

# CAR Online Help Documentation

Florida Department of Transportation State Safety Office





#### Contents

1.0 Introduction	3
2.0 Getting Started	3
3.0 General Features	4
3.1 Dialog Windows	4
3.2 Search, Filters, and Drop-Down Menus	5
3.3 Calendar Features	6
3.4 Online Results	7
3.5 Exporting Results in Excel Format	7
4.0 State Roads	7
4.1 Area Wide for State Roads	8
4.2 By Roadway ID	9
4.3 Around a Node	9
4.4 Down a Roadway	9
4.5 Node Number Range	9
4.6 Batch Location Selection for State Roads	10
4.6.1 Adding Locations to a Batch List	10
4.6.2 Storing Locations	11
4.6.3 Loading Stored Locations	12
4.6.4 Setting Batch Report Options	12
4.6.4 Requesting PDF or Excel Results	13
4.7 Location Maintenance for State Roads	13
5.0 All Roads	14
5.1 Area Wide for All Roads	15
5.2 Roadways	15
5.3 Batch Location Selection for All Roads	16
6.0 Subsets	16
6.1 Defining Subset Conditions	17



# CAR Online Help State Safety Office

	_
State Safety Offic	26

6.1.1 Simple Example	
6.1.2 More Complex Example	
6.1.3 Advanced Options	19
6.2 Loading Standard Subset Conditions	19
6.3 Loading User Subset Conditions	20
6.4 Saving User Subset Conditions	21
7.0 High Crash	21
7.1 Intersection Average Crash Rates	22
7.2 Segment Average Crash Rates	22
7.3 Intersection High Crash/Reference	22
7.4 Segment High Crash/Reference	23
8.0 Tables	24
8.1 Selecting a Location	25
8.2 Table Elements	25
9.0 Glossary of Terms	





# **1.0 Introduction**

CAR Online is a web-based interface that allows users to generate reports using crash data stored on Florida Department of Transportation (FDOT) databases. Users may access data for crashes located on state roads or on local roads and users may access subsets of crash data using either standard system subsets or user-specified subsets. Crash data from 2011 onward are available.

# 2.0 Getting Started

To access CAR Online, a user must provide valid RACF credentials (user ID and password), accept the disclaimer, and click the "Log In" button or press the ENTER key. Users may change their RACF password using the "Change Password" link. If a user does not have a user ID, they may contact the FDOT Service Desk (FDOT.ServiceDesk@dot.state.fl.us).

CAR on-line
Les inte Crech Analysis Departing
Log into Crash Analysis Reporting
User ID and Password cannot be longer than 8 characters.
User ID
RACF CREDENTIALS
Password USER ID AND
PASSWORD
Accept The information contained in this system (report, schedule, list, or data) has been compiled from information collected for the purpose of identifying, evaluating, or planning safety enhancements. This product identifies information used for the purpose of developing highway safety construction improvement projects which may be implemented utilizing federal-aid highway funds. Any document displaying this notice shall be used only for those purposes deemed appropriate by the Florida Department of Transportation. See Title 23, United States Code, Section 409.
Log In
Change Password LINK TO CHANGE PASSWORD
FLORIDA DEPARTMENT OF TRANSPORTATION Contact Help: Email Service Desk or call 1-866-955-4357(HELP) Web Policies and Notices Accessibility Statement
Figure 2.1 Access to CAR Online requires RACF credentials.

After a successful login CAR Online displays the disclaimer which users accept during login. A navigation bar is near the top of the screen and a link describing keyboard shortcuts is shown. Short descriptions may appear if the cursor hovers above different items.



# **3.0 General Features**

CAR Online has several features to help users. Users who are familiar with window-based programs will find some similar features in CAR Online. Search, filter, and menu features are available to help users find items.

#### 3.1 Dialog Windows

CAR Online often uses dialog windows. Generally, CAR Online helps a user make selections through these windows which close once the selection is made. A user has several options to exit a dialog window without making a selection. Clicking the "X" icon in the upper left corner of the dialog window will close the window. When available a cancel, close, or reset button will also close the window.





State Safety Office

\$	Select Sa	ved Condition		
	RACF Id:	STANDARD		CLOSE WINDOW ICON
	Seq 🛛 🕇	Description	т	Comments T
	133	Bicyclists		Table sumper of pedalcyclists greater than zero
	131	Fatal Crashes		DF A per of traffic fatalities greater than zero
	132	Pedestrians	DIALOG WI	Total number of pedestrians greater than zero
	135	School Bus related and raining		
	134	Serious Injuries		Total number of incapacitating injuries greater than zero
l				*
				Select Subset Reset Subset Selection

Figure 3.1 Users can close dialog windows without making a selection.

## 3.2 Search, Filters, and Drop-Down Menus

For many selections CAR Online has search and filter features that allow users to browse, filter, search and select items. District, county, route, and other selections often use drop-down menus. Roadway names, roadway IDs, nodes, and other selections commonly involves search and filter features. Users may also use search and filter features to select items like batched location lists and data subset criteria.



Figure 3.2 Drop down menus help users make selections.



SEARC	Select S	aved Condi CER DN Description	tion FILTER OPTIONS	Ţ	Comments	×
	33 131 132	Bicyclists Fatal Cras Pedesthan	Show items with value that: Is equal to		Total number of pedalcyclists greater than zero Total number of traffic fatalities greater than zero Total number of pedestrians greater than zero	*
	135 134	School Bu	Starts with Contains Does not contain Ends with		Total number of incapacitating injuries greater than Select Subset Reset Subset S	zero

Figure 3.3 Search and filter features help users make selections.

## 3.3 Calendar Features

CAR Online has calendar features to help users select dates when needed. Users may enter dates using the text fields. By clicking the calendar icon, users can access other calendar features. From the calendar window users can select a date by clicking on a date shown on the calendar. Users can also select the current date by clicking the date displayed at the bottom of the calendar. To change the time factor, users can click on the calendar title. Available time factors are months, years, and decades. Users can also move up and down by using the arrows in the calendar.





