

OAKES IRRIGATION RESEARCH SITE

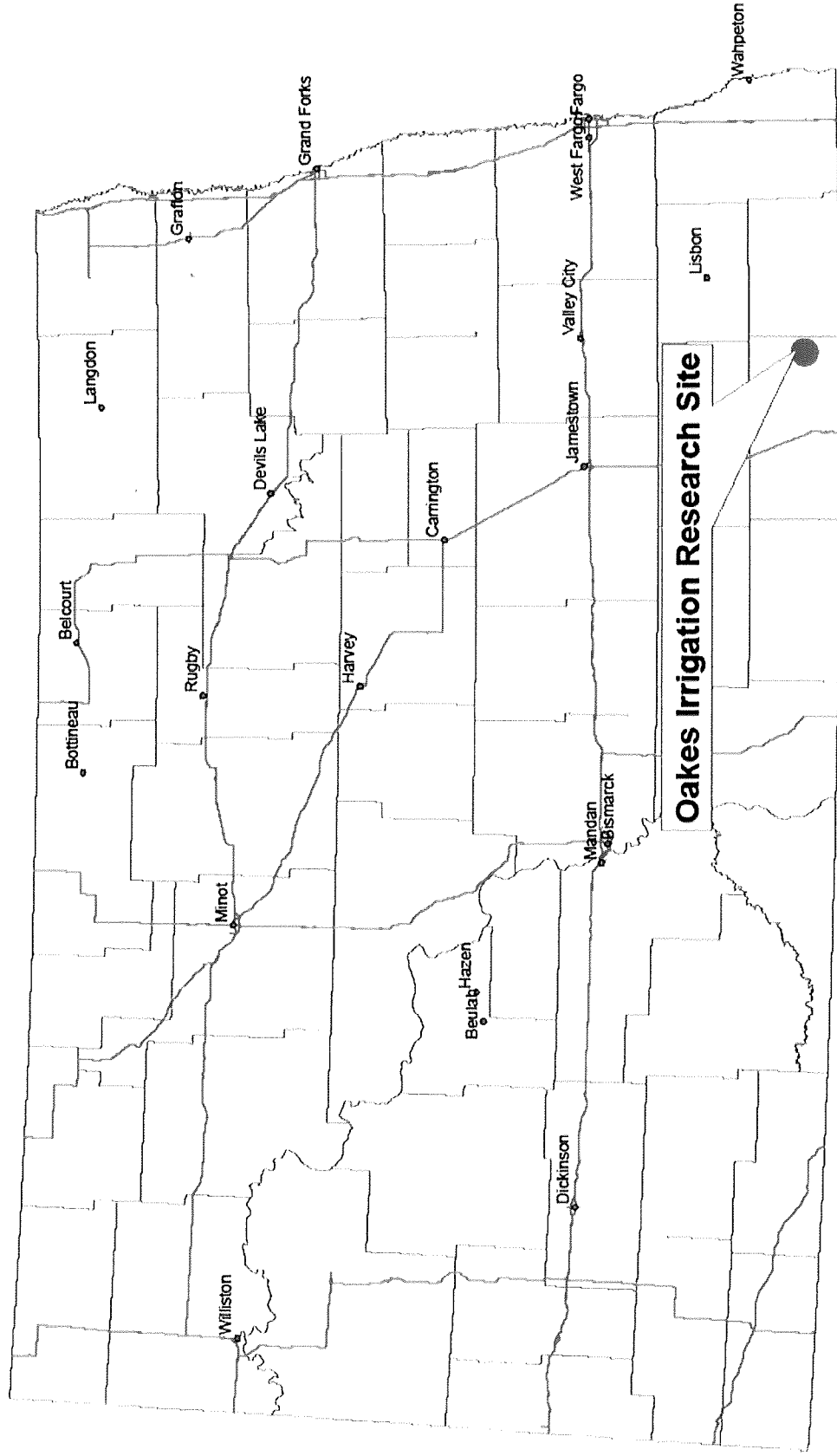
Presented To: SBARE

December 4, 2019





OAKES IRRIGATION RESEARCH SITE LOCATION



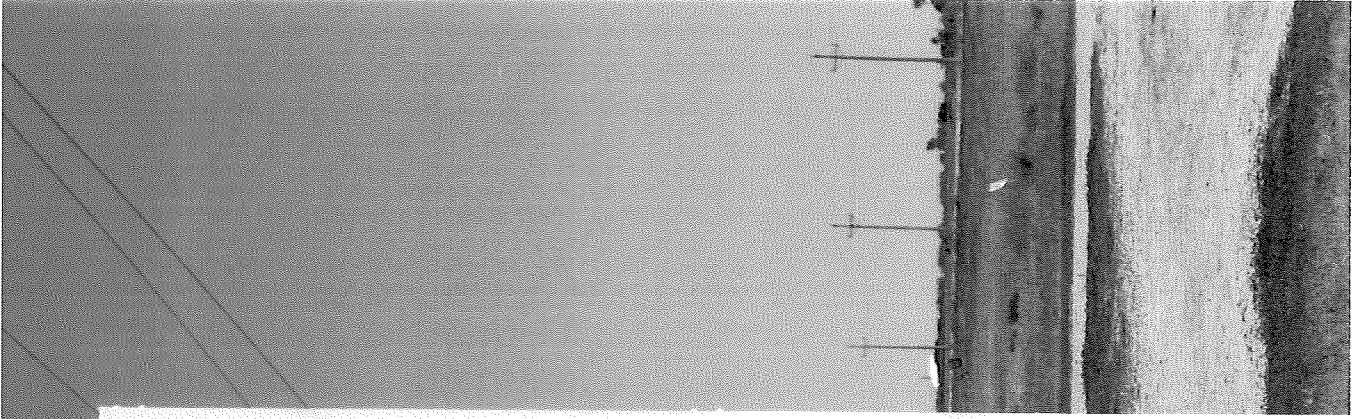
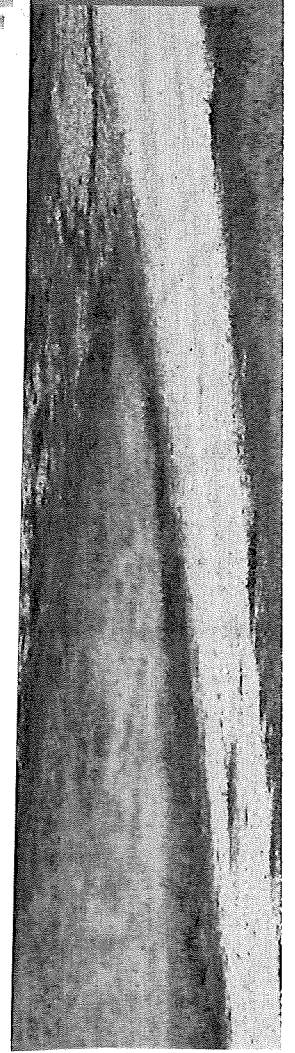
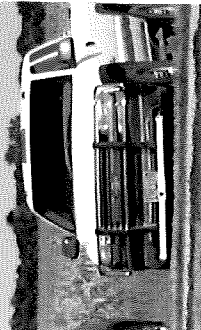


Oakes Irrigation Research Site

ROBERT TITUS RESEARCH FARM

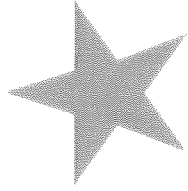
NDSU

NORTH DAKOTA AGRICULTURAL
EXPERIMENT STATION

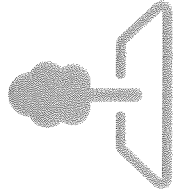




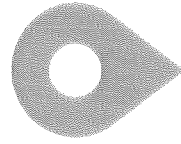
OAKES IRRIGATION RESEARCH SITE BACKGROUND



**ESTABLISHED
IN 1970**



**20 ACRE RESEARCH PLOT
(RECENTLY EXPANDED TO 40 ACRES)**

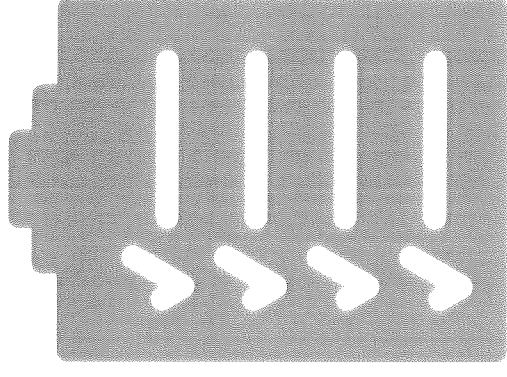


**LOCATED 4.5 MILES
SOUTH OF OAKES**



OAKES IRRIGATION RESEARCH SITE OBJECTIVES

- Develop and refine Best Management Practices.
- Define relative crop adaptation, variety performance and quality.
- Evaluate water application strategies and crop water requirements.
- Evaluate cropping systems that sustain irrigation production capacity.
- Disseminate new information to irrigators and the broader agricultural public.





