

06/19/2023 City Council Special Meeting

Handouts received after agenda posted



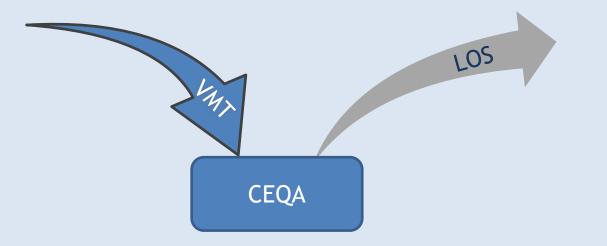
City of Lemoore VMT Thresholds and Implementation Guidelines City Council Meeting – June 19, 2023





Overview of SB 743 and VMT

- Took effect statewide on July 1, 2020
- Replaced Level of Service (LOS) with Vehicle Miles Traveled (VMT) as basis for determining transportation impacts under California Environmental Quality Act (CEQA)

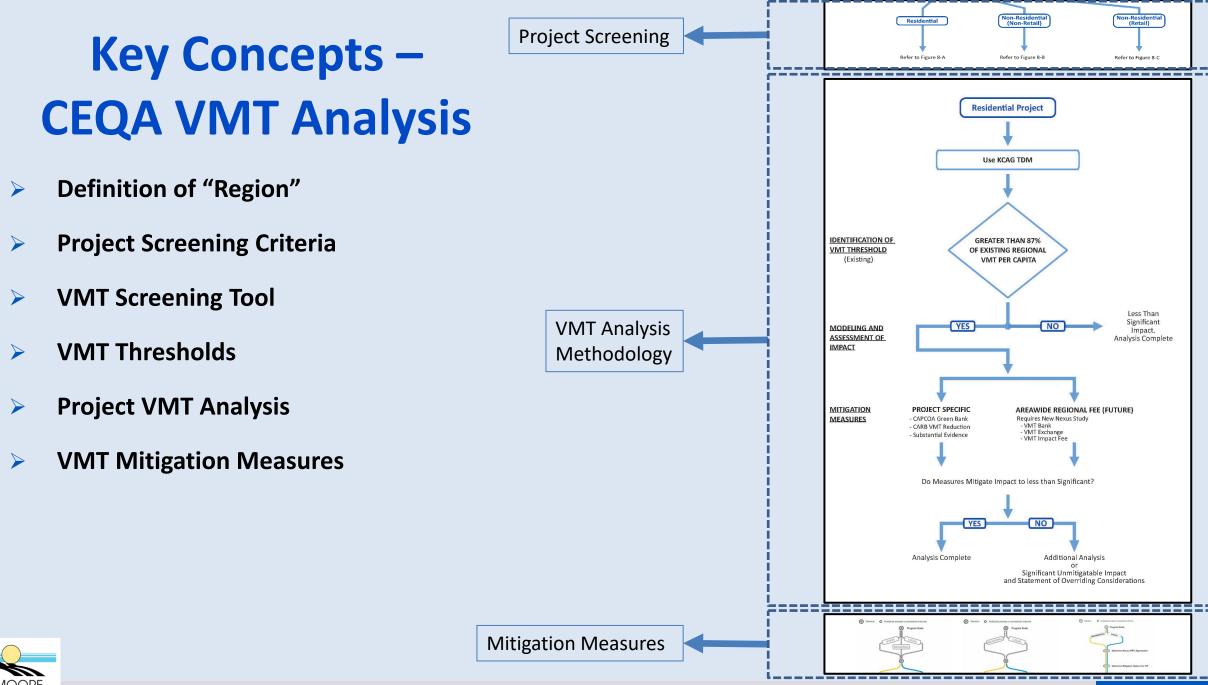


- Serves the State's greenhouse gas (GHG)
 emission reduction goals
- Encourages denser infill development and discourages greenfield development

> Vehicle Miles Traveled (VMT) : Total distance traveled by all vehicles.

VMT = (daily traffic) x (trip length)







Definition of "Region"

Project VMT profile will be evaluated against thresholds based on regional VMT profile

Percentage of Total Trips to/from City of Lemoore - 2015 KCAG Model 70% 65% 60% 50% 40% 30% 30% 20% 10% 5% 0% **Total Trips** Within City of Lemoore Outside City, within Kings County Outside of Kings County

Region refers to the geography within which most of project trips would be contained

Using **Kings County** as the region for VMT analysis is recommended because :

Extensive

• Includes majority (95%) of trips originating from or ending in the City of Lemoore are contained within Kings County.