From	1/1/2	2011	(		То	CLICK (I		HANGE THS, YE	TIME ARS,	E FACTOR ETC).	
Г	-0		Jan	uary	2011	]	$\bigcirc$	1			
	Su	Мо	Tu	We	Th	Fr	Sa				
	26	27	28	29	30	31	1				
	2	3	4	5	6	7	8				
L		LICK (M	ONTH	IS, YE	ARS, E	TC).	P	4			
	16	17	18	19	20	21	22				
	23	24	25	26	27	28	29				
	30	31	1	2	3	4	5				
		Curre	ent D	ау, Сі	urren	t Date	2				
				Ľ				CLICK CURR	TO SE ENT D	ELECT DATE.	

Figure 3.4 Several calendar features are available to help users select dates.

#### 3.4 Online Results

Users can view output online in the browser window by clicking the "On-Line Results" button. Different reports have different restrictions limiting the maximum number of displayed records. CAR Online will always provide crash totals. If the output limit is exceeded, CAR Online may also display data to the browser up to the maximum crash limit. For online reports, the maximum crash limit of for "State Roads" reports and "All Roads" reports is 1,000.

#### 3.5 Exporting Results in Excel Format

If preferred, users may output results to the computer as an Excel file by clicking the "Export to Excel" button. CAR Online limits the maximum number of crashes that is output to an Excel file depending on the report being run. CAR Online always provides crash totals. If the output limit is exceeded, it may also provide an Excel file with crashes up to the maximum limit. For exports to Excel, the maximum crash limit for "State Roads" reports is 8,000 and the maximum crash limit for "All Roads" reports is 10,000.



Figure 3.5 Buttons for online results and exporting results to excel are located near the bottom of pages.

# 4.0 State Roads





Users can access data for crashes located on state roads through State Roads reports. If a user selects "State Roads" from the top navigation bar, CAR Online shows a screen for entering report parameters. There are several options for defining locations and it is possible for different options to produce identical results.

GAL	crash analysis	reporting on	line				AFETY OFFICE
Crash Analysis Reporting	A State Roads A	Roads Q Subsets	Crash Analysis	C+ Log Off	User:	Help	
Sparch Ontions (Click or Press	s Snarobar to expand or collaps	State N	Maintained Roadwa	ays			*
Date Range (availabl From 1/1/2013  Show Code Values Instead Location Information:	e 2011 to 2015) To 12/31/2013 of Code Descriptions Exc	lude Ramp Crashes 🛛 E	xclude Influence Crashes	🗖 Use a Subset Co	ndition		
Area Wide By Road	way ID Around A Node	Down A Roadway	Node Number Range	Batch Location S	Selection		
SR/US Or Interstate Hwy	SR V	Route Filters: Dist	rrict Select District	• County - S	elect County - 🔹		
Statewide							
Districts:	and/or Counties						
On-Line Resu	Its Export to Excel	Add to Batch List 5	Save Location Select	ct Saved Location	Reset Form L	ocation Maintenance	

Figure 4.1 State Roads reports gives crash data for state-maintained roads.

#### 4.1 Area Wide for State Roads

Users may select the "Area Wide" option if they are interested in crashes that are located on a state road for an area. The area may be (1) a county, (2) a district, (3) any combination of one or more districts or counties, or (4) statewide. A user may need CAR Online to email the results if the area chosen is statewide.

Area Wide	By Roadway ID	Around A Node	Down A Roadway	Node Number Range	Batch Location Selection	
SR/US Or In	terstate Hwy: SR 🔻	•	Route Filters: D	istrict - Select District	County - Select County -	•
Statewide	•					
Add multipl	e Districts and/or C	ounties				
Districts:						

Figure 4.2 Use the "Area Wide" location option for state road crashes on a road in an area.





#### 4.2 By Roadway ID

Users may select the "By Roadway ID" option if they are interested in crashes that are located on a state road and they know the roadway ID. Users must select at least one route, district, or county before they select a roadway ID. By default the results contain crashes for the entire roadway ID. Users also have the option of choosing a milepoint range for the roadway ID.

Area Wide	By Roadway ID	Around A Node	Down A Roadway	Node Number Range	Batch Location Selection	
Roadway Filte	ers: SR/US Or Int	erstate Hwy: SR 🔹	T Di	strict - Select District	County - Select County -	•
Roadway:			Q			
Milepoint Ran	ge:	From:	<b>Q</b> To:	Q (Optional)		

Figure 4.3 For state road crashes associated with a roadway ID use the "By Roadway ID" location option.

#### 4.3 Around a Node

Users may select the "Around A Node" option if they are interested in crashes on a state road within a specific radius from a node. Users must select a county before they can select a node. The radius can be set in mile (MI) or feet (FT), and the maximum radius that the user may choose is one mile or 5,280 feet.



Figure 4.4 Use the "Around A Node" option for state road crashes in an area near a node.

#### 4.4 Down a Roadway

Users may select the "Down A Roadway" option if they are interested in crashes on a state road between two milepoints. First, a user must select a route (e.g. SR 5, US 1, or I 95). Second, a user must select a "From" roadway ID and milepoint and a "To" roadway ID and milepoint. This is a good option if a user is interested in a road segment that crosses county boundaries.

Area Wide	By Roadway ID	Around A Node	Down A Roadway	Node Number Range	Batch Location Selection
SR/US Or Int	erstate Hwy: SR 🔻	SR 5 🔹	Route Filters: Di	istrict - Select District	County - Select County -
From Roadw	90010000	٩	Milepoint From:	Q	
To Roadway:		Q	Milepoint To:	Q	

Figure 4.5 Use the "Down A Roadway" option for state road crashes on a route like SR 5 or US 1.

