If you are reading this, then you are successfully seeing the webinar video. In addition to audio on the webinar, we have opened a phone conference line to allow attendees to listen and ask questions directly: **866-823-7699**. Please use either the webinar audio or conference line, but not both (will produce feedback).

Audio also available via phone: **866-823-7699**
For assistance, call: **814-865-5355**
Participant phone lines will be muted until after initial presentation.

Use Chat box to ask Questions.

Audio also available via phone: 866-823-7699
For assistance, call: 814-865-5355
Purpose:
Provide background, overview, and additional reference material on worksite assessments.

Many new faces in the CD and DGLVR world never had any Assessment training.
- Where did my potential sites come from?
- What is this “dirty dozen” evaluation?
- Is there any reference material for it?
- Should I be using it?

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• **Background**

• **Process Overview**

• **Current Use**

• **Assessment and LVRs**
What is a “Worksite Assessment”

• Identification of segment of road contributing to stream pollution

• Evaluation of that segment using established criteria
WORKSITE: An identified segment of unpaved road where runoff is affecting a stream.
**ASSESSMENT**: Process of inspecting an unpaved road to determine where runoff is affecting a stream.

Turning **NON-POINT SOURCE** pollution into...

**POINT SOURCES**
And providing quantification of pollution potential! **WORKSITES!**
<table>
<thead>
<tr>
<th>Year</th>
<th>Description</th>
<th>Sites</th>
</tr>
</thead>
<tbody>
<tr>
<td>1997</td>
<td>TU Assmt in HQ/EV (900 sites)</td>
<td></td>
</tr>
<tr>
<td>2000</td>
<td>CD Assmt Statewide (12,000 sites)</td>
<td></td>
</tr>
<tr>
<td>2008</td>
<td>CD Assmt Statewide (16,000 sites)</td>
<td></td>
</tr>
</tbody>
</table>
1996-1998 TU Volunteer Assessment

- Protected Watersheds only
- 900 worksites statewide

**HISTORY**
- 1997 TU Assmt in HQ/EV (900 sites)
- 2000 CD Assmt Statewide (12,000 sites)
- 2008 CD Assmt Statewide (16,000 sites)

- **HIGH QUALITY**
- **EXCEPTIONAL VALUE**
  - INITIAL T.U. WORKSITES (HOTSPOTS)

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[Map showing 900 sites]
1996-1998
TU Volunteer Assessment

- Established “verified need” for Program, and justified funding.
- Were only sites funded in first few years.
- More extensive assessment needed.

Worksite Assessments

Background

**HISTORY**
- **1997** TU Assmt in HQ/EV (900 sites)
- **2000** CD Assmt Statewide (12,000 sites)
- **2008** CD Assmt Statewide (16,000 sites)

■ HIGH QUALITY
■ EXCEPTIONAL VALUE
  - INITIAL T.U. WORKSITES (HOTSPOTS)

900 sites
2000 CD Statewide Assessment

- Used first version of GIS, introduced “dirty dozen”.
- Had to ask twps. where unpaved roads were!
- ALL watersheds assessed.
- ~12,000 sites identified and assessed
2000 CD Statewide Assessment

- 12,000 sites formed basis of projects for Program.
- Formed basis for CD allocations.
- By 2006-2007, some CDs requesting opportunity to re-assess.
2007-08
CD Statewide Assessment

- Voluntary assessment period.
- Increased to 16,000 worksites.
- The basis for those yellow sites you see in GIS today!

**Background**

**HISTORY**
- 1997 TU Assmt in HQ/EV (900 sites)
- 2000 CD Assmt Statewide (12,000 sites)
- 2008 CD Assmt Statewide (16,000 sites)
• **Background**

• **Process Overview**

• **Current Use**

• **Assessment and LVRs**
Once you have identified a “worksite”...

...You need criteria to evaluate it
The “Dirty Dozen”
- 12 factors – evaluate “pollution potential”
- Assigns score from 0 (no impact) to 100 (worst impact)

<table>
<thead>
<tr>
<th>Assessment</th>
<th>Grant Application</th>
<th>Contract</th>
<th>Amendments</th>
<th>Completion Report</th>
<th>Photos</th>
</tr>
</thead>
<tbody>
<tr>
<td>Assessment Date: 5/20/2008</td>
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<tr>
<td>Road Sediment in Stream: Moderate</td>
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<tr>
<td>Wet Site Conditions: Flow in Ditches</td>
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<td>Road Slope/Grade: 5 - 10%</td>
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<td>Average Canopy Cover: Moderate</td>
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<tr>
<td>Off-ROW Impacts: Minimal</td>
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</tr>
</tbody>
</table>

Worksite Assessment Score: 62
Modified Assessment Score: 65
The “Dirty Dozen”
- In field trainings held in 2008.
- Assessment Scores are NO LONGER part of allocation formulas.
- Purpose here is just to familiarize you and show you where to go for more info.

