

APPENDIX 3.11-A

Safety and Security Data

Table 3.11A-1
Number of Train Accidents and Casualties by County – 2004–2010

Impact	Accidents				Casualties	
	Total	Type of Accident			Killed	Injured
		Fatal	Injury	PDO		
Merced County	8	1	2	8	1	4
Madera County	7	0	1	6	0	6
Fresno County	54	2	3	49	2	6
Note: Data are for January 2004 through November 2010. PDO = property damage only Source: FRA (2011).						

Table 3.11A-2
Types and Causes of Train Accidents by County – 2004–2010

Impact	Type of Accident			Cause of Accident				
	Coll	Der	Other	Equip	Human Error	Other	HRC	Faulty Track
Merced County	5	2	1	1	0	1	5	1
Madera County	1	3	4	0	1	1	4	1
Fresno County	13	36	5	4	17	6	5	22
Note: Data are for January 2004 through November 2010. Coll = collision (e.g., head-on, rear-end, side, raking, broken-train, or heavy-rail collisions) Der = derailment Equip = equipment HRC = highway railroad crossing Source: FRA (2011).								

Table 3.11A-3

At-Grade Crossing Accidents in UPRR/SR 99, BNSF, and Hybrid Alternative Study Areas – 2004–2010

Cross Street	Rail-road	City	Number of Accidents		Number of Casualties		Alternative
			Total	PDO	Killed	Injured	
Buhach Rd	BNSF	Atwater	1	0	1	0	Castle Commerce Center HMF
Bellevue Rd	BNSF	Atwater	2	2	0	0	Castle Commerce Center HMF
Lingard Rd	UPRR	Merced	1	1	0	0	UPRR/SR 99 and Hybrid
Healy Rd	UPRR	Merced	2	2	0	0	UPRR/SR 99 and Hybrid
Ave 20½	BNSF	Madera	2	0	1	2	BNSF
Herndon Ave	UPRR	Fresno	1	1	0	0	All
Shaw Ave	UPRR	Fresno	2	2	0	0	All
Olive Ave	UPRR	Fresno	3	2	0	1	All
Tulare St	UPRR	Fresno	1	0	0	1	All
Ventura St	UPRR	Fresno	2	0	0	2	All
Note: Data are for January 2004 through November 2010. PDO = property damage only Source: FRA (2011).							

Table 3.11A-4

Violent and Property Crime Rates – 2008

Area	Population	Part 1 Offences (violent and property crimes)	Violent Crime Rate per 1,000 Inhabitants	Property Crime Rate per 1,000 Inhabitants
Atwater	27,450	1,297	6	42
Merced	78,598	4,065	4	28
Chowchilla	19,268	378	4	28
Madera	57,636	1,663	4	9
Fresno	475,723	24,838	14	35
California	36,756,666	1,265,920	5	29
Source: Federal Bureau of Investigation (2008).				

Table 3.11A-5
Violent and Property Crimes on California Heavy Rail Systems – 2008

Area	Annual Ridership ^a	Part 1 Offences (violent and property crimes)	Violent Crime Rate per 1,000 Riders	Property Crime Rate per 1,000 Riders
Los Angeles MTA	45,457,700	55	0.02	0.1
San Francisco BART	117,171,200	2,834	0.2	2.2
MTA = Metropolitan Transportation Authority BART = Bay Area Rapid Transit ^a American Public Transportation Association (2009). Source: Federal Bureau of Investigation (2008a).				

Table 3.11A-6
Average Law Enforcement Call Response Times by Priority – 2009

Law Enforcement Agency	Average # Calls for Service per Day	Priority 1 Calls	Priority 2 Calls	Priority 3 Calls
Atwater	NA	NA	NA	NA
Merced Police Department	NA	NA	NA	NA
Chowchilla Police Department	28	6 min 30 sec	4 min 49 sec	10 min 55 sec
Madera Police Department	NA	1 to 3 min ^a	3 min or more ^a	1 hour or more ^a
Fresno Police Department	1,133	6 min 25 sec ^b / 13 min 22 sec ^c	63 min 29 sec ^d	121 min 5 sec ^e
Merced County Sheriff's Office	NA	NA	NA	NA
Madera County Sheriff's Office ^f	37	18 min 3 sec	22 min	37 min
min = minute NA = not available; these agencies do not track their call response times. sec = second ^a Madera County does not track average call response times. These times represent their standard response times, which are met the majority of the time. ^b Class 0 calls (life-threatening) ^c Class 1 calls (non-life-threatening in-progress crimes) ^d Class 2 calls (prior person crimes) ^e Class 3 calls (prior property crimes) ^f Madera County call response times include only the time between dispatch and arrival on-scene, so these times reflect a shorter portion of the response time than the other agencies listed in the table. Sources: Brogdon (2010); Chambers (2010); Eber (2010); Lamison (2010); McKenzie (2010); Riviere (2010); Salvador (2010).				

Table 3.11A-7
Fire Departments and Equipment in the UPRR/SR 99, BNSF, and Hybrid Alternative Study Areas

Fire Department	Service Area	Equipment
City of Atwater (contracted through CalFire)	City of Atwater/unincorporated area of Merced County	50-foot ladder truck (currently out of commission) Rescue trailer (currently out of commission)
City of Chowchilla	City of Chowchilla and surrounding unincorporated area	No ladder trucks or hazmat trucks
City of Fresno	City of Fresno and adjacent Fresno County areas under contract with the North Central Fire Protection District and Fig Garden Fire Protection District	Nineteen engines Five ladder trucks – at least 85 feet tall Urban search and rescue apparatus Two water tenders Two hazmat apparatus Hazmat decontamination trailer Two brush rigs for vegetation fires Light and air unit
City of Madera (contracted through Cal Fire)	Portions of the City of Madera	50-foot ladder truck (about to go out of commission)
City of Merced	City of Merced	Five front-line engines Two reserve engines Two ladder trucks – 85-foot and 105-foot Hazmat decontamination trailer Rescue boat Rescue trailer Aircraft crash fire rescue engine
Merced County (contracted through Cal Fire)	Unincorporated areas of Merced County	Hazmat rig
Madera County (contracted through Cal Fire)	Unincorporated areas of Madera County	75-foot ladder truck at Station 8 - Indian Lakes, 15 miles from study area Hazmat rig
hazmat = hazardous materials Source: City of Atwater Fire Department (2009); City of Merced Fire Department (2009); City of Chowchilla Volunteer Fire Department (2009); City of Madera Fire Department (2009); City of Fresno Fire Department (2009); Scott (2011); Anderson (2010); Gardine (2010); McDonald (2010); Mitchum (2009); Moore (2009).		

Table 3.11A-8
Hospitals Providing Emergency and Trauma Care to the UPRR/SR 99,
BNSF, and Hybrid Alternative Study Areas

Name	Location
Doctors Medical Center (Level II trauma center)	1441 Florida Ave, Modesto
Memorial Medical Center (Level II trauma center)	1700 Coffee Rd, Modesto
Mercy Medical Center	Two facilities: 301 E 13th St and G St / Mercy Ave, Merced
Madera Community Hospital	1250 E Almond Ave, Madera
Children's Hospital Central California	9300 Valley Children's Place, Madera
Fresno Community Regional Medical Center (Level I trauma center)	2823 Fresno St, Fresno
Saint Agnes Medical Center	1303 E Herndon Ave, Fresno
Source: California Emergency Medical Services Authority (2008).	

Table 3.11A-9
Critical Facilities and Infrastructure in the UPRR/SR 99, BNSF, and Hybrid Alternative Study Areas

Facility Type	Name	Location	Alternative
Hospital	Madera Community Hospital	1250 E Almond Ave, Madera	All
Hospital/Medical Facility	Old Mercy Medical Center	301 E 13th St, Merced	All
Emergency Services and Dispatch	Merced County Emergency Medical Services Agency	260 E 15 th St, Merced	All
Emergency Services and Dispatch	Central California EMS Agency (CCEMSA)	1221 Fulton Mall, Fresno	All
City Hall	Merced Civic Center	678 W 18th St, Merced	All
County Hall	Merced County Hall	2222 M St, Merced	All
Courthouse	Merced Superior Court	627 W 21st St, Merced	All
Sheriff	Merced Main Station/Main Jail Facility	700 W 22nd St, Merced	All
Police Station	Merced Police Central Station	611 W 22nd St, Merced	All
Police Station	Merced Police South Station	470 W 11th St, Merced	All
Fire Station	Castle Fire Station	3405 Hardstand Ave, Atwater	All
Fire Station	Merced Fire Station 51	99 E 16th St, Merced	All
Fire Station	Merced Fire Station 54	1425 E 21st St, Merced	All
Fire Station	Le Grand Fire Station 84	3875 S Santa Fe Dr, Le Grand	BNSF
Courthouse	Madera Superior Courthouse	209 W Yosemite Ave, Madera	UPRR/SR 99
County Hall	Madera County Hall	200 W 4th St, Madera	UPRR/SR 99
City Hall	Madera City Hall	205 W 4th St, Madera	UPRR/SR 99
Police Station	Madera Police Headquarters	330 South C Street, Madera	UPRR/SR 99
Sheriff	Fresno County Sheriff's Department Headquarters	2200 Fresno St, Fresno	All
Police Station	City of Fresno Southwest District Police Station	1211 Fresno St, Fresno	All
Courthouse	Fresno Superior Courthouse	1100 Van Ness Ave, Fresno	All
Fire Station	City of Fresno Fire Station 3	1406 Fresno St, Fresno	All

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