

2011 Construction Conference



CAL J. GENDREAU
CONSTRUCTION
SERVICES ENGINEER

2010 Review



- Mission: ‘Providing a transportation system that safely moves people and goods’
- 2010 \$483M New Contracts
- 2010 Stimulus Projects \$88M

New Employees (2)



Engineering staff hired since January 2010

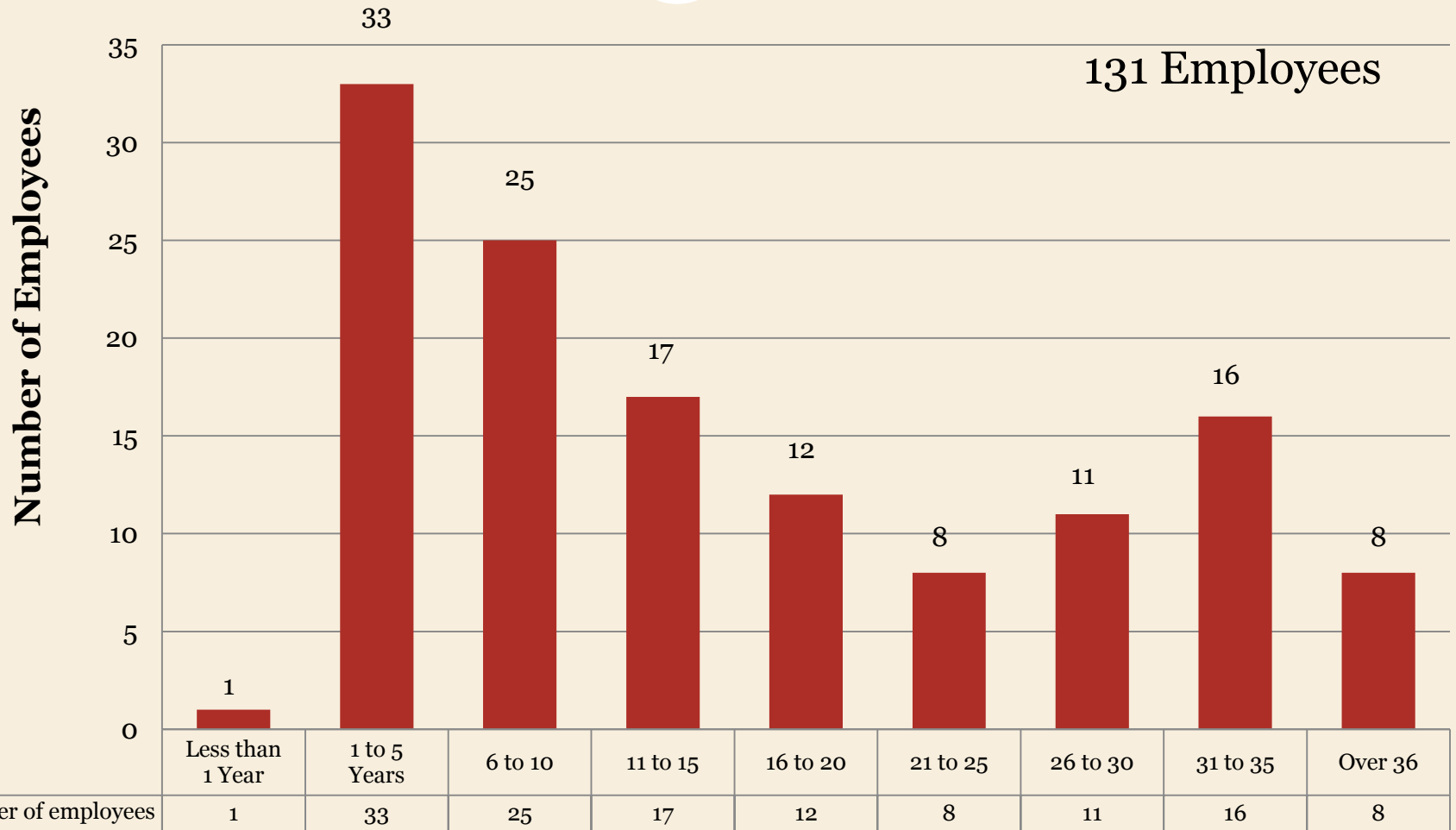
- Construction Services: 1 engineering technician II
- Fargo District: 1 engineering technician II