#### 4.5 Node Number Range

Users may select the "Node Number Range" option if they are interested in crashes on a state road between two nodes. First, a user must select a route (e.g. SR 5, US 1, or I 95). Second, a user must select a "From" node and a "To" node. Users must choose a county before selecting a node. If a user selects "Specify Distances", they can define offset distances from each node. This is a good option if a user is interested in a road segment that crosses county boundaries.





Area Wide	By Roadway ID	Around A Node	Down A Roadway	Node Number Range	Batch Location Selection
Specify Di	istances				
SR/US Or Inte	erstate Hwy: SR 🔻	•	Route Filters: Di	strict Select District	County - Select County -
Node From:	County:	•	Node Number:	٩	
Node To:	County:	•	Node Number:	Q	

Figure 4.6 Use the "Node Number Range" option for state road crashes on a route between two nodes.

#### 4.6 Batch Location Selection for State Roads

If a user is interested in crashes on state roads at several locations, CAR Online allows users to select a batch of one or more locations. Users can store one or more locations in temporary memory or under their user ID. Users can also load one or more locations stored in temporary memory, saved to their user ID, or saved to another user ID. Each location may have a different date range or a user can use the same date range for all loaded locations by synchronizing the dates. Users may also edit locations and report locations.

Area Wide	By Roadway ID	Around A Node	Down A Roadway	Node Number Range	Batch Location Selection		
Seq	Search Criteria	l					
							*
							-
		Clear List Sa	ve Location List	Load List From Stored Loca	tions Synchronize Dates	Edit Location	Edit Report Options
Notes: Repo	rts will be delivered	as PDF files. Date	Synchronization is ba	ased on the From and To da	tes in the form.		

Figure 4.7 Users can get state road crashes for a batch of locations.

#### 4.6.1 Adding Locations to a Batch List

After setting a location (see Sections 4.1 through 4.5), users can add that location to a batch list by clicking the "Add to Batch List" button near the bottom. A user may add several locations to a batch list. The date range is also stored with each location so a batch list may have several different locations with several different date ranges.





Area Wide	By Roadway ID	Around A Node	Down A Roadway	Node Number Range	Batch Location Selection (2)						
Seq	Search Criteria										
1	FROM:       01/01/2013 TO 12/31/2013       SR#: SR       5       RAMPS INCL         DIST:       INFL INCL         COUNTIES:       CR/05 INCL         R0:       1, S0:       1, Fmt: 2, Rate Calc:       1, Brks:       6, Rate Cat:       null, Trf:       Legs:										
2	FROM: 01/01/ FROM CO/SEC/ TO CO/SEC/	/2013 TO 12/31/201 /SUB: 90 010 000 /SUB: 90 010 000	3 MP: 000.0 MP: 004.5	RAMPS 00 INFL 31 CR/OS	INCL INCL INCL		× Delete				
Notes: Repo	Z       TO       CO/SEC/SUB: 90       010       000       MP: 004.531       CR/OS INCL       X       Delete       -         Clear List       Save Location List       Load List From Stored Locations       Synchronize Dates       Edit Location       Edit Report Options         Notes:       Reports will be delivered as PDF files. Date Synchronization is based on the From and To dates in the form.       Edit Location       Edit Report Options										
		Submit Report Rec	guest Submit Ex	tract Request	Location Mainte	enance					

Figure 4.8 Users can review, edit, and delete any locations in the batch list.

A batch location list shows a sequence number in the "Seq" column for each location. Location settings for each location is shown in the "Search Criteria" column. A user may edit a location by selecting the location and clicking the "Edit Location" button. Clicking the "Delete" button will remove a location from the list. A user may add more locations to a batch list by defining a location (see Sections 4.1 through 4.5) and adding locations to the batch list as mentioned earlier in this section.

#### 4.6.2 Storing Locations

After reviewing the batch list, users my save the list by clicking the "Save Location List" button below the list. Using the "Location Set Selector (Save)" dialog window, users may save the batch location list under an existing name by selecting the name of an existing location list. User may also save the batch location list under a new name by clicking the "Select New Location Set" button. A user may return to the existing location lists by clicking the "Select Existing Location Set" button.

Seleci	New	/ Location Set		
Seq	T	Title	T	
1		test - production -	Batch Locations 01	
			Location Set Selector (Save)	×
			Select Existing Location Set	
Locati	ion C	omment:	New Location Set Title:	
Save		Cancel	Location Comment:	

Figure 4.9 Users may save locations as an existing list or as a new list.



Users may save a single location if they select the "Save Location" button which is near the bottom of the area wide, by roadway ID, around a node, down a roadway, and node number range location options next to the "Add to Batch List" button. If a user saves a location using the "Save Location" button, the "Location Set Selector (Save)" dialog window appears. A user may then save a location under an existing name or under a new name as mentioned earlier in this section.

#### 4.6.3 Loading Stored Locations

Users may load previously saved locations by clicking the "Load List From Stored Locations" button and users may load locations saved under any user ID. Using the "Location Set Selector (Load)" dialog window, users can select a user ID and get locations saved by that user ID. A user may click the "Reset Location Selection" button to restart the process.

Racf Id       Y       First Name       Y       Last Name       Y       I         Reset Location Selection       USER ID       User First Name       User Last Name       I	RACF Id:	USER ID	Q Fetch Location Sets	User Selecto	or			×
Reset Location Selection       USER ID       User First Name       User Last Name       Image: Constraint of the selector (Locad)         Image: Constraint of the selector (Locad)				Racf Id	First Name	т	Last Name	т
User ID     User First Name     User Last Name       Location Set Selector (Load)     ×       RACF Id:     USER ID       Seq     Title       1     test - production - Batch Locations 01	Reset Location Selec	tion		USER ID	User First Name		User Last Name	* E
Location Set Selector (Load)       ×         RACF Id: USER ID       Image: Comparison of the second s				USER ID	User First Name		User Last Name	
RACF Id:     USER ID       Seq     Title       1     test - production - Batch Locations 01		Location S	Set Selector (Load)				×	
		Seq T 1	Title test - production - Batch Locations 01				<b>T</b>	

Figure 4.10 Users can load batched location lists from any user.