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For assistance, call: 814-865-5355
The “Dirty Dozen” Resources:

FIELD GUIDE  2-page QUICK REFERENCE

Dirt and Gravel Road Maintenance Program
2007-08 Unpaved Road Assessment Guide
Example Factor: Road Sediment in Stream

**Road Sediment in Stream:** Overall sediment delivery to stream. Remember that intermittent streams count too.

- **None (0):** No road sediment in stream. Runoff is buffered before entering stream. (Should it be a worksite?!)?
- **Slight (5):** Any material from the road area makes it to the edge of the stream
- **Moderate (10):** Ditches or ditch outlets drain directly into stream. Road sediment may be visible in channel
- **Severe / Stream Encroachment (15):** Significant road area drains to stream. Include fords, sediment deltas, stream cutting into road, etc.
**Road Bank Stability:** Stability of bank on uphill side of road. Consider slope and vegetative or rock cover.

- **Stable** (0): Minimal erosion. Low to moderate slope, good cover (i.e. <30% slope with 60%+ cover).
- **Fair** (3): Some erosion potential. Moderate slope with some cover (i.e. 10% - 60% slope with 50% cover).
- **Poor** (7): Bank is eroding. Low to moderate slope with little cover (i.e. 20% - 60% slope with <40% cover).
- **Unstable** (10): Obvious bank erosion. Steep slope with little cover (i.e. >30% slope with <30% cover).
The "Dirty Dozen" Resources:

FIELD GUIDE 2-page QUICK REFERENCE

Documentation Online:
www.dirtandgravelroads.org

- PA Program Resources
- Program Resources
- Blank Forms – scroll to bottom
• Background

• Process Overview

• **Current Use**

• Assessment and LVRs
Assessments

- No current plan for another statewide assessment.

- Assessment scores NO LONGER a factor in CD Allocations.

- Assessment are not required (but many CDs use it in their ranking criteria)
Assessments

- ~75% of sites have existing assessment, most are 8-16 years old.

- Most CDs use “Dirty Dozen” in ranking criteria.

### Example Dirt, Gravel, and Low-Volume Road Grant

**Application Ranking 8/13/14**

<table>
<thead>
<tr>
<th>SEVERITY OF PROBLEM</th>
<th>Score</th>
</tr>
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<tbody>
<tr>
<td>Road Surface Condition</td>
<td></td>
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<tr>
<td>Wet Site Conditions</td>
<td></td>
</tr>
<tr>
<td>Road Sediment in Stream</td>
<td></td>
</tr>
<tr>
<td>LVR EVALUATION: Pavement Condition</td>
<td></td>
</tr>
<tr>
<td>Slope to Stream: &lt;30%</td>
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</tr>
<tr>
<td>Distance to Stream: &gt;100′</td>
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**Select type of application**
- Unpaved (Dirt and Gravel)
- Paved (Low Volume Road)

If you use assessment score in ranking, you should re-evaluate instead of relying on 8 to 16 year old data

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Assessments

- CDs can add and assess potential sites to GIS at any time. Please notify CDGRS/SCC if you plan to do any kind of significant assessment effort.

- Old potential sites can be combined, moved, lengthened, or deleted in GIS as necessary.
- Background
- Process Overview
- Current Use
- Assessment and LVRs
With exception of “road surface condition” LVR and D&G Assessments are identical:

c. Road Surface Condition
   i. **LVR EVALUATION:** Pavement Condition:  good-0  fair, some cracking-5
      Poor, cracking, unevenness-7  Damaged-10  Severely Damaged-15
   ii. **D&G EVALUATION:** Hard Gravel-0  Mixed Stone-5  Soft Stone-7
       Mixed stone/dirt/dust-10  Severe Dust-15
- Did you notice in GIS?

  - Unpaved worksites need a “potential” site first.

  - LVR worksites don’t have “potential” sites, they are made directly on LVRs.

  - Because there is no historical “assessment” of LVRs.
There is no current or planned LVR Statewide Assessment

WHY NOT?

- No comprehensive statewide traffic count exists to tell us which roads are Low Volume.
- That leaves ~60,000+ miles of potential LVRs.
- Estimated 4-5 person-years to complete assessment, not including doing traffic counts!

Create LVR worksites for new contracts. Assessment is needed if it is part of your ranking criteria.
## Worksite Assessments

### Process Overview

**Questions?**

### Assessment

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