Engineering Special Forces

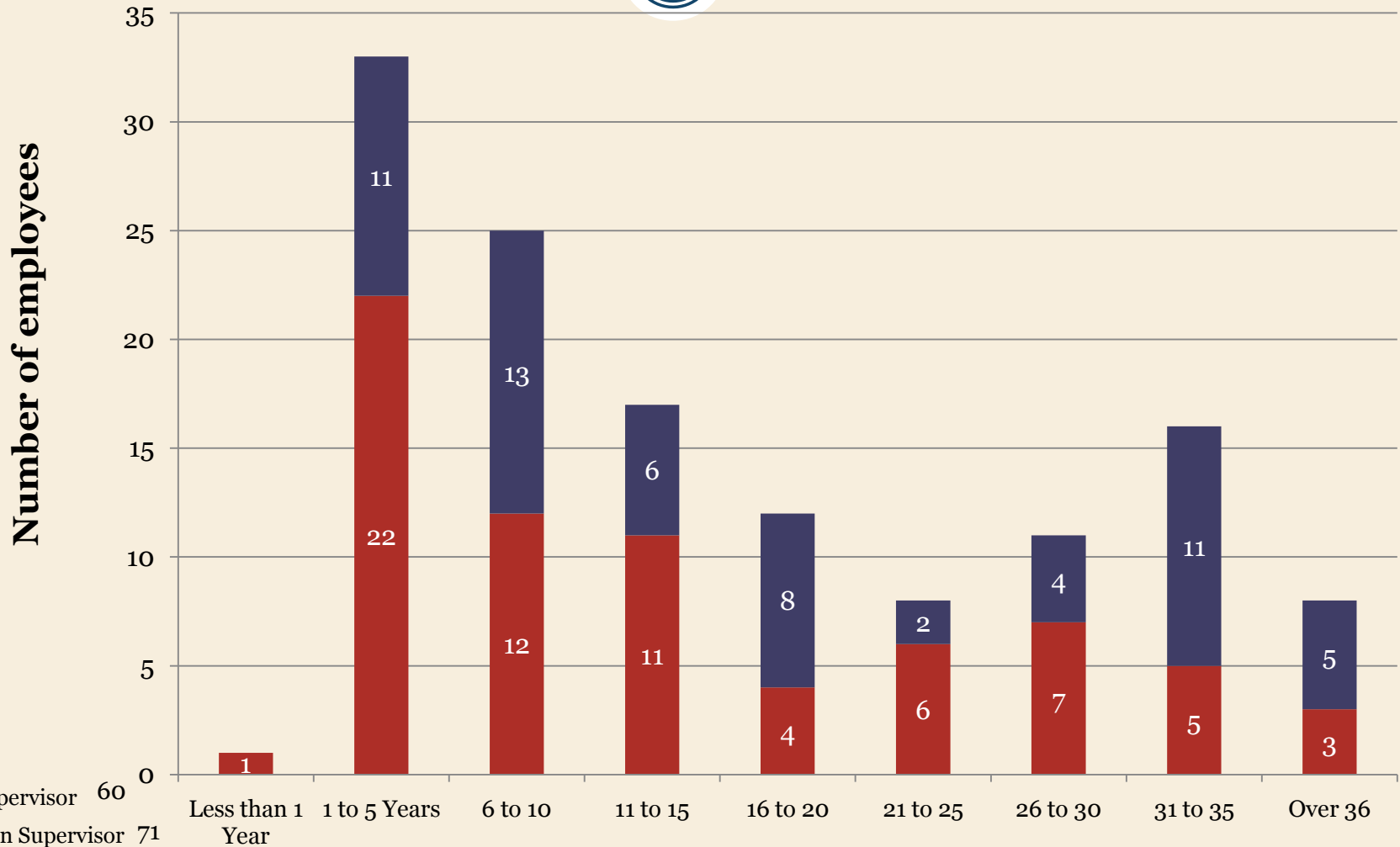


Transportation Engineer III	1
Transportation Engineer II	6
Transportation Engineer I	1
Engineering Technician II	2
Total	10

Construction Employees Years of Experience 2011



Supervisor/Non Supervisor 2011



2010 Change Orders



- \$385M in contractor payments made
- 570 Change Orders issued
- \$16,113,701 Change Order total
- 4.2% Increase due to Change Orders