#### 4.6.4 Setting Batch Report Options

CAR Online emails crash data to a user if a batch location list is used. A user may click the "Edit Report Options" button to set up or change report options. This action opens the "Detail/Summary Sort and Format Selection, State-maintained Roads" dialog window. The dialog window shows default settings. Users may change report options, sort order, report format, crash rate calculation method, the number of breaks, and override options.



# CAR Online Help

State Safety Office

	г	Crash Data Summary Report
		Crash Data Detail and Summary
Detail/Summary Sort	and Format Selection, State-maintained Roads	X
Report Option:	Crash Data Detail Report (Default)	County, Route Id, Route Seg #
Sort Order:	Roadway Id, Mile Point (Default)	County, Node, Direction, Distance
Format:	Top Line All Breaks, Summary for Total	County, Route Id, Crash Report #
Rate Calc Type:	Calculate Rates as for Segment (Default)	County, Route Id, Crash Date, Rpt #
Max # Breaks:	6	Route Id, Route Seq # (Statewide)
		Full Summary, All Breaks
Override Options	11	Top Line All Breaks, Summary for Total
		Total, Summary Only, No Breaks
Crash Rate Category:	0	Total, Top Line Only, No Breaks
Avg Daily Traffic:	\$	
Number of Legs:		Calculate Rates as for Segment (Default)
		Calculate Rates as for Intersection

Figure 4.11 CAR Online allows users to change batch report options.

#### 4.6.4 Requesting PDF or Excel Results

Users may choose to receive batch reports as PDF files by clicking the "Submit Report Request" button or users may choose to receive batch reports as Excel files by clicking the "Submit Extract Request" button (see Figure 4.8). Users will receive an email with links to the files.

If users click the "Submit Extract Request" button, they have three options. The may choose a crash level extract, a vehicle/driver/passenger extract, or a non-motorist extract.



Figure 4.12. Users can select different levels for extract requests.

#### 4.7 Location Maintenance for State Roads

Users can access the "Location Maintenance" dialog window by clicking the "Location Maintenance" button. Through the "Location Maintenance" dialog window users can review, edit, and delete batch location lists.





Location Maintenance											
T											
	× Delete	Set Dates	*								
			*								
	<b>T</b>	T       X       Delete	T     X     Delete     Set Dates								

Figure 4.12 Users can review, edit, and delete batch location lists.

# 5.0 All Roads

Users may access data for crashes located on local roads or both local and state roads through All Roads reports. If a user selects "All Roads" from the top navigation bar, CAR Online shows a screen for entering report parameters. There are several options for defining locations and it is possible for different options to produce identical results. If users are mainly interested in crashes on state roads, they should use State Road reports (see Section 4.0).



# CAR Online Help

State Safety Office

CA			on-line			llin	DRIVING DOWIN FATALITIES SAFETY OFFICE
Crash Analysis Reporti	ng A State Roads	All Roads Q Sub	sets   High Crash	C+ Log Off	User:	Help	
		All F	Roads or Non-State	e Roads			
Search Options (Click or	Press Spacebar to expand or c	ollapse)					*
Date Range (avai	To 12/31/2013 tead of Code Descriptions	Include Unprocessed Cr	ashes Filter Option: n	<ul> <li>Ill Roadways / Stat</li> <li>Non-State Roadway</li> <li>Non-State Roadway</li> </ul>	e and Non-State Roads /s, Including Crashes With /s, Without State Road As	vin 250 Feet of State Roa sociated Crashes	ıds
Area Wide Road	dways Batch Location S	selection					
	Submit Report Request	Add to Batch List 1	Save Location Sele	ct Saved Location	Reset Location	1 Maintenance	

Figure 5.1 All Roads reports give crash data for local and state-maintained roads.

#### 5.1 Area Wide for All Roads

Users may select the "Area Wide" option if they are interested in crashes that are located on any road for an area. The area may be (1) a county, (2) a district, (3) any combination of one or more districts or counties, or (4) statewide. CAR Online emails the results after the user clicks the "Submit Report Request" button at the bottom of the All Roads screen.

Area Wide	Roadways	Batch Location Selection
Statewide	9	
Add multiple	e Districts and	d/or Counties
Districts:		
Counties:		

Figure 5.2 Area wide reports give crash data for any local and state roads in an area.

#### 5.2 Roadways

Users may select the "Roadways" option if they are interested in crashes on (1) an intersection of roadways or (2) on a roadway. If a user is interested in crashes on an intersection of roadways, the text boxes for



"Roadway Name" and "Intersecting Roadway Name" must be filled. If a user is interested in crashes on a roadway, only the text box for "Roadway Name" must be filled.

Area Wide	Roadways	Batch Location Selection			
County:		Select County • (required)			
Roadway Na	me:		Q (required)	Text Location: Begins With •	
Intersecting I	Roadway Name:		Q	Text Location: Begins With 🔻	

Figure 5.2 Roadways reports give crash data for any intersection of local or state roads.

Users have multiple options for filling in these text boxes. Users can type all or part of a roadway name in the text box. Users can also search for a roadway name by clicking the search icon. Once a text box is filled in, users choose a "Text Location" option. Text location options are (1) exact match, (2) begins with, and (3) contains.

