



Annual WBAPS 2019

WEB ACCIDENT PREDICTION SYSTEM

*Accident Prediction Report for
Public at-Grade Highway-Rail Crossings*

Including:

Disclaimer/Abbreviation Key
Accident Prediction List

Provided by:

*Federal Railroad Administration
Office of Safety Analysis
Highway-Rail Crossing Safety & Trespass Prevention*

Data Contained in this Report:

STATE: CA
COUNTY: LOS ANGELES
RAILROAD: UP

Date Prepared: 6/17/2019



U.S. Department
of Transportation
**Federal Railroad
Administration**

USING DATA PRODUCED BY WBAPS **(Web Accident Prediction System)**

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WBAPS generates reports listing public highway-rail intersections for a State, County, City or railroad ranked by predicted collisions per year. These reports include brief lists of the Inventory record and the collisions over the last 10 years along with a list of contacts for further information. These data were produced by the Federal Railroad Administration's Web Accident Prediction System (WBAPS).

WBAPS is a computer model which provides the user an analytical tool, which combined with other site-specific information, can assist in determining where scarce highway-rail grade crossing resources can best be directed. This computer model does not rank crossings in terms of most to least dangerous. Use of WBAPS data in this manner is incorrect and misleading.

WBAPS provides the same reports as PCAPS, which is FRA's PC Accident Prediction System. PCAPS was originally developed as a tool to alert law enforcement and local officials of the important need to improve safety at public highway-rail intersections within their jurisdictions. It has since become an indispensable information resource which is helping the FRA, States, railroads, Operation Lifesaver and others, to raise the awareness of the potential dangers at public highway-rail intersections. The PCAPS/WBAPS output enables State and local highway and law enforcement agencies identify public highway-rail crossing locations which may require additional or specialized attention. It is also a tool which can be used by state highway authorities and railroads to nominate particular crossings which may require physical safety improvements or enhancements.

The WBAPS accident prediction formula is based upon two independent factors (variables) which includes (1) basic data about a crossing's physical and operating characteristics and (2) five years of accident history data at the crossing. These data are obtained from the FRA's inventory and accident/incident files which are subject to keypunch and submission errors. Although every attempt is made to find and correct errors, there is still a possibility that some errors still exist. Erroneous, inaccurate and non-current data will alter WBAPS accident prediction values. While approximately 100,000 inventory file changes and updates are voluntarily provided annually by States and railroads and processed by FRA into the National Inventory File, data records for specific crossings may not be completely current. Only the intended users (States and railroads) are really knowledgeable as to how current the inventory data is for a particular State, railroad, or location.

It is important to understand the type of information produced by WBAPS and the limitations on the application of the output data. WBAPS does not state that specific crossings are the most dangerous. Rather, the WBAPS data provides an indication that conditions are such that one crossing may possibly be more hazardous than another based on the specific data that is in the program. It is only one of many tools which can be used to assist individual States, railroads and local highway authorities in determining where and how to initially focus attention for improving safety at public highway-rail intersections. WBAPS is designed to nominate crossings for further evaluation based only upon the physical and operating characteristics of specific crossings as voluntarily reported and updated by States and railroads and five years of accident history data.

PCAPS and WBAPS software are not designed to single out specific crossings without considering the many other factors which may influence accident rates or probabilities. State highway planners may or may not use PCAPS/WBAPS accident prediction model. Some States utilize their own formula or model which may include other geographic and site-specific factors. At best, PCAPS and WBAPS software and data nominates crossings for further on-the-ground review by knowledgeable highway traffic engineers and specialists. The output information is not the end or final product and the WBAPS data should not be used for non-intended purposes.

It should also be noted that there are certain characteristics or factors which are not, nor can be, included in the WBAPS database. These include sight-distance, highway congestion, bus or hazardous material traffic, local topography, and passenger exposure (train or vehicle), etc. Be aware that PCAPS/WBAPS is only one model and that other accident prediction models which may be used by States may yield different, by just as valid, results for ranking crossings for safety improvements.

Finally, it should be noted that this database is not the sole indicator of the condition of a specific public highway-rail intersection. The WBAPS output must be considered as a supplement to the information needed to undertake specific actions aimed at enhancing highway-rail crossing safety at locations across the U.S. The authority and jurisdiction to appropriate resources towards the safety improvement or elimination of specific crossings lies with the individual States.