2010 Change Orders by Approval Level

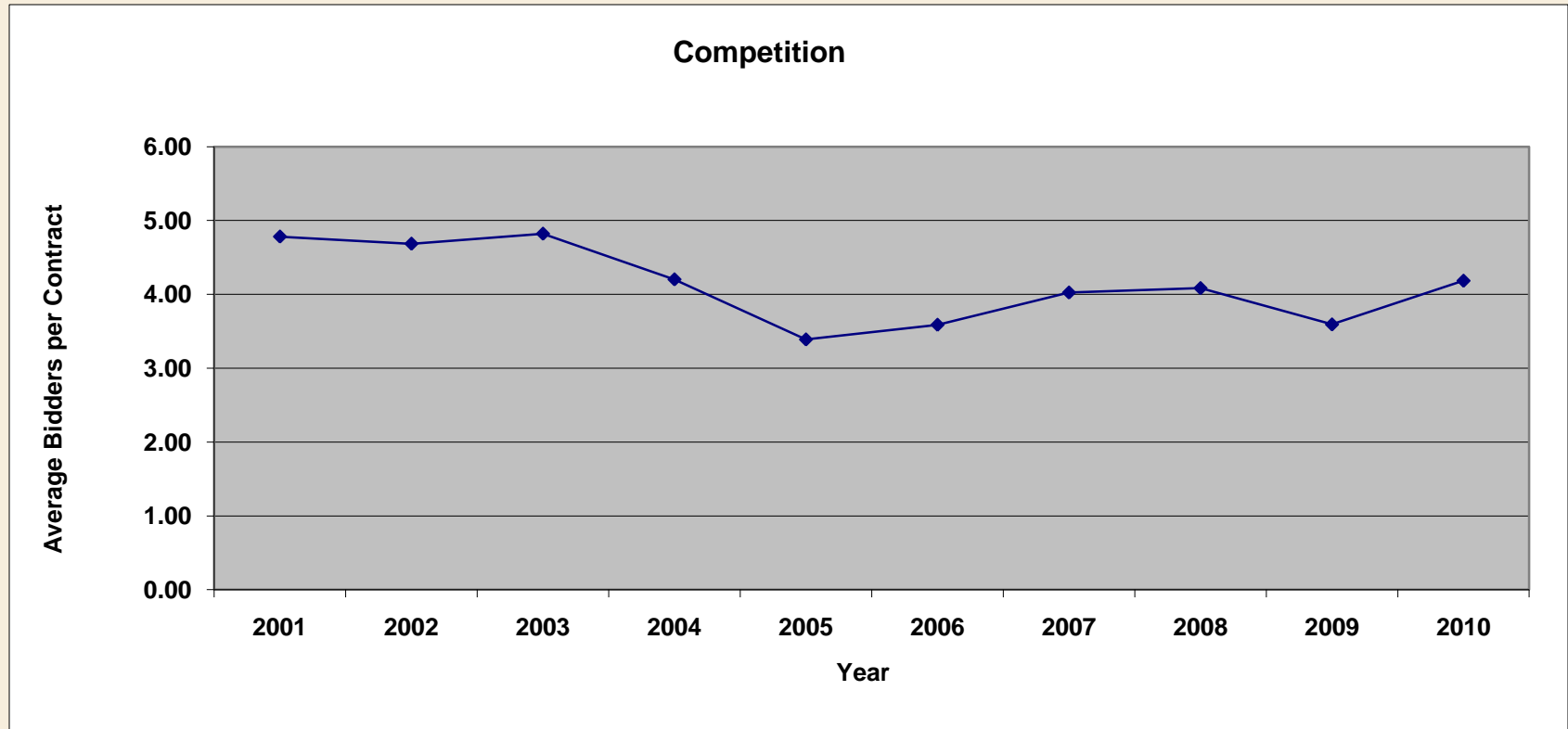
Change Order Amount	Approval Level	State and Federal	County	Total
\$0 to \$10,000	Project Engineer	355	16	371 (65%)
\$10,001 to \$50,000	District Engineer	141	1	142(25%)
\$50,001 to \$100,000	Office of Operations	26	1	27(5%)
> \$100,000	Office of Operations/ FHWA ¹	29	1	30 (5%)
Total		551	19	570

¹ FHWA approval on Full Involvement Projects . Typically NHS projects > \$5,000,000

