



# SunGuide®

## Report Information



1. **Report Name:** Incident Detection System Alert Types Summary Report

2. **Purpose of the Report:**

To provide District ITS Engineer and TMC Supervisors with statistical information on various types of Incident Detection System alerts.

The report has six sections:

- Section 1: Alert Distribution by Type and Action Taken
- Section 2: Alert Usefulness and Validity by Alert Type
- Section 3: Operator Performance Summary
- Section 4: Alert Summary by Time of Day
- Section 5: Alert Action Details:
- Section 6: Grouped alert statistics: broken down by alert type

3. **Data Type Definition:**

**Action Details:** the reason, or additional information (further detail) provided by the operator (or system) to support the action taken

**Action Taken:** the action taken by the operator (or sometimes the system) when handling the alert. Alerts that disappear without the operator taking action are classified as "System Resolved"

**Alerts with Event Association:** the number of alerts (by type) that were used to create or were associated with new/current events

**Alerts without Event Association:** the number of alerts (by type) that were not used to create nor were associated with current events

**Alert Type:** the overall type of alert; typically, this is the subsystem responsible for creating the alert

**Average Alert Resolution Time:** the average amount of duration between the alert being generated and available to be handled until the alert is handled by an operator (or the system)

**Operator ID:** The ID of the operator as entered when logging into the system

**Useful Alert:** An alert that is not handled by the operator as a false alarm

**Valid Alert:** An alert that is not a false alarm is a valid alert; also, false alarm alerts are also considered valid if their Action Details are not one of the following:

- No Apparent Cause
- Poor Video
- Rain on Lens
- Roadway Reflection
- Shadow
- Too Much Sky
- Sign

#### 4. Input Parameter Data:

**pf\_header\_center\_id:** the name of the center running the report

**pf\_dt\_from\_datetime:** the start date range of alert records to report on.

**pf\_dt\_to\_datetime:** the end date range of alert records to report on

#### 5. Database Fields Obtained:

The data from this report comes from the table IDS\_INCIDENT\_ALARM

The following fields that are used are:

**ALARM\_ID**  
**CENTER\_ID**  
**DETECTED\_TIMESTAMP**  
**CAUSE**  
**RESOLVED**  
**RESOLVED\_TIMESTAMP**  
**OPERATOR**  
**CONFIRMED**  
**EVENT\_ID**  
**VP\_ALARM\_ID**  
**TSS\_ALARM\_ID**  
**ACTION\_TAKEN**  
**ACTION\_DETAILS**  
**WEATHER\_ALERT\_REF\_ID**  
**EXTERNAL\_EVENT\_REF\_ID**  
**FHP\_INCIDENT\_REF\_ID**

#### 6. What is the algorithm/formula used in the report:

These are simple summations and averages performed by the crystal reports engine on the data from database fields. The data obtained from the database is all alert records whose DETECTED\_TIMESTAMP is within the start and end time range provided as parameters to the report template upon execution.