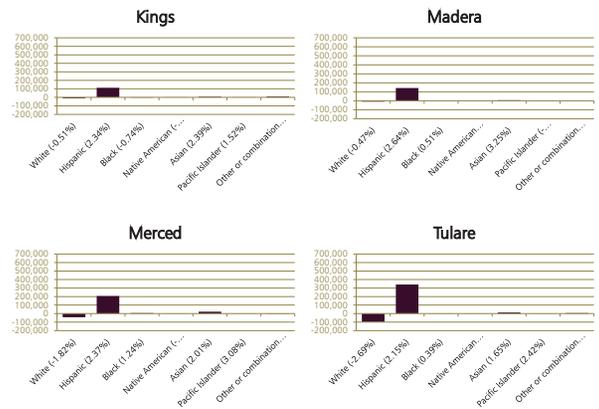
VALLEYWIDE RACE/ETHNICITY CHANGE



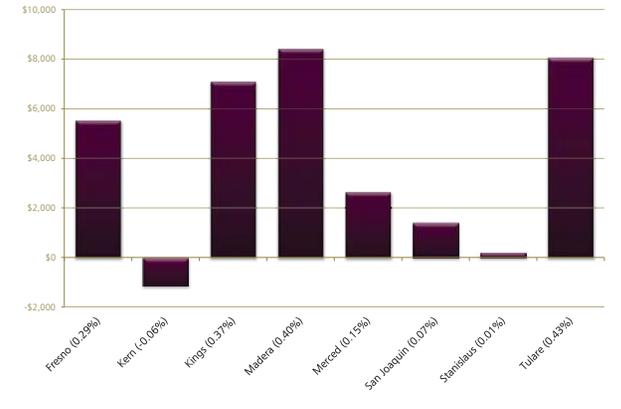
RACE/ETHNICITY CHANGE BY COUNTY



RACE/ETHNICITY CHANGE BY COUNTY



CHANGE IN MEDIAN HOUSEHOLD INCOME





February 22, 2012

TO: Kern Regional Transportation Modeling Committee

FROM: ROBERT R. BALL
INTERIM EXECUTIVE DIRECTOR

BY: Troy Hightower, Planner II

SUBJECT: TMC AGENDA ITEM: VI
SB 375 Model Scenarios (List of Strategies to Model)

DESCRIPTION:

SB 375 requires regions to analyze strategies to reduce per capita greenhouse gas emissions (GHG) from passenger vehicle travel.

DISCUSSION:

This item was reviewed by the Kern Regional Planning Advisory Committee at its meeting of January 4, 2011 as the Draft SB 375 Strategy List, no additions were suggested. The following is a list of core policy variables that the California Air Resources Board (ARB) associated with key land use and transportation-related components associated with GHG reductions. These variables and factors are consistent with those qualitatively assessed in the MPOs' model sensitivity analysis during the target setting process. While ARB staff believes this list includes the most important variables for analysis, staff realizes it may not be appropriate for an MPO to do a sensitivity test on each one, given the MPO's unique SCS, complexity, and resources.

Kern COG staff has updated the table to indicate the variables Kern COG currently can model with the existing Land Use and Travel models, the variables that are planned to be modeled using the new Model Improvement Program (MIP) model due to be release March 2, 2012, variables planned for the Travel model updates related to the GET Long-range Transit Plan under development, and those variables that could be developed in the future, or as an off-model process.

Tool Used			
Travel Model	Land Use Model	ARB Modeling Variable	Kern COG Modeling Capabilities
		Land Use:	

Tool Used			
Travel Model	Land Use Model	ARB Modeling Variable	Kern COG Modeling Capabilities
x	x	a. Modify distribution of households, population, jobs or other variables	LU Model
x	x	b. Rebalance the mix of land uses	LU Model
x	x	c. Increase the level of density (high priority transit areas, Metro only)	LU Model
x	x	d. Improve the pedestrian environment	Future MIP
		Road Projects:	
x		a. Add HOV lanes (modeling for feasibility study)	Travel Mdl.
x		b. Implement Intelligent Transportation Systems (ITS)/Traffic management (e.g., change auto travel times, change highway free-flow speed)	Future Off Model
x		c. Add general purpose roadway lanes (e.g., change highway capacities)	Travel Mdl.
		Transit:	
x		a. Construct new transit lines (modeling for GET study)	Travel Mdl.
x		b. Increase service (e.g., change transit headways, increase network connectivity) (modeling for GET study)	Travel Mdl.
x		c. Upgrade transit service (e.g., change from bus to light rail) (GET study)	Travel Mdl.
x	x	d. Improve accessibility (e.g., change bike/walk access distance to transit stations, change auto access distance to transit stations)	Future MIP
		Pricing:	
x		a. Develop tolls and toll roads (modeling for feasibility study)	Future Off
x		b. Implement HOT lanes (modeling for feasibility study)	Future MIP
x		c. Increase the cost of parking	Travel Mdl.
x		d. Change in transit fares	Future MIP
X		e. Change in auto operation cost	Future MIP
		Transportation Demand Management:	
X		a. Promote carpooling, vanpooling, telecommuting and teleconferencing	Future Off
X	x	b. Promote walking and biking	Future MIP
X		c. Implement employer-based trip reduction strategies and Indirect Source Rule	Future Off

http://www.arb.ca.gov/cc/sb375/scs_review_methodology.pdf

Off Model Strategies from the Big 4-MPOs

In addition to these variables or strategies, the 4 biggest MPOs prepared a memo about “off-model” strategies that would be used adjust their GHG emissions forecast. The following is a list of those strategies from last year. SACOG took credit for an additional 1-2% points in per capita reduction using their off model methodology. See attachment (Table 6 from the following memo).

<http://www.arb.ca.gov/cc/sb375/mpo/prelimreport.mtc.sacog.sandag.scag.pdf>

Issue

Kern needs to identify rural-urban connectivity and other strategies that are more relevant to our unique region.

ACTION: Discussion/Information

**Table 6 - TSM and TDM Strategies Used for Determining Regional Travel Impacts
(Large MPOs)**

Region & Categories	On-Model/ Off-Model	Adopted RTP Deployment (2030-35)	Proposed Deployment - Most Ambitious Scenario (2035)
MTC			
<i>System Efficiency:</i>			
Bottleneck relief/gap closure projects	On	x	x
Ramp Metering	On	x	x
Incident Management	On	x	x
Traveler Information/511	n/a		
<i>Transportation Demand Management:</i>			
Work-based Incentives: Telecommuting/flexible/alternative work schedules/transit passes	n/a		
Bus/Van/Carpool programs	n/a		
Safe routes to schools strategies	n/a		
Car-sharing Programs	n/a		
Total estimated % per capita reduction		1% - 2%	1% - 2%
SCAG			
<i>System Efficiency:</i>			
Bottleneck relief/gap closure projects	On	x	x
Ramp Metering	On	x	x
Incident Management	Off	x	x
Traveler Information/511	Off	x	x
<i>Transportation Demand Management:</i>			
Work-based Incentives: Telecommuting/flexible/alternative work schedules/transit passes	On	x	x
Bus/Van/Carpool programs	Off	x	x
Safe routes to schools strategies	Off	x	x
Car-sharing Programs	Off	x	x
Total Estimated % Per Capita Reduction		NA	2%
SANDAG			
<i>System Efficiency:</i>			
Bottleneck relief/gap closure projects	On	x	x
Ramp Metering	On	x	x
Incident Management			
Traveler Information/511			
<i>Transportation Demand Management:</i>			
Work-based Incentives: Telecommuting/flexible/alternative work schedules/transit passes	On	x	x
Bus/Van/Carpool programs	Off		x
Safe routes to schools strategies	Off		x
Car-sharing Programs			
Total Estimated % Per Capita Reduction		NA	9 - 10%*
SACOG			
<i>System Efficiency:</i>			
Bottleneck relief/gap closure projects	On	x	x
Ramp Metering	On	x	x
Incident Management	Off	x	x
Traveler Information/511	Off	x	x
<i>Transportation Demand Management:</i>			
Work-based Incentives: Telecommuting/flexible/alternative work schedules/transit passes	Off	x	x
Bus/Van/Carpool programs	Off	x	x
Safe routes to schools strategies	n/a	x	x
Car-sharing Programs	Off	x	x
Total Estimated % Per Capita Reduction		-0.5% for Off model only	-1.1% for Off model only

* Results are for Scenario A (TDM/TSM alternative)