



SIGN DATA MANAGEMENT

QUARTERLY: MAY 2010

OREGON DEPARTMENT OF TRANSPORTATION

DID YOU KNOW. . .

Randy Camp started working with the Data Warehouse within the last four months, mostly out of curiosity, and has made some substantial headway. At first he found the initial page overwhelming, but following the tutorial document (see **Points of Interest**). He followed the steps in the Data Warehouse Initial Use Users Guide, to see the “meat and potatoes” of the Data Warehouse. This gave him more confidence and he ventured out to see what other information he could find. He focused on one category of errors and found that a large group of errors were caused by a highway naming error. With this knowledge, he contacted Joe Searcy with a bulk change request. Within a few days, 500 highway naming errors were fixed. As Randy continued to search, he found another

error where someone had entered highway 101, by selecting a few, he realized right away from the names of the cities that instead of highway 101 it should have been highway 001 or Interstate 5. He said “it was a no brain-er.” He used other indicators, like the milepost to ensure he was correct. At the end of his session, he fixed 700 errors, only

having to research about 14 of them.

As we look for patterns within the data and become more familiar with the data warehouse, the process will simplify keeping data in check, enabling us to spend more time focusing on keeping the sign data up to date.



POINTS OF INTEREST

To get a head start using the Data Warehouse, check out the Data Warehouse Initial Use Users Guide that can be found on the SAM share drive (\\Scdata2\sign_assest_management\Data Warehouse).

You may notice Districts 9,10 & 11 data is missing . District 11’s data is currently being mapped to the Sign Database and will be incorporated . The ETA is TBA.

INSIDE THIS ISSUE:

REQUEST FOR WORK UPDATE	2 - 3
WELCOME TO SIGNS	4
CAPACITY CHECK	4
CONNECT TO YOUR DATA	4
Q & A	5
DATAWAREHOUSE GRAPHS	6

Request for Work (RFW's) for the ODOT Sign Database (Updated 03/23/2010)

RFW#	STATUS	OPENED	CLOSED	DESCRIPTION OF WORK
20469	Cancelled	4/7/09	6/5/09	Change facing direction opposite to what is currently shown in D 2B database.
20471	In Progress	4/7/09		Change the facing direction opposite to what is currently shown in the D 2B database. D 2C data does not need to be changed D 2A & D 2B only.
20546	Cancelled	4/22/09	5/14/09	Part of data for D 7 missing. Not in current database.
20681	Completed	5/19/09	3/19/10	<ol style="list-style-type: none"> 1. Update Standard look up table. 2. Install date for Posts. 3. Standard hwy sign reports, doesn't show # page's. (ie:1 of 10 pages.) 4. Standard sign report doesn't show # of signs. 5. Combine major & minor sign sq. ft. summary w/estimated replacement costs for signs by hwy. Align grand total & district # at the end of report. 6. Display district & state hwy # throughout the entire Custom signs list report. 7. Delete report for est. replacement costs for major & minor signs.
20716	Completed	5/28/09	10/21/09	Move Hwy 341 milepost 23.54-47.22 from D 13's sign database to D 12.
20770	Completed	6/8/09	10/21/09	<ol style="list-style-type: none"> 1. Move Hwy 081 milepost 20.46 - 24.67 from D 3 sign database to D 2B database. 2. Hwy 194 m.p.0.00 - 7.00 needs to be in D 4 sign database & Hwy 194 milepost 7.00 - 7.56 needs to be in D 3 sign database. 3. Hwy 330 milepost -1.36 - 0.00 needs to be in D 12 sign database & milepost 0.00- 40.84 needs to be in D 13
20896	In Progress	6/26/09		Laptop process for docking & updating data to district server locations.
21791	Completed	11/23/09	2/24/10	Access to ODOT Sign Database. Please provide Gaylan Morris & Naomi Birch access to the D 7 ODOT sign database. Please provide Lajuana Baldwin access to the D 7 & D 8 ODOT sign database.
21878	Completed	12/10/09	2/22/10	Randy Camp & Lanty Jarvis have lost access to their district database.
21882	Completed	12/11/09	2/2/10	Eliminate duplicate shortcuts & paths to district 1-14 databases.
21918	Completed	12/11/09	2/22/10	Hwy 330 milepost -1.36 - 0.00 needs to be in the D 12 sign database & milepost 0.00- 40.84 needs to be in the D 13 sign database.
22124	Completed	1/25/10	2/24/10	Give access to only existing users of the following AD group the (Table Maintenance) feature in the Sign Inventory System. R2Sign_Admin_R1,System. R2Sign_Admin_R2,System. R2Sign_Admin_R3,System. R2Sign_Admin_R4,System. R2Sign_Admin_R5.

