

POTENTIAL CROPLAND LIMITATIONS AND HAZARD
Oliver County, North Dakota

(See text for a description and criteria of the limitations and hazards listed in this table)

| Map Symbol and Component Name | Cropland Limitations and Hazards |
|-------------------------------|---|
| Aa: Minnewaukan | Excessive saturated hydraulic conductivity Flooding High water table Lime content Pesticide and nutrient leaching Pesticide and nutrient runoff Ponding Surface crusting Wind erosion |
| Banks | Excessive saturated hydraulic conductivity Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Wind erosion |
| Riverwash | Excessive saturated hydraulic conductivity Flooding High water table Limited organic matter Pesticide and nutrient leaching Pesticide and nutrient runoff Poor tilth and compaction Wind erosion |
| ArA: Arnegard | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching |
| Grassna | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching |

POTENTIAL CROPLAND LIMITATION--continued
Oliver County, North Dakota

| Map Symbol and Component Name | Cropland Limitations and Hazards |
|-------------------------------|--|
| Parshall | Excessive saturated hydraulic conductivity Limited available water capacity Pesticide and nutrient leaching Wind erosion |
| Sen | Depth to rock Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Restricted saturated hydraulic conductivity |
| Williams | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff |
| Grail | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Poor tilth and compaction Restricted saturated hydraulic conductivity |
| Vebar | Depth to rock Excessive saturated hydraulic conductivity Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Restricted saturated hydraulic conductivity Wind erosion |
| ArB: Arnegard | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff |

POTENTIAL CROPLAND LIMITATION--continued
Oliver County, North Dakota

| Map Symbol and Component Name | Cropland Limitations and Hazards |
|-------------------------------|--|
| Grassna | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff |
| Parshall | Excessive saturated hydraulic conductivity Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Wind erosion |
| Sen | Depth to rock Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Restricted saturated hydraulic conductivity |
| Williams | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff |
| Grail | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Poor tilth and compaction Restricted saturated hydraulic conductivity |
| Vebar | Depth to rock Excessive saturated hydraulic conductivity Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Restricted saturated hydraulic conductivity Wind erosion |

POTENTIAL CROPLAND LIMITATION--continued
Oliver County, North Dakota

| Map Symbol and Component Name | Cropland Limitations and Hazards |
|-------------------------------|---|
| ArC: Arnegard | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Slope Water erosion |
| Parshall | Excessive saturated hydraulic conductivity Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Slope Wind erosion |
| Grail | Pesticide and nutrient runoff Poor tilth and compaction Restricted saturated hydraulic conductivity Slope Water erosion |
| Vebar | Depth to rock Excessive saturated hydraulic conductivity Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Restricted saturated hydraulic conductivity Slope Wind erosion |
| Williams | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Slope Water erosion |

POTENTIAL CROPLAND LIMITATION--continued
Oliver County, North Dakota

| Map Symbol and Component Name | Cropland Limitations and Hazards |
|-------------------------------|--|
| Sen | Depth to rock Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Restricted saturated hydraulic conductivity Slope Water erosion |
| BaC: Seroco | Excessive saturated hydraulic conductivity Limited available water capacity Limited organic matter Pesticide and nutrient leaching Pesticide and nutrient runoff Slope Wind erosion |
| Trembles | Alkalinity Excessive saturated hydraulic conductivity Lime content Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Surface crusting Wind erosion |
| Seroco | Excessive saturated hydraulic conductivity Limited available water capacity Limited organic matter Pesticide and nutrient leaching Pesticide and nutrient runoff Slope Wind erosion |

POTENTIAL CROPLAND LIMITATION--continued
Oliver County, North Dakota

| Map Symbol and Component Name | Cropland Limitations and Hazards |
|-------------------------------|---|
| Havrelon | Excessive saturated hydraulic conductivity Lime content Pesticide and nutrient leaching Pesticide and nutrient runoff Surface crusting Wind erosion |
| Lallie | Alkalinity Flooding High water table Lime content Pesticide and nutrient leaching Pesticide and nutrient runoff Ponding Poor tilth and compaction Restricted saturated hydraulic conductivity |
| BbA: Banks | Excessive saturated hydraulic conductivity Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff |
| Banks | Excessive saturated hydraulic conductivity Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff |
| Havrelon | Excessive saturated hydraulic conductivity Lime content Pesticide and nutrient leaching Pesticide and nutrient runoff Surface crusting Wind erosion |

POTENTIAL CROPLAND LIMITATION--continued
Oliver County, North Dakota

| Map Symbol and Component Name | Cropland Limitations and Hazards |
|-------------------------------|---|
| Banks | Excessive saturated hydraulic conductivity Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Wind erosion |
| Ridgelawn | Alkalinity Depth to sand and gravel Excessive saturated hydraulic conductivity Lime content Pesticide and nutrient leaching Pesticide and nutrient runoff Surface crusting Wind erosion |
| Trembles | Alkalinity Excessive saturated hydraulic conductivity Lime content Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Surface crusting Wind erosion |
| Lallie | Alkalinity Excessive saturated hydraulic conductivity Flooding High water table Lime content Pesticide and nutrient leaching Pesticide and nutrient runoff Ponding Poor tilth and compaction Restricted saturated hydraulic conductivity Surface crusting |

POTENTIAL CROPLAND LIMITATION--continued
Oliver County, North Dakota

| Map Symbol and Component Name | Cropland Limitations and Hazards |
|-------------------------------|---|
| BCA: Banks | Excessive saturated hydraulic conductivity Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Wind erosion |
| Trembles | Alkalinity Excessive saturated hydraulic conductivity Lime content Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Surface crusting Wind erosion |
| Banks | Excessive saturated hydraulic conductivity Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Wind erosion |
| Havrelon | Excessive saturated hydraulic conductivity Lime content Pesticide and nutrient leaching Pesticide and nutrient runoff Surface crusting Wind erosion |
| Lallie | Alkalinity Flooding High water table Lime content Pesticide and nutrient leaching Pesticide and nutrient runoff Ponding Poor tilth and compaction Restricted saturated hydraulic conductivity |

POTENTIAL CROPLAND LIMITATION--continued
Oliver County, North Dakota

| Map Symbol and Component Name | Cropland Limitations and Hazards |
|-------------------------------|---|
| Lallie | Alkalinity Excessive saturated hydraulic conductivity Flooding High water table Lime content Pesticide and nutrient leaching Pesticide and nutrient runoff Ponding Poor tilth and compaction Restricted saturated hydraulic conductivity Surface crusting |
| BcB: Banks | Excessive saturated hydraulic conductivity Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Wind erosion |
| Trembles | Alkalinity Excessive saturated hydraulic conductivity Lime content Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Surface crusting Wind erosion |
| Havrelon | Excessive saturated hydraulic conductivity Lime content Pesticide and nutrient leaching Pesticide and nutrient runoff Poor tilth and compaction Surface crusting Wind erosion |

POTENTIAL CROPLAND LIMITATION--continued
Oliver County, North Dakota

| Map Symbol and Component Name | Cropland Limitations and Hazards |
|-------------------------------|---|
| Trembles | Alkalinity Excessive saturated hydraulic conductivity Lime content Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Surface crusting Wind erosion |
| Banks | Excessive saturated hydraulic conductivity Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Wind erosion |
| Lallie | Alkalinity Flooding High water table Lime content Pesticide and nutrient leaching Pesticide and nutrient runoff Ponding Poor tilth and compaction Restricted saturated hydraulic conductivity |
| BdA: Belfield | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Restricted saturated hydraulic conductivity |

POTENTIAL CROPLAND LIMITATION--continued
Oliver County, North Dakota

| Map Symbol and Component Name | Cropland Limitations and Hazards |
|-------------------------------|--|
| Daglum | Excessive saturated hydraulic conductivity High sodium content Limited available water capacity Pesticide and nutrient leaching Poor tilth and compaction Restricted saturated hydraulic conductivity Salt content Surface crusting |
| Grail | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Poor tilth and compaction Restricted saturated hydraulic conductivity |
| Rhoades | Excessive saturated hydraulic conductivity High sodium content Lime content Limited available water capacity Pesticide and nutrient leaching Poor tilth and compaction Restricted saturated hydraulic conductivity Salt content Surface crusting |
| Savage | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Poor tilth and compaction Restricted saturated hydraulic conductivity |

POTENTIAL CROPLAND LIMITATION--continued
Oliver County, North Dakota

| Map Symbol and Component Name | Cropland Limitations and Hazards |
|-------------------------------|---|
| BdB: Belfield | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Restricted saturated hydraulic conductivity |
| Daglum | Excessive saturated hydraulic conductivity High sodium content Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Poor tilth and compaction Restricted saturated hydraulic conductivity Salt content Surface crusting |
| Savage | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Poor tilth and compaction Restricted saturated hydraulic conductivity |
| Grail | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Poor tilth and compaction Restricted saturated hydraulic conductivity |
| Straw | Alkalinity Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff |

POTENTIAL CROPLAND LIMITATION--continued
Oliver County, North Dakota

| Map Symbol and Component Name | Cropland Limitations and Hazards |
|-------------------------------|---|
| Rhoades | Excessive saturated hydraulic conductivity High sodium content Lime content Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Poor tilth and compaction Restricted saturated hydraulic conductivity Salt content Surface crusting |
| BeA: Belfield | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Restricted saturated hydraulic conductivity |
| Daglun | Excessive saturated hydraulic conductivity High sodium content Limited available water capacity Pesticide and nutrient leaching Poor tilth and compaction Restricted saturated hydraulic conductivity Salt content Surface crusting |
| Savage | Poor tilth and compaction Restricted saturated hydraulic conductivity |
| Grail | Pesticide and nutrient leaching Poor tilth and compaction Restricted saturated hydraulic conductivity |

POTENTIAL CROPLAND LIMITATION--continued
Oliver County, North Dakota

| Map Symbol and Component Name | Cropland Limitations and Hazards |
|-------------------------------|--|
| Rhoades | Excessive saturated hydraulic conductivity High sodium content Lime content Limited available water capacity Pesticide and nutrient leaching Poor tilth and compaction Restricted saturated hydraulic conductivity Salt content Surface crusting |
| BeB: Belfield | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Restricted saturated hydraulic conductivity Water erosion |
| Daglum | Excessive saturated hydraulic conductivity High sodium content Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Poor tilth and compaction Restricted saturated hydraulic conductivity Salt content Surface crusting Water erosion |
| Grail | Pesticide and nutrient leaching Pesticide and nutrient runoff Poor tilth and compaction Restricted saturated hydraulic conductivity Water erosion |

POTENTIAL CROPLAND LIMITATION--continued
Oliver County, North Dakota

| Map Symbol and Component Name | Cropland Limitations and Hazards |
|-------------------------------|--|
| Savage | Pesticide and nutrient runoff Poor tilth and compaction Restricted saturated hydraulic conductivity |
| Rhoades | Excessive saturated hydraulic conductivity High sodium content Lime content Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Poor tilth and compaction Restricted saturated hydraulic conductivity Salt content Surface crusting Water erosion |
| BmA: Belfield | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Restricted saturated hydraulic conductivity |
| Morton | Depth to rock Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Restricted saturated hydraulic conductivity |

POTENTIAL CROPLAND LIMITATION--continued
Oliver County, North Dakota

| Map Symbol and Component Name | Cropland Limitations and Hazards |
|-------------------------------|--|
| Janesburg | Depth to rock Excessive saturated hydraulic conductivity High sodium content Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Poor tilth and compaction Restricted saturated hydraulic conductivity Salt content Surface crusting |
| Regent | Depth to rock Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Poor tilth and compaction Restricted saturated hydraulic conductivity |
| Dogtooth | Depth to rock Excessive saturated hydraulic conductivity High sodium content Lime content Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Poor tilth and compaction Restricted saturated hydraulic conductivity Salt content Surface crusting |
| BmB: Belfield | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Restricted saturated hydraulic conductivity |

POTENTIAL CROPLAND LIMITATION--continued
Oliver County, North Dakota

| Map Symbol and Component Name | Cropland Limitations and Hazards |
|-------------------------------|--|
| Morton | Depth to rock Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Restricted saturated hydraulic conductivity |
| Janesburg | Depth to rock Excessive saturated hydraulic conductivity High sodium content Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Poor tilth and compaction Restricted saturated hydraulic conductivity Salt content Surface crusting |
| Regent | Depth to rock Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Poor tilth and compaction Restricted saturated hydraulic conductivity Water erosion |
| Dogtooth | Depth to rock Excessive saturated hydraulic conductivity High sodium content Lime content Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Poor tilth and compaction Restricted saturated hydraulic conductivity Salt content Surface crusting |

POTENTIAL CROPLAND LIMITATION--continued
Oliver County, North Dakota

| Map Symbol and Component Name | Cropland Limitations and Hazards |
|-------------------------------|--|
| Chama | Alkalinity Depth to rock Excessive saturated hydraulic conductivity Lime content Pesticide and nutrient leaching Pesticide and nutrient runoff Restricted saturated hydraulic conductivity Surface crusting Wind erosion |
| BmC: Morton | Depth to rock Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Restricted saturated hydraulic conductivity Slope Water erosion |
| Belfield | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Restricted saturated hydraulic conductivity Slope Water erosion |
| Regent | Depth to rock Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Poor tilth and compaction Restricted saturated hydraulic conductivity Slope Water erosion |

POTENTIAL CROPLAND LIMITATION--continued
Oliver County, North Dakota

| Map Symbol and Component Name | Cropland Limitations and Hazards |
|-------------------------------|---|
| Daglum | Excessive saturated hydraulic conductivity High sodium content Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Poor tilth and compaction Restricted saturated hydraulic conductivity Salt content Slope Surface crusting Water erosion |
| Chama | Alkalinity Depth to rock Excessive saturated hydraulic conductivity Lime content Pesticide and nutrient leaching Pesticide and nutrient runoff Restricted saturated hydraulic conductivity Slope Surface crusting Water erosion Wind erosion |
| Savage | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Poor tilth and compaction Restricted saturated hydraulic conductivity Slope Water erosion |

POTENTIAL CROPLAND LIMITATION--continued
Oliver County, North Dakota

| Map Symbol and Component Name | Cropland Limitations and Hazards |
|-------------------------------|--|
| Dogtooth | Depth to rock Excessive saturated hydraulic conductivity High sodium content Lime content Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Poor tilth and compaction Restricted saturated hydraulic conductivity Salt content Slope Surface crusting Water erosion |
| BsA: Belfield | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Restricted saturated hydraulic conductivity |
| Straw | Alkalinity Excessive saturated hydraulic conductivity Pesticide and nutrient leaching |
| Daglum | Excessive saturated hydraulic conductivity High sodium content Limited available water capacity Pesticide and nutrient leaching Poor tilth and compaction Restricted saturated hydraulic conductivity Salt content Surface crusting |
| Arnegard | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching |

POTENTIAL CROPLAND LIMITATION--continued
Oliver County, North Dakota

| Map Symbol and Component Name | Cropland Limitations and Hazards |
|-------------------------------|--|
| Korchea | Excessive saturated hydraulic conductivity Lime content Pesticide and nutrient leaching Pesticide and nutrient runoff Surface crusting Wind erosion |
| Rhoades | Excessive saturated hydraulic conductivity High sodium content Lime content Limited available water capacity Pesticide and nutrient leaching Poor tilth and compaction Restricted saturated hydraulic conductivity Salt content Surface crusting |
| CaE: Cabba | Alkalinity Depth to rock Excessive saturated hydraulic conductivity Lime content Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Restricted saturated hydraulic conductivity Slope Surface crusting Water erosion Wind erosion |

