

LRC-VII-28
SOIL DEPTH AND QUALITY REQUIREMENTS
FOR RECLAMATION OF REANGELANDS

CONTRACTOR: North Dakota State University Agricultural Experiment Station

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<u>Sponsor</u>	<u>Cost Share</u>
North Dakota Lignite Council	\$11,560
North Dakota State University	17,851
ND Industrial Commission	<u>16,160</u>
Total	\$45,571

Project Schedule – 18 Months

Contract Date – 7//19/91
Start Date – 7/1/91
Completion Date – as extended – 6/30/93

Project Deliverables

Progress Reports ✓
Annual Report – 7/6/92 ✓
Final Report – 6/30/93 ✓

OBJECTIVE / STATEMENT OF WORK

The objective of this research is to learn soil replacement depths and quality that are necessary to meet productivity and species diversity requirements for reclaimed grassland as compared to reference areas within similar topographic units. This research will quantify the effect of soil quality, soil and spoil texture and topography on diversity and productivity of a given rangeland site.

STATUS

This study found a relationship between suitable plant growth material (subsoil & topsoil) and herbaceous yield. With this information it can be shown that the required amount of subsoil required to be respread can be reduced. This could save substantial reclamation costs. Work in this area is continuing as a part LRC-X-37.