#### 5.3 Batch Location Selection for All Roads

If a user is interested in crashes on all roads at several locations, CAR Online allows users to select a batch of one or more locations. Users can store one or more locations in temporary memory or under their user ID. Users can also load one or more locations stored in temporary memory, saved to their user ID, or saved to another user ID. Each location may have a different date range or a user can use the same date range for all loaded locations by synchronizing the dates. Users may also edit locations and report locations. Batch location for All Roads reports is the same as batch location selection for State Roads reports. See Section 4.6 for details.

# 6.0 Subsets

Generally CAR Online gives a user all crash data for any location chosen. However a user interested in a portion of that data can receive a data subset. For example instead of receiving data on crashes on a state road in a county, a user can choose to receive data on pedestrian-related crashes on that state road in that county. In this example pedestrian-related crashes are a subset.

The subset option is available for State Roads reports and All Roads reports. Users may select "Use a Subset Condition" (see Figures 4.1 and 5.1) to get crash data subsets for a location. Through the "Subsets Management" page users can define, save, and load subset conditions.



# CAR Online Help State Safety Office

				Sub	set Managemen	nt						
łame	Ŧ	Description				T	Туре	Ŧ	Level	r		
DAL_YR		CALENDAR YEAR					TEXT		CRASH	Cre	ate Condition	đ
CRSH_NUM		CRASH NUMBER					TEXT		CRASH	Cre	ate Condition	
EVNT_CTY_PLCE_NM		EVENT CITY PLACE	NAME				TEXT		CRASH	Cre	ate Condition	
EVNT_CTY_LMT_CD		EVENT CITY LIMIT C	ODE				CODE		CRASH	Cre	ate Condition	
TR_ADDR_NUM_ID		STREET ADDRESS	UMBER IDENTIFI				TEXT		CRASH	Cre	ate Condition	
Seq Subset Condition									Default			

Figure 6.1 Users can create, save, or load subset conditions to be used with State Roads or All Roads reports.

#### 6.1 Defining Subset Conditions

Users benefit from being familiar data fields before defining subset conditions. The traffic crash form is a good resource. Users can use filter features to find data fields that interest them. The "Subset Management" screen (see Figure 6.1) also allows users to sort data fields by name, description, type, and level. There are four types of data fields – text, code, number, and date. There are also four levels of data fields – crash level, vehicle level, non-motorist level, and driver or passenger level.

Users begin defining subset conditions by clicking the "Create Condition" button in the "Subset Management screen. Through the "Create Condition" window, users can define a condition. The type of data field determines the type of "Create Condition" window shown. Users accept a condition by clicking the "Accept Condition" button. Users may create several conditions. The "And" and "Or" buttons on the "Subset Management" screen help users define more complex data subsets.



Figure 6.2 CAR Online shows a different "Create Condition" dialog window depending on the type of data field.





#### 6.1.1 Simple Example

Suppose a user wants to define a subset for pedestrian crashes. First, the user searches for pedestrianrelated data fields. In this case, the user finds the "TOT\_OF\_PEDST\_NUM" data field for the total number of pedestrians. Second, the user defines the condition. Here, the user defines a condition where the total number of pedestrians is greater than zero. Finally, the user accepts the condition and it is added to the list of conditions.

Element Name:	TOT_OF_PEDST_NUM	Roads	Q Subsets	I■ High Crash	C+ Log Off	User:	Help	
Operator: rst Numeric Consta	> (Greater Than) V tant: 0.00		Sub	set Manageme	nt		STEP 2: DEFIN THE CONDITIO	IE DN.
Name	Cancel Description				Туре Т	Level	T	
TOT_OF_PED	DST_NUM TOTAL NUMBER OF PE	DESTRIAN			Show items with val	ue that:	Create Condition	
					Contains	· ·		
	ACCEPT		STEP	1: FIND	Contains pedest And v			
TEP 3: A HE CONI	ACCEPT IDITION.		STEP THE	1: FIND DATA FIELD.	Contains pedest And V Is equal to			
TEP 3: A HE CONI	ACCEPT DITION.		STEP THE	1: FIND DATA FIELD.	Contains pedest And v Is equal to Filter	V Clear	efault	
TEP 3: A HE CONI	ACCEPT DITION. Subset Condition (CRSH.TOT_OF_PEDST_NUM > 0)		STEP THE	1: FIND DATA FIELD.	Contains pedest And  V Is equal to Filter	Clear D	efault Set X Delete A	dvanced
TEP 3: <i>P</i> HE CON	ACCEPT DITION. Subset Condition (CRSH.TOT_OF_PEDST_NUM > 0)		STEP	1: FIND DATA FIELD.	Contains pedest And V Is equal to Filter	Clear	efault Set X Delete A	dvanced

Figure 6.3 A user can define a condition in three basic steps.

#### 6.1.2 More Complex Example

Suppose a user wants to define a subset for pedestrian crashes and bicyclist crashes. First, the user searches for pedestrian-related data fields. In this case, the user finds the "TOT\_OF\_PEDST\_NUM" data field for the total number of pedestrians and "TOTOF\_PEDLCYCL\_NUM" data field for the total number of cyclists. Second, the user defines the conditions. Here, the user defines a condition where the total number of pedestrians is greater than zero and another condition where the total number of cyclists is greater than zero. Third, the user accepts the conditions and they are added to the list of conditions. Finally, the user creates a condition for pedestrians greater than zero "AND" cyclists greater than zero. The user may also create a condition for pedestrians greater than zero "OR" cyclists greater than zero.