POTENTIAL CROPLAND LIMITATION--continued
Oliver County, North Dakota

| Map Symbol and Component Name | Cropland Limitations and Hazards |
|-------------------------------|---|
| Badland | Alkalinity Depth to rock Lime content Limited organic matter Pesticide and nutrient leaching Pesticide and nutrient runoff Poor tilth and compaction Restricted saturated hydraulic conductivity Slope Water erosion Wind erosion |
| Cherry | Excessive saturated hydraulic conductivity Lime content Pesticide and nutrient leaching Pesticide and nutrient runoff Restricted saturated hydraulic conductivity Slope Surface crusting Water erosion Wind erosion |
| Zahl | Excessive saturated hydraulic conductivity Lime content Pesticide and nutrient leaching Pesticide and nutrient runoff Slope Water erosion Wind erosion |

POTENTIAL CROPLAND LIMITATION--continued
Oliver County, North Dakota

| Map Symbol and Component Name | Cropland Limitations and Hazards |
|-------------------------------|---|
| Badland | Alkalinity Depth to rock Lime content Limited organic matter Pesticide and nutrient leaching Pesticide and nutrient runoff Poor tilth and compaction Restricted saturated hydraulic conductivity Slope Water erosion Wind erosion |
| Arnegard | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Slope Water erosion |
| Werner | Depth to rock Excessive saturated hydraulic conductivity Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Restricted saturated hydraulic conductivity Slope Water erosion |
| Moreau | Alkalinity Depth to rock Lime content Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Poor tilth and compaction Restricted saturated hydraulic conductivity Slope Water erosion Wind erosion |

POTENTIAL CROPLAND LIMITATION--continued
Oliver County, North Dakota

| Map Symbol and Component Name | Cropland Limitations and Hazards |
|-------------------------------|--|
| CbD: Cabba | Alkalinity Depth to rock Excessive saturated hydraulic conductivity Lime content Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Restricted saturated hydraulic conductivity Slope Surface crusting Water erosion Wind erosion |
| Werner | Depth to rock Excessive saturated hydraulic conductivity Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Restricted saturated hydraulic conductivity Slope Water erosion |
| Chama | Alkalinity Depth to rock Excessive saturated hydraulic conductivity Lime content Pesticide and nutrient leaching Pesticide and nutrient runoff Restricted saturated hydraulic conductivity Slope Surface crusting Water erosion Wind erosion |

POTENTIAL CROPLAND LIMITATION--continued
Oliver County, North Dakota

| Map Symbol and Component Name | Cropland Limitations and Hazards |
|-------------------------------|--|
| Zahl | Excessive saturated hydraulic conductivity Lime content Pesticide and nutrient leaching Pesticide and nutrient runoff Slope Water erosion Wind erosion |
| Amor | Depth to rock Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Restricted saturated hydraulic conductivity Slope Water erosion |
| Arnegard | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Slope Water erosion |
| Straw | Alkalinity Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff |

POTENTIAL CROPLAND LIMITATION--continued
Oliver County, North Dakota

| Map Symbol and Component Name | Cropland Limitations and Hazards |
|-------------------------------|--|
| CbE: Cabba | Alkalinity Depth to rock Excessive saturated hydraulic conductivity Lime content Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Restricted saturated hydraulic conductivity Slope Surface crusting Water erosion Wind erosion |
| Werner | Depth to rock Excessive saturated hydraulic conductivity Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Restricted saturated hydraulic conductivity Slope Water erosion |
| Chama | Alkalinity Depth to rock Excessive saturated hydraulic conductivity Lime content Pesticide and nutrient leaching Pesticide and nutrient runoff Restricted saturated hydraulic conductivity Slope Surface crusting Water erosion Wind erosion |

POTENTIAL CROPLAND LIMITATION--continued
Oliver County, North Dakota

| Map Symbol and Component Name | Cropland Limitations and Hazards |
|-------------------------------|---|
| Cherry | Excessive saturated hydraulic conductivity Lime content Pesticide and nutrient leaching Pesticide and nutrient runoff Restricted saturated hydraulic conductivity Slope Surface crusting Water erosion Wind erosion |
| Amor | Depth to rock Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Restricted saturated hydraulic conductivity Slope Water erosion |
| Arikara | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Slope |
| Arnegard | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Slope Water erosion |
| Zahl | Excessive saturated hydraulic conductivity Lime content Pesticide and nutrient leaching Pesticide and nutrient runoff Slope Water erosion Wind erosion |

POTENTIAL CROPLAND LIMITATION--continued
Oliver County, North Dakota

| Map Symbol and Component Name | Cropland Limitations and Hazards |
|-------------------------------|--|
| CgE: Cohagen | Alkalinity Depth to rock Excessive saturated hydraulic conductivity Limited available water capacity Limited organic matter Pesticide and nutrient leaching Pesticide and nutrient runoff Restricted saturated hydraulic conductivity Slope Surface crusting Water erosion Wind erosion |
| Rock outcrop | Onsite required |
| Vebar | Depth to rock Excessive saturated hydraulic conductivity Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Restricted saturated hydraulic conductivity Slope Water erosion Wind erosion |
| Parshall | Excessive saturated hydraulic conductivity Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Slope Water erosion Wind erosion |

POTENTIAL CROPLAND LIMITATION--continued
Oliver County, North Dakota

| Map Symbol and Component Name | Cropland Limitations and Hazards |
|-------------------------------|--|
| Tally | Excessive saturated hydraulic conductivity Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Slope Water erosion Wind erosion |
| Arnegard | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Slope Water erosion |
| Dogtooth | Depth to rock Excessive saturated hydraulic conductivity High sodium content Lime content Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Poor tilth and compaction Restricted saturated hydraulic conductivity Salt content Slope Surface crusting Water erosion |

POTENTIAL CROPLAND LIMITATION--continued
Oliver County, North Dakota

| Map Symbol and Component Name | Cropland Limitations and Hazards |
|-------------------------------|--|
| ChD: Cohagen | Alkalinity Depth to rock Excessive saturated hydraulic conductivity Limited available water capacity Limited organic matter Pesticide and nutrient leaching Pesticide and nutrient runoff Restricted saturated hydraulic conductivity Slope Surface crusting Water erosion Wind erosion |
| Vebar | Depth to rock Excessive saturated hydraulic conductivity Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Restricted saturated hydraulic conductivity Slope Water erosion Wind erosion |
| Parshall | Excessive saturated hydraulic conductivity Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Slope Water erosion Wind erosion |

POTENTIAL CROPLAND LIMITATION--continued
Oliver County, North Dakota

| Map Symbol and Component Name | Cropland Limitations and Hazards |
|-------------------------------|--|
| Tally | Excessive saturated hydraulic conductivity Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Slope Water erosion Wind erosion |
| Janesburg | Depth to rock Excessive saturated hydraulic conductivity High sodium content Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Poor tilth and compaction Restricted saturated hydraulic conductivity Salt content Slope Surface crusting Water erosion Wind erosion |
| Rock outcrop | Onsite required |
| Co: Colvin | Alkalinity Excessive saturated hydraulic conductivity High water table Lime content Pesticide and nutrient leaching Pesticide and nutrient runoff Ponding Surface crusting Wind erosion |

POTENTIAL CROPLAND LIMITATION--continued
Oliver County, North Dakota

| Map Symbol and Component Name | Cropland Limitations and Hazards |
|-------------------------------|--|
| Regan | Alkalinity Excessive saturated hydraulic conductivity High water table Lime content Pesticide and nutrient leaching Pesticide and nutrient runoff Ponding Surface crusting Wind erosion |
| Harriet | Alkalinity Excessive saturated hydraulic conductivity High sodium content High water table Lime content Pesticide and nutrient leaching Pesticide and nutrient runoff Ponding Poor tilth and compaction Restricted saturated hydraulic conductivity Salt content Surface crusting |
| Grassna | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching |
| Arnegard | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching |

POTENTIAL CROPLAND LIMITATION--continued
Oliver County, North Dakota

| Map Symbol and Component Name | Cropland Limitations and Hazards |
|-------------------------------|--|
| Dm: Dimmick | Excessive saturated hydraulic conductivity High water table Pesticide and nutrient leaching Pesticide and nutrient runoff Ponding Poor tilth and compaction Restricted saturated hydraulic conductivity |
| Heil | Excessive saturated hydraulic conductivity High sodium content High water table Pesticide and nutrient leaching Pesticide and nutrient runoff Ponding Poor tilth and compaction Restricted saturated hydraulic conductivity Salt content Surface crusting |
| Parnell | Excessive saturated hydraulic conductivity High water table Pesticide and nutrient leaching Pesticide and nutrient runoff Ponding Restricted saturated hydraulic conductivity |

POTENTIAL CROPLAND LIMITATION--continued
Oliver County, North Dakota

| Map Symbol and Component Name | Cropland Limitations and Hazards |
|-------------------------------|---|
| Regan | Alkalinity Excessive saturated hydraulic conductivity High water table Lime content Pesticide and nutrient leaching Pesticide and nutrient runoff Ponding Salt content Surface crusting Wind erosion |
| FaA: Farland | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching |
| Savage | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Poor tilth and compaction Restricted saturated hydraulic conductivity |
| Arnegard | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching |
| Straw | Alkalinity Excessive saturated hydraulic conductivity Pesticide and nutrient leaching |
| Belfield | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Restricted saturated hydraulic conductivity |

POTENTIAL CROPLAND LIMITATION--continued
Oliver County, North Dakota

| Map Symbol and Component Name | Cropland Limitations and Hazards |
|-------------------------------|--|
| Daglum | Excessive saturated hydraulic conductivity High sodium content Limited available water capacity Pesticide and nutrient leaching Poor tilth and compaction Restricted saturated hydraulic conductivity Salt content Surface crusting |
| FaB: Farland | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff |
| Savage | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Poor tilth and compaction Restricted saturated hydraulic conductivity |
| Arnegard | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching |
| Belfield | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Restricted saturated hydraulic conductivity |
| Straw | Alkalinity Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff |

POTENTIAL CROPLAND LIMITATION--continued
Oliver County, North Dakota

| Map Symbol and Component Name | Cropland Limitations and Hazards |
|-------------------------------|---|
| FcB: Flaxton | Excessive saturated hydraulic conductivity Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Slope Wind erosion |
| Livona | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Wind erosion |
| Ulen | Excessive saturated hydraulic conductivity High water table Lime content Pesticide and nutrient leaching Wind erosion |
| Williams | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Slope Wind erosion |
| Flaxton | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Wind erosion |
| Parshall | Excessive saturated hydraulic conductivity Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Wind erosion |

POTENTIAL CROPLAND LIMITATION--continued
Oliver County, North Dakota

| Map Symbol and Component Name | Cropland Limitations and Hazards |
|-------------------------------|--|
| FLA: Flaxton | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Wind erosion |
| Livona | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Wind erosion |
| Parshall | Excessive saturated hydraulic conductivity Limited available water capacity Pesticide and nutrient leaching Wind erosion |
| Williams | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Slope Wind erosion |
| Krem | Excessive saturated hydraulic conductivity Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Wind erosion |
| Arnegard | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching |

POTENTIAL CROPLAND LIMITATION--continued
Oliver County, North Dakota

| Map Symbol and Component Name | Cropland Limitations and Hazards |
|-------------------------------|--|
| Tonka | Excessive saturated hydraulic conductivity High water table Pesticide and nutrient leaching Pesticide and nutrient runoff Ponding Restricted saturated hydraulic conductivity |
| FlB: Flaxton | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Wind erosion |
| Livona | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Wind erosion |
| Parshall | Excessive saturated hydraulic conductivity Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Wind erosion |
| Arnegard | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff |
| Williams | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Slope Wind erosion |

POTENTIAL CROPLAND LIMITATION--continued
Oliver County, North Dakota

| Map Symbol and Component Name | Cropland Limitations and Hazards |
|-------------------------------|--|
| Krem | Excessive saturated hydraulic conductivity Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Wind erosion |
| Zahl | Excessive saturated hydraulic conductivity Lime content Pesticide and nutrient leaching Pesticide and nutrient runoff Wind erosion |
| Tonka | Excessive saturated hydraulic conductivity High water table Pesticide and nutrient leaching Pesticide and nutrient runoff Ponding Restricted saturated hydraulic conductivity |
| FlC: Flaxton | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Slope Wind erosion |
| Livona | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Slope Water erosion Wind erosion |

POTENTIAL CROPLAND LIMITATION--continued
Oliver County, North Dakota

| Map Symbol and Component Name | Cropland Limitations and Hazards |
|-------------------------------|---|
| Zahl | Excessive saturated hydraulic conductivity Lime content Pesticide and nutrient leaching Pesticide and nutrient runoff Slope Water erosion Wind erosion |
| Parshall | Excessive saturated hydraulic conductivity Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Slope Wind erosion |
| Williams | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Slope Wind erosion |
| Arnegard | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Slope Water erosion |
| Krem | Excessive saturated hydraulic conductivity Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Wind erosion |

POTENTIAL CROPLAND LIMITATION--continued
Oliver County, North Dakota

| Map Symbol and Component Name | Cropland Limitations and Hazards |
|-------------------------------|--|
| Tonka | Excessive saturated hydraulic conductivity High water table Pesticide and nutrient leaching Pesticide and nutrient runoff Ponding Restricted saturated hydraulic conductivity |
| FwA: Flaxton | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff |
| Williams | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff |
| Livona | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Wind erosion |
| Parshall | Excessive saturated hydraulic conductivity Limited available water capacity Pesticide and nutrient leaching Wind erosion |
| Arnegard | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching |
| Bowbells | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff |

POTENTIAL CROPLAND LIMITATION--continued
Oliver County, North Dakota

| Map Symbol and Component Name | Cropland Limitations and Hazards |
|-------------------------------|---|
| Noonan | Excessive saturated hydraulic conductivity High sodium content Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Poor tilth and compaction Restricted saturated hydraulic conductivity Salt content Surface crusting |
| Tonka | Excessive saturated hydraulic conductivity High water table Pesticide and nutrient leaching Pesticide and nutrient runoff Ponding Restricted saturated hydraulic conductivity |
| FwB: Flaxton | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff |
| Williams | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff |
| Livona | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Wind erosion |

POTENTIAL CROPLAND LIMITATION--continued
Oliver County, North Dakota

| Map Symbol and Component Name | Cropland Limitations and Hazards |
|-------------------------------|--|
| Parshall | Excessive saturated hydraulic conductivity Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Wind erosion |
| Zahl | Excessive saturated hydraulic conductivity Lime content Pesticide and nutrient leaching Pesticide and nutrient runoff Wind erosion |
| Bowbells | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff |
| Noonan | Excessive saturated hydraulic conductivity High sodium content Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Poor tilth and compaction Restricted saturated hydraulic conductivity Salt content Surface crusting Water erosion |
| Tonka | Excessive saturated hydraulic conductivity High water table Pesticide and nutrient leaching Pesticide and nutrient runoff Ponding Restricted saturated hydraulic conductivity |

POTENTIAL CROPLAND LIMITATION--continued
Oliver County, North Dakota

| Map Symbol and Component Name | Cropland Limitations and Hazards |
|-------------------------------|--|
| FxB: Flaxton | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Wind erosion |
| Williams | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff |
| Livona | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Wind erosion |
| Parshall | Excessive saturated hydraulic conductivity Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Wind erosion |
| Zahl | Excessive saturated hydraulic conductivity Lime content Pesticide and nutrient leaching Pesticide and nutrient runoff Wind erosion |

