

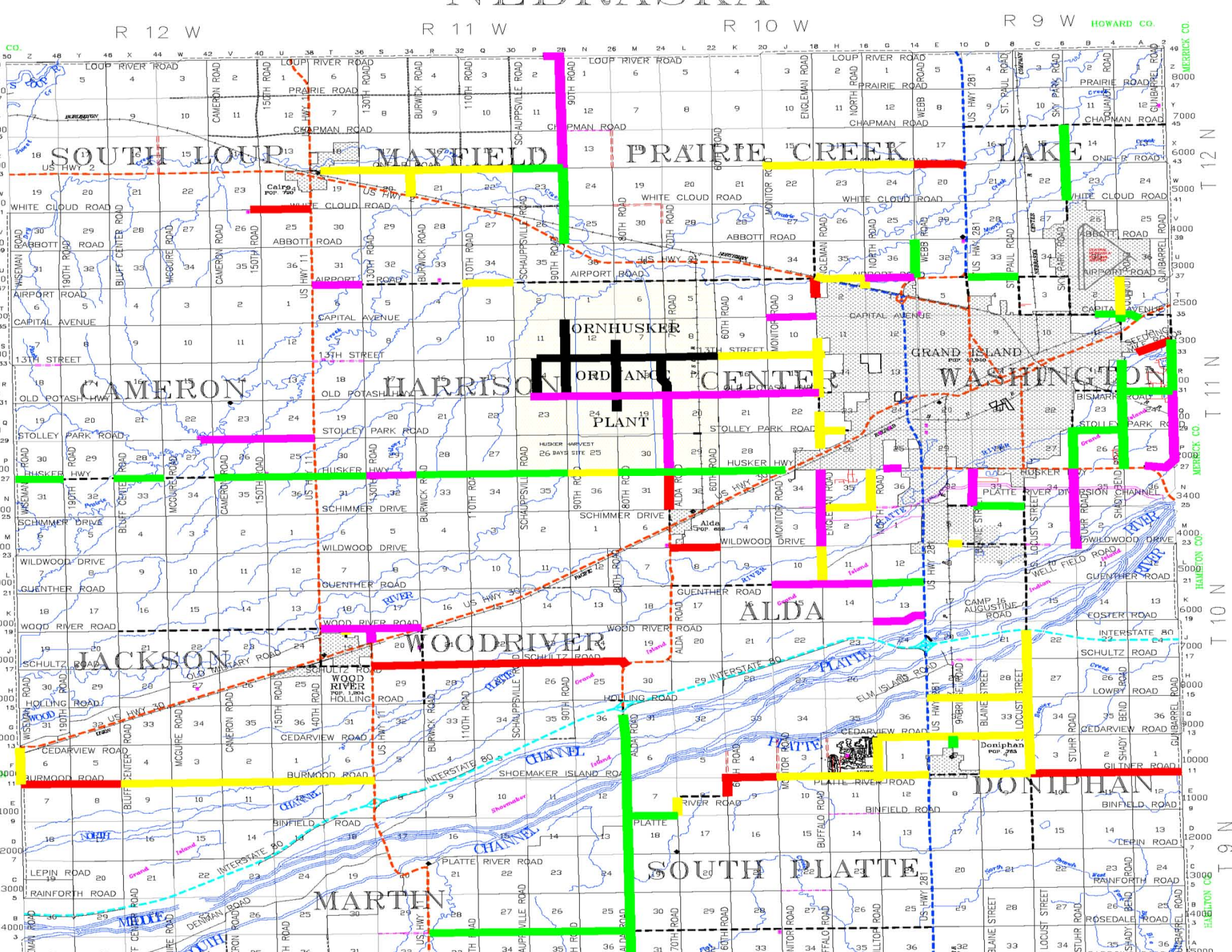
# Hall County Nebraska

## Asphalt “De-Paving” Program - 2010



# Current Hall County Road Conditions







total miles of county road  
629 miles of gravel road  
184 miles of asphalt road

total county bridges  
200 bridges under 20 feet long  
186 bridges over 20 feet long

area of Hall County is 23 miles by 24 miles  
353,439 total acres of land area or 552 square miles

7 total estimated Hall County population 2009  
9,198 total estimated rural Hall County population 2009  
84% urban population and 16% rural population

184 Miles of Asphalt Road:  
10 Miles are currently scheduled for a recycling or return to gravel project.  
20 Miles are currently more than 20 years since last overlay or construction.  
40 Miles are currently 15 to 20 years old since last overlay or construction.  
30 Miles are currently 10 to 15 years old since last overlay or construction.  
The remaining 40% of Hall County Paved roads are in Good Condition

l Hall County Road budget  
Average annual Road Budget - \$3,000,000  
Average annual asphalt budget - \$400,000  
Concrete Annual Budget - \$25,000



# Causes?

Larger Agriculture Equipment

Larger Over-the-road trucks

Larger Construction Equipment

Higher Traffic Counts

Increased Pavement Age

Less funds to Maintain

# Hall County Agriculture Statistics

average size of farms: 531 acres  
average value of agricultural products sold per farm: \$222,452  
average value of crops sold per acre for harvested cropland: \$300.56  
average total farm production expenses per farm: \$194,284  
percentage of cropland as a percentage of land in farms: 67.91%  
percentage of harvested cropland as a percentage of land in farms: 86.48%  
average market value of all machinery and equipment per farm: \$151,296  
percentage of farms operated by a family or individual: 83.36%  
average age of principal farm operators: 52 years  
average number of cattle and calves per 100 acres of all land in farms: 24.01

Hall County Acres – 353,439

Corn, Wheat, Soybeans Harvested Acres – 192,791 – 54.5% of all of Hall County

Corn for grain: 156,892 harvested acres

Wheat for grain: 474 harvested acres

Soybeans for beans: 35,425 harvested acres

average an average of 150 bushels per acre and 56 pounds per bushel of Corn

23,533,800 total bushels of corn

1,317,892,800 total pounds of corn or 658,946 tons of corn transported

on rural Hall County Roads in trucks that average 30 ton when loaded with  
13 ton of grain will make over 50,000 transport trips one way.

average an average of 40 bushels per acre and 60 pounds per bushel of Soybeans

1,417,000 total bushels of Soybeans

85,020,000 total pounds of Soybeans or 42,510 tons of Soybeans transported



# ger equipment





ger equipment





Solutions?



# Complete Removal and Replacement





# and Overlay





# Place Recycling



# Milling machine uses:

- De-paving

- Patching

- Milling Bridge Approaches

- Subgrade stabilization



inding Asphalt base:





After gravel over ground asphalt base



- Less Dust
- Less Maintenance
- Less Gravel

Doesn't get muddy during a rainy season



ore:



er:







er 1" Skin Patch Overlay:





Before:







After Grinding:





After Grinding and Graveling:





Alternatives?

Warning Signs, Weight Restriction Signs,  
Complete Removal:





**Fairbank Equipment**





When is Enough really  
ENOUGH?























QUESTIONS??