Name		T	Description		۲	Туре	T	Level	T			T
TOT_OF_F	PE Seq	Subset Cor	ndition	RIAN		NUMBER		CRASH		Create Cond	ition	~
TOTOF_P	EC 1	(CRSH.TO	T_OF_PEDST_NUM > 0)	NUMBER	_	NUMBER	_	ORADII	1	Create Cond	ition	
	2	(CRSH.TO	TOF_PEDLCYCL_NUM > 0)						Γ.			
	1											
				SELECT				SELECT	L			
Seq	Subset Cond	dition		CONDITIONS AND And	_		С	ONDITIONS AND	Dr			-
1	(CRSH.TOT	OF_PEDLCY	CL_NUM > 0)	CLICK "AND"				CLICK "OR"		× Delete	Advanced	*
2	(CRSH.TOT	OF_PEDLCY	CL_NUM > 0)					Set		× Delete	Advanced	
3	((CRSH.TOT	TOF_PEDLCY	CL_NUM > 0) AND (CRSH.TC	TOF_PEDLCYCL_NUM > 0))				Set		× Delete	Advanced	
4	((CRSH.TOT	TOF_PEDLCY	CL_NUM > 0) OR (CRSH.TO)	OF_PEDLCYCL_NUM > 0))	_		_	Cot		× Delete	Advanced	
And	Or			Clear Condition Set	Sa	ave Conditi	on S	Set Load Condition Set	Lo	ad Standard	Condition S	Set

Figure 6.4 A user can define complex conditions using AND and OR operators.

#### 6.1.3 Advanced Options

Users may define advanced options for any condition by clicking the "Advanced" button. Users may then use the "Advanced options" window to define advanced options. Different settings are available to users depending on which option type is selected.

Adv	anced options ×
Crit (CR	ion: 1.CAL_YR = '2014')
c	tion Types: Operator Form Section
	ccept Cancel
Advanced options	× Advanced options ×
Criterion: (CRSH.CAL_YR = '2014')	Criterion: (CRSH.CAL_YR = '2014')
Option Types:  Operator  Form Section Selected value exists inSelect Table	-   Option Types:  Operator  Form Section Driver/Passengers must exist for vehicles
Assent	Accept Cancel

Figure 6.5 Users may define advanced options for any condition.

#### 6.2 Loading Standard Subset Conditions

Users may load standard condition sets by clicking the "Load Standard Condition Set" button. Through a dialog window users may choose a standard condition set and click the "Select Subset" button. Clicking the "Reset Subset Selection" button will cancel the process.



# CAR Online Help

State Safety Office

	C	AR of	n-lin	e			18,	DRIVING DOWN FATALITIES	
0	ach Analysis	Crash and	All Roads	g on-line	Calor Off	r.	- Help	SAFETY O	FFICE
	Select Sa	ved Condition	Annoads			×	<b>U</b> help		
	RACF Id:	STANDARD					-		
Na C/	Seg T	Description		Comments		T	T	Create Condition	-
CF	133	Bicyclists		Total number of pedalcyclists	greater than zero	*		Create Condition	(10)
EV	131	Fatal Crashes		Total number of traffic fatalities	greater than zero			Prests Confition	
EV	132	Pedestrians		Total number of pedestrians g		Create Condition			
ST	134	Serious Injuries		Total number of incapacitating	injuries greater than zero			Create Condition	
Se							Default		
				Select Subset	Reset Subset Select	ction			*
An	dOr			Clear Condition Set	Save Condition Set	Load Con	dition Set Load	Standard Condit	tion Set

Figure 6.5 Users can load standard conditions.

#### 6.3 Loading User Subset Conditions

Users may load condition sets stored under any user ID by first clicking the "Load Condition Set" button. In the "Select Saved Condition" dialog window users either enter a user ID into the text or search for a user ID. Finally, users click the "Fetch Subsets" button and may select a condition set in the "Select Saved Condition" dialog window. Clicking the "Reset Subset Selection" button will cancel the process.

ser Selector	r		×		Reset Subset Selection
Racf Id	First Name	▼ La	st Name T	4	Reset Subset Selection
USER ID 1	First Name 1	Select Sa	ved Condition STEP 3: SELECT	A CONDITION SET.	×
USER ID 2	First Name 2	PACE M	LISER ID		
USER ID 3	First Name 3	NACP IG:	OSEN ID		
USER ID 4	First Name 4				
USER ID 5	First Name 5	Seq 🔻	Description	T Comments	т
		16	test - production - Bicyclist/Pedestrian Crashes	Test subset for production; Crash pedestrian counts > 0.	es with bicyclist or
		14	test - production - Fatal Traffic Crashes	Test subset for production; total to	affic fatalities > 0
		13	test - production - Non-Fatal Crashes	Test subset for production; total fa	atalities = 0
Select User	Cancel	15	test - production - Saved Standard Subset	Test subset for production; saved	a standard subset

Figure 6.6 A user may load condition sets saved by any user.



## CAR Online Help State Safety Office

## 6.4 Saving User Subset Conditions

If users click the "Save Condition Set" button, they can save a condition set to their user ID. Users may save a condition set to an existing subset or they may save a condition set as a new subset.

ubset C	Condition Set Selector				×	
Select N	ew Subset Set			_	-1	
Seq T	Title	T	Comments	Т		
16	test - production - Bicyclist/Pedestrian	Crashes	Test subset for production; Crashes with bicyclist or pedestrian counts > 0.		^	
14	test - production - Fatal Traffic Crashes	;	Test subset for production; total traffic fatalities > 0			
13	test - production - Non-Fatal Crashes		Test subset for production; total fatalities = 0			
15	test - production - Saved Standard Sub	set	Test subset for production; saved a standard subset			
		Subset Cond	ition Set Comment:			
Save	Cancel					~
		Save	ancel			

Figure 6.7 Users can save condition sets to an existing name or a new name.

# 7.0 High Crash

Users may access High Crash Analysis Reports if they select "High Crash" from the navigation bar. High Crash Analysis Reports include average crash rate reports, high crash rate reports, and reference rate reports for intersections and road segments on the Florida state road system. For each type of report a user may extract crash rate data by county, district, or statewide. All reports are exported to an Excel format.