POTENTIAL CROPLAND LIMITATION--continued
Oliver County, North Dakota

| Map Symbol and Component Name | Cropland Limitations and Hazards |
|-------------------------------|--|
| Noonan | Excessive saturated hydraulic conductivity High sodium content Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Poor tilth and compaction Restricted saturated hydraulic conductivity Salt content Surface crusting Water erosion |
| Tally | Excessive saturated hydraulic conductivity Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Wind erosion |
| Tonka | Excessive saturated hydraulic conductivity High water table Pesticide and nutrient leaching Pesticide and nutrient runoff Ponding Restricted saturated hydraulic conductivity |
| FxC: Flaxton | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Slope Wind erosion |
| Williams | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Slope Water erosion |

POTENTIAL CROPLAND LIMITATION--continued
Oliver County, North Dakota

| Map Symbol and Component Name | Cropland Limitations and Hazards |
|-------------------------------|---|
| Livona | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Slope Water erosion Wind erosion |
| Zahl | Excessive saturated hydraulic conductivity Lime content Pesticide and nutrient leaching Pesticide and nutrient runoff Slope Water erosion Wind erosion |
| Parshall | Excessive saturated hydraulic conductivity Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Slope Wind erosion |
| Arnegard | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Slope Water erosion |

POTENTIAL CROPLAND LIMITATION--continued
Oliver County, North Dakota

| Map Symbol and Component Name | Cropland Limitations and Hazards |
|-------------------------------|---|
| Noonan | Excessive saturated hydraulic conductivity High sodium content Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Poor tilth and compaction Restricted saturated hydraulic conductivity Salt content Slope Surface crusting Water erosion |
| Tonka | Excessive saturated hydraulic conductivity High water table Pesticide and nutrient leaching Pesticide and nutrient runoff Ponding Restricted saturated hydraulic conductivity |
| FxD: Flaxton | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Slope Water erosion Wind erosion |
| Williams | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Slope Water erosion |

POTENTIAL CROPLAND LIMITATION--continued
Oliver County, North Dakota

| Map Symbol and Component Name | Cropland Limitations and Hazards |
|-------------------------------|--|
| Zahl | Excessive saturated hydraulic conductivity Lime content Pesticide and nutrient leaching Pesticide and nutrient runoff Slope Water erosion Wind erosion |
| Parshall | Excessive saturated hydraulic conductivity Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Slope Water erosion Wind erosion |
| Cabba | Alkalinity Depth to rock Excessive saturated hydraulic conductivity Lime content Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Restricted saturated hydraulic conductivity Slope Surface crusting Water erosion Wind erosion |
| Livona | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Slope Water erosion Wind erosion |

POTENTIAL CROPLAND LIMITATION--continued
Oliver County, North Dakota

| Map Symbol and Component Name | Cropland Limitations and Hazards |
|-------------------------------|--|
| Reeder | Depth to rock Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Restricted saturated hydraulic conductivity Slope Water erosion |
| Werner | Depth to rock Excessive saturated hydraulic conductivity Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Restricted saturated hydraulic conductivity Slope Water erosion |
| GaA: Grail | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Poor tilth and compaction Restricted saturated hydraulic conductivity |
| Savage | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Poor tilth and compaction Restricted saturated hydraulic conductivity |
| Belfield | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Restricted saturated hydraulic conductivity |

POTENTIAL CROPLAND LIMITATION--continued
Oliver County, North Dakota

| Map Symbol and Component Name | Cropland Limitations and Hazards |
|-------------------------------|--|
| Morton | Depth to rock Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Restricted saturated hydraulic conductivity |
| Sen | Depth to rock Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Restricted saturated hydraulic conductivity |
| GaB: Grail | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Poor tilth and compaction Restricted saturated hydraulic conductivity |
| Savage | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Poor tilth and compaction Restricted saturated hydraulic conductivity |
| Belfield | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Restricted saturated hydraulic conductivity |

POTENTIAL CROPLAND LIMITATION--continued
Oliver County, North Dakota

| Map Symbol and Component Name | Cropland Limitations and Hazards |
|-------------------------------|--|
| Morton | Depth to rock Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Restricted saturated hydraulic conductivity |
| Sen | Depth to rock Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Restricted saturated hydraulic conductivity |
| GcA: Grail | Pesticide and nutrient leaching Poor tilth and compaction Restricted saturated hydraulic conductivity |
| Belfield | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Restricted saturated hydraulic conductivity |
| Savage | Poor tilth and compaction Restricted saturated hydraulic conductivity |
| Lawther | Alkalinity Limited available water capacity Poor tilth and compaction Restricted saturated hydraulic conductivity Wind erosion |

POTENTIAL CROPLAND LIMITATION--continued
Oliver County, North Dakota

| Map Symbol and Component Name | Cropland Limitations and Hazards |
|-------------------------------|--|
| Morton | Depth to rock Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Restricted saturated hydraulic conductivity |
| Regent | Depth to rock Pesticide and nutrient leaching Pesticide and nutrient runoff Poor tilth and compaction Restricted saturated hydraulic conductivity |
| GcB: Grail | Pesticide and nutrient leaching Pesticide and nutrient runoff Poor tilth and compaction Restricted saturated hydraulic conductivity Water erosion |
| Lawther | Alkalinity Limited available water capacity Pesticide and nutrient runoff Poor tilth and compaction Restricted saturated hydraulic conductivity Wind erosion |
| Belfield | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Restricted saturated hydraulic conductivity Water erosion |

POTENTIAL CROPLAND LIMITATION--continued
Oliver County, North Dakota

| Map Symbol and Component Name | Cropland Limitations and Hazards |
|-------------------------------|---|
| Regent | Depth to rock Pesticide and nutrient leaching Pesticide and nutrient runoff Poor tilth and compaction Restricted saturated hydraulic conductivity |
| Savage | Pesticide and nutrient runoff Poor tilth and compaction Restricted saturated hydraulic conductivity |
| Morton | Depth to rock Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Restricted saturated hydraulic conductivity |
| GcC: Grail | Pesticide and nutrient runoff Poor tilth and compaction Restricted saturated hydraulic conductivity Slope Water erosion |
| Regent | Depth to rock Pesticide and nutrient leaching Pesticide and nutrient runoff Poor tilth and compaction Restricted saturated hydraulic conductivity Slope Water erosion |
| Arnegard | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Slope Water erosion |

POTENTIAL CROPLAND LIMITATION--continued
Oliver County, North Dakota

| Map Symbol and Component Name | Cropland Limitations and Hazards |
|-------------------------------|--|
| Morton | Depth to rock Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Restricted saturated hydraulic conductivity Slope Water erosion |
| Savage | Pesticide and nutrient runoff Poor tilth and compaction Restricted saturated hydraulic conductivity Slope Water erosion |
| Belfield | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Restricted saturated hydraulic conductivity Slope Water erosion |
| GnA: Grassna | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching |
| Mandan | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff |
| Linton | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff |

POTENTIAL CROPLAND LIMITATION--continued
Oliver County, North Dakota

| Map Symbol and Component Name | Cropland Limitations and Hazards |
|-------------------------------|---|
| Straw | Alkalinity Excessive saturated hydraulic conductivity Pesticide and nutrient leaching |
| Temvik | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff |
| Bowdle | Depth to sand and gravel Excessive saturated hydraulic conductivity Limited available water capacity Pesticide and nutrient leaching |
| GnB: Grassna | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff |
| Bryant | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff |
| Linton | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff |
| Mandan | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff |
| Straw | Alkalinity Excessive saturated hydraulic conductivity Pesticide and nutrient leaching |

POTENTIAL CROPLAND LIMITATION--continued
Oliver County, North Dakota

| Map Symbol and Component Name | Cropland Limitations and Hazards |
|-------------------------------|--|
| Temvik | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff |
| Bowdle | Depth to sand and gravel Excessive saturated hydraulic conductivity Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff |
| Gp: Pits | Alkalinity Depth to sand and gravel Excessive saturated hydraulic conductivity Lime content Limited available water capacity Limited organic matter Pesticide and nutrient leaching Pesticide and nutrient runoff Slope Surface rock fragments Water erosion |
| Ustorthents | Alkalinity Excessive saturated hydraulic conductivity Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Slope Surface crusting Water erosion Wind erosion |

POTENTIAL CROPLAND LIMITATION--continued
Oliver County, North Dakota

| Map Symbol and Component Name | Cropland Limitations and Hazards |
|-------------------------------|--|
| Lehr | Depth to sand and gravel Excessive saturated hydraulic conductivity Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Slope Water erosion |
| Stady | Depth to sand and gravel Excessive saturated hydraulic conductivity Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff |
| Wabek | Alkalinity Depth to sand and gravel Excessive saturated hydraulic conductivity Lime content Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Slope Surface crusting Water erosion |
| Straw | Alkalinity Excessive saturated hydraulic conductivity Pesticide and nutrient leaching |

POTENTIAL CROPLAND LIMITATION--continued
Oliver County, North Dakota

| Map Symbol and Component Name | Cropland Limitations and Hazards |
|-------------------------------|--|
| Ha: Harriet | Alkalinity Excessive saturated hydraulic conductivity High sodium content High water table Lime content Pesticide and nutrient leaching Pesticide and nutrient runoff Ponding Poor tilth and compaction Restricted saturated hydraulic conductivity Salt content Surface crusting |
| Regan | Alkalinity Excessive saturated hydraulic conductivity High water table Lime content Pesticide and nutrient leaching Pesticide and nutrient runoff Ponding Salt content Surface crusting Wind erosion |
| Regan | Alkalinity Excessive saturated hydraulic conductivity High water table Lime content Pesticide and nutrient leaching Pesticide and nutrient runoff Ponding Surface crusting Wind erosion |

POTENTIAL CROPLAND LIMITATION--continued
Oliver County, North Dakota

| Map Symbol and Component Name | Cropland Limitations and Hazards |
|-------------------------------|--|
| Colvin | Alkalinity Excessive saturated hydraulic conductivity High water table Lime content Pesticide and nutrient leaching Pesticide and nutrient runoff Ponding Surface crusting Wind erosion |
| Rhoades | Excessive saturated hydraulic conductivity High sodium content Lime content Limited available water capacity Pesticide and nutrient leaching Poor tilth and compaction Restricted saturated hydraulic conductivity Salt content Surface crusting |
| Straw | Alkalinity Excessive saturated hydraulic conductivity Pesticide and nutrient leaching |
| Hb: Havrelon | Excessive saturated hydraulic conductivity Lime content Pesticide and nutrient leaching Pesticide and nutrient runoff Surface crusting Wind erosion |

POTENTIAL CROPLAND LIMITATION--continued
Oliver County, North Dakota

| Map Symbol and Component Name | Cropland Limitations and Hazards |
|-------------------------------|--|
| Trembles | Alkalinity Excessive saturated hydraulic conductivity Lime content Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Surface crusting Wind erosion |
| Ridgelawn | Alkalinity Depth to sand and gravel Excessive saturated hydraulic conductivity Lime content Pesticide and nutrient leaching Pesticide and nutrient runoff Surface crusting Wind erosion |
| Lohler | Alkalinity Lime content Pesticide and nutrient leaching Pesticide and nutrient runoff Poor tilth and compaction Restricted saturated hydraulic conductivity Surface crusting Wind erosion |
| Banks | Excessive saturated hydraulic conductivity Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Wind erosion |

POTENTIAL CROPLAND LIMITATION--continued
Oliver County, North Dakota

| Map Symbol and Component Name | Cropland Limitations and Hazards |
|-------------------------------|---|
| Havrelon | Excessive saturated hydraulic conductivity Lime content Pesticide and nutrient leaching Pesticide and nutrient runoff Poor tilth and compaction Surface crusting Wind erosion |
| Lallie | Alkalinity Excessive saturated hydraulic conductivity Flooding High water table Lime content Pesticide and nutrient leaching Pesticide and nutrient runoff Ponding Poor tilth and compaction Restricted saturated hydraulic conductivity Surface crusting |
| Hc: Havrelon | Excessive saturated hydraulic conductivity Lime content Pesticide and nutrient leaching Pesticide and nutrient runoff Poor tilth and compaction Surface crusting Wind erosion |
| Havrelon | Excessive saturated hydraulic conductivity Lime content Pesticide and nutrient leaching Pesticide and nutrient runoff Surface crusting Wind erosion |

POTENTIAL CROPLAND LIMITATION--continued
Oliver County, North Dakota

| Map Symbol and Component Name | Cropland Limitations and Hazards |
|-------------------------------|---|
| Trembles | Alkalinity Excessive saturated hydraulic conductivity Lime content Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Surface crusting Wind erosion |
| Havrelon | Excessive saturated hydraulic conductivity Lime content Pesticide and nutrient leaching Pesticide and nutrient runoff Poor tilth and compaction Restricted saturated hydraulic conductivity Wind erosion |
| Lohler | Alkalinity Lime content Pesticide and nutrient leaching Pesticide and nutrient runoff Poor tilth and compaction Restricted saturated hydraulic conductivity Wind erosion |
| Lallie | Alkalinity Excessive saturated hydraulic conductivity Flooding High water table Lime content Pesticide and nutrient leaching Pesticide and nutrient runoff Ponding Poor tilth and compaction Restricted saturated hydraulic conductivity Surface crusting |

POTENTIAL CROPLAND LIMITATION--continued
Oliver County, North Dakota

| Map Symbol and Component Name | Cropland Limitations and Hazards |
|-------------------------------|--|
| Hd: Havrelon | Excessive saturated hydraulic conductivity Lime content Pesticide and nutrient leaching Pesticide and nutrient runoff Poor tilth and compaction Restricted saturated hydraulic conductivity Wind erosion |
| Havrelon | Excessive saturated hydraulic conductivity Lime content Pesticide and nutrient leaching Pesticide and nutrient runoff Poor tilth and compaction Surface crusting Wind erosion |
| Hoffmanville | Alkalinity Excessive saturated hydraulic conductivity Lime content Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Poor tilth and compaction Restricted saturated hydraulic conductivity Wind erosion |
| Lohler | Alkalinity Lime content Pesticide and nutrient leaching Pesticide and nutrient runoff Poor tilth and compaction Restricted saturated hydraulic conductivity Wind erosion |

POTENTIAL CROPLAND LIMITATION--continued
Oliver County, North Dakota

| Map Symbol and Component Name | Cropland Limitations and Hazards |
|-------------------------------|---|
| Scorio | Alkalinity Excessive saturated hydraulic conductivity Lime content Pesticide and nutrient leaching Pesticide and nutrient runoff Poor tilth and compaction Restricted saturated hydraulic conductivity Surface crusting Wind erosion |
| Trembles | Alkalinity Excessive saturated hydraulic conductivity Lime content Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Surface crusting Wind erosion |
| Lallie | Alkalinity Excessive saturated hydraulic conductivity Flooding High water table Lime content Pesticide and nutrient leaching Pesticide and nutrient runoff Ponding Poor tilth and compaction Restricted saturated hydraulic conductivity Surface crusting |

POTENTIAL CROPLAND LIMITATION--continued
Oliver County, North Dakota

| Map Symbol and Component Name | Cropland Limitations and Hazards |
|-------------------------------|--|
| Hm: Havrelon | Excessive saturated hydraulic conductivity Lime content Pesticide and nutrient leaching Pesticide and nutrient runoff Surface crusting Wind erosion |
| Trembles | Alkalinity Excessive saturated hydraulic conductivity Lime content Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Surface crusting Wind erosion |
| Banks | Excessive saturated hydraulic conductivity Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Wind erosion |
| Ridgelawn | Alkalinity Depth to sand and gravel Excessive saturated hydraulic conductivity Lime content Pesticide and nutrient leaching Pesticide and nutrient runoff Surface crusting Wind erosion |
| Havrelon | Excessive saturated hydraulic conductivity Lime content Pesticide and nutrient leaching Pesticide and nutrient runoff Surface crusting Wind erosion |

