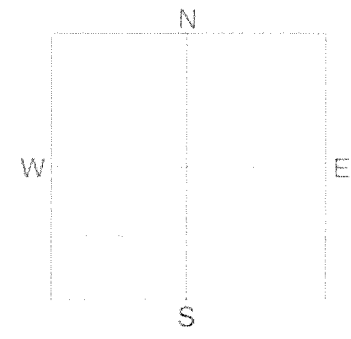




Soil Analysis by Agvise Laboratories  
(<http://www.agvise.com>)  
Northwood: (701) 587-6010  
Benson: (320) 843-4109

### SOIL TEST REPORT

FIELD ID **1**  
SAMPLE ID **3G**  
FIELD NAME  
COUNTY **3**  
TWP **2** RANGE  
SECTION **20** QTR **SW** ACRES **160**  
PREV. CROP **Potatoes**



SUBMITTED FOR:  
**BLUMENGART COLONY**

SUBMITTED BY: **KR3239**  
**KR CROP CHECK LIMITED**  
**12085 RD 23 W (DICKENS RD**  
**BOX 240**  
**WINKLER, MB** **R6W 4A5**

REF # **20896152** BOX # **506**  
LAB # **NW250136**

Date Sampled **11/02/2023**

Date Received **11/03/2023**

Date Reported **11/06/2023**

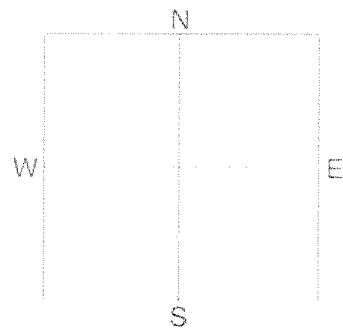
| Nutrient In The Soil |                              | Interpretation |     |     |      | 1st Crop Choice               |             |           | 2nd Crop Choice               |                                   |                 | 3rd Crop Choice               |              |              |
|----------------------|------------------------------|----------------|-----|-----|------|-------------------------------|-------------|-----------|-------------------------------|-----------------------------------|-----------------|-------------------------------|--------------|--------------|
|                      |                              | VLow           | Low | Med | High |                               |             |           |                               |                                   |                 |                               |              |              |
| 0-6"<br>6-24"        | 26 lb/acre<br>63 lb/acre     |                |     |     |      | YIELD GOAL                    |             |           | YIELD GOAL                    |                                   |                 | YIELD GOAL                    |              |              |
| 0-24"                | 89 lb/acre                   |                |     |     |      | SUGGESTED GUIDELINES          |             |           | SUGGESTED GUIDELINES          |                                   |                 | SUGGESTED GUIDELINES          |              |              |
| Nitrate              |                              |                |     |     |      | LB/ACRE                       | APPLICATION |           | LB/ACRE                       | APPLICATION                       |                 | LB/ACRE                       | APPLICATION  |              |
|                      |                              |                |     |     |      | N                             |             |           | N                             |                                   |                 | N                             |              |              |
|                      | Olsen                        | 39 ppm         |     |     |      | P <sub>2</sub> O <sub>5</sub> |             |           | P <sub>2</sub> O <sub>5</sub> |                                   |                 | P <sub>2</sub> O <sub>5</sub> |              |              |
|                      | Potassium                    | 311 ppm        |     |     |      | K <sub>2</sub> O              |             |           | K <sub>2</sub> O              |                                   |                 | K <sub>2</sub> O              |              |              |
|                      |                              |                |     |     |      | Cl                            |             |           | Cl                            |                                   |                 | Cl                            |              |              |
| Chloride             |                              |                |     |     |      | S                             |             |           | S                             |                                   |                 | S                             |              |              |
| 0-6"<br>6-24"        | 120 +lb/acre<br>360 +lb/acre |                |     |     |      | B                             |             |           | B                             |                                   |                 | B                             |              |              |
| Sulfur               |                              |                |     |     |      | Zn                            |             |           | Zn                            |                                   |                 | Zn                            |              |              |
| Boron                | 2.4 ppm                      |                |     |     |      | Fe                            |             |           | Fe                            |                                   |                 | Fe                            |              |              |
| Zinc                 | 3.63 ppm                     |                |     |     |      | Mn                            |             |           | Mn                            |                                   |                 | Mn                            |              |              |
| Iron                 | 13.2 ppm                     |                |     |     |      | Cu                            |             |           | Cu                            |                                   |                 | Cu                            |              |              |
| Manganese            | 3.4 ppm                      |                |     |     |      | Mg                            |             |           | Mg                            |                                   |                 | Mg                            |              |              |
| Copper               | 1.36 ppm                     |                |     |     |      | Lime                          |             |           | Lime                          |                                   |                 | Lime                          |              |              |
| Magnesium            | 679 ppm                      |                |     |     |      |                               |             |           |                               |                                   |                 |                               |              |              |
| Calcium              | 4096 ppm                     |                |     |     |      |                               |             |           |                               |                                   |                 |                               |              |              |
| Sodium               | 58 ppm                       |                |     |     |      |                               |             |           |                               |                                   |                 |                               |              |              |
| Org.Matter           | 5.1 %                        |                |     |     |      | Soil pH                       |             | Buffer pH | Cation Exchange Capacity      | % Base Saturation (Typical Range) |                 |                               |              |              |
| Carbonate(CCE)       | 1.0 %                        |                |     |     |      | 0-6" 7.9<br>6-24" 8.2         |             |           | 27.2 meq                      | % Ca                              | % Mg            | % K                           | % Na         | % H          |
| 0-6"<br>6-24"        | 0.92 mmho/cm<br>2.26 mmho/cm |                |     |     |      |                               |             |           |                               | (65-75)<br>75.3                   | (15-20)<br>20.8 | (1-7)<br>2.9                  | (0-5)<br>0.9 | (0-5)<br>0.0 |
| Sol. Salts           |                              |                |     |     |      |                               |             |           |                               |                                   |                 |                               |              |              |

General Comments: Soil texture is not estimated on high pH soils.



