

TO: County Engineers, City Representatives, and Consultants  
Tammi Bell Iowa DOT - Local Systems tammi.bell@dot.iowa.gov

CC: District Local Systems Engineers, Service Bureau  
and Office of Local Systems

FROM: Office of Local Systems

SUBJECT: Iowa's Pavement Management Program

DATE: March 9, 2009

Please see the following memo sent on behalf of the Center for Transportation Research and Education (CTRE). If you have any questions, please do not reply to this email. Instead, you may contact Inya Nlenanya at [inya@iastate.edu](mailto:inya@iastate.edu) or 515-294-2373.

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This is the annual Iowa Pavement Management Program request for Participation.

This link provides detailed information concerning the program:  
[http://www.iowadot.gov/local\\_systems/mailling/2009/march/08\\_ipmp\\_update.pdf](http://www.iowadot.gov/local_systems/mailling/2009/march/08_ipmp_update.pdf)

This link is the survey form:  
[http://www.iowadot.gov/local\\_systems/mailling/2009/march/ipmp\\_version\\_6.pdf](http://www.iowadot.gov/local_systems/mailling/2009/march/ipmp_version_6.pdf)

Thanks,

Gail Nordholm  
Office of Local Systems  
515-239-1528  
[gail.nordholm@dot.iowa.gov](mailto:gail.nordholm@dot.iowa.gov)

Note: Documents are in Adobe Acrobat's pdf format. If you do not have the Adobe Acrobat Reader software, you can download it free of charge at <http://www.adobe.com/products/acrobat/readstep.html>.

Mailings are available at the Local Systems Weekly Mailing web address [http://www.iowadot.gov/local\\_systems/mailling/main\\_mailing.htm](http://www.iowadot.gov/local_systems/mailling/main_mailing.htm)

## IOWA PAVEMENT MANAGEMENT PROGRAM Update and Request for Services

The Iowa Pavement Management Program (IPMP) provides information and tools that assists state and local transportation agencies in making decisions about spending roadway maintenance and construction funds. The IPMP has been in implementation and operation since 1999 having already completed the major research tasks (GIS database development, distress data collection, pavement management software selection, and distress data delivery). IPMP continues to provide training workshops on the GIS tools and dTIMS pavement management software.

The following sections provide an overview of current work and future plans for the IPMP.

### Distress Data Collection – 2009

The IPMP distress data collection is based on a two-year cycle. By the end of 2007, six full cycles of distress data collection were completed for the federal aid eligible roadways throughout the state. The Iowa DOT funded data collection for the counties' non-federal aid paved roads from 2002 through 2005, so counties currently interested in collecting their non-FAE roads need to contract with CTRE for these services.

Starting in 2006, distress data collection was funded for federal aid eligible roadways in specific portions of Iowa only. The decision to participate in the data collection effort was left to individual MPOs and RPAs. All MPOs and RPAs participating in the program for the 2009 are shown in Figure 1.