POTENTIAL CROPLAND LIMITATION--continued
Oliver County, North Dakota

| Map Symbol and Component Name | Cropland Limitations and Hazards |
|-------------------------------|---|
| Lohler | Alkalinity Lime content Pesticide and nutrient leaching Pesticide and nutrient runoff Poor tilth and compaction Restricted saturated hydraulic conductivity Wind erosion |
| Seroco | Excessive saturated hydraulic conductivity Limited available water capacity Limited organic matter Pesticide and nutrient leaching Pesticide and nutrient runoff Slope Water erosion Wind erosion |
| Lallie | Alkalinity Excessive saturated hydraulic conductivity Flooding High water table Lime content Pesticide and nutrient leaching Pesticide and nutrient runoff Ponding Poor tilth and compaction Restricted saturated hydraulic conductivity Surface crusting |

POTENTIAL CROPLAND LIMITATION--continued
Oliver County, North Dakota

| Map Symbol and Component Name | Cropland Limitations and Hazards |
|-------------------------------|--|
| Hs: | |
| Heil | Excessive saturated hydraulic conductivity High sodium content High water table Pesticide and nutrient leaching Pesticide and nutrient runoff Ponding Poor tilth and compaction Restricted saturated hydraulic conductivity Salt content Surface crusting Wind erosion |
| Dimmick | Excessive saturated hydraulic conductivity High water table Pesticide and nutrient leaching Pesticide and nutrient runoff Ponding Poor tilth and compaction Restricted saturated hydraulic conductivity |
| Rhoades | Excessive saturated hydraulic conductivity High sodium content Lime content Limited available water capacity Pesticide and nutrient leaching Poor tilth and compaction Restricted saturated hydraulic conductivity Salt content Surface crusting |

POTENTIAL CROPLAND LIMITATION--continued
Oliver County, North Dakota

| Map Symbol and Component Name | Cropland Limitations and Hazards |
|-------------------------------|---|
| Mckenzie | Alkalinity High water table Lime content Pesticide and nutrient leaching Pesticide and nutrient runoff Ponding Poor tilth and compaction Restricted saturated hydraulic conductivity Salt content Wind erosion |
| Regan | Alkalinity Excessive saturated hydraulic conductivity High water table Lime content Pesticide and nutrient leaching Pesticide and nutrient runoff Ponding Salt content Surface crusting Wind erosion |
| Tonka | Excessive saturated hydraulic conductivity High water table Pesticide and nutrient leaching Pesticide and nutrient runoff Ponding Restricted saturated hydraulic conductivity |

POTENTIAL CROPLAND LIMITATION--continued
Oliver County, North Dakota

| Map Symbol and Component Name | Cropland Limitations and Hazards |
|-------------------------------|---|
| La: | |
| Lallie | Alkalinity Flooding High water table Lime content Pesticide and nutrient leaching Pesticide and nutrient runoff Ponding Poor tilth and compaction Restricted saturated hydraulic conductivity Wind erosion |
| Seroco | Excessive saturated hydraulic conductivity Limited available water capacity Limited organic matter Pesticide and nutrient leaching Pesticide and nutrient runoff Slope Wind erosion |
| Havrelon | Excessive saturated hydraulic conductivity Lime content Pesticide and nutrient leaching Pesticide and nutrient runoff Poor tilth and compaction Restricted saturated hydraulic conductivity Wind erosion |
| Lohler | Alkalinity Lime content Pesticide and nutrient leaching Pesticide and nutrient runoff Poor tilth and compaction Restricted saturated hydraulic conductivity Wind erosion |

POTENTIAL CROPLAND LIMITATION--continued
Oliver County, North Dakota

| Map Symbol and Component Name | Cropland Limitations and Hazards |
|-------------------------------|---|
| Dimmick | Excessive saturated hydraulic conductivity High water table Pesticide and nutrient leaching Pesticide and nutrient runoff Ponding Poor tilth and compaction Restricted saturated hydraulic conductivity |
| Lb: Lallie | Alkalinity Flooding High water table Lime content Pesticide and nutrient leaching Pesticide and nutrient runoff Ponding Poor tilth and compaction Restricted saturated hydraulic conductivity |
| Lallie | Alkalinity Excessive saturated hydraulic conductivity Flooding High water table Lime content Pesticide and nutrient leaching Pesticide and nutrient runoff Ponding Poor tilth and compaction Restricted saturated hydraulic conductivity Surface crusting Wind erosion |

POTENTIAL CROPLAND LIMITATION--continued
Oliver County, North Dakota

| Map Symbol and Component Name | Cropland Limitations and Hazards |
|-------------------------------|--|
| Havrelon | Excessive saturated hydraulic conductivity Lime content Pesticide and nutrient leaching Pesticide and nutrient runoff Poor tilth and compaction Restricted saturated hydraulic conductivity Wind erosion |
| Lohler | Alkalinity Lime content Pesticide and nutrient leaching Pesticide and nutrient runoff Poor tilth and compaction Restricted saturated hydraulic conductivity Wind erosion |
| Minnewaukan | Excessive saturated hydraulic conductivity Flooding High water table Lime content Pesticide and nutrient leaching Pesticide and nutrient runoff Ponding Surface crusting Wind erosion |
| LcA: Lawther | Alkalinity Limited available water capacity Poor tilth and compaction Restricted saturated hydraulic conductivity Wind erosion |
| Savage | Poor tilth and compaction Restricted saturated hydraulic conductivity |

POTENTIAL CROPLAND LIMITATION--continued
Oliver County, North Dakota

| Map Symbol and Component Name | Cropland Limitations and Hazards |
|-------------------------------|--|
| Grail | Pesticide and nutrient leaching Poor tilth and compaction Restricted saturated hydraulic conductivity |
| Rhoades | Excessive saturated hydraulic conductivity High sodium content Lime content Limited available water capacity Pesticide and nutrient leaching Poor tilth and compaction Restricted saturated hydraulic conductivity Salt content Surface crusting |
| Moreau | Alkalinity Depth to rock Lime content Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Poor tilth and compaction Restricted saturated hydraulic conductivity Wind erosion |
| Regent | Depth to rock Pesticide and nutrient leaching Pesticide and nutrient runoff Poor tilth and compaction Restricted saturated hydraulic conductivity |

POTENTIAL CROPLAND LIMITATION--continued
Oliver County, North Dakota

| Map Symbol and Component Name | Cropland Limitations and Hazards |
|-------------------------------|--|
| Harriet | Alkalinity Excessive saturated hydraulic conductivity High sodium content High water table Lime content Pesticide and nutrient leaching Pesticide and nutrient runoff Ponding Poor tilth and compaction Restricted saturated hydraulic conductivity Salt content Surface crusting |
| LcB: Lawther | Alkalinity Limited available water capacity Pesticide and nutrient runoff Poor tilth and compaction Restricted saturated hydraulic conductivity Wind erosion |
| Grail | Pesticide and nutrient leaching Pesticide and nutrient runoff Poor tilth and compaction Restricted saturated hydraulic conductivity Water erosion |
| Regent | Depth to rock Pesticide and nutrient leaching Pesticide and nutrient runoff Poor tilth and compaction Restricted saturated hydraulic conductivity |
| Savage | Pesticide and nutrient runoff Poor tilth and compaction Restricted saturated hydraulic conductivity |

POTENTIAL CROPLAND LIMITATION--continued
Oliver County, North Dakota

| Map Symbol and Component Name | Cropland Limitations and Hazards |
|-------------------------------|--|
| Moreau | Alkalinity Depth to rock Lime content Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Poor tilth and compaction Restricted saturated hydraulic conductivity Wind erosion |
| LeA: Lefor | Depth to rock Excessive saturated hydraulic conductivity Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Restricted saturated hydraulic conductivity Wind erosion |
| Cohagen | Alkalinity Depth to rock Excessive saturated hydraulic conductivity Limited available water capacity Limited organic matter Pesticide and nutrient leaching Pesticide and nutrient runoff Restricted saturated hydraulic conductivity Surface crusting Wind erosion |
| Tally | Excessive saturated hydraulic conductivity Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Wind erosion |

POTENTIAL CROPLAND LIMITATION--continued
Oliver County, North Dakota

| Map Symbol and Component Name | Cropland Limitations and Hazards |
|-------------------------------|--|
| Vebar | Depth to rock Excessive saturated hydraulic conductivity Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Restricted saturated hydraulic conductivity Wind erosion |
| Morton | Depth to rock Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Restricted saturated hydraulic conductivity |
| Parshall | Excessive saturated hydraulic conductivity Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Wind erosion |
| Janesburg | Depth to rock Excessive saturated hydraulic conductivity High sodium content Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Poor tilth and compaction Restricted saturated hydraulic conductivity Salt content Surface crusting |

POTENTIAL CROPLAND LIMITATION--continued
Oliver County, North Dakota

| Map Symbol and Component Name | Cropland Limitations and Hazards |
|-------------------------------|--|
| LhA: Lihen | Excessive saturated hydraulic conductivity Limited available water capacity Pesticide and nutrient leaching Wind erosion |
| Parshall | Excessive saturated hydraulic conductivity Limited available water capacity Pesticide and nutrient leaching Wind erosion |
| Krem | Excessive saturated hydraulic conductivity Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Wind erosion |
| Lihen | Excessive saturated hydraulic conductivity Limited available water capacity Pesticide and nutrient leaching Wind erosion |
| Ruso | Depth to sand and gravel Excessive saturated hydraulic conductivity Limited available water capacity Pesticide and nutrient leaching Wind erosion |
| Telfer | Excessive saturated hydraulic conductivity Limited available water capacity Pesticide and nutrient leaching Wind erosion |

POTENTIAL CROPLAND LIMITATION--continued
Oliver County, North Dakota

| Map Symbol and Component Name | Cropland Limitations and Hazards |
|-------------------------------|--|
| LkA: Lihen | Excessive saturated hydraulic conductivity Limited available water capacity Pesticide and nutrient leaching Wind erosion |
| Parshall | Excessive saturated hydraulic conductivity Limited available water capacity Pesticide and nutrient leaching Wind erosion |
| Flaxton | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Wind erosion |
| Krem | Excessive saturated hydraulic conductivity Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Wind erosion |
| Lihen | Excessive saturated hydraulic conductivity Limited available water capacity Pesticide and nutrient leaching Wind erosion |
| Telfer | Excessive saturated hydraulic conductivity Limited available water capacity Pesticide and nutrient leaching Wind erosion |

POTENTIAL CROPLAND LIMITATION--continued
Oliver County, North Dakota

| Map Symbol and Component Name | Cropland Limitations and Hazards |
|-------------------------------|---|
| Seroco | Excessive saturated hydraulic conductivity Limited available water capacity Limited organic matter Pesticide and nutrient leaching Pesticide and nutrient runoff Slope Wind erosion |
| LLC: Linton | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Slope Water erosion |
| Mandan | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Slope Water erosion |
| Bryant | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff |
| Temvik | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Slope Water erosion |
| Wilton | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Slope Water erosion |

POTENTIAL CROPLAND LIMITATION--continued
Oliver County, North Dakota

| Map Symbol and Component Name | Cropland Limitations and Hazards |
|-------------------------------|--|
| Zahl | Excessive saturated hydraulic conductivity Lime content Pesticide and nutrient leaching Pesticide and nutrient runoff Slope Water erosion Wind erosion |
| Bowdle | Depth to sand and gravel Excessive saturated hydraulic conductivity Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Slope Water erosion |
| LnB: Linton | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff |
| Mandan | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff |
| Wilton | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff |
| Temvik | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff |
| Williams | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff |

POTENTIAL CROPLAND LIMITATION--continued
Oliver County, North Dakota

| Map Symbol and Component Name | Cropland Limitations and Hazards |
|-------------------------------|---|
| Bowdle | Depth to sand and gravel Excessive saturated hydraulic conductivity Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff |
| Tonka | Excessive saturated hydraulic conductivity High water table Pesticide and nutrient leaching Pesticide and nutrient runoff Ponding Restricted saturated hydraulic conductivity |
| Zahl | Excessive saturated hydraulic conductivity Lime content Pesticide and nutrient leaching Pesticide and nutrient runoff Wind erosion |
| Lo: Lohler | Alkalinity Lime content Pesticide and nutrient leaching Pesticide and nutrient runoff Poor tilth and compaction Restricted saturated hydraulic conductivity Wind erosion |
| Havrelon | Excessive saturated hydraulic conductivity Lime content Pesticide and nutrient leaching Pesticide and nutrient runoff Poor tilth and compaction Surface crusting Wind erosion |

POTENTIAL CROPLAND LIMITATION--continued
Oliver County, North Dakota

| Map Symbol and Component Name | Cropland Limitations and Hazards |
|-------------------------------|---|
| Havrelon | Excessive saturated hydraulic conductivity Lime content Pesticide and nutrient leaching Pesticide and nutrient runoff Poor tilth and compaction Restricted saturated hydraulic conductivity Wind erosion |
| Trembles | Alkalinity Excessive saturated hydraulic conductivity Lime content Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Surface crusting Wind erosion |
| Banks | Excessive saturated hydraulic conductivity Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Wind erosion |
| Lallie | Alkalinity Excessive saturated hydraulic conductivity Flooding High water table Lime content Pesticide and nutrient leaching Pesticide and nutrient runoff Ponding Poor tilth and compaction Restricted saturated hydraulic conductivity Surface crusting |
| M-W: Water | Onsite required |

POTENTIAL CROPLAND LIMITATION--continued
Oliver County, North Dakota

| Map Symbol and Component Name | Cropland Limitations and Hazards |
|-------------------------------|--|
| MaA: | |
| Mandan | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff |
| Linton | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff |
| Bowdle | Depth to sand and gravel Excessive saturated hydraulic conductivity Limited available water capacity Pesticide and nutrient leaching |
| Temvik | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff |
| Wilton | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff |
| Williams | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff |
| Tonka | Excessive saturated hydraulic conductivity High water table Pesticide and nutrient leaching Pesticide and nutrient runoff Ponding Restricted saturated hydraulic conductivity |

POTENTIAL CROPLAND LIMITATION--continued
Oliver County, North Dakota

| Map Symbol and Component Name | Cropland Limitations and Hazards |
|-------------------------------|--|
| MaB: Mandan | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff |
| Linton | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff |
| Bowdle | Depth to sand and gravel Excessive saturated hydraulic conductivity Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff |
| Temvik | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff |
| Williams | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff |
| Zahl | Excessive saturated hydraulic conductivity Lime content Pesticide and nutrient leaching Pesticide and nutrient runoff Wind erosion |
| Tonka | Excessive saturated hydraulic conductivity High water table Pesticide and nutrient leaching Pesticide and nutrient runoff Ponding Restricted saturated hydraulic conductivity |

POTENTIAL CROPLAND LIMITATION--continued
Oliver County, North Dakota

| Map Symbol and Component Name | Cropland Limitations and Hazards |
|-------------------------------|--|
| MbA: | |
| Mandan | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff |
| Bowdle | Depth to sand and gravel Excessive saturated hydraulic conductivity Limited available water capacity Pesticide and nutrient leaching |
| Linton | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff |
| Mandan | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff |
| Stady | Depth to sand and gravel Excessive saturated hydraulic conductivity Limited available water capacity Pesticide and nutrient leaching |
| MbB: | |
| Mandan | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff |
| Bowdle | Depth to sand and gravel Excessive saturated hydraulic conductivity Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff |

POTENTIAL CROPLAND LIMITATION--continued
Oliver County, North Dakota

| Map Symbol and Component Name | Cropland Limitations and Hazards |
|-------------------------------|--|
| Stady | Depth to sand and gravel Excessive saturated hydraulic conductivity Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff |
| Linton | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff |
| Mandan | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff |
| McB: Manning | Depth to sand and gravel Excessive saturated hydraulic conductivity Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Wind erosion |
| Stady | Depth to sand and gravel Excessive saturated hydraulic conductivity Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff |
| Parshall | Excessive saturated hydraulic conductivity Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Wind erosion |

POTENTIAL CROPLAND LIMITATION--continued
Oliver County, North Dakota

| Map Symbol and Component Name | Cropland Limitations and Hazards |
|-------------------------------|--|
| Ruso | Depth to sand and gravel Excessive saturated hydraulic conductivity Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Wind erosion |
| Tally | Excessive saturated hydraulic conductivity Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Wind erosion |
| Md: Dumps | Onsite required |
| Pits | Onsite required |
| Ustorhents | Alkalinity Depth to rock Excessive saturated hydraulic conductivity Lime content Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Restricted saturated hydraulic conductivity Slope Surface crusting Water erosion |
| Haplustolls | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Slope Water erosion |

POTENTIAL CROPLAND LIMITATION--continued
Oliver County, North Dakota

| Map Symbol and Component Name | Cropland Limitations and Hazards |
|-------------------------------|---|
| MoA: Morton | Depth to rock Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Restricted saturated hydraulic conductivity |
| Grail | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Poor tilth and compaction Restricted saturated hydraulic conductivity |
| Regent | Depth to rock Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Poor tilth and compaction Restricted saturated hydraulic conductivity |
| Sen | Depth to rock Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Restricted saturated hydraulic conductivity |
| Williams | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff |

POTENTIAL CROPLAND LIMITATION--continued
Oliver County, North Dakota

| Map Symbol and Component Name | Cropland Limitations and Hazards |
|-------------------------------|--|
| Heil | Excessive saturated hydraulic conductivity High sodium content High water table Pesticide and nutrient leaching Pesticide and nutrient runoff Ponding Poor tilth and compaction Restricted saturated hydraulic conductivity Salt content Surface crusting |
| MoB: Morton | Depth to rock Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Restricted saturated hydraulic conductivity |
| Sen | Depth to rock Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Restricted saturated hydraulic conductivity |
| Regent | Depth to rock Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Poor tilth and compaction Restricted saturated hydraulic conductivity Water erosion |

POTENTIAL CROPLAND LIMITATION--continued
Oliver County, North Dakota

| Map Symbol and Component Name | Cropland Limitations and Hazards |
|-------------------------------|--|
| Grail | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Poor tilth and compaction Restricted saturated hydraulic conductivity |
| Lefor | Depth to rock Excessive saturated hydraulic conductivity Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Restricted saturated hydraulic conductivity Wind erosion |
| Janesburg | Depth to rock Excessive saturated hydraulic conductivity High sodium content Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Poor tilth and compaction Restricted saturated hydraulic conductivity Salt content Surface crusting |
| Heil | Excessive saturated hydraulic conductivity High sodium content High water table Pesticide and nutrient leaching Pesticide and nutrient runoff Ponding Poor tilth and compaction Restricted saturated hydraulic conductivity Salt content Surface crusting |

POTENTIAL CROPLAND LIMITATION--continued
Oliver County, North Dakota

| Map Symbol and Component Name | Cropland Limitations and Hazards |
|-------------------------------|--|
| MoC: Morton | <ul style="list-style-type: none"> Depth to rock Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Restricted saturated hydraulic conductivity Slope Water erosion |
| Werner | <ul style="list-style-type: none"> Depth to rock Excessive saturated hydraulic conductivity Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Restricted saturated hydraulic conductivity Slope Water erosion |
| Cabba | <ul style="list-style-type: none"> Alkalinity Depth to rock Excessive saturated hydraulic conductivity Lime content Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Restricted saturated hydraulic conductivity Slope Surface crusting Water erosion Wind erosion |

POTENTIAL CROPLAND LIMITATION--continued
Oliver County, North Dakota

| Map Symbol and Component Name | Cropland Limitations and Hazards |
|-------------------------------|--|
| Grail | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Poor tilth and compaction Restricted saturated hydraulic conductivity |
| Janesburg | Depth to rock Excessive saturated hydraulic conductivity High sodium content Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Poor tilth and compaction Restricted saturated hydraulic conductivity Salt content Slope Surface crusting Water erosion |
| Sen | Depth to rock Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Restricted saturated hydraulic conductivity Slope Water erosion |
| Regent | Depth to rock Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Poor tilth and compaction Restricted saturated hydraulic conductivity Slope Water erosion |

POTENTIAL CROPLAND LIMITATION--continued
Oliver County, North Dakota

| Map Symbol and Component Name | Cropland Limitations and Hazards |
|-------------------------------|--|
| MoD: Morton | <ul style="list-style-type: none"> Depth to rock Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Restricted saturated hydraulic conductivity Slope Water erosion |
| Werner | <ul style="list-style-type: none"> Depth to rock Excessive saturated hydraulic conductivity Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Restricted saturated hydraulic conductivity Slope Water erosion |
| Cabba | <ul style="list-style-type: none"> Alkalinity Depth to rock Excessive saturated hydraulic conductivity Lime content Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Restricted saturated hydraulic conductivity Slope Surface crusting Water erosion Wind erosion |

POTENTIAL CROPLAND LIMITATION--continued
Oliver County, North Dakota

| Map Symbol and Component Name | Cropland Limitations and Hazards |
|-------------------------------|--|
| Dogtooth | Depth to rock Excessive saturated hydraulic conductivity High sodium content Lime content Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Poor tilth and compaction Restricted saturated hydraulic conductivity Salt content Slope Surface crusting Water erosion |
| Grail | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Poor tilth and compaction Restricted saturated hydraulic conductivity |
| Sen | Depth to rock Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Restricted saturated hydraulic conductivity Slope Water erosion |
| Regent | Depth to rock Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Poor tilth and compaction Restricted saturated hydraulic conductivity Slope Water erosion |

POTENTIAL CROPLAND LIMITATION--continued
Oliver County, North Dakota

| Map Symbol and Component Name | Cropland Limitations and Hazards |
|-------------------------------|--|
| MpA: Morton | Depth to rock Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Restricted saturated hydraulic conductivity |
| Janesburg | Depth to rock Excessive saturated hydraulic conductivity High sodium content Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Poor tilth and compaction Restricted saturated hydraulic conductivity Salt content Surface crusting |
| Regent | Depth to rock Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Poor tilth and compaction Restricted saturated hydraulic conductivity |
| Belfield | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Restricted saturated hydraulic conductivity |

POTENTIAL CROPLAND LIMITATION--continued
Oliver County, North Dakota

| Map Symbol and Component Name | Cropland Limitations and Hazards |
|-------------------------------|--|
| Dogtooth | Depth to rock Excessive saturated hydraulic conductivity High sodium content Lime content Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Poor tilth and compaction Restricted saturated hydraulic conductivity Salt content Surface crusting |
| Grail | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Poor tilth and compaction Restricted saturated hydraulic conductivity |
| Sen | Depth to rock Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Restricted saturated hydraulic conductivity |
| Williams | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff |
| MpB: Morton | Depth to rock Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Restricted saturated hydraulic conductivity |

POTENTIAL CROPLAND LIMITATION--continued
Oliver County, North Dakota

| Map Symbol and Component Name | Cropland Limitations and Hazards |
|-------------------------------|--|
| Janesburg | Depth to rock Excessive saturated hydraulic conductivity High sodium content Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Poor tilth and compaction Restricted saturated hydraulic conductivity Salt content Surface crusting |
| Regent | Depth to rock Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Poor tilth and compaction Restricted saturated hydraulic conductivity Water erosion |
| Dogtooth | Depth to rock Excessive saturated hydraulic conductivity High sodium content Lime content Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Poor tilth and compaction Restricted saturated hydraulic conductivity Salt content Surface crusting |
| Grail | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Poor tilth and compaction Restricted saturated hydraulic conductivity |

POTENTIAL CROPLAND LIMITATION--continued
Oliver County, North Dakota

| Map Symbol and Component Name | Cropland Limitations and Hazards |
|-------------------------------|--|
| Sen | Depth to rock Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Restricted saturated hydraulic conductivity |
| Belfield | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Restricted saturated hydraulic conductivity |
| Williams | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff |
| MpC: Morton | Depth to rock Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Restricted saturated hydraulic conductivity Slope Water erosion |

POTENTIAL CROPLAND LIMITATION--continued
Oliver County, North Dakota

| Map Symbol and Component Name | Cropland Limitations and Hazards |
|-------------------------------|--|
| Janesburg | Depth to rock Excessive saturated hydraulic conductivity High sodium content Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Poor tilth and compaction Restricted saturated hydraulic conductivity Salt content Slope Surface crusting Water erosion |
| Dogtooth | Depth to rock Excessive saturated hydraulic conductivity High sodium content Lime content Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Poor tilth and compaction Restricted saturated hydraulic conductivity Salt content Slope Surface crusting Water erosion |
| Regent | Depth to rock Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Poor tilth and compaction Restricted saturated hydraulic conductivity Slope Water erosion |

POTENTIAL CROPLAND LIMITATION--continued
Oliver County, North Dakota

| Map Symbol and Component Name | Cropland Limitations and Hazards |
|-------------------------------|--|
| Werner | Depth to rock Excessive saturated hydraulic conductivity Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Restricted saturated hydraulic conductivity Slope Water erosion |
| Grail | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Poor tilth and compaction Restricted saturated hydraulic conductivity |
| Sen | Depth to rock Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Restricted saturated hydraulic conductivity Slope Water erosion |
| MsC: Morton | Depth to rock Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Restricted saturated hydraulic conductivity Slope Surface stones Water erosion |

POTENTIAL CROPLAND LIMITATION--continued
Oliver County, North Dakota

| Map Symbol and Component Name | Cropland Limitations and Hazards |
|-------------------------------|--|
| Sen | Depth to rock Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Restricted saturated hydraulic conductivity Slope Surface stones Water erosion |
| Werner | Depth to rock Excessive saturated hydraulic conductivity Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Restricted saturated hydraulic conductivity Slope Water erosion |
| Williams | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Slope Surface stones Water erosion |
| Arnegard | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Slope Water erosion |

POTENTIAL CROPLAND LIMITATION--continued
Oliver County, North Dakota

| Map Symbol and Component Name | Cropland Limitations and Hazards |
|-------------------------------|--|
| Regent | Depth to rock Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Poor tilth and compaction Restricted saturated hydraulic conductivity Slope Water erosion |
| Mx: Pits | Onsite required |
| Dumps | Onsite required |
| NfB: Noonan | Excessive saturated hydraulic conductivity High sodium content Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Poor tilth and compaction Restricted saturated hydraulic conductivity Salt content Surface crusting Water erosion |
| Flaxton | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Wind erosion |
| Livona | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Wind erosion |

POTENTIAL CROPLAND LIMITATION--continued
Oliver County, North Dakota

| Map Symbol and Component Name | Cropland Limitations and Hazards |
|-------------------------------|--|
| Niobell | Excessive saturated hydraulic conductivity Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Poor tilth and compaction Restricted saturated hydraulic conductivity Root limiting Surface crusting Water erosion |
| Parshall | Excessive saturated hydraulic conductivity Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Wind erosion |
| Williams | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff |
| Tonka | Excessive saturated hydraulic conductivity High water table Pesticide and nutrient leaching Pesticide and nutrient runoff Ponding Restricted saturated hydraulic conductivity |
| Zahl | Excessive saturated hydraulic conductivity Lime content Pesticide and nutrient leaching Pesticide and nutrient runoff Wind erosion |

POTENTIAL CROPLAND LIMITATION--continued
Oliver County, North Dakota

| Map Symbol and Component Name | Cropland Limitations and Hazards |
|-------------------------------|---|
| Pa: Parnell | Excessive saturated hydraulic conductivity High water table Pesticide and nutrient leaching Pesticide and nutrient runoff Ponding Restricted saturated hydraulic conductivity |
| Tonka | Excessive saturated hydraulic conductivity High water table Pesticide and nutrient leaching Pesticide and nutrient runoff Ponding Restricted saturated hydraulic conductivity |
| Arnegard | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching |
| Vallers | Alkalinity Excessive saturated hydraulic conductivity High water table Lime content Pesticide and nutrient leaching Pesticide and nutrient runoff Ponding Surface crusting Wind erosion |

POTENTIAL CROPLAND LIMITATION--continued
Oliver County, North Dakota

| Map Symbol and Component Name | Cropland Limitations and Hazards |
|-------------------------------|--|
| Heil | Excessive saturated hydraulic conductivity High sodium content High water table Pesticide and nutrient leaching Pesticide and nutrient runoff Ponding Poor tilth and compaction Restricted saturated hydraulic conductivity Salt content Surface crusting |
| Tiffany | Excessive saturated hydraulic conductivity High water table Pesticide and nutrient leaching Pesticide and nutrient runoff Ponding Wind erosion |
| PbA: Parshall | Excessive saturated hydraulic conductivity Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Wind erosion |
| Tally | Excessive saturated hydraulic conductivity Limited available water capacity Pesticide and nutrient leaching Wind erosion |
| Arnegard | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching |

POTENTIAL CROPLAND LIMITATION--continued
Oliver County, North Dakota

| Map Symbol and Component Name | Cropland Limitations and Hazards |
|-------------------------------|--|
| Flaxton | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Wind erosion |
| Vebar | Depth to rock Excessive saturated hydraulic conductivity Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Restricted saturated hydraulic conductivity Wind erosion |
| Lihen | Excessive saturated hydraulic conductivity Limited available water capacity Pesticide and nutrient leaching Wind erosion |
| PcA: Parshall | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching |
| Arnegard | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching |
| Parshall | Excessive saturated hydraulic conductivity Limited available water capacity Pesticide and nutrient leaching Wind erosion |

POTENTIAL CROPLAND LIMITATION--continued
Oliver County, North Dakota

| Map Symbol and Component Name | Cropland Limitations and Hazards |
|-------------------------------|--|
| Vebar | Depth to rock Excessive saturated hydraulic conductivity Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Restricted saturated hydraulic conductivity Wind erosion |
| Flaxton | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Wind erosion |
| PcB: Parshall | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff |
| Shambo | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff |
| Arnegard | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff |
| Straw | Alkalinity Excessive saturated hydraulic conductivity Pesticide and nutrient leaching |
| Flaxton | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Wind erosion |

POTENTIAL CROPLAND LIMITATION--continued
Oliver County, North Dakota

| Map Symbol and Component Name | Cropland Limitations and Hazards |
|-------------------------------|--|
| Parshall | Excessive saturated hydraulic conductivity Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Wind erosion |
| Vebar | Depth to rock Excessive saturated hydraulic conductivity Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Restricted saturated hydraulic conductivity Wind erosion |
| PtC: Parshall | Excessive saturated hydraulic conductivity Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Slope Wind erosion |
| Tally | Excessive saturated hydraulic conductivity Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Slope Wind erosion |

POTENTIAL CROPLAND LIMITATION--continued
Oliver County, North Dakota

| Map Symbol and Component Name | Cropland Limitations and Hazards |
|-------------------------------|---|
| Vebar | Depth to rock Excessive saturated hydraulic conductivity Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Restricted saturated hydraulic conductivity Slope Wind erosion |
| Arnegard | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Slope Water erosion |
| Lihen | Excessive saturated hydraulic conductivity Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Slope Wind erosion |
| Flaxton | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Slope Wind erosion |
| Telfer | Excessive saturated hydraulic conductivity Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Slope Water erosion Wind erosion |