Continued: Request for Work (RFW's) for the ODOT Sign Database (Updated 03/23/2010)

22124	Completed	1/25/10	2/24/10	Give access to only existing users of the following "AD group" the (Table Maintenance) feature in the Sign Inventory System. R2Sign_Admin_R1,System. R2Sign_Admin_R2,System. R2Sign_Admin_R3,System. R2Sign_Admin_R4,System. R2Sign_Admin_R5.
22237	Completed	2/10/10	3/19/10	The ODOT Sign Inventory Database generates numerous reports. The report "Estimate for Replacement of Custom Signs Report" is duplicating installation and square footage calculations. It appears that it's occurring at locations where custom sign legend information was entered on multiple lines in the database. Need to modify report so it doesn't duplicate installations or sign square footage calculations.
22281	In Progress	2/17/10		The ODOT Sign Inventory Databases (R2Sign) for D 9, 10 & 11 (Region 4) reside on the Klamath-Falls Server [\\s-kfalls-1\NetApps\]. We would like to move the D 9 database [R2SignR4D9] to The Dalles server and the D 10 database [R2Sign R4D10] to the Bend server. We anticipate this will improve connectivity issues.
22394	Not Yet Started	3/9/10		Have the associated route number show up when the highway is selected in the New Installation Screen.
22396	Not Yet Started	3/9/10		1. Add a form in the data entry screen where you can input a milepost range on a certain highway and change installation date for all of the signs in that section. 2. When searching in the data entry screen, have the ability to bring up signs within 1/4 mile each direction of the milepost that was selected.
22399	Not Yet Started	3/9/10		In the New Installation Screen show only the highways associated with the District in the drop down menu.
22404	Not Yet Started	3/9/10		Route Shields M1-1, M1-5, Chevron Signs W1-8I, and Added Lane Symbol Signs W4-3 are showing up as Custom Signs.
22477	Not Classified	3/23/10		The ODOT Sign Inventory Database produces a report named "Replacement Costs and Sign Square Feet Summary for Major and Minor Signs". This report is a district-wide summary. We would like to add a feature where you can produce a summary by Highway and Milepost Range within the district.



WELCOME TO SIGNS



I am pleased to announce that Mike Kimlinger accepted the position of State Sign Engineer in the Technical Services Division. Mike was hired at ODOT in November of 2008 and had worked at the Alaska Department of Transportation for five years prior to that.

Before his experience with the government, Mike worked in the private sector. He has Bachelors degrees in Physics (Montana State University, 1980) and Engineering (Portland State University,

2003). Outside of work, Mike enjoys spending time in his home and yard where he and his wife are usually involved in a remodel of one sort or another. He also likes to spend time with family and friends, having barbeques and playing cards. When he is not around the house, he enjoys traveling to places like Hawaii for scuba and snorkeling. If you have any questions for, or just want to get to know Mike, your local Sign Standard Expert, you can contact him at 503.986.3603 or Michael.J.Kimlinger@odot.state.or.us.

WHAT DID WE LEARN FROM THE CAPACITY TEST?

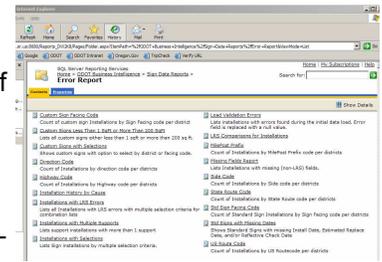
On April 22, 2010, we performed a capacity check of the Data Warehouse. Approximately 30 participants assist us from various locations and sections inside ODOT.

Although we started off with some technical difficulties, the capacity check was a success.

What we learned:

- Twenty plus individuals can access the same page at the same time, and the page will still open in under a minutes time.
- When people are accessing different pages, at the same time the Data Warehouse only slows minimally.
- We recognized that it does take time for each page to load depending on the amount of data that is being pulled from the Warehouse.

We want to give a special thanks to all of those who participated, especially those who have little connection to this project. We appreciate your support and the opportunity for us to learn more. Thank you!