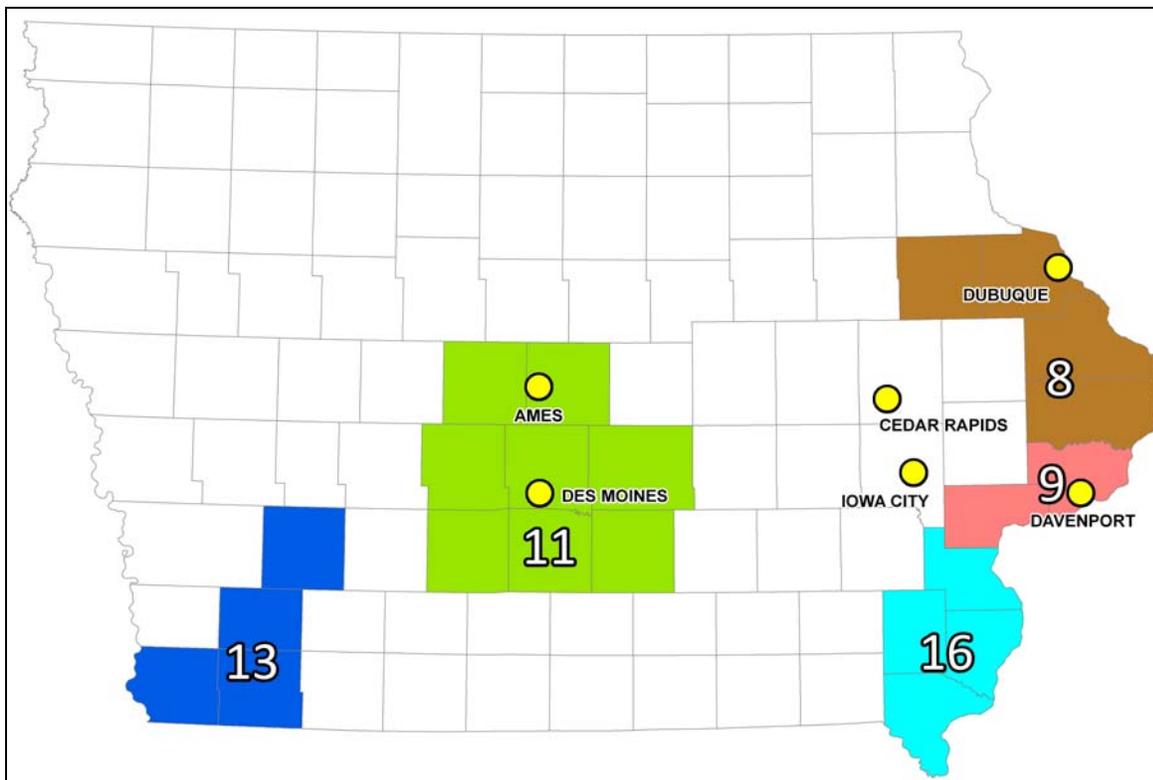


Figure 1. 2009 IPMP Data Collection

The 2009 data collection will include all federal aid eligible roadways in the following areas:

- RPA 8 (all cities and counties, including the Dubuque MPO)
- RPA 9 (all cities and counties, including the Davenport MPO)
- RPA 11 (all cities and counties, including the Ames and Des Moines MPOs)
- RPA 13 (all cities and counties)
- RPA 16 (All cities and counties)
- Cedar Rapids MPO (cities of Cedar Rapids, Marion, Hiawatha, Robins, and Fairfax)
- Iowa City MPO (cities of Iowa City, Coralville, North Liberty, Tiffin, and University Heights)

Since 1999, local agencies already participating in the IPMP distress data collection program have been given the option of adding the rest of their paved miles (non-federal aid eligible) to the data collection effort at an extra cost. The IPMP was able to negotiate with the vendor to give cities collecting the extra miles the same cost advantages as those received for the entire state system. More than sixty (60) cities and counties have had distress data collected so far.

Any city or county can request collection of distress data for 2009 on roadways not already funded. This would apply to:

- Cities or counties included in the participating regions who would also like their non-federal aid eligible roadways collected.
- Cities or counties no longer in a participating region who would like all or a portion of their federal aid eligible and/or non-federal aid eligible roadways collected.

If it is unclear whether your agency is already included in the 2009 distress data collection cycle, please contact CTRE for clarification.

For more information about this program, please complete the attached form and mail or fax it to CTRE before March 30, 2009. The cost for data collection is \$75 per mile for city streets and \$60 per mile for county roads. There will be an additional cost for CTRE (based on the number of miles added) to set up the system, manage the data collection, and deliver the data. The service request form for additional information can be accessed through the IPMP web site at: <http://www.ctre.iastate.edu/ipmp/services>.

Counties and cities also have the option of receiving videolog data, as discussed in the following section.

## Video log

Working with the data collection vendor, Roadware Corporation, CTRE is continuing to make video logging capabilities available to local agencies. Roadware can provide a videolog of the right-of-way (one view or multiple views) and pavement images for the roads where distress data are being collected. In 2009, CTRE will make this service available in two forms.

**Visidata:** Through the VISIDATA software, video and data are integrated into a single desktop application with features such as location based video playback, SQL capability, and multiple camera images. VISIDATA provides the ideal vehicle for driving your network without leaving your office.

Currently, CTRE has an agreement with Roadware to provide this service to local transportation agencies participating in the IPMP at a cost of \$12 per mile for one right-of-way view and an additional \$12 per mile for the pavement images or additional views. A copy of the VISIDATA software can be purchased for \$550. This will provide transportation agencies with continuous coverage (approximately 300 images per mile) of their highway network integrated with the condition data that Roadware already collects.