2010 Change Orders by Classification

Class	State	City	County	Total
Design Changes	\$ 9,091,116	\$ 940,788	\$ 45,072	\$ 10,076,976
Major Changes in Project Limits	\$ 1,370,453	\$ 4,819	\$ 0	\$ 1,375,272
Changes in Specifications	\$ 637,495	\$ 31,431	\$ 105,714	\$ 774,640
Emergency Relief	\$ 3,663,015	\$ 0	\$ 0	\$ 3,663,015
Environmental Commitments	\$ 61,562	\$ 150,043	\$ 0	\$ 211,605
Structural Design Changes	\$ 12,193	\$ 0	\$ 0	\$ 12,193
Total	\$14,835,834	\$1,127,081	\$ 150,786	\$16,113,701

NDDOT Contractor Competition



- Data is through November 19, 2010 bid opening
- Data includes State, City and County projects
- Data includes projects that were rejected after the bid opening

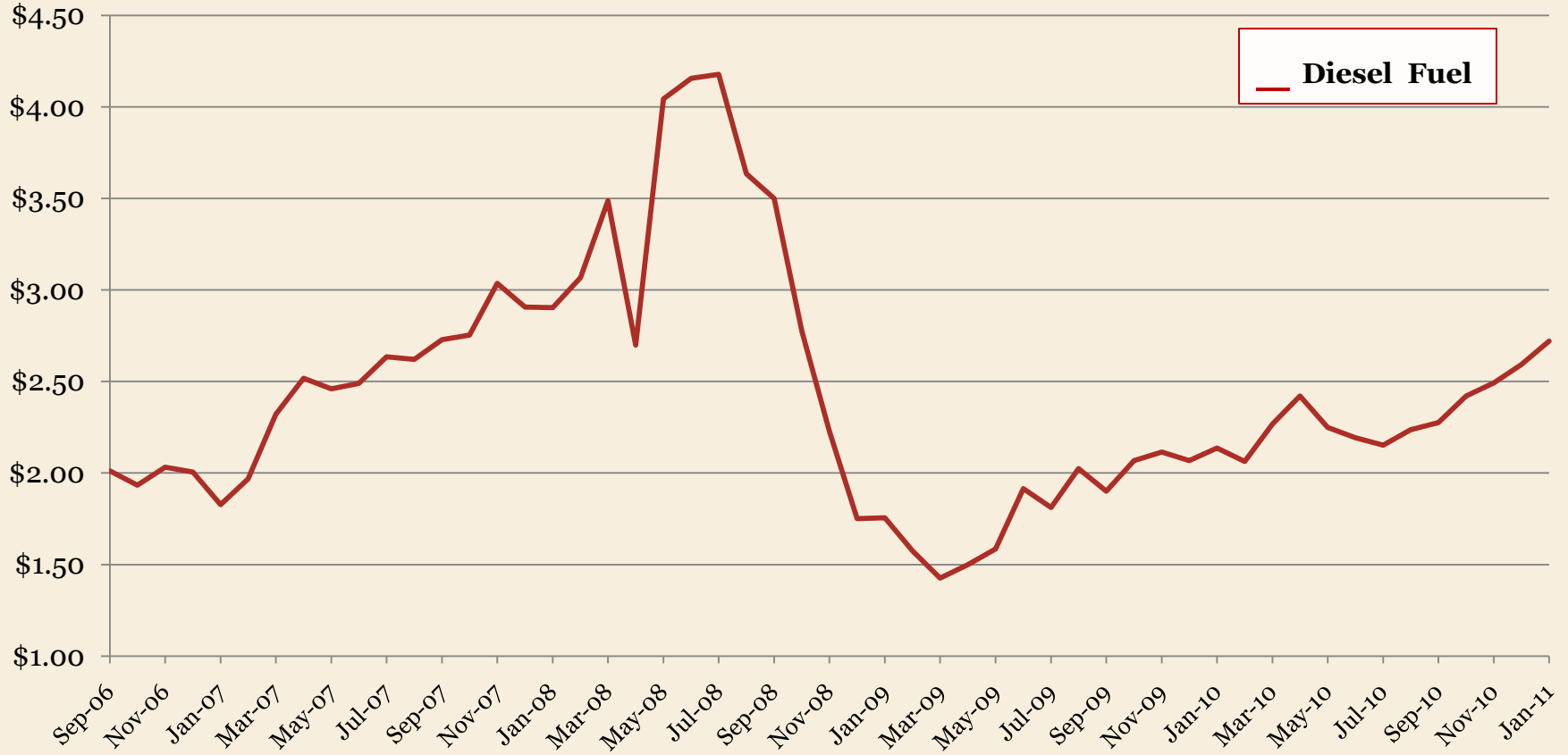
Fuel Costs