Crash Analys	is Reporting	A State Roads	All Roads	Q Subsets	I■ High Crash	G Log Off	User:	Help		
Search Options			·	High Cra	ash Analysis R	eports	In Se In	ersection Aver egment Averag	age Crash Rates e Crash Rates I Crash/Reference	
Report Type Rate Span	Report Type       Intersection Average Crash Rates       Comment       Segment High Crash/Reference         Rate Span       1 Year       High Year       2013       2012       2011       2009         Statewide									
Districts:					🗖 Include	All Counties for	District(s)			
Counties:										
Note: The ou	utput of this rep	oort will be presented	d in an Excel spre	Export t adsheet.	Reset	Form				

Figure 7.1. Several reports based on crash rate are included in High Crash Analysis Reports.



## 7.1 Intersection Average Crash Rates

Users may go to "Report Type" and select "Intersection Average Crash Rates" if they are interested in the average crash rates of intersections. Average rates for intersections are grouped by the crash rate class category and the number legs. Users may choose from 1-year to 5-year rate spans. A rate span is the number of years used to compute average crash rates. For example, a user may select a 3-year rate span if they want the average crash rates for 2011 through 2013. Similarly, a user may select a 2-year rate span for the average crash rates from 2011 through 2012.

Search Options	5	
Report Type Rate Span □ Statewide	Intersection Ave	rage Crash Rates         Comment           High Year         © 2013         2012         2011         2010         2009
Districts: Counties:	🗆 AII	Include All Counties for District(s)
Note: The or	utput of this repo	Export to Excel Reset Form art will be presented in an Excel spreadsheet.
Figure 7.2	. By choos	ing "Intersection Average Crash Rates" as the report type, a user may export a list of average crash rates for all types of intersections in an area.

To choose the highest or most recent year to be included in the report, a user selects a "High Year" from the available years. Users also choose the areas for which average crash rates are calculated. Choices range from county, district, and state levels.

#### 7.2 Segment Average Crash Rates

If interested in the average crash rates of state road segments, users may select "Segment Average Crash Rates" from the report type section. Users may choose from 1-year to 5-year rate spans, which are the number of years used to compute average crash rates. User also select the "High Year", which is the highest or most recent year to be in the report. Users also choose any counties or districts for which average crash rates are calculated (statewide is also available). Average rates for road segments are groups by the crash rate category and are output to Excel.

Search Options	s	
Report Type Rate Span	Segment Averag	e Crash Rates ▼ Comment High Year
Districts: Counties:		Include All Counties for District(s)
Note: The o	utput of this repo	Export to Excel Reset Form t will be presented in an Excel spreadsheet.

Figure 7.3. Users may export a list of average crash rates for all types of road segments in an area by choosing "Segment Average Crash Rate" as the report type.

#### 7.3 Intersection High Crash/Reference

By choosing "Intersection High Crash/Reference" as the report type, users may generate two kinds of reports -(1) a report listing intersections with the highest crash rates when compared to an average crash





rate, or (2) a report listing the crash rates of intersections within a chosen area. Users may choose from 1year to 5-year rate spans, which are the number of years used to compute average crash rates. The "High Year" is the highest or most recent year to be included in the report. User may also choose the areas for which the crash rates of intersections are listed.

Search Options										
Report Type	Intersection High Cras	sh/Reference 🔻	Comment							
Rate Span	1 Year 🔹 High	fear ▼ High Year								
Statewide										
Districts:										
Counties:										
Limit By:	Set Limiter Values to	Zero								
Rural	Min Confidence Pct	95.00	Min Crash Count	8						
Suburban	Min Confidence Pct	99.00	Min Crash Count	8						
Urban	Min Confidence Pct	99.95	Min Crash Count	8						
Note: Reducing	any of the limiting va	lues below the defaul	t value will cause the repo	ort to be considered a reference report rather than a high crash report.						
Note: The out	Export to Excel Reset Form Note: The output of this report will be presented in an Excel spreadsheet.									

Figure 7.4. Exporting a list of intersections with high crash rates or exporting a reference list of intersection crash rates is possible through the "Intersection High Crash/Reference" report type.

Users can control the number of intersections included on the reports by adjusting the limits. Users decrease the list of intersections by selecting higher minimum confidence percentage limits ("Min Confidence Pct") and higher minimum crash counts ("Min Crash Count"). Users may also increase the list of intersections by selecting lower values for "Min Confidence Pct" and lower values for "Min Crash Count". Using limits that are at or above the default values will result in a high crash report. Choosing limits that are below the default values will generate a reference list of intersections.

## 7.4 Segment High Crash/Reference

Users may generate a report listing road segments with the highest crash rates when compared to an average rate. Users may also generate a reference list of segments and their crash rates. Both options are available through the "Segment High Crash/Reference" option for the report type. Users choose a 1-year to 5-year rate span, which is the number of years used to calculate average crash rates. Users select the "High Year" as the highest or most recent year to be included in the report. Users also select the areas for which rates are calculated and listed.

Users also choose limits for the reports. If a user selects limits that are equal to or greater than the default values, a high crash report is created. If a user selects limits that are less than the default values, a reference report is generated. Segment lists get smaller by selecting smaller limits, but lists get larger by selecting larger limits.





Search Options	i							
Report Type Rate Span Statewide Districts: Counties:	Segment High Crash	Reference  Vear  2013  2012	Comment ( 0 2011 (0 2010 (0 20	09				
Limit By:	Set Limiter Values to	Zero						
Rural	Min Confidence Pct	95.00	Min Crash Count	8				
Suburban	Min Confidence Pct	99.00	Min Crash Count	8				
Urban	Min Confidence Pct	99.95	Min Crash Count	8				
Note: Reducing	g any of the limiting va	lues below the default va	alue will cause the repo	ort to be consid	ered a reference r	eport rather than a	a high crash report.	
Note: The ou	utput of this report wil	ll be presented in an E	Exp	ort to Excel	Reset Form			

Figure 7.5. Using the "Segment High Crash/Reference" report type, users may export a list of road segments with high crash rates or users may export a reference list of segment crash rates.