OAKES IRRIGATION RESEARCH SITE RESEARCH SITE



**IRRIGATED
SOYBEANS**



**IRRIGATED
POTATOES**



**IRRIGATED DRY
EDIBLE BEANS**



**IRRIGATED
CORN**



OAKES IRRIGATION RESEARCH SITE FUNDING

75%

Funded Through
Garrison Diversion

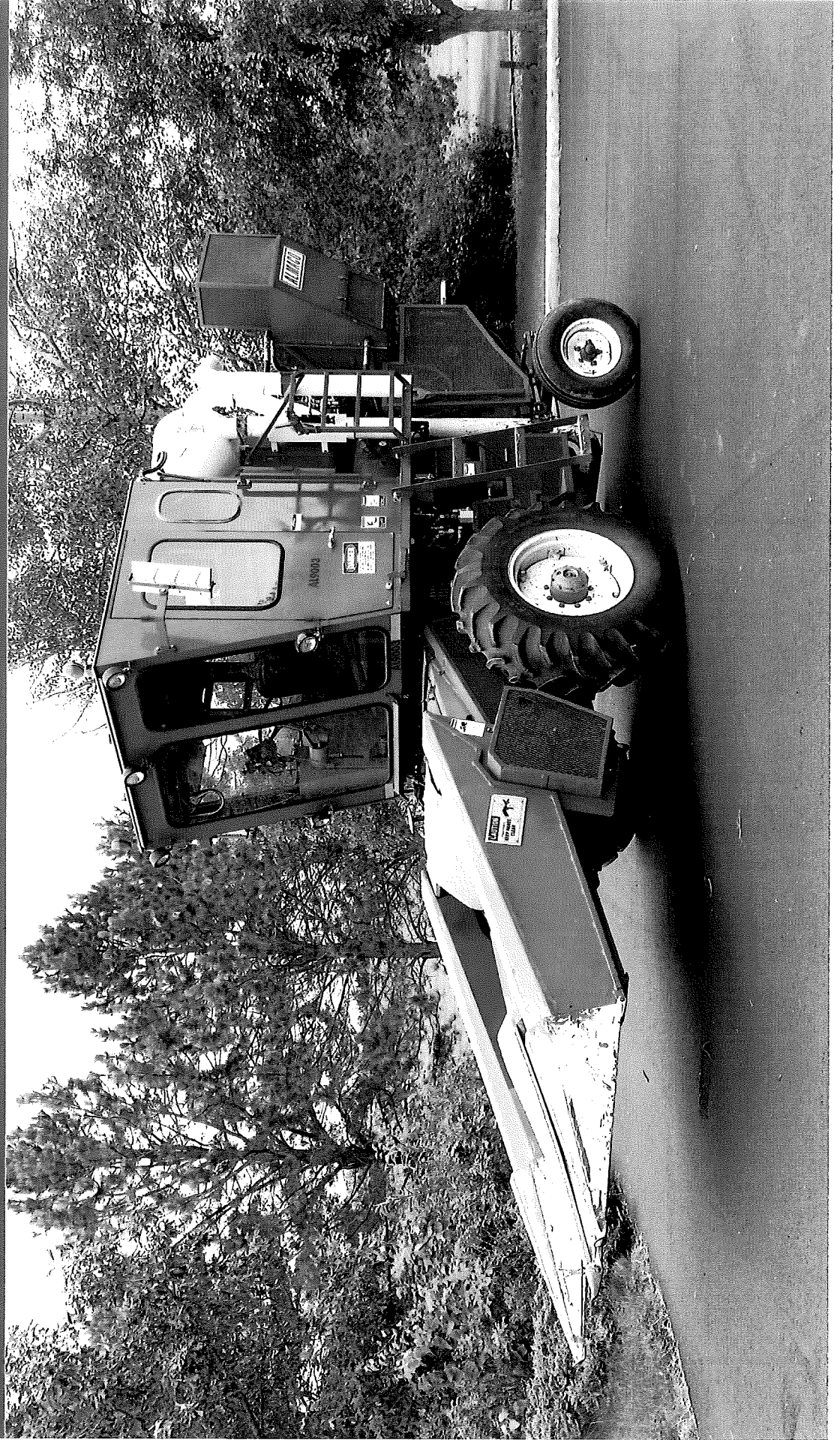


25%

Funded Through
Other Grants



PROGRESS MADE EQUIPMENT





PROGRESS MADE EQUIPMENT



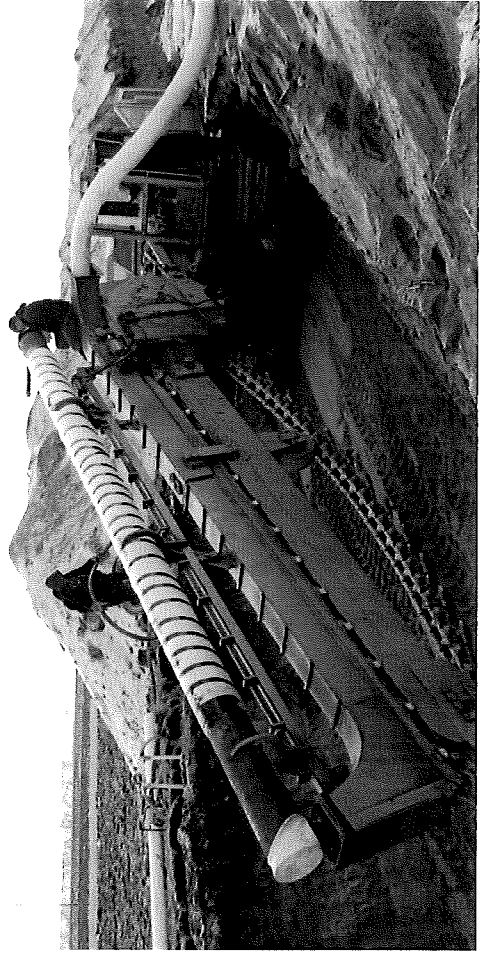
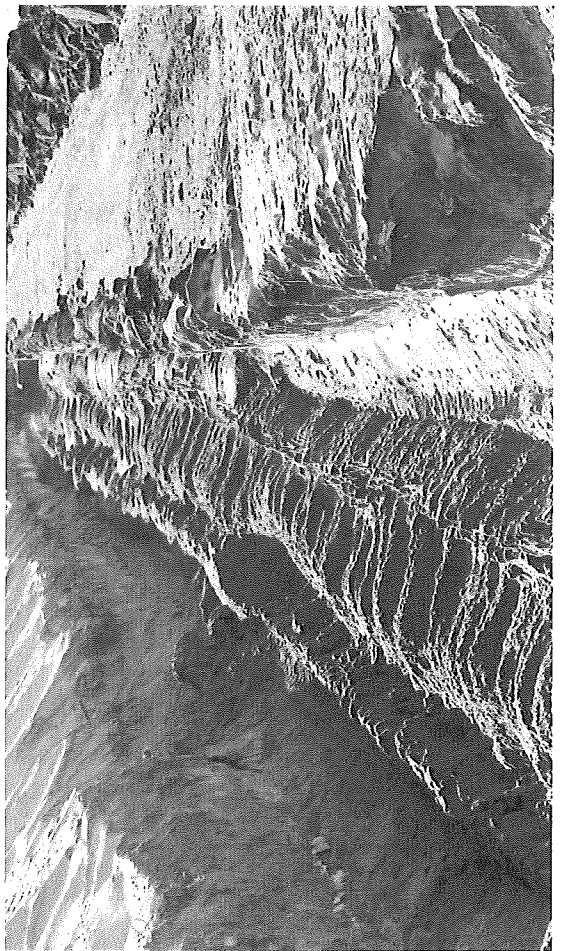
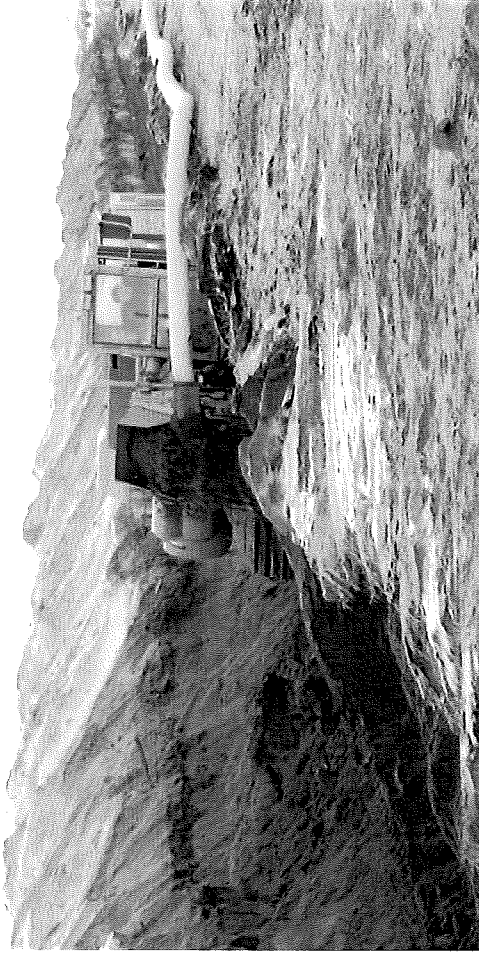