POTENTIAL CROPLAND LIMITATION--continued
Oliver County, North Dakota

| Map Symbol and Component Name | Cropland Limitations and Hazards |
|-------------------------------|--|
| Re: Regan | Alkalinity Excessive saturated hydraulic conductivity High water table Lime content Pesticide and nutrient leaching Pesticide and nutrient runoff Ponding Surface crusting |
| Regan | Alkalinity Excessive saturated hydraulic conductivity High water table Lime content Pesticide and nutrient leaching Pesticide and nutrient runoff Ponding Salt content Surface crusting Wind erosion |
| Harriet | Alkalinity Excessive saturated hydraulic conductivity High sodium content High water table Lime content Pesticide and nutrient leaching Pesticide and nutrient runoff Ponding Poor tilth and compaction Restricted saturated hydraulic conductivity Salt content Surface crusting |

POTENTIAL CROPLAND LIMITATION--continued
Oliver County, North Dakota

| Map Symbol and Component Name | Cropland Limitations and Hazards |
|-------------------------------|--|
| Regan | Alkalinity Excessive saturated hydraulic conductivity High water table Lime content Pesticide and nutrient leaching Pesticide and nutrient runoff Ponding Surface crusting Wind erosion |
| RgA: Regent | Depth to rock Pesticide and nutrient leaching Pesticide and nutrient runoff Poor tilth and compaction Restricted saturated hydraulic conductivity |
| Savage | Poor tilth and compaction Restricted saturated hydraulic conductivity |
| Grail | Pesticide and nutrient leaching Poor tilth and compaction Restricted saturated hydraulic conductivity |
| Janesburg | Depth to rock Excessive saturated hydraulic conductivity High sodium content Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Poor tilth and compaction Restricted saturated hydraulic conductivity Salt content Surface crusting |

POTENTIAL CROPLAND LIMITATION--continued
Oliver County, North Dakota

| Map Symbol and Component Name | Cropland Limitations and Hazards |
|-------------------------------|--|
| Morton | Depth to rock Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Restricted saturated hydraulic conductivity |
| Williams | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff |
| RgB: Regent | Depth to rock Pesticide and nutrient leaching Pesticide and nutrient runoff Poor tilth and compaction Restricted saturated hydraulic conductivity |
| Janesburg | Depth to rock Excessive saturated hydraulic conductivity High sodium content Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Poor tilth and compaction Restricted saturated hydraulic conductivity Salt content Surface crusting |
| Grail | Pesticide and nutrient leaching Poor tilth and compaction Restricted saturated hydraulic conductivity |

POTENTIAL CROPLAND LIMITATION--continued
Oliver County, North Dakota

| Map Symbol and Component Name | Cropland Limitations and Hazards |
|-------------------------------|--|
| Morton | Depth to rock Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Restricted saturated hydraulic conductivity |
| Savage | Pesticide and nutrient runoff Poor tilth and compaction Restricted saturated hydraulic conductivity |
| Williams | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff |
| RgC: Regent | Depth to rock Pesticide and nutrient leaching Pesticide and nutrient runoff Poor tilth and compaction Restricted saturated hydraulic conductivity Slope Water erosion |
| Cabba | Alkalinity Depth to rock Excessive saturated hydraulic conductivity Lime content Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Restricted saturated hydraulic conductivity Slope Surface crusting Water erosion Wind erosion |

POTENTIAL CROPLAND LIMITATION--continued
Oliver County, North Dakota

| Map Symbol and Component Name | Cropland Limitations and Hazards |
|-------------------------------|--|
| Morton | Depth to rock Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Restricted saturated hydraulic conductivity Slope Water erosion |
| Dogtooth | Depth to rock Excessive saturated hydraulic conductivity High sodium content Lime content Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Poor tilth and compaction Restricted saturated hydraulic conductivity Salt content Slope Surface crusting Water erosion |
| Grail | Pesticide and nutrient leaching Pesticide and nutrient runoff Poor tilth and compaction Restricted saturated hydraulic conductivity Water erosion |

POTENTIAL CROPLAND LIMITATION--continued
Oliver County, North Dakota

| Map Symbol and Component Name | Cropland Limitations and Hazards |
|-------------------------------|--|
| Wayden | Alkalinity Depth to rock Lime content Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Poor tilth and compaction Restricted saturated hydraulic conductivity Salt content Slope Water erosion Wind erosion |
| R1A: Regent | Depth to rock Pesticide and nutrient leaching Pesticide and nutrient runoff Poor tilth and compaction Restricted saturated hydraulic conductivity |
| Janesburg | Depth to rock Excessive saturated hydraulic conductivity High sodium content Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Poor tilth and compaction Restricted saturated hydraulic conductivity Salt content Surface crusting |

POTENTIAL CROPLAND LIMITATION--continued
Oliver County, North Dakota

| Map Symbol and Component Name | Cropland Limitations and Hazards |
|-------------------------------|--|
| Dogtooth | Depth to rock Excessive saturated hydraulic conductivity High sodium content Lime content Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Poor tilth and compaction Restricted saturated hydraulic conductivity Salt content Surface crusting |
| Belfield | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Restricted saturated hydraulic conductivity |
| Grail | Pesticide and nutrient leaching Poor tilth and compaction Restricted saturated hydraulic conductivity |
| Morton | Depth to rock Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Restricted saturated hydraulic conductivity |
| Savage | Poor tilth and compaction Restricted saturated hydraulic conductivity |
| Sen | Depth to rock Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Restricted saturated hydraulic conductivity |

POTENTIAL CROPLAND LIMITATION--continued
Oliver County, North Dakota

| Map Symbol and Component Name | Cropland Limitations and Hazards |
|-------------------------------|--|
| RLB: Regent | <ul style="list-style-type: none"> Depth to rock Pesticide and nutrient leaching Pesticide and nutrient runoff Poor tilth and compaction Restricted saturated hydraulic conductivity |
| Janesburg | <ul style="list-style-type: none"> Depth to rock Excessive saturated hydraulic conductivity High sodium content Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Poor tilth and compaction Restricted saturated hydraulic conductivity Salt content Surface crusting |
| Rhoades | <ul style="list-style-type: none"> Excessive saturated hydraulic conductivity High sodium content Lime content Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Poor tilth and compaction Restricted saturated hydraulic conductivity Salt content Surface crusting |

POTENTIAL CROPLAND LIMITATION--continued
Oliver County, North Dakota

| Map Symbol and Component Name | Cropland Limitations and Hazards |
|-------------------------------|--|
| Dogtooth | Depth to rock Excessive saturated hydraulic conductivity High sodium content Lime content Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Poor tilth and compaction Restricted saturated hydraulic conductivity Salt content Surface crusting |
| Belfield | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Restricted saturated hydraulic conductivity Water erosion |
| Grail | Pesticide and nutrient leaching Poor tilth and compaction Restricted saturated hydraulic conductivity |
| Morton | Depth to rock Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Restricted saturated hydraulic conductivity |
| Savage | Pesticide and nutrient runoff Poor tilth and compaction Restricted saturated hydraulic conductivity |

POTENTIAL CROPLAND LIMITATION--continued
Oliver County, North Dakota

| Map Symbol and Component Name | Cropland Limitations and Hazards |
|-------------------------------|--|
| RLC: Regent | <ul style="list-style-type: none"> Depth to rock Pesticide and nutrient leaching Pesticide and nutrient runoff Poor tilth and compaction Restricted saturated hydraulic conductivity Slope Water erosion |
| Janesburg | <ul style="list-style-type: none"> Depth to rock Excessive saturated hydraulic conductivity High sodium content Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Poor tilth and compaction Restricted saturated hydraulic conductivity Salt content Slope Surface crusting Water erosion |
| Dogtooth | <ul style="list-style-type: none"> Depth to rock Excessive saturated hydraulic conductivity High sodium content Lime content Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Poor tilth and compaction Restricted saturated hydraulic conductivity Salt content Slope Surface crusting Water erosion |

POTENTIAL CROPLAND LIMITATION--continued
Oliver County, North Dakota

| Map Symbol and Component Name | Cropland Limitations and Hazards |
|-------------------------------|---|
| Rhoades | Excessive saturated hydraulic conductivity High sodium content Lime content Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Poor tilth and compaction Restricted saturated hydraulic conductivity Salt content Surface crusting |
| Werner | Depth to rock Excessive saturated hydraulic conductivity Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Restricted saturated hydraulic conductivity Slope Water erosion |
| Morton | Depth to rock Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Restricted saturated hydraulic conductivity Slope Water erosion |
| Grail | Pesticide and nutrient leaching Pesticide and nutrient runoff Poor tilth and compaction Restricted saturated hydraulic conductivity Water erosion |

POTENTIAL CROPLAND LIMITATION--continued
Oliver County, North Dakota

| Map Symbol and Component Name | Cropland Limitations and Hazards |
|-------------------------------|---|
| Sen | Depth to rock Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Restricted saturated hydraulic conductivity Slope Water erosion |
| RoB: Rhoades | Excessive saturated hydraulic conductivity High sodium content Lime content Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Poor tilth and compaction Restricted saturated hydraulic conductivity Salt content Surface crusting |
| Daglum | Excessive saturated hydraulic conductivity High sodium content Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Poor tilth and compaction Restricted saturated hydraulic conductivity Salt content Surface crusting |
| Belfield | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Restricted saturated hydraulic conductivity |

POTENTIAL CROPLAND LIMITATION--continued
Oliver County, North Dakota

| Map Symbol and Component Name | Cropland Limitations and Hazards |
|-------------------------------|--|
| Farland | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff |
| Savage | Poor tilth and compaction Restricted saturated hydraulic conductivity |
| Harriet | Alkalinity Excessive saturated hydraulic conductivity High sodium content High water table Lime content Pesticide and nutrient leaching Pesticide and nutrient runoff Ponding Poor tilth and compaction Restricted saturated hydraulic conductivity Salt content Surface crusting |
| RvE: Ringling | Depth to sand and gravel Excessive saturated hydraulic conductivity Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Slope Surface crusting Water erosion |

POTENTIAL CROPLAND LIMITATION--continued
Oliver County, North Dakota

| Map Symbol and Component Name | Cropland Limitations and Hazards |
|-------------------------------|--|
| Cabba | Alkalinity Depth to rock Excessive saturated hydraulic conductivity Lime content Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Restricted saturated hydraulic conductivity Slope Surface crusting Water erosion Wind erosion |
| Dogtooth | Depth to rock Excessive saturated hydraulic conductivity High sodium content Lime content Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Poor tilth and compaction Restricted saturated hydraulic conductivity Salt content Slope Surface crusting Water erosion |
| Searing | Depth to sand and gravel Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Slope Water erosion |

POTENTIAL CROPLAND LIMITATION--continued
Oliver County, North Dakota

| Map Symbol and Component Name | Cropland Limitations and Hazards |
|-------------------------------|--|
| Shambo | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Slope Water erosion |
| Flasher | Alkalinity Depth to rock Excessive saturated hydraulic conductivity Lime content Limited available water capacity Limited organic matter Pesticide and nutrient leaching Pesticide and nutrient runoff Restricted saturated hydraulic conductivity Slope Water erosion Wind erosion |
| Rw: Riverwash | Excessive saturated hydraulic conductivity Flooding High water table Limited organic matter Pesticide and nutrient leaching Pesticide and nutrient runoff Poor tilth and compaction Wind erosion |
| Lallie | Alkalinity Flooding High water table Lime content Pesticide and nutrient leaching Pesticide and nutrient runoff Ponding Poor tilth and compaction Restricted saturated hydraulic conductivity |

POTENTIAL CROPLAND LIMITATION--continued
Oliver County, North Dakota

| Map Symbol and Component Name | Cropland Limitations and Hazards |
|-------------------------------|--|
| Banks | Excessive saturated hydraulic conductivity Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Wind erosion |
| Trembles | Alkalinity Excessive saturated hydraulic conductivity Lime content Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Surface crusting Wind erosion |
| SaA: Savage | Poor tilth and compaction Restricted saturated hydraulic conductivity |
| Grail | Pesticide and nutrient leaching Poor tilth and compaction Restricted saturated hydraulic conductivity |
| Belfield | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Restricted saturated hydraulic conductivity |
| Farland | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching |

POTENTIAL CROPLAND LIMITATION--continued
Oliver County, North Dakota

| Map Symbol and Component Name | Cropland Limitations and Hazards |
|-------------------------------|--|
| SeC: Sen | Depth to rock Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Restricted saturated hydraulic conductivity Slope Water erosion |
| Werner | Depth to rock Excessive saturated hydraulic conductivity Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Restricted saturated hydraulic conductivity Slope Water erosion |
| Zahl | Excessive saturated hydraulic conductivity Lime content Pesticide and nutrient leaching Pesticide and nutrient runoff Slope Water erosion Wind erosion |
| Golva | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Slope Water erosion |

POTENTIAL CROPLAND LIMITATION--continued
Oliver County, North Dakota

| Map Symbol and Component Name | Cropland Limitations and Hazards |
|-------------------------------|--|
| Arnegard | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Slope Water erosion |
| Cabba | Alkalinity Depth to rock Excessive saturated hydraulic conductivity Lime content Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Restricted saturated hydraulic conductivity Slope Surface crusting Water erosion Wind erosion |
| SmA: Amor | Depth to rock Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Restricted saturated hydraulic conductivity |
| Sen | Depth to rock Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Restricted saturated hydraulic conductivity |
| Arnegard | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching |

POTENTIAL CROPLAND LIMITATION--continued
Oliver County, North Dakota

| Map Symbol and Component Name | Cropland Limitations and Hazards |
|-------------------------------|--|
| Morton | Depth to rock Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Restricted saturated hydraulic conductivity |
| Golva | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching |
| Vebar | Depth to rock Excessive saturated hydraulic conductivity Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Restricted saturated hydraulic conductivity Wind erosion |
| Williams | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff |
| SmB: Amor | Depth to rock Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Restricted saturated hydraulic conductivity |
| Sen | Depth to rock Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Restricted saturated hydraulic conductivity |

POTENTIAL CROPLAND LIMITATION--continued
Oliver County, North Dakota

| Map Symbol and Component Name | Cropland Limitations and Hazards |
|-------------------------------|--|
| Arnegard | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff |
| Golva | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff |
| Vebar | Depth to rock Excessive saturated hydraulic conductivity Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Restricted saturated hydraulic conductivity Wind erosion |
| Morton | Depth to rock Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Restricted saturated hydraulic conductivity |
| Williams | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff |
| SmC: Amor | Depth to rock Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Restricted saturated hydraulic conductivity Slope Water erosion |

POTENTIAL CROPLAND LIMITATION--continued
Oliver County, North Dakota

| Map Symbol and Component Name | Cropland Limitations and Hazards |
|-------------------------------|--|
| Sen | Depth to rock Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Restricted saturated hydraulic conductivity Slope Water erosion |
| Vebar | Depth to rock Excessive saturated hydraulic conductivity Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Restricted saturated hydraulic conductivity Slope Wind erosion |
| Arnegard | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff |
| Cabba | Alkalinity Depth to rock Excessive saturated hydraulic conductivity Lime content Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Restricted saturated hydraulic conductivity Slope Surface crusting Water erosion Wind erosion |

POTENTIAL CROPLAND LIMITATION--continued
Oliver County, North Dakota

| Map Symbol and Component Name | Cropland Limitations and Hazards |
|-------------------------------|--|
| Morton | Depth to rock Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Restricted saturated hydraulic conductivity Slope Water erosion |
| Werner | Depth to rock Excessive saturated hydraulic conductivity Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Restricted saturated hydraulic conductivity Slope Water erosion |
| Williams | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Slope Water erosion |
| SmD: Amor | Depth to rock Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Restricted saturated hydraulic conductivity Slope Water erosion |