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Benson: (320) 843-4109

| SOIL TEST REPORT |              |       |    |
|------------------|--------------|-------|----|
| FIELD ID         | 2            |       |    |
| SAMPLE ID        | 1G           |       |    |
| FIELD NAME       |              |       |    |
| COUNTY           | 3            |       |    |
| TWP              | 2            | RANGE |    |
| SECTION          | 20           | QTR   | SE |
| ACRES            | 160          |       |    |
| PREV. CROP       | Wheat-Spring |       |    |



SUBMITTED FOR:  
**BLUMENGART COLONY**

SUBMITTED BY: **KR3239**  
**KR CROP CHECK LIMITED**  
**12085 RD 23 W (DICKENS RD**  
**BOX 240**  
**WINKLER, MB** **R6W 4A5**

REF # **20551931** BOX # **857**  
LAB # **NW64637**

Date Sampled **08/29/2023** Date Received **08/31/2023** Date Reported **09/01/2023**

| Nutrient In The Soil |       | Interpretation               |       |     |      | 1st Crop Choice |                      |  | 2nd Crop Choice |                      |  | 3rd Crop Choice |                      |  |  |
|----------------------|-------|------------------------------|-------|-----|------|-----------------|----------------------|--|-----------------|----------------------|--|-----------------|----------------------|--|--|
|                      |       | VLow                         | Low   | Med | High |                 |                      |  |                 |                      |  |                 |                      |  |  |
| Nitrate              | 0-6"  | 18 lb/acre                   |       |     |      |                 | YIELD GOAL           |  |                 | YIELD GOAL           |  |                 | YIELD GOAL           |  |  |
|                      | 0-24" |                              | ***** |     |      |                 | SUGGESTED GUIDELINES |  |                 | SUGGESTED GUIDELINES |  |                 | SUGGESTED GUIDELINES |  |  |
|                      |       |                              |       |     |      |                 |                      |  |                 |                      |  |                 |                      |  |  |
|                      |       |                              |       |     |      |                 |                      |  |                 |                      |  |                 |                      |  |  |
|                      |       |                              |       |     |      |                 |                      |  |                 |                      |  |                 |                      |  |  |
|                      |       |                              |       |     |      |                 |                      |  |                 |                      |  |                 |                      |  |  |
| Phosphorus           | Olsen | 30 ppm                       | ***** |     |      |                 |                      |  |                 |                      |  |                 |                      |  |  |
| Potassium            |       | 199 ppm                      | ***** |     |      |                 |                      |  |                 |                      |  |                 |                      |  |  |
| Chloride             |       |                              |       |     |      |                 |                      |  |                 |                      |  |                 |                      |  |  |
|                      | 0-6"  | 38 lb/acre<br>280 lb/acre    | ***** |     |      |                 |                      |  |                 |                      |  |                 |                      |  |  |
|                      | 0-24" |                              | ***** |     |      |                 |                      |  |                 |                      |  |                 |                      |  |  |
|                      |       |                              |       |     |      |                 |                      |  |                 |                      |  |                 |                      |  |  |
|                      |       |                              |       |     |      |                 |                      |  |                 |                      |  |                 |                      |  |  |
|                      |       |                              |       |     |      |                 |                      |  |                 |                      |  |                 |                      |  |  |
| Sulfur               |       |                              |       |     |      |                 |                      |  |                 |                      |  |                 |                      |  |  |
| Boron                |       | 0.9 ppm                      | ***** |     |      |                 |                      |  |                 |                      |  |                 |                      |  |  |
| Zinc                 |       | 4.27 ppm                     | ***** |     |      |                 |                      |  |                 |                      |  |                 |                      |  |  |
| Iron                 |       | 16.5 ppm                     | ***** |     |      |                 |                      |  |                 |                      |  |                 |                      |  |  |
| Manganese            |       | 2.3 ppm                      | ***** |     |      |                 |                      |  |                 |                      |  |                 |                      |  |  |
| Copper               |       | 1.13 ppm                     | ***** |     |      |                 |                      |  |                 |                      |  |                 |                      |  |  |
| Magnesium            |       | 481 ppm                      | ***** |     |      |                 |                      |  |                 |                      |  |                 |                      |  |  |
| Calcium              |       | 3049 ppm                     | ***** |     |      |                 |                      |  |                 |                      |  |                 |                      |  |  |
| Sodium               |       | 21 ppm                       | ***   |     |      |                 |                      |  |                 |                      |  |                 |                      |  |  |
| Org.Matter           |       | 2.9 %                        | ***** |     |      |                 |                      |  |                 |                      |  |                 |                      |  |  |
| Carbonate(CCE)       |       | 0.7 %                        | ****  |     |      |                 |                      |  |                 |                      |  |                 |                      |  |  |
|                      | 0-6"  | 0.28 mmho/cm<br>0.35 mmho/cm | ***** |     