Fuel Adjustment Clause



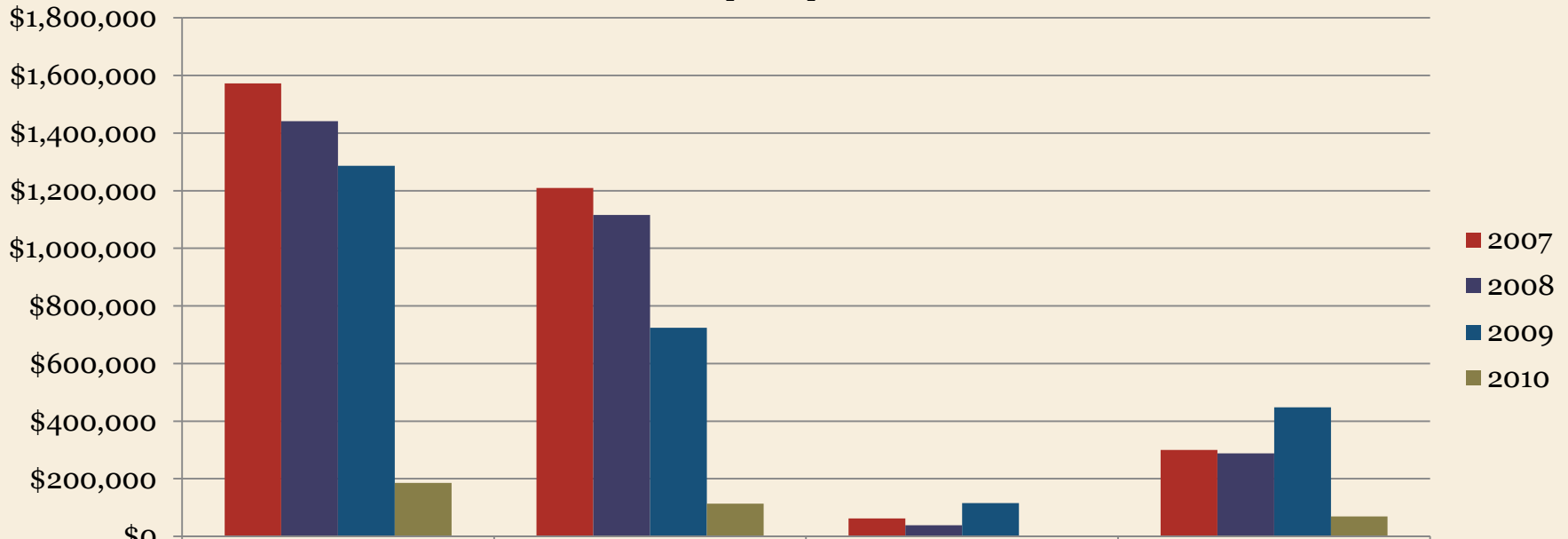
Diesel Fuel Index History



Fuel Adjustment Clause



2008: About 40% of all projects participated
 2009: About 34% participated
 2010: About 30% participated



	Total	Diesel	Unleaded	Burner
2007	\$1,572,063	\$1,209,914	\$62,657	\$299,492
2008	\$1,441,792	\$1,115,733	\$38,208	\$287,850
2009	\$1,286,430	\$723,829	\$115,143	\$447,457
2010	\$185,467	\$113,853	\$2,222	\$69,391

Notice of Intent Trends



Dispute Status	2007	2008	2009	2010	2011 to date
Resolved	12	19	4	5	0
Unresolved	0	1	4	20	1
Total	12	20	8	25	1

CARS/FileNet



- Electronic document management system
- Use NDDOT projects when Director signs contract
- Consultants required to use

CARS/FileNet (continued)

