Topics

- Background
- Identified sites (Tribes)
- Monitored x-ings (video)
- Analyzed video (interactions)
- Reviewed data (partners)
- Implementing Counter-M’s
- Evaluating Counter-M’s

Report shows that pedestrian safety is a major concern on Minnesota's American Indian reservations

More residents get around on foot, often on well-traveled roads

By Kelly Smith | FEBRUARY 18, 2019 — 5:25PM

Hwy. 169 runs through the Mille Lacs Indian Reservation. It’s a busy highway and a popular path for reservation residents to take.
MnDOT Strategic Directions

Minnesota GO
A Collaborative Vision for Transportation

TOWARD ZERO DEATHS
MINNESOTA WALKS
December 2016

A framework for action for creating safe, convenient and desirable walking and rolling for all.

Minnesota’s Walking and Bicycling Data Collection Report
Annual Data from 2014 to 2017
Research Potential

MN Walks - Priority Pops.
- Small Rural Communities
- Children and Youth
- Native American Populations
- People with Disabilities
- Older Adults
- Urban, lower income populations

MN People Counting
- Limited Rural & Pedestrian Data
- Not as Simple as a Screenline
- No Best Practices
- Warrants vs. Risk Exposure
- Implement Data-Driven Decisions
- Connect People & Places
Communities

- **BOIS FORTE**
  - Vermilion Social Center & Clinic/Dental Facilities

- **GRAND PORTAGE**
  - Grand Portage National Monument

- **FOND DU LAC**
  - Fond du Lac Resource Management Division
  - Fond du Lac Indian Reservation

- **MILLE LACS**
  - Grand Casino Mille Lacs
  - Grand Portage Band of Ojibwe
  - Mille Lacs Indian Museum and Trading...
Data Collection Methods
Findings

<table>
<thead>
<tr>
<th>Criteria</th>
<th>Data</th>
</tr>
</thead>
<tbody>
<tr>
<td># of Sites</td>
<td>10</td>
</tr>
<tr>
<td>Days of Video</td>
<td>11 – 20 days</td>
</tr>
<tr>
<td>Total People</td>
<td>33 – 2728 people</td>
</tr>
<tr>
<td>Ave Xings / Day</td>
<td>3 – 137 people</td>
</tr>
<tr>
<td>Max Xings / Day</td>
<td>8 – 210 people</td>
</tr>
<tr>
<td>Xings w/ Interaction</td>
<td>9% - 65%</td>
</tr>
</tbody>
</table>

Spatial Context and Risk:
- Number of lanes
- Lane width
- Bike & ped facilities
- Bike & ped networks
- Vegetation
- Motor vehicle speeds
- Lighting
- Origins and destinations
- Population distribution
TH 169 in Mille Lacs

- 136 People / Day
- 4 People / Day
TH 169 in Mille Lacs

TH 169 near Mille Lacs Casino – A photo collage of people traveling to destinations

Gap in the fence that 35x more people use than the x-walk about an 1/8mi south
TH 61 in Grand Portage

SCHOOL & DAY CARE

GAS & FOOD

CASINO & LODGE

HOUSING
TH 61 in Grand Portage

Highway 61 at Blaze’s Pit Road – A photo collage of people traveling to destinations

Highway 61 at Stevens Road – A photo collage of people traveling to destinations
Big Lake Road in Fond du Lac

- In Block - Community Center, Police & Public Health
- In 1 Mile - High School & several Government Centers
- In ½ mile - Gas, Food & Housing
CR 104 in Bois Forte

1 mile – Casino & Housing

200ft – Govt. building, playground, Community Center

Desire Line

Housing

Underutilized crossing and pavement

40ft - Boys and Girls Club

Govt. building, playground, Community Center
Meetings

Partners:
• Tribal Reps
• Counties
• MnDOT Districts
• State Aid
• Research Team

Discuss:
• Collected Data
• Anecdotes & Stories
• Potential Countermeasures
• Coordination – lots of overlap in plans & projects
• Funding options
• Plan and execute implementation
• Evaluate – people volumes, and speed studies
Safety Countermeasures

- Lower speed limits
- Narrow travel lanes
- Bollards & paint
- Mini roundabouts
- Local traffic mgmt. plans
- Indicate motorist is entering a “people corridor”
Outcomes & Next Steps

**Mille Lacs** – $300,000+ Sidewalk and HAWK system funding. Construction in 2018 & 2019.


**Fond Du Lac** – Coordinating with County and MnDOT on upcoming Projects.

**Pre and Post Data Collection & Evaluation Ongoing**
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Thank you!