PROGRESS MADE EQUIPMENT





PROGRESS MADE HORIZONTAL COLLECTOR WELL SYSTEM



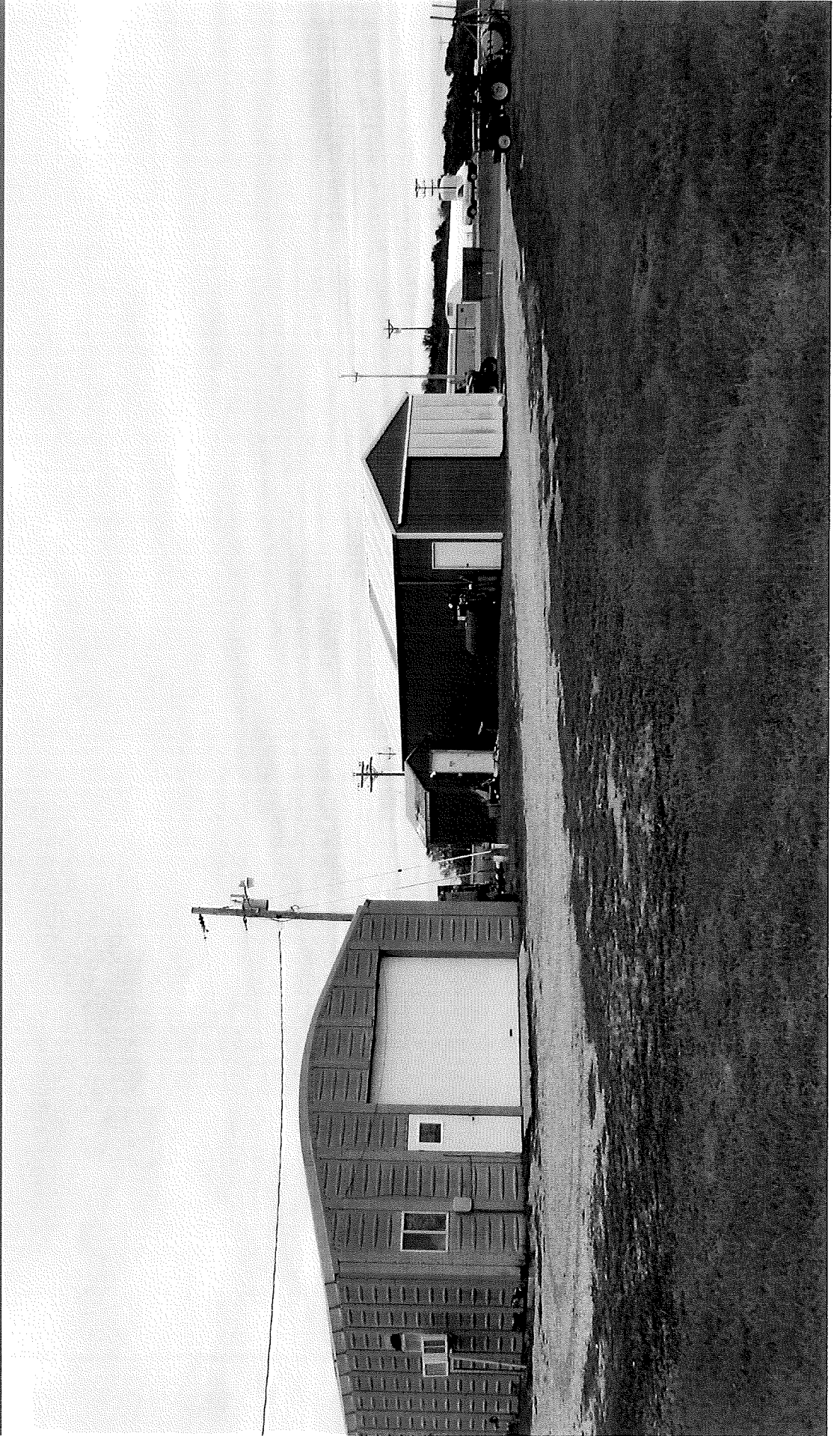


WORK PLAN

| TASK | STATUS |
|--------------------------------|-------------|
| Secure Combine | ✓ |
| Secure Irrigator | ✓ |
| Secure Staff | ✓ |
| Fundraising | ✓ |
| Secure Additional Acreage | ✓ |
| 5-Acre Building Site Purchased | ✓ |
| Building (locally led) | |
| Long-Term Funding | 50% SECURED |



OUTDATED FACILITIES





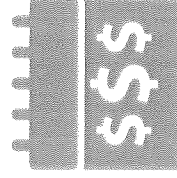
CURRENT SITUATION

OPERATING COSTS SPLIT 60/40



**GARRISON DIVERSION
CONSERVANCY DISTRICT**

60% OPERATING COSTS