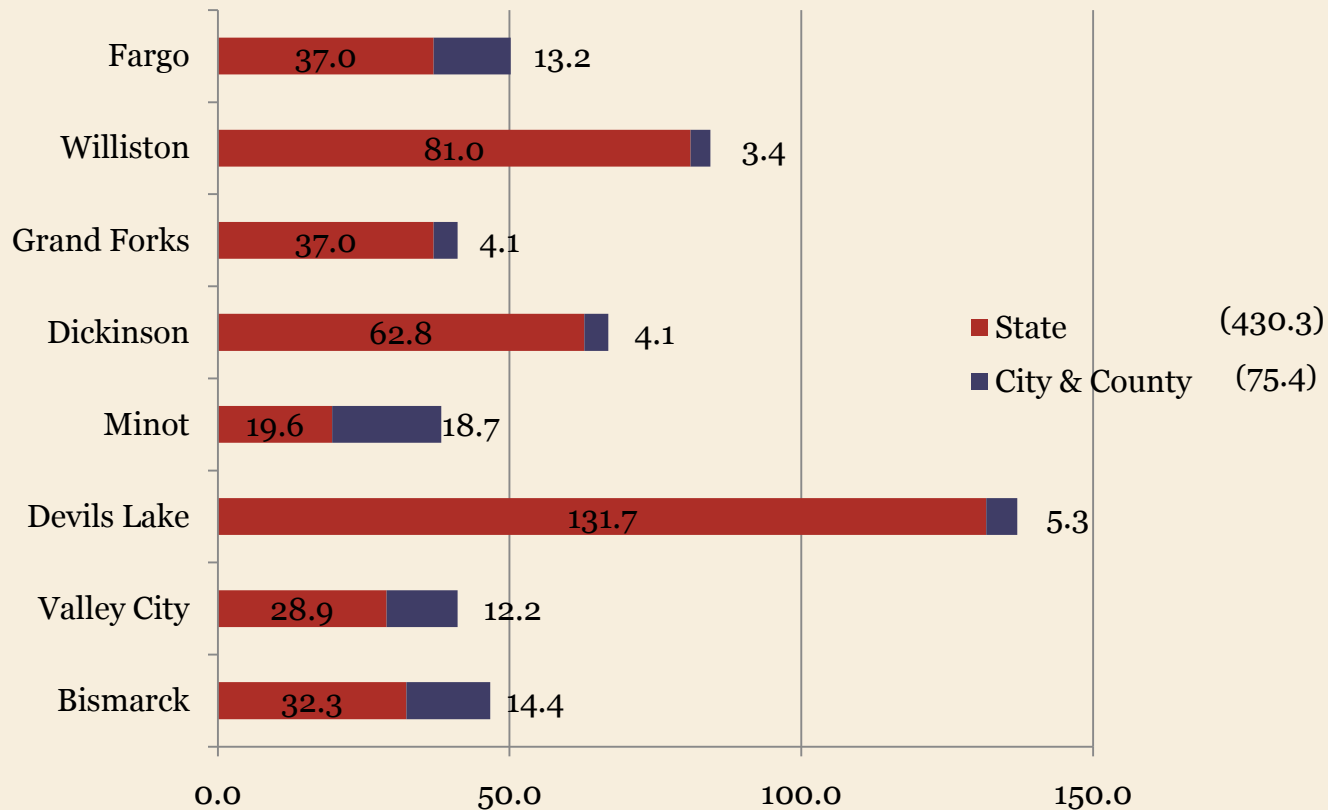


- See Section 2 Construction Records Manual
- Add documents
- View documents
- Pre job conference minutes
- Other correspondence