POTENTIAL CROPLAND LIMITATION--continued
Oliver County, North Dakota

| Map Symbol and Component Name | Cropland Limitations and Hazards |
|-------------------------------|--|
| Sen | Depth to rock Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Restricted saturated hydraulic conductivity Slope Water erosion |
| Vebar | Depth to rock Excessive saturated hydraulic conductivity Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Restricted saturated hydraulic conductivity Slope Water erosion Wind erosion |
| Arnegard | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Slope Water erosion |
| Cabba | Alkalinity Depth to rock Excessive saturated hydraulic conductivity Lime content Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Restricted saturated hydraulic conductivity Slope Surface crusting Water erosion Wind erosion |

POTENTIAL CROPLAND LIMITATION--continued
Oliver County, North Dakota

| Map Symbol and Component Name | Cropland Limitations and Hazards |
|-------------------------------|--|
| Werner | Depth to rock Excessive saturated hydraulic conductivity Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Restricted saturated hydraulic conductivity Slope Water erosion |
| Morton | Depth to rock Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Restricted saturated hydraulic conductivity Slope Water erosion |
| Williams | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Slope Water erosion |
| StA: Stady | Depth to sand and gravel Excessive saturated hydraulic conductivity Limited available water capacity Pesticide and nutrient leaching |
| Bowdle | Depth to sand and gravel Excessive saturated hydraulic conductivity Limited available water capacity Pesticide and nutrient leaching |

POTENTIAL CROPLAND LIMITATION--continued
Oliver County, North Dakota

| Map Symbol and Component Name | Cropland Limitations and Hazards |
|-------------------------------|---|
| Lehr | Depth to sand and gravel Excessive saturated hydraulic conductivity Limited available water capacity Pesticide and nutrient leaching |
| Arnegard | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching |
| Shambo | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching |
| Wabek | Alkalinity Depth to sand and gravel Excessive saturated hydraulic conductivity Lime content Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Slope Surface crusting |
| SuB: Stady | Depth to sand and gravel Excessive saturated hydraulic conductivity Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff |
| Lehr | Depth to sand and gravel Excessive saturated hydraulic conductivity Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff |

POTENTIAL CROPLAND LIMITATION--continued
Oliver County, North Dakota

| Map Symbol and Component Name | Cropland Limitations and Hazards |
|-------------------------------|---|
| Arnegard | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff |
| Wabek | Alkalinity Depth to sand and gravel Excessive saturated hydraulic conductivity Lime content Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Slope Surface crusting |
| Bowdle | Depth to sand and gravel Excessive saturated hydraulic conductivity Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff |
| Williams | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff |
| SuC: Stady | Depth to sand and gravel Excessive saturated hydraulic conductivity Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Slope Water erosion |

POTENTIAL CROPLAND LIMITATION--continued
Oliver County, North Dakota

| Map Symbol and Component Name | Cropland Limitations and Hazards |
|-------------------------------|---|
| Lehr | Depth to sand and gravel Excessive saturated hydraulic conductivity Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Slope Water erosion |
| Wabek | Alkalinity Depth to sand and gravel Excessive saturated hydraulic conductivity Lime content Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Slope Surface crusting |
| Arnegard | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Slope Water erosion |
| Bowdle | Depth to sand and gravel Excessive saturated hydraulic conductivity Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Slope Water erosion |
| Williams | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Slope Water erosion |

POTENTIAL CROPLAND LIMITATION--continued
Oliver County, North Dakota

| Map Symbol and Component Name | Cropland Limitations and Hazards |
|-------------------------------|--|
| SwA: Straw | Alkalinity Excessive saturated hydraulic conductivity Pesticide and nutrient leaching |
| Korchea | Excessive saturated hydraulic conductivity Lime content Pesticide and nutrient leaching Pesticide and nutrient runoff Surface crusting Wind erosion |
| Velva | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Wind erosion |
| Arnegard | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching |
| Rhoades | Excessive saturated hydraulic conductivity High sodium content Lime content Limited available water capacity Pesticide and nutrient leaching Poor tilth and compaction Restricted saturated hydraulic conductivity Salt content Surface crusting |

POTENTIAL CROPLAND LIMITATION--continued
Oliver County, North Dakota

| Map Symbol and Component Name | Cropland Limitations and Hazards |
|-------------------------------|---|
| Cabba | Alkalinity Depth to rock Excessive saturated hydraulic conductivity Lime content Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Restricted saturated hydraulic conductivity Surface crusting Wind erosion |
| Lallie | Alkalinity Excessive saturated hydraulic conductivity Flooding High water table Lime content Pesticide and nutrient leaching Pesticide and nutrient runoff Ponding Poor tilth and compaction Restricted saturated hydraulic conductivity Surface crusting |
| Sx: Channel | Onsite required |
| Straw | Alkalinity Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff |
| Velva | Excessive saturated hydraulic conductivity Flooding Pesticide and nutrient leaching Pesticide and nutrient runoff Wind erosion |

POTENTIAL CROPLAND LIMITATION--continued
Oliver County, North Dakota

| Map Symbol and Component Name | Cropland Limitations and Hazards |
|-------------------------------|--|
| Korchea | Excessive saturated hydraulic conductivity Flooding Lime content Pesticide and nutrient leaching Pesticide and nutrient runoff Surface crusting Wind erosion |
| Stady | Depth to sand and gravel Excessive saturated hydraulic conductivity Limited available water capacity Pesticide and nutrient leaching |
| Harriet | Alkalinity Excessive saturated hydraulic conductivity High sodium content High water table Lime content Pesticide and nutrient leaching Pesticide and nutrient runoff Ponding Poor tilth and compaction Restricted saturated hydraulic conductivity Salt content Surface crusting |
| Rhoades | Excessive saturated hydraulic conductivity High sodium content Lime content Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Poor tilth and compaction Restricted saturated hydraulic conductivity Salt content Surface crusting |

POTENTIAL CROPLAND LIMITATION--continued
Oliver County, North Dakota

| Map Symbol and Component Name | Cropland Limitations and Hazards |
|-------------------------------|--|
| Lallie | Alkalinity Flooding High water table Lime content Pesticide and nutrient leaching Pesticide and nutrient runoff Ponding Poor tilth and compaction Restricted saturated hydraulic conductivity |
| Sy: Regan | Alkalinity Excessive saturated hydraulic conductivity High water table Lime content Pesticide and nutrient leaching Pesticide and nutrient runoff Ponding Salt content Surface crusting Wind erosion |
| Harriet | Alkalinity Excessive saturated hydraulic conductivity High sodium content High water table Lime content Pesticide and nutrient leaching Pesticide and nutrient runoff Ponding Poor tilth and compaction Restricted saturated hydraulic conductivity Salt content Surface crusting |

POTENTIAL CROPLAND LIMITATION--continued
Oliver County, North Dakota

| Map Symbol and Component Name | Cropland Limitations and Hazards |
|-------------------------------|--|
| Rhoades | Excessive saturated hydraulic conductivity High sodium content Lime content Limited available water capacity Pesticide and nutrient leaching Poor tilth and compaction Restricted saturated hydraulic conductivity Salt content Surface crusting |
| Regan | Alkalinity Excessive saturated hydraulic conductivity High water table Lime content Pesticide and nutrient leaching Pesticide and nutrient runoff Ponding Surface crusting |
| Regan | Alkalinity Excessive saturated hydraulic conductivity High water table Lime content Pesticide and nutrient leaching Pesticide and nutrient runoff Ponding Salt content Surface crusting Wind erosion |
| TaB: Tally | Excessive saturated hydraulic conductivity Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Wind erosion |

POTENTIAL CROPLAND LIMITATION--continued
Oliver County, North Dakota

| Map Symbol and Component Name | Cropland Limitations and Hazards |
|-------------------------------|--|
| Parshall | Excessive saturated hydraulic conductivity Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Wind erosion |
| Vebar | Depth to rock Excessive saturated hydraulic conductivity Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Restricted saturated hydraulic conductivity Wind erosion |
| Lihen | Excessive saturated hydraulic conductivity Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Slope Wind erosion |
| Manning | Depth to sand and gravel Excessive saturated hydraulic conductivity Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Wind erosion |
| Lefor | Depth to rock Excessive saturated hydraulic conductivity Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Restricted saturated hydraulic conductivity Wind erosion |

POTENTIAL CROPLAND LIMITATION--continued
Oliver County, North Dakota

| Map Symbol and Component Name | Cropland Limitations and Hazards |
|-------------------------------|--|
| Telfer | Excessive saturated hydraulic conductivity Limited available water capacity Pesticide and nutrient leaching Wind erosion |
| TbA: Tally | Excessive saturated hydraulic conductivity Limited available water capacity Pesticide and nutrient leaching Wind erosion |
| Vebar | Depth to rock Excessive saturated hydraulic conductivity Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Restricted saturated hydraulic conductivity Wind erosion |
| Lefor | Depth to rock Excessive saturated hydraulic conductivity Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Restricted saturated hydraulic conductivity Wind erosion |
| Parshall | Excessive saturated hydraulic conductivity Limited available water capacity Pesticide and nutrient leaching Wind erosion |
| Arnegard | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching |

POTENTIAL CROPLAND LIMITATION--continued
Oliver County, North Dakota

| Map Symbol and Component Name | Cropland Limitations and Hazards |
|-------------------------------|--|
| Cohagen | Alkalinity Depth to rock Excessive saturated hydraulic conductivity Limited available water capacity Limited organic matter Pesticide and nutrient leaching Pesticide and nutrient runoff Restricted saturated hydraulic conductivity Surface crusting Wind erosion |
| TeD: Telfer | Excessive saturated hydraulic conductivity Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Slope Water erosion Wind erosion |
| Lihen | Excessive saturated hydraulic conductivity Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Slope Water erosion Wind erosion |
| Telfer | Excessive saturated hydraulic conductivity Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Slope Water erosion Wind erosion |

POTENTIAL CROPLAND LIMITATION--continued
Oliver County, North Dakota

| Map Symbol and Component Name | Cropland Limitations and Hazards |
|-------------------------------|--|
| Vebar | Depth to rock Excessive saturated hydraulic conductivity Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Restricted saturated hydraulic conductivity Slope Water erosion Wind erosion |
| Cohagen | Alkalinity Depth to rock Excessive saturated hydraulic conductivity Limited available water capacity Limited organic matter Pesticide and nutrient leaching Pesticide and nutrient runoff Restricted saturated hydraulic conductivity Slope Surface crusting Water erosion Wind erosion |
| Zahl | Excessive saturated hydraulic conductivity Lime content Pesticide and nutrient leaching Pesticide and nutrient runoff Slope Water erosion Wind erosion |
| TmA: Temvik | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff |

POTENTIAL CROPLAND LIMITATION--continued
Oliver County, North Dakota

| Map Symbol and Component Name | Cropland Limitations and Hazards |
|-------------------------------|--|
| Grassna | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching |
| Linton | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff |
| Williams | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff |
| Wilton | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff |
| Mandan | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff |
| Tonka | Excessive saturated hydraulic conductivity High water table Pesticide and nutrient leaching Pesticide and nutrient runoff Ponding Restricted saturated hydraulic conductivity |
| TwB: Temvik | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff |
| Williams | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff |

POTENTIAL CROPLAND LIMITATION--continued
Oliver County, North Dakota

| Map Symbol and Component Name | Cropland Limitations and Hazards |
|-------------------------------|--|
| Wilton | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff |
| Grassna | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching |
| Zahl | Excessive saturated hydraulic conductivity Lime content Pesticide and nutrient leaching Pesticide and nutrient runoff Wind erosion |
| Bryant | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff |
| Linton | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff |
| Tonka | Excessive saturated hydraulic conductivity High water table Pesticide and nutrient leaching Pesticide and nutrient runoff Ponding Restricted saturated hydraulic conductivity |
| TwC: Temvik | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Slope Water erosion |

POTENTIAL CROPLAND LIMITATION--continued
Oliver County, North Dakota

| Map Symbol and Component Name | Cropland Limitations and Hazards |
|-------------------------------|--|
| Williams | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Slope Water erosion |
| Zahl | Excessive saturated hydraulic conductivity Lime content Pesticide and nutrient leaching Pesticide and nutrient runoff Slope Water erosion Wind erosion |
| Arnegard | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Slope Water erosion |
| Wilton | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Slope Water erosion |
| Bryant | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Slope Water erosion |
| Grassna | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff |

POTENTIAL CROPLAND LIMITATION--continued
Oliver County, North Dakota

| Map Symbol and Component Name | Cropland Limitations and Hazards |
|-------------------------------|--|
| Mandan | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Slope Water erosion |
| TwD: Temvik | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Slope Water erosion |
| Williams | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Slope Water erosion |
| Zahl | Excessive saturated hydraulic conductivity Lime content Pesticide and nutrient leaching Pesticide and nutrient runoff Slope Water erosion Wind erosion |
| Bryant | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Slope Water erosion |

POTENTIAL CROPLAND LIMITATION--continued
Oliver County, North Dakota

| Map Symbol and Component Name | Cropland Limitations and Hazards |
|-------------------------------|---|
| Wilton | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Slope Water erosion |
| Arnegard | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Slope Water erosion |
| Tx: Tonka | Excessive saturated hydraulic conductivity High water table Pesticide and nutrient leaching Pesticide and nutrient runoff Ponding Restricted saturated hydraulic conductivity |
| Parnell | Excessive saturated hydraulic conductivity High water table Pesticide and nutrient leaching Pesticide and nutrient runoff Ponding Restricted saturated hydraulic conductivity |
| Regan | Alkalinity Excessive saturated hydraulic conductivity High water table Lime content Pesticide and nutrient leaching Pesticide and nutrient runoff Ponding Surface crusting |

POTENTIAL CROPLAND LIMITATION--continued
Oliver County, North Dakota

| Map Symbol and Component Name | Cropland Limitations and Hazards |
|-------------------------------|--|
| Heil | Excessive saturated hydraulic conductivity High sodium content High water table Pesticide and nutrient leaching Pesticide and nutrient runoff Ponding Poor tilth and compaction Restricted saturated hydraulic conductivity Salt content Surface crusting |
| Hamerly | Alkalinity Excessive saturated hydraulic conductivity High water table Lime content Pesticide and nutrient leaching Pesticide and nutrient runoff Surface crusting Wind erosion |
| Vallers | Alkalinity Excessive saturated hydraulic conductivity High water table Lime content Pesticide and nutrient leaching Pesticide and nutrient runoff Ponding Surface crusting Wind erosion |
| Arnegard | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching |

POTENTIAL CROPLAND LIMITATION--continued
Oliver County, North Dakota

| Map Symbol and Component Name | Cropland Limitations and Hazards |
|-------------------------------|--|
| VaC: Vebar | Depth to rock Excessive saturated hydraulic conductivity Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Restricted saturated hydraulic conductivity Slope Wind erosion |
| Amor | Depth to rock Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Restricted saturated hydraulic conductivity Slope Water erosion |
| Cohagen | Alkalinity Depth to rock Excessive saturated hydraulic conductivity Limited available water capacity Limited organic matter Pesticide and nutrient leaching Pesticide and nutrient runoff Restricted saturated hydraulic conductivity Slope Surface crusting Water erosion Wind erosion |