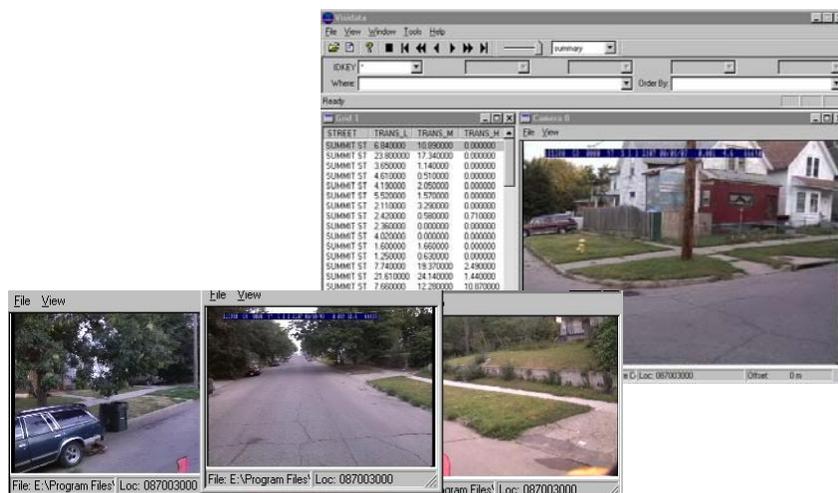


Figure 2. VISIDATA: One or Multiple Right-of-Way Views

**VisiWeb:** This is a new service from CTRE that will allow anyone, using any web browser, to view the right of way images via an internet/intranet connection. It provides an ideal solution for remote deployment of videolog video and data and also packed with the full features of VisiData. CTRE will provide a demo of all the miles collected in 2008 and these agencies will be provided with VisiWeb access of their paved network for only \$250. This is a one time introductory cost to those cities and counties that participated in the IPMP in 2008. Future participation cost will be based on mileage and web server access fees.

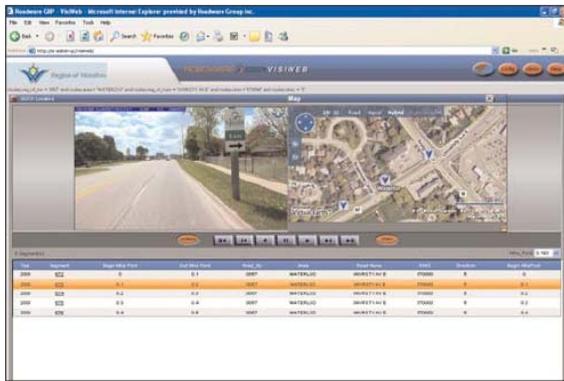


Figure 3. Screenshot of VisiWeb as seen in Internet Explorer v6.0

In the past, several transportation agencies have purchased video log information. If you are interested in videolog information, please indicate your interest by filling and returning the attached form to CTRE or contacting us through the IPMP web site at:

<http://www.ctre.iastate.edu/ipmp/services>.

### **dTIMS Pavement Management Software**

dTIMS was selected by the IPMP task force to help local and regional agencies work with the pavement condition information to develop maintenance and rehabilitation programs and assist in long range planning and needs determination. Approximately fifty agencies (cities, counties, MPOs, and RPAs) have purchased dTIMS so far. To purchase dTIMS, local agencies pay a one-time cost of \$500 and an additional \$850 per year for maintenance and updates. A number of copies of dTIMS are still available. If you are interested, please contact CTRE or request the software on the IPMP website, and we can make arrangements for the purchase.

### **Training**

Training workshops covering the pavement management software and the IPMP GIS tools were conducted in previous years. A dTIMS training session is scheduled for February 10 in Ames. Other training sessions will be planned for 2009 as requested. Locations of workshops will vary depending on the level of interest. If training is requested by sufficient numbers to merit a workshop, information on these workshops will be sent out via the Iowa DOT weekly mail and our web site.

### **IPMP Web Site**

The IPMP project web site contains information about the IPMP tasks, distress data collection, a training workshop schedule, a frequently asked questions (FAQ) section, a request for information section, and other related information. The IPMP project web site address is

<http://www.ctre.iastate.edu/ipmp>.

## Iowa Pavement Management Program

### Additional Data Collection

(Please return by March 30, 2009)

Date:

Agency Name:

Contact Person:

Address:

City:

State/Zipcode

Phone Number:

Fax Number:

E-mail Address:

My region is participating in the 2009 data collection effort, and we are interested in collection of additional data on our paved system.

YES  NO

My region is not participating in the 2009 data collection effort, but we are interested in collection of data on our paved system.

YES  NO

We are interested in obtaining video log information.  
(For VisiData, indicate delivery on CD or DVD)

VisiData  VisiWeb  NONE  
 DVD  CD

We are interested in dTIMS PMS Software.

YES  NO

Do you have in-house GIS Software?

YES Type   NO

Please complete and mail, fax, or e-mail to:

Inya Nlenanya  
CTRE  
ISU Research Park  
2711 South Loop Drive, Suite 4700  
Ames, Iowa 50010-8664

Phone: (515) 294-2373  
Fax: (515) 294-0467  
E-mail: [inya@iastate.edu](mailto:inya@iastate.edu)