Looking Ahead to 2011



Workload by Dollar Amount



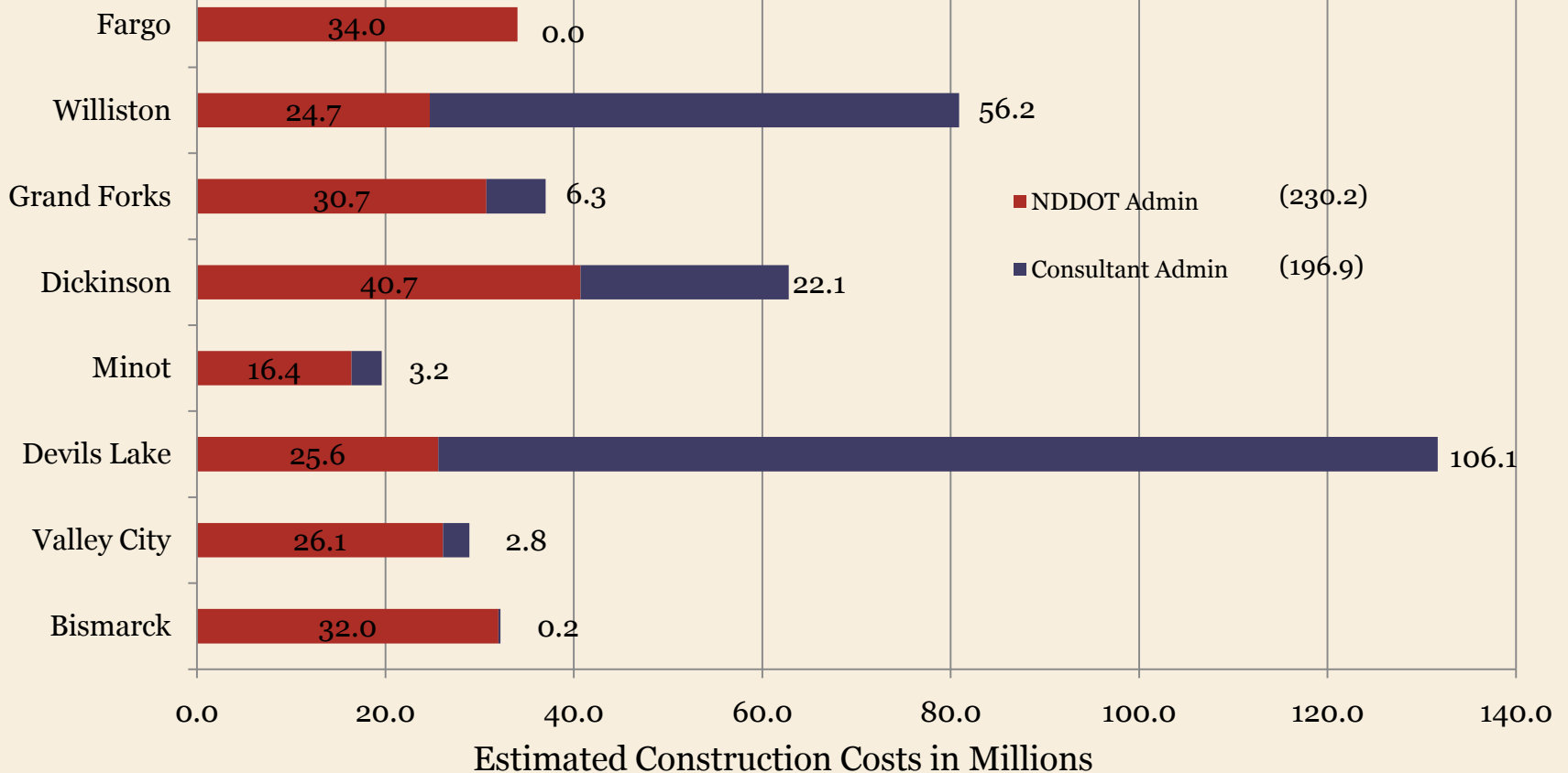
Estimated Construction Costs in Millions

Looking Ahead to 2011



State Workload by Staffing

(Does not include county and city)





What's New for 2011?

New for 2011



Section 105 Control of Work

The contractor shall designate in writing before starting work, a competent Superintendent who shall have the authority to represent and act for the Contractor. The Superintendent shall be a responsible employee of the Prime Contractor. When work is underway, including work by a Subcontractor, the Contractor shall ensure the Superintendent is present at the worksite unless otherwise agreed to by the Engineer.

Section 105 Control of Work-Continued



The Superintendent shall be capable of reading and understanding the Contract Documents and fully authorize to:

- A. Conduct all business with the Subcontractors
- B. Execute the orders and directions of the Engineer without delay
- C. Promptly supply the materials, equipment, tools, labor, and incidentals necessary for prosecution
- D. Represent the Contractor at weekly meetings when required in the Contract Documents.

The Contractor shall notify the Engineer promptly in writing when replacing the Superintendent.

New Superintendent Specifications

2011



- Designate Superintendent in Writing
- Employee of Prime Contractor
- Present at worksite

New Progress Schedule Requirement 2011



- Section 108
- Due 10 days before pre-job conference
- Time scaled bar chart
- Major activities/production rates
- Engineer accepts/rejects
- Update schedule once a month
- Starts April 2011 bid opening

Rewrite of Section 100

2011



- Complete rewrite
- Input from DOT and AGC
- Trauner Consulting
- 1 year project
- Complete December 2011



- Standardized Spec and Code numbers
- Select numbers from a table
- Table on [DOT](#) website
- Begin use in 2011 Construction season
- Same on all projects
- Expand functionality in CARS

Questions?