POTENTIAL CROPLAND LIMITATION--continued
Oliver County, North Dakota

| Map Symbol and Component Name | Cropland Limitations and Hazards |
|-------------------------------|---|
| Parshall | Excessive saturated hydraulic conductivity Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Slope Wind erosion |
| Arnegard | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Slope Water erosion |
| Tally | Excessive saturated hydraulic conductivity Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Slope Wind erosion |
| Williams | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Slope Water erosion |
| VbD: Vebar | Depth to rock Excessive saturated hydraulic conductivity Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Restricted saturated hydraulic conductivity Slope Surface stones |

POTENTIAL CROPLAND LIMITATION--continued
Oliver County, North Dakota

| Map Symbol and Component Name | Cropland Limitations and Hazards |
|-------------------------------|--|
| Cohagen | Alkalinity Depth to rock Excessive saturated hydraulic conductivity Limited available water capacity Limited organic matter Pesticide and nutrient leaching Pesticide and nutrient runoff Restricted saturated hydraulic conductivity Slope Surface crusting Water erosion Wind erosion |
| Parshall | Excessive saturated hydraulic conductivity Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Slope Water erosion Wind erosion |
| Tally | Excessive saturated hydraulic conductivity Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Slope Water erosion Wind erosion |
| Zahl | Excessive saturated hydraulic conductivity Lime content Pesticide and nutrient leaching Pesticide and nutrient runoff Slope Water erosion Wind erosion |

POTENTIAL CROPLAND LIMITATION--continued
Oliver County, North Dakota

| Map Symbol and Component Name | Cropland Limitations and Hazards |
|-------------------------------|--|
| Williams | <ul style="list-style-type: none"> Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Slope Surface stones Water erosion |
| VhD: Vebar | <ul style="list-style-type: none"> Depth to rock Excessive saturated hydraulic conductivity Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Restricted saturated hydraulic conductivity Slope Water erosion Wind erosion |
| Cohagen | <ul style="list-style-type: none"> Alkalinity Depth to rock Excessive saturated hydraulic conductivity Limited available water capacity Limited organic matter Pesticide and nutrient leaching Pesticide and nutrient runoff Restricted saturated hydraulic conductivity Slope Surface crusting Water erosion Wind erosion |

POTENTIAL CROPLAND LIMITATION--continued
Oliver County, North Dakota

| Map Symbol and Component Name | Cropland Limitations and Hazards |
|-------------------------------|---|
| Parshall | Excessive saturated hydraulic conductivity Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Slope Water erosion Wind erosion |
| Zahl | Excessive saturated hydraulic conductivity Lime content Pesticide and nutrient leaching Pesticide and nutrient runoff Slope Water erosion Wind erosion |
| Amor | Depth to rock Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Restricted saturated hydraulic conductivity Slope Water erosion |
| Wabek | Alkalinity Depth to sand and gravel Excessive saturated hydraulic conductivity Lime content Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Slope Surface crusting |

POTENTIAL CROPLAND LIMITATION--continued
Oliver County, North Dakota

| Map Symbol and Component Name | Cropland Limitations and Hazards |
|-------------------------------|--|
| Werner | Depth to rock Excessive saturated hydraulic conductivity Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Restricted saturated hydraulic conductivity Slope Water erosion |
| Williams | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Slope Water erosion |
| VkB: Vebar | Depth to rock Excessive saturated hydraulic conductivity Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Restricted saturated hydraulic conductivity Wind erosion |
| Tally | Excessive saturated hydraulic conductivity Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Wind erosion |
| Arnegard | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff |

POTENTIAL CROPLAND LIMITATION--continued
Oliver County, North Dakota

| Map Symbol and Component Name | Cropland Limitations and Hazards |
|-------------------------------|--|
| Parshall | Excessive saturated hydraulic conductivity Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Wind erosion |
| Amor | Depth to rock Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Restricted saturated hydraulic conductivity |
| Cohagen | Alkalinity Depth to rock Excessive saturated hydraulic conductivity Limited available water capacity Limited organic matter Pesticide and nutrient leaching Pesticide and nutrient runoff Restricted saturated hydraulic conductivity Surface crusting Wind erosion |
| Williams | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff |
| V1B: Vebar | Depth to rock Excessive saturated hydraulic conductivity Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Restricted saturated hydraulic conductivity |

POTENTIAL CROPLAND LIMITATION--continued
Oliver County, North Dakota

| Map Symbol and Component Name | Cropland Limitations and Hazards |
|-------------------------------|--|
| Tally | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff |
| Amor | Depth to rock Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Restricted saturated hydraulic conductivity |
| Williams | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff |
| Arnegard | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff |
| Werner | Depth to rock Excessive saturated hydraulic conductivity Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Restricted saturated hydraulic conductivity |
| VLC: Vebar | Depth to rock Excessive saturated hydraulic conductivity Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Restricted saturated hydraulic conductivity Slope Water erosion |

POTENTIAL CROPLAND LIMITATION--continued
Oliver County, North Dakota

| Map Symbol and Component Name | Cropland Limitations and Hazards |
|-------------------------------|---|
| Tally | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Slope Water erosion |
| Vebar | Depth to rock Excessive saturated hydraulic conductivity Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Restricted saturated hydraulic conductivity Slope Wind erosion |
| Williams | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Slope Water erosion |
| Arnegard | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Slope Water erosion |
| Tally | Excessive saturated hydraulic conductivity Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Slope Wind erosion |

POTENTIAL CROPLAND LIMITATION--continued
Oliver County, North Dakota

| Map Symbol and Component Name | Cropland Limitations and Hazards |
|-------------------------------|--|
| Vs: | |
| Velva | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Wind erosion |
| Straw | Alkalinity Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Wind erosion |
| Manning | Depth to sand and gravel Excessive saturated hydraulic conductivity Limited available water capacity Pesticide and nutrient leaching Wind erosion |
| Rhoades | Excessive saturated hydraulic conductivity High sodium content Lime content Limited available water capacity Pesticide and nutrient leaching Poor tilth and compaction Restricted saturated hydraulic conductivity Salt content Surface crusting |
| Stady | Depth to sand and gravel Excessive saturated hydraulic conductivity Limited available water capacity Pesticide and nutrient leaching |
| Straw | Alkalinity Excessive saturated hydraulic conductivity Pesticide and nutrient leaching |

POTENTIAL CROPLAND LIMITATION--continued
Oliver County, North Dakota

| Map Symbol and Component Name | Cropland Limitations and Hazards |
|-------------------------------|---|
| Velva | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching |
| Lallie | Alkalinity Excessive saturated hydraulic conductivity Flooding High water table Lime content Pesticide and nutrient leaching Pesticide and nutrient runoff Ponding Poor tilth and compaction Restricted saturated hydraulic conductivity Surface crusting |
| W: Water | Onsite required |
| WaD: Wabek | Alkalinity Depth to sand and gravel Excessive saturated hydraulic conductivity Lime content Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Slope Surface crusting Water erosion |
| Lehr | Depth to sand and gravel Excessive saturated hydraulic conductivity Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Slope Water erosion |

POTENTIAL CROPLAND LIMITATION--continued
Oliver County, North Dakota

| Map Symbol and Component Name | Cropland Limitations and Hazards |
|-------------------------------|--|
| Manning | Depth to sand and gravel Excessive saturated hydraulic conductivity Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Slope Water erosion Wind erosion |
| Werner | Depth to rock Excessive saturated hydraulic conductivity Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Restricted saturated hydraulic conductivity Slope Water erosion |
| Cabba | Alkalinity Depth to rock Excessive saturated hydraulic conductivity Lime content Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Restricted saturated hydraulic conductivity Slope Surface crusting Water erosion Wind erosion |
| Zahl | Excessive saturated hydraulic conductivity Lime content Pesticide and nutrient leaching Pesticide and nutrient runoff Slope Water erosion Wind erosion |

POTENTIAL CROPLAND LIMITATION--continued
Oliver County, North Dakota

| Map Symbol and Component Name | Cropland Limitations and Hazards |
|-------------------------------|--|
| WLA: Williams | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff |
| Bowbells | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff |
| Temvik | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff |
| Livona | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Wind erosion |
| Sen | Depth to rock Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Restricted saturated hydraulic conductivity |
| Tonka | Excessive saturated hydraulic conductivity High water table Pesticide and nutrient leaching Pesticide and nutrient runoff Ponding Restricted saturated hydraulic conductivity |

POTENTIAL CROPLAND LIMITATION--continued
Oliver County, North Dakota

| Map Symbol and Component Name | Cropland Limitations and Hazards |
|-------------------------------|--|
| Parnell | Excessive saturated hydraulic conductivity High water table Pesticide and nutrient leaching Pesticide and nutrient runoff Ponding Restricted saturated hydraulic conductivity |
| WLB: Williams | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff |
| Bowbells | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff |
| Temvik | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff |
| Zahl | Excessive saturated hydraulic conductivity Lime content Pesticide and nutrient leaching Pesticide and nutrient runoff Wind erosion |
| Livona | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Wind erosion |

POTENTIAL CROPLAND LIMITATION--continued
Oliver County, North Dakota

| Map Symbol and Component Name | Cropland Limitations and Hazards |
|-------------------------------|--|
| Tonka | Excessive saturated hydraulic conductivity High water table Pesticide and nutrient leaching Pesticide and nutrient runoff Ponding Restricted saturated hydraulic conductivity |
| Parnell | Excessive saturated hydraulic conductivity High water table Pesticide and nutrient leaching Pesticide and nutrient runoff Ponding Restricted saturated hydraulic conductivity |
| WLC: Williams | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Slope Water erosion |
| Zahl | Excessive saturated hydraulic conductivity Lime content Pesticide and nutrient leaching Pesticide and nutrient runoff Slope Water erosion Wind erosion |
| Bowbells | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Slope Water erosion |

POTENTIAL CROPLAND LIMITATION--continued
Oliver County, North Dakota

| Map Symbol and Component Name | Cropland Limitations and Hazards |
|-------------------------------|---|
| Amor | Depth to rock Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Restricted saturated hydraulic conductivity Slope Water erosion |
| Vebar | Depth to rock Excessive saturated hydraulic conductivity Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Restricted saturated hydraulic conductivity Slope Wind erosion |
| Temvik | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Slope Water erosion |
| Tonka | Excessive saturated hydraulic conductivity High water table Pesticide and nutrient leaching Pesticide and nutrient runoff Ponding Restricted saturated hydraulic conductivity |

POTENTIAL CROPLAND LIMITATION--continued
Oliver County, North Dakota

| Map Symbol and Component Name | Cropland Limitations and Hazards |
|-------------------------------|--|
| WmC: Williams | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Slope Surface stones Water erosion |
| Zahl | Excessive saturated hydraulic conductivity Lime content Pesticide and nutrient leaching Pesticide and nutrient runoff Slope Surface stones Water erosion Wind erosion |
| Bowbells | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Slope Water erosion |
| Tonka | Excessive saturated hydraulic conductivity High water table Pesticide and nutrient leaching Pesticide and nutrient runoff Ponding Restricted saturated hydraulic conductivity |
| WnC: Flaxton | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Slope Water erosion |

POTENTIAL CROPLAND LIMITATION--continued
Oliver County, North Dakota

| Map Symbol and Component Name | Cropland Limitations and Hazards |
|-------------------------------|--|
| Williams | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Slope Water erosion |
| Livona | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Slope Water erosion Wind erosion |
| Bowbells | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff |
| Parshall | Excessive saturated hydraulic conductivity Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Slope Wind erosion |
| Tonka | Excessive saturated hydraulic conductivity High water table Pesticide and nutrient leaching Pesticide and nutrient runoff Ponding Restricted saturated hydraulic conductivity |

POTENTIAL CROPLAND LIMITATION--continued
Oliver County, North Dakota

| Map Symbol and Component Name | Cropland Limitations and Hazards |
|-------------------------------|--|
| WzD: Williams | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Slope Water erosion |
| Zahl | Excessive saturated hydraulic conductivity Lime content Pesticide and nutrient leaching Pesticide and nutrient runoff Slope Water erosion Wind erosion |
| Bowbells | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff |
| Werner | Depth to rock Excessive saturated hydraulic conductivity Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Restricted saturated hydraulic conductivity Slope Water erosion |
| Amor | Depth to rock Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Restricted saturated hydraulic conductivity Slope Water erosion |

POTENTIAL CROPLAND LIMITATION--continued
Oliver County, North Dakota

| Map Symbol and Component Name | Cropland Limitations and Hazards |
|-------------------------------|--|
| Tonka | Excessive saturated hydraulic conductivity High water table Pesticide and nutrient leaching Pesticide and nutrient runoff Ponding Restricted saturated hydraulic conductivity |
| ZaD: Zahl | Excessive saturated hydraulic conductivity Lime content Pesticide and nutrient leaching Pesticide and nutrient runoff Slope Water erosion Wind erosion |
| Williams | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Slope Water erosion |
| Bowbells | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff |

POTENTIAL CROPLAND LIMITATION--continued
Oliver County, North Dakota

| Map Symbol and Component Name | Cropland Limitations and Hazards |
|-------------------------------|--|
| Cabba | Alkalinity Depth to rock Excessive saturated hydraulic conductivity Lime content Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Restricted saturated hydraulic conductivity Slope Surface crusting Water erosion Wind erosion |
| Temvik | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Slope Water erosion |
| Tonka | Excessive saturated hydraulic conductivity High water table Pesticide and nutrient leaching Pesticide and nutrient runoff Ponding Restricted saturated hydraulic conductivity |
| Wabek | Alkalinity Depth to sand and gravel Excessive saturated hydraulic conductivity Lime content Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Slope Surface crusting |

POTENTIAL CROPLAND LIMITATION--continued
Oliver County, North Dakota

| Map Symbol and Component Name | Cropland Limitations and Hazards |
|-------------------------------|--|
| Parnell | Excessive saturated hydraulic conductivity High water table Pesticide and nutrient leaching Pesticide and nutrient runoff Ponding Restricted saturated hydraulic conductivity |
| ZaE: Zahl | Excessive saturated hydraulic conductivity Lime content Pesticide and nutrient leaching Pesticide and nutrient runoff Slope Water erosion Wind erosion |
| Williams | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Slope Water erosion |
| Bowbells | Excessive saturated hydraulic conductivity Pesticide and nutrient leaching Pesticide and nutrient runoff Slope Water erosion |

POTENTIAL CROPLAND LIMITATION--continued
Oliver County, North Dakota

| Map Symbol and Component Name | Cropland Limitations and Hazards |
|-------------------------------|--|
| Cabba | Alkalinity Depth to rock Excessive saturated hydraulic conductivity Lime content Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Restricted saturated hydraulic conductivity Slope Surface crusting Water erosion Wind erosion |
| Cohagen | Alkalinity Depth to rock Excessive saturated hydraulic conductivity Limited available water capacity Limited organic matter Pesticide and nutrient leaching Pesticide and nutrient runoff Restricted saturated hydraulic conductivity Slope Surface crusting Water erosion Wind erosion |
| Wabek | Alkalinity Depth to sand and gravel Excessive saturated hydraulic conductivity Lime content Limited available water capacity Pesticide and nutrient leaching Pesticide and nutrient runoff Slope Surface crusting Water erosion |

POTENTIAL CROPLAND LIMITATION--continued
Oliver County, North Dakota

| Map Symbol and Component Name | Cropland Limitations and Hazards |
|-------------------------------|--|
| Parnell | Excessive saturated hydraulic conductivity High water table Pesticide and nutrient leaching Pesticide and nutrient runoff Ponding Restricted saturated hydraulic conductivity |
| Tonka | Excessive saturated hydraulic conductivity High water table Pesticide and nutrient leaching Pesticide and nutrient runoff Ponding Restricted saturated hydraulic conductivity |