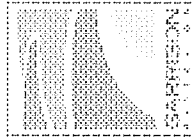
**NDSU AGRICULTURAL
EXPERIMENT STATION**

40% OPERATING COSTS



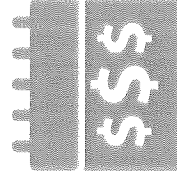
LONG-TERM SOLUTION

OPERATING COSTS 100% PAID BY NDSU



**GARRISON DIVERSION
CONSERVANCY DISTRICT**

NO OPERATING COSTS



**NDSU AGRICULTURAL
EXPERIMENT STATION**

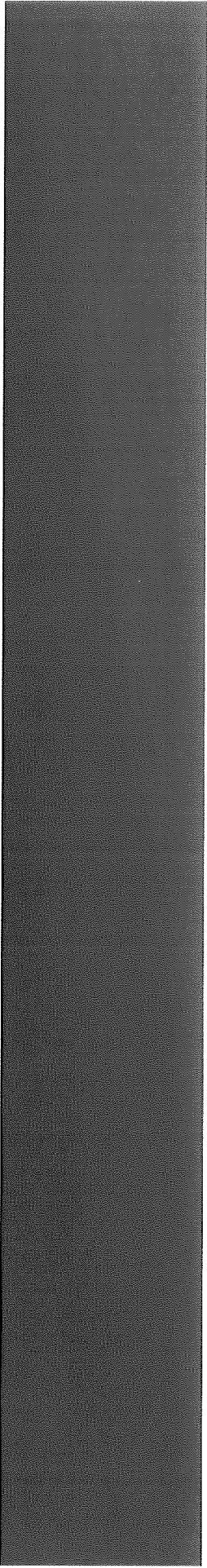
100% OPERATING COSTS



LONG-TERM SOLUTION NDSU FOUNDATION/NDSU AGRICULTURE



**Takes ownership of
OIRS – Robert Titus
Research Farm with
the passing of Bob
and Elsie Titus**



GARRISON DIVERSION

.....

IS CONTINUALLY COMMITTED
TO SUPPORTING THE

.....

OAKES IRRIGATION RESEARCH SITE

THANK YOU!