# 8.0 Tables

Users interested in a drill-down analysis of crash data may select "Tables" from the navigation bar. We recommend that users have locations saved beforehand. If a user wants to drill down in "State Roads", then they must have a "State Roads" location saved (see section 4.6 for details). If users want to drill down in "All Roadways", they must have an "All Roads" location saved (see section 5.3 for details). We also recommend that users have subset conditions saved prior to starting if needed (see section 6.0 for details).

Crash Analysis Reporting	A State Roads	All Roads	Q Subsets	High Crash	Tables	🕞 Log Off	LUser:	Help	
				Tables			•		
				Tables					
Search Options (Click or Press	s Spacebar to expand o	r collapse)							
Location Context Saved Location (Required)	State Roads	All Roadways			•		ľ		
Saved Subset (Optional)	;							Q	
		USERS <u>N</u>	<u>/UST</u> CHO	OOSE A SA	VED LOO	CATION.			
		USERS	S MAY US	E SUBSET	CONDIT	IONS.			
	-						-		
Add Base Element Re	move Selected Eler	Clear El	ement Selection	Export to Excel	Reset Pag	le			

Figure 8.1. A drill-down analysis is possible using the "Tables" option.



#### 8.1 Selecting a Location

After selecting a location context (either "State Roads" or "All Roadways"), users click the search icon to select a location set. Location sets may contain one or more specified locations and each location may have a different date ranges (review sections 4.6.3 and 5.3 for details regarding loading locations). However, only one location may be selected for a drill-down analysis using Tables.

	tate Roads All Roads Q Subs	ets   High Crash	C+Log Off Log User:	Help
		Tables		
Search Options (Click or Press Space	par to expand or collapse)			*
Location Context Saved Location (Required)	State Roads     All Roadv	/ays	<u></u>	
Carea Cabber (optional)				Q
Loc	ation Set Selector (Load)			>
RJ	ACF Id:	Q Fetch Loca	tion Sets	
	Reset Location Selection			
_				
	Selected Element Clear Element Sele	ction Export to Excel Reset P	age	

Figure 8.2. Users must select locations that are either state roads or all roadways.

#### 8.2 Table Elements

Users control a drill-down analysis by adding or removing table elements. Table elements are traffic crash characteristics like the date, vehicle details, person details, and so on. Users click buttons near the bottom to add, remove, and clear table elements. These buttons activate after users select a location.





Search Options (Click or Press Spaceba	r to expand or collapse)					*
Location Context	State Roads     All Roadways	;				
Saved Location (Required)	Example (state roads) (Seq: 1)			Q		
	FROM: 01/01/2011 TO 12/31/2 DIST: COUNTIES: BROWARD	013 SR#:		RAMPS INCL INFL INCL CR/OS INCL		
Saved Subset (Optional)					Q	
Add Base Element Remove Se	elected Element Clear Element Selection	n Export to Excel	Reset Page			
Figure 8.3. Afte	er selecting a state roa	d location,	a user ma	v add or re	move elements.	

To add an element, user click the "Add Base Element" button. Now users must select a table level and a table element. Table levels refer to the different levels of traffic crash reports. Table levels are crash level, vehicle level, driver or passenger level, and non-motorist level. Users can use filter features to look for table elements (see section 3.2 for details on search and filter features). After choosing a table element, users click the "Add" button. Users select the "Close" button to cancel the process. When CAR Online finishes pulling the data, it will be visible at the bottom of the page.

Select a table level						
Element Na	Crash Non-Motorist Vehicle Driver/Passenger	n	Element Selector Table Level: Crash		DRIVER/PASSENGER	
			Element Name	Description		т
			CAL_YR	CALENDAR YEAR		
			EVNT_CTY_LMT_CD	EVENT CITY LIMIT CODE		
			EVNT_CRSH_DT	EVENT CRASH DATE		
			DIRINTCD	CODE FOR DIR INTRSCT ROAD		
			EVNT_FORM_TYP_CD	EVENT FORM TYPE CODE		
			ARR_TMS	ARRIVAL TIMESTAMP		
Add Close	2		DHSRDSYS	DHSMV ROAD SYSTEM IDENTIFIER		
			CONTYDMV	DEPT.MOTOR VEHICLES COUNTY NO.		
			IMPCT TYP CD	IMPACT TYPE CODE		

Figure 8.4. Users select table level and table elements using the "Element Selector" window.

If a user wants to drill down further, they click on a table element value and that begins the process of selecting another table element. If a user wants to remove a table element, they click on the name and use the "Remove Element Selection" button.



# CAR Online Help

State Safety Office



Figure 8.5. Clicking element values starts another level of drilling down. Selecting element names and the removal button deletes a level of the drill-down analysis.





# 9.0 Glossary of Terms

CAR: Crash Analysis Reporting.

High Year: The highest or most recent year included in a high crash/reference report.

Intersection: A location at which one or more roadways intersect.

Leg: A roadway entering an intersection.

**Min Confidence Pct**: The minimum confidence level percentage is the degree of certainty to which CAR Online calculates a crash rate that is higher than the average rate by crash rate category.

**Min Crash Count**: The minimum crash count is the minimum number of crashes needed for an intersection or segment to be included in a high crash/reference report.

Node: An intersection or other landmark feature located on the state road system.

**RACF**: Resource Access Control Facility. A security system by IBM that controls access.

Rate Span: The number of years for which a crash rate is calculated. The years are consecutive.

**Rural**: An area with open drainage that is outside of a city or urban area.

Segment: A length of roadway on the state road system.

Subset: One or more conditions that define a group or subset of crashes.

Suburban: An area with open drainage that is inside of a city or urban area.

**Urban**: An area with curbs and gutters.