Relevant

 Most large or urbanized areas around the State of California identify County boundary as the region for VMT analysis



VMT Screening Criteria : Land Development Projects

Projects meeting certain criteria can be assumed to have no or less than significant impact

Projects within High-Quality Transit Area / High-Quality Transit Corridor

Local Serving Retail (<50,000 s.f.)

100% affordable housing units

Consistent with City's General Plan and generating less than 1,000 daily trips; fewer than 500 daily trips otherwise

Institutional/government and public service

Consistent with City's General Plan and located in low VMT areas



Detailed screening criteria are provided in the City of Lemoore VMT Thresholds and Implementation Guidelines (City VMT Guidelines)



Table C: VMT Screening Thresholds for Sample Land Uses

Land Use	Size of Projects (Requiring a General Plan Amendment)	Size of Projects (Not Requiring a General Plan Amendment)
Single-Family Residential ¹	53 DU	106 DU
Low-Rise Multifamily Residential ²	74 DU	148 DU
Mid-Rise Multifamily Residential ³	110 DU	220 DU
Office	46.125 TSF	92.250 TSF
Warehouse	292.397 TSF	584.795 TSF
Light Industrial	102.669 TSF	205.338 TSF
Hotel	62 Rooms	125 Rooms
Medical Office ⁴	13.888 TSF	27.777 TSF
Hospital	22 Beds	44 Beds

Notes: DU = Dwelling Units; TSF = Thousand Square Feet

Project sizes have been determined based on trip generation rates obtained from the ITE Trip Generation Manual (11th Edition).

¹ The project sizes have been provided for single-family detached residential only.

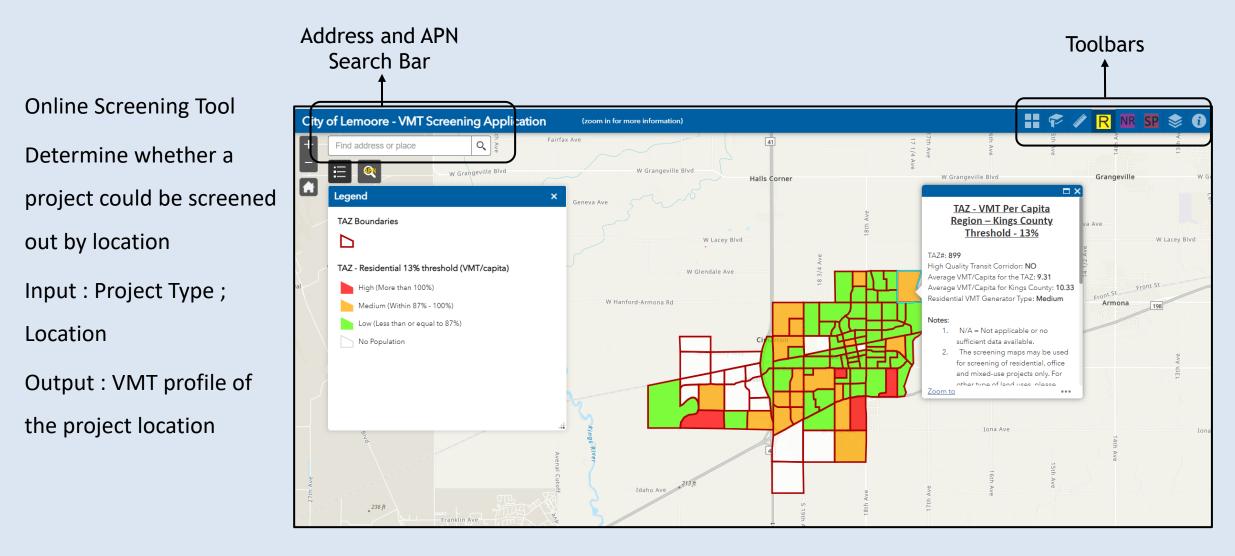
² The project sizes have been provided for low-rise multifamily residential (not close to rail transit) only.

³ The project sizes have been provided for mid-rise multifamily residential (not close to rail transit) only.

⁴ The project sizes have been provided for stand-alone medical office buildings only.