ABBREVIATION KEY

for use with WBAPS Reports

The lists produced are only for public at-grade highway-rail intersections for the entity listed at the top of the page. The parameters shown are those used in the collision prediction calculation.

RANK:	Crossings are listed in order and ranked with the highest collision prediction value first.
PRED COLLS:	The accident prediction value is the probability that a collision between a train and a highway vehicle will occur at the crossing in a year.
CROSSING:	The unique sight specific identifying DOT/AAR Crossing Inventory Number.
RR:	The alphabetic abbreviation for the railroad name.
CITY:	The city in (or near) which the crossing is located.
ROAD:	The name of the road, street, or highway (if provided) where the crossing is located.
NUM OF COLLISIONS:	The number of accidents reported to FRA in each of the years indicated. Note: Most recent year is partial year (data is not for the complete calendar year) unless Accidents per Year is 'AS OF DECEMBER 31'.
DATE CHG:	The date of the latest change of the warning device category at the crossing which impacts the collision prediction calculation, e.g., a change from crossbucks to flashing lights, or flashing lights to gates. The accident prediction calculation utilizes three different formulas, on each for (1) passive devices, (2) flashing lights only, and (3) flashing lights with gates. When a date is shown, the collision history prior to the indicated year-month is not included in calculating the accident prediction value.
WD:	The type of warning device shown on the current Inventory record for the crossing where: FQ=Four Quad Gates; GT = All Other Gates; FL = Flashing lights; HS = Wigwags, Highway Signals, Bells, or Other Activated; SP = Special Protection (e.g., a flagman); SS = Stop Signs; XB = Crossbucks; OS = Other Signs or Signals; NO = No Signs or Signals.
TOT TRNS:	Number of total trains per day.
TOT TRKS:	Total number of railroad tracks between the warning devices at the crossing.
TTBL SPD:	The maximum timetable (allowable) speed for trains through the crossing.
HWY PVD:	Is the highway paved on both sides of the crossing?
HWY LNS:	The number of highway traffic lanes crossing the tracks at the crossing.
AADT:	The Average Annual Daily Traffic count for highway vehicles using the crossing.



PUBLIC HIGHWAY-RAIL CROSSINGS RANKED BY PREDICTED ACCIDENTS PER YEAR AS OF 12/31/2018*

*Num of Collisions: Most recent year is partial year (data is not for the complete calendar year) unless Accidents per Year is 'AS OF DECEMBER 31'.