CONNECT TO YOUR DATA & INFORMATION



The amount of available data for signs continues to grow! While we are transitioning thru gathering, cleansing and preparing for a possible home in *TransInfo*, we want to ensure you are able to find the data. The place is the HMI Sign Data Warehouse. To get there, copy and past this link into your browser:

<http://ssrs.odot.state.or.us:8080/Reports/DW2K8>. Select "enter" and follow this sequence path: Select ODOT Business Intelligence > Sign Data Reports. (Note: There is the **Data Warehouse Initial Use Users Guide**, See Page 1 under **Points of Interest**.)

A Sign share drive has

been created. You will find meeting minutes and documents from SAM meetings. If you are unsure if you have access, ask your supervisor, otherwise follow the attached link:

SAM Share: \\Scdata2\sign_asest_management

Q&A—YOUR QUESTIONS ANSWERED

Question: *Where do I start? I try to use the Data Warehouse and I get overwhelmed and lost in the STUFF!*

Answer (Randy Camp): *The first time I went to the webpage, I was incredibly overwhelmed. There was a document prepared by Asset Management Integration that helps by giving you a step-by-step introduction so you can see the basics of the Data Warehouse. This way you can get a foot-hold on what you are doing, and then can take a more informed stab at the other data.*

Question: *If we are traveling in the northbound direction on a highway and we have a highway guide sign facing us, what do you enter into the database for the direction the sign is facing?*

Answer: In this example, the guide sign would be facing the opposite direction that the northbound car is traveling on the highway. The sign, in this instance, would be facing

Southbound.

Question: *Can we use a laptop computer to gather information in the field, bring the laptop back to the office and load the sign data into a copy of the sign database on the server?*

Answer: Yes, this can be done. ODOT Computer Tech's came up with a process the end of March. Districts 7 and 12 involved in a pilot to test the new procedure. We anticipate an update on their experiences within 2 to 3 weeks. (See the Sign Data Collection & Inventory Database Users Guide for State Highways.)

Question: *Is there a way to mass populate some of the new required fields in the database (i.e.: Routes, Roadway ID)?*

Answer: Traffic Section has worked with IS/TAD to have some database queries written. This gave us the

ability to do mass populating of various fields within the sign database. The roadway ID is a default of "1" and we are currently working on routes.

Question: *A new sign is installed; when I started entering the milestone data into the database, I recognized it placed the sign out of sequence. What is more important, sequence or milestone?*

Answer: Sequence is more important. The Sign Asset Management Integration Team (SAMIT) decided that "Data collection and data placement should first be by sequence, and second by milestone".

Can You Help Us Answer These Questions?

1. **Should double-sided signs be counted as one or two signs?**
2. **Are we using GPS devices to collect data and what do we need to know if we are?**
3. **What information can be shared on the status of the "future" database/sign module for *TransInfo*?**

Send your questions, answers and comments to Joe Searcy (Herbert.J.Searcy@odot.state.or.us). Answers will be in the next issue & may be discussed at upcoming SAM and SAM-IT meetings.



SIGN - DATA WAREHOUSE
USERS BULLETIN

Contacts

Randy Camp
SAM-IT Chair
Phone: 503.957.3651
E-mail: Randy.Camp@odot.state.or.us

Terry Jones
Hwy Information Program & Planning
Leader
Phone: 503.986.3369
E-mail: Terence.J.JONES@odot.state.or.us

Joe Searcy
Technical Services—Traffic Design
Specialist
Phone: 503.986.3601
E-mail: Herbert.J.Searcy@odot.state.or.us

Scott King
Asset Management Integration Analyst
Phone: 503.986.3157
E-mail: Scott.W.King@odot.state.or.us

Albert C. Meynders
Asset Management Integration Analyst
Data Management Bulletin Author
E-mail: Albert.C.Meynders@odot.state.or.us



Total LRS Errors for the State

Process Date	Rows Processed	Rows with Errors	Percent W/ Errors
2/10/2010	82,056	45,726	56%
3/2/2010	81,737	45,170	55%
4/10/2010	81,849	2,696	3%

Note: LRS errors consist of errors related to location (Hwy-NO, RDWY-ID, MLGE-Type, and OVLAP-MLGE_CD). If there are any errors within the row, it will only reflect as one error. There are multiple fields per row, so if there is more than one error per row, it will only show up as one error.

Total LRS Errors by District