VMT Screening Tool





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City of Lemoore VMT Screening Tool: https://gis1.lsa.net/LVMT/



VMT Screening Criteria: Transportation Projects

Transit and Active Transportation Projects

Non-Capacity Increasing Projects

.....a detailed list of transportation projects which can be screened is provided in the City VMT Guidelines

- New transit service
- Bicycle/Pedestrian Infrastructure

- Rehabilitation/Maintenance/Safety/Repair
- Traffic monitoring and control systems

- Alternative fuel charging infrastructure
- Park and Ride facilities

Detailed screening criteria are provided in the City of Lemoore VMT Thresholds and Implementation Guidelines (City VMT Guidelines)



VMT Thresholds/Metrics for City of Lemoore

VMT threshold of <u>13% below existing regional</u> <u>average (or 87% of existing regional average)</u> has been recommended for City of Lemoore

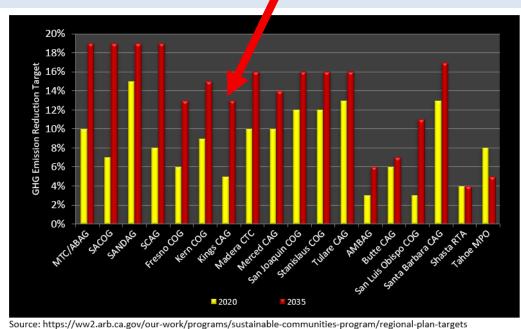
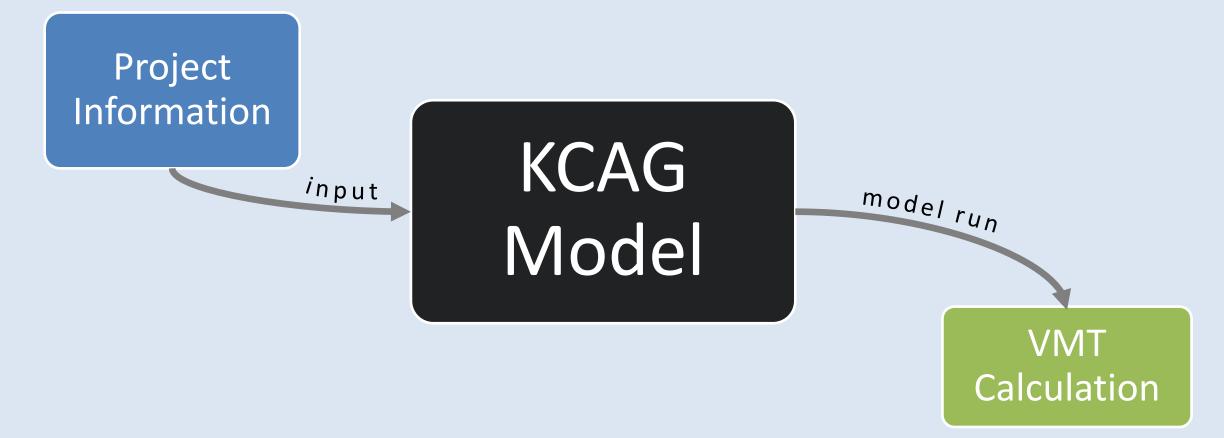


Figure 6: SB 375 Regional Plan Climate Targets for the 18 California MPOs

Project Type	VMT Metric
Residential	VMT/capita
Office	VMT/employee
Retail	Total VMT
Mixed-Use, Land Use Plan (General Plan/Specific Plan)	Respective VMT metrics for its different land use components
Hotel, Hospital, Medical Office Building, or any similar use with approval from the City	VMT/service population
Other Land Uses	VMT/employee
Transportation	VMT attributable to project



VMT Analysis Methodology using KCAG Model : Overview



The KCAG Model uses various socioeconomic variables related to the project as an input and gives the VMT information as output, which is then used to determine significance of project VMT impacts.



VMT Mitigation Measures

If a significant VMT impact is found :

Applicant and City discuss possible mitigation measure, which should be :



Challenges:

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Applicability/Feasibility

- Vanpools
- Ridesharing
- Transit Passes
- Traffic Calming measures
- Promotion of non-motorized uses..

Recommendations:

Use of local data if available

Monitoring of implemented measures

An extensive list of strategies that may be applicable to Lemoore is included in the City VMT Guidelines





Questions ?



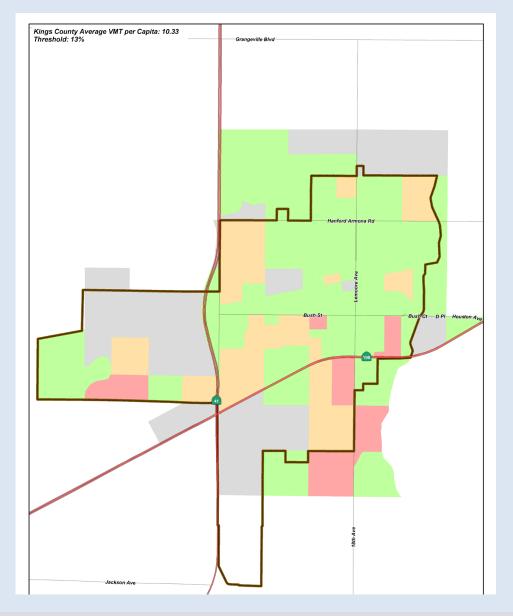


THANK YOU !



VMT per Capita Screening Map for City of Lemoore

VMT/Capita threshold 13% Legend VMT per capita City Boundary Less than 5 households Less than 8.99 Less than 8.99 State 8.99 - 10.33 Greater than 10.33 Greater than 10.33

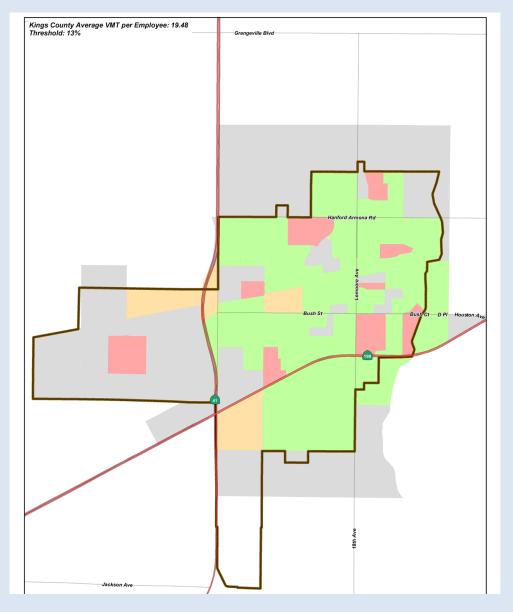




VMT per Employee Screening Map for City of Lemoore

VMT/Employee threshold 13%

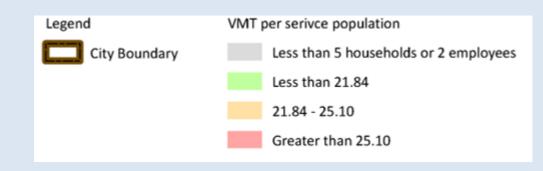






VMT per Service Population Screening Map for City of Lemoore

VMT/Service Population threshold 13%



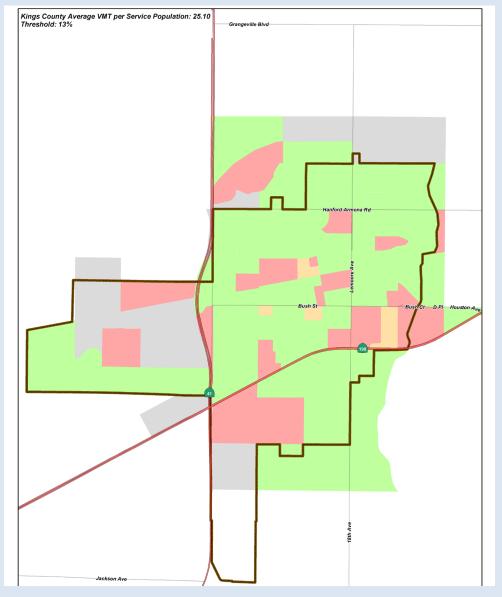




Table B: CO₂e Emission Rates by Land Use Type

DU or TSF	Total MTCO2e per year	Annual MTCO ₂ e per DU or TSF
270 DU	2,998	11.10
385 DU	2,997	7.78
513 DU	2,997	5.84
337 TSF	2,993	8.88
426 TSF	2,996	7.03
507 TSF	2,998	5.91
382 Rooms	2,971	7.78
142 TSF	2,993	21.08
197 Beds	2,989	15.17
82 TSF	2,993	36.50
137 TSF	2,994	21.85
	270 DU 385 DU 513 DU 337 TSF 426 TSF 426 TSF 507 TSF 382 Rooms 142 TSF 197 Beds 82 TSF	270 DU 2,998 385 DU 2,997 513 DU 2,997 337 TSF 2,993 426 TSF 2,996 507 TSF 2,998 382 Rooms 2,971 142 TSF 2,993 197 Beds 2,993 82 TSF 2,993

Source: California Emissions Estimator Model (CalEEMod) version 2022.1.0.

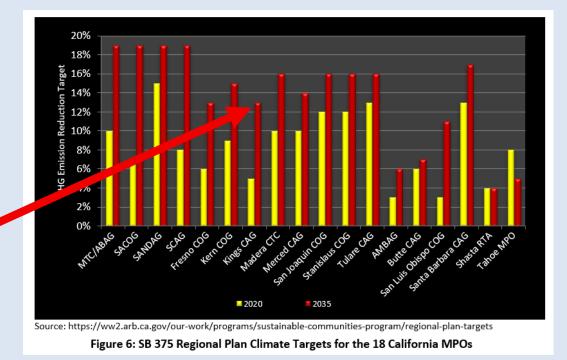
DU = Dwelling Units; TSF = Thousand Square Feet; CO₂e = carbon dioxide equivalent



VMT Thresholds for City of Lemoore

VMT threshold of <u>13% below existing regional</u> <u>average (or 87% of existing regional average</u>) has been recommended for City of Lemoore

based on **CARB** target of 13% reduction in Kings CAG GHG emissions by 2035



(Project VMT) > (VMT threshold) \rightarrow Significant impact ; mitigations required (Project VMT) < (VMT threshold) \rightarrow Not a significant impact ; analysis complete

Use of **KCAG Model** is recommended for project VMT estimation.



Recommended VMT Metrics and Thresholds

Project Type	VMT Metric**	VMT Threshold	
Residential	VMT/capita	87% of existing VMT/capita	
Office	VMT/employee	87% of existing VMT/employee	
Retail	Total VMT	No net increase in total VMT	
Mixed-Use, Land Use Plan (General Plan/Specific Plan)	Respective VMT metrics for its different land use components	Mixed-use: respective thresholds for the various land use components; Land Use Plans: the existing Kings County average baseline VMT per capita, VMT per employee, and VMT per service population will be used.	
Hotel, Hospital, Medical Office Building, or any similar use with approval from the City	VMT/service population	87% of existing regional VMT/service population	
Other Land Uses	VMT/employee	87% of existing regional VMT/emp	
Transportation	VMT attributable to project	VMT attributable to project > 0	



**For the City of Lemoore, the VMT metric will be used for CEQA purposes, but the LOS metric will still be used to determine necessary roadway infrastructure and traffic operations improvements.

VMT Mitigation : Regional Opportunities

can be achieved by

VMT mitigations are relevant in the context of the "<u>Region</u>"

Regional solutions may be required (not feasible at project-level)

Examples :

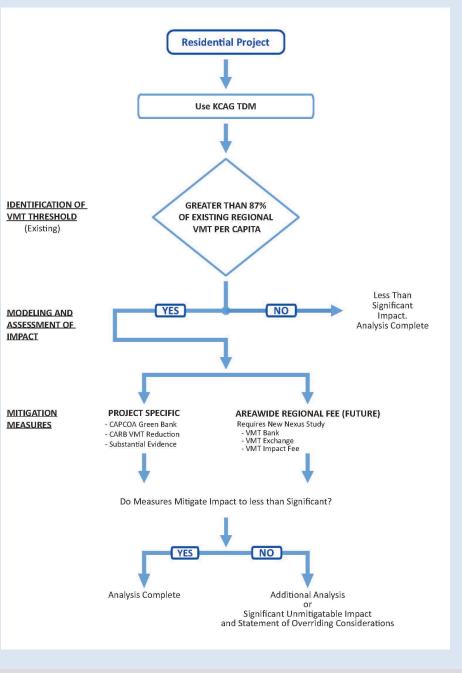
- Completion of transit system
- Purchase of more transit buses
- Gap closure of bicycle master plan

VMT Mitigation Banks/Fees/Exchanges

- Projects contribute fees towards programs aimed to reduce regional VMT
- Effectively reduce regional VMT, GHG towards State's climate goals

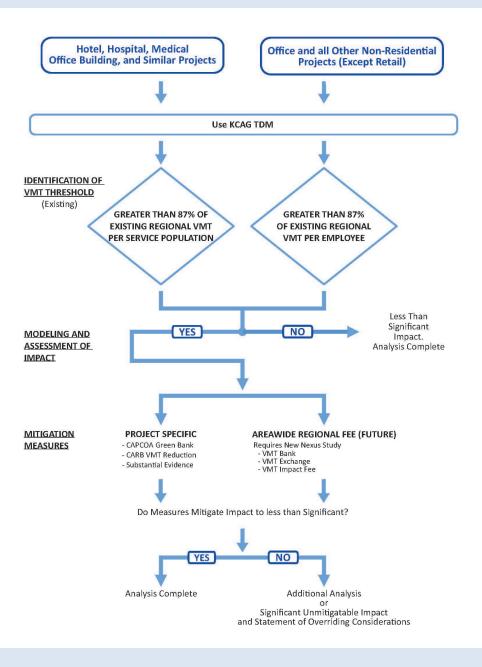


VMT Analysis Methodology for Non-Screened Residential Projects





VMT Analysis Methodology for Non-Screened Non-Residential (Non-Retail) Projects





VMT Analysis Methodology for Non-Screened Non-Residential (Retail) Projects