RANK	PRED COLLS.	CROSSING	RR	STATE	COUNTY	CITY	ROAD	NUM OF COLLISIONS					DATE CHG	W D	TOT TRN	TOT TRK	TTBL SPD	HWY PVD	HWY LNS	AADT
								18*	17	16	15	14								
1	0.296374	810883N	UP	CA	LOS ANGELES	INDUSTRY	FAIRWAY DRIVE	0	1	0	2	1		GT	42	2	65	YES	5	23,490
2	0.144627	746919V	UP	CA	LOS ANGELES	POMONA	TEMPLE AVENUE	1	0	1	0	0		GT	16	1	10	YES	7	24,549
3	0.141764	810924R	UP	CA	LOS ANGELES	VERNON	BANDINI BOULEV	2	0	0	0	0		GT	16	3	20	YES	6	24,711
4	0.118509	810880T	UP	CA	LOS ANGELES	INDUSTRY	FULLERTON ROAD	1	0	0	0	0		GT	42	2	70	YES	6	22,082
5	0.106352	811074G	UP	CA	LOS ANGELES	MONTEBELLO	MONTEBELLO BOU	0	0	1	0	0		GT	44	2	79	YES	4	21,334
6	0.101213	746904F	UP	CA	LOS ANGELES	INDUSTRY	VINELAND AVENUE	1	0	1	0	0		GT	10	2	65	YES	3	15,416
7	0.088407	810956W	UP	CA	LOS ANGELES	SOUTH GATE	ATLANTIC AVENUE	0	0	1	0	0		GT	16	2	20	YES	5	33,279
8	0.086794	811219R	UP	CA	LOS ANGELES	PICO RIVERA	DURFEE AVENUE	0	1	0	0	0		GT	44	2	79	YES	2	11,869
9	0.081731	811090R	UP	CA	LOS ANGELES	SOUTH GATE	IMPERIAL HIGHW	0	0	0	0	0	04/17	GT	16	2	20	YES	6	40,239
10	0.074390	746928U	UP	CA	LOS ANGELES	POMONA	MAIN STREET	1	0	0	0	0		FQ	43	3	65	YES	2	2,507
11	0.069251	760490R	UP	CA	LOS ANGELES	LOS ANGELES	VERMONT AVENUE	2	0	0	0	0	03/17	GT	2	1	10	YES	2	17,000
12	0.068052	747442V	UP	CA	LOS ANGELES	LOS ANGELES	SOUTH ALAMEDA	0	1	0	0	0		GT	6	2	10	YES	5	25,000
13	0.065675	747839F	UP	CA	LOS ANGELES	FLORENCE	SLAUSON AVENUE	0	1	0	0	0		GT	6	1	40	YES	4	32,062
14	0.062072	810945J	UP	CA	LOS ANGELES	VERNON	FRUITLAND AVEN	0	0	0	0	1		XB	2	2	10	YES	4	24,400
15	0.056928	746852R	UP	CA	LOS ANGELES	LOS ANGELES	BOCA AVENUE	0	0	0	0	1		GT	10	2	30	YES	2	8,009
16	0.051483	747585T	UP	CA	LOS ANGELES	VERNON	EAST 37TH STRE	0	0	1	0	0		XB	2	1	10	YES	2	9,100
17	0.049529	747840A	UP	CA	LOS ANGELES	LOS ANGELES	60TH STREET	1	0	0	0	0	04/17	GT	6	2	10	YES	2	4,336
18	0.048273	746932J	UP	CA	LOS ANGELES	POMONA	SAN ANTONIO AV	0	0	0	0	0		FQ	43	4	65	YES	4	7,764
19	0.046271	810871U	UP	CA	LOS ANGELES	INDUSTRY	STIMSON AVENUE	0	0	0	0	0		GT	42	2	70	YES	4	16,773
20	0.045870	810867E	UP	CA	LOS ANGELES	CITY OF IND	TURNBULLCANY ON	0	0	0	0	0		GT	42	2	70	YES	4	15,853
21	0.045802	747939K	UP	CA	LOS ANGELES	PARAMOUNT	ROSECRANS BOUL	1	0	0	0	0		HS	2	1	10	YES	6	13,400
22	0.045354	810885C	UP	CA	LOS ANGELES	INDUSTRY	LEMON AVENUE	0	0	0	0	0		GT	42	2	70	YES	4	14,743
23	0.044453	810958K	UP	CA	LOS ANGELES	SOUTH GATE	FIRESTONE BOUL	0	0	0	0	0		GT	16	1	20	YES	6	49,346
24	0.042481	810951M	UP	CA	LOS ANGELES	HUNTINGTON	FLORENCE AVENUE	0	0	0	0	0		GT	16	1	20	YES	6	37,305
25	0.042454	746925Y	UP	CA	LOS ANGELES	POMONA	HAMILTON BOULE	0	0	0	0	0		GT	35	3	65	YES	4	8,022
26	0.041757	810928T	UP	CA	LOS ANGELES	VERNON	DISTRICT BOULE	0	0	0	0	0		FL	16	3	10	YES	6	19,715
27	0.041121	760554A	UP	CA	LOS ANGELES	LOS ANGELES	EAST 109TH STR	0	1	0	0	0		SS	2	1	10	YES	2	2,551
28	0.040640	811057R	UP	CA	LOS ANGELES	INDUSTRY	ROSE HILLS ROAD	0	0	0	0	0		GT	42	2	70	YES	4	7,541
29	0.040496	746916A	UP	CA	LOS ANGELES	INDUSTRY	BREA CANYON RO	0	0	0	0	0		GT	16	1	65	YES	6	23,053
30	0.039983	747871Y	UP	CA	LOS ANGELES	COMPTON	ROSECRANS AVEN	0	0	0	0	0	04/17	GT	6	1	40	YES	5	29,250

TTL: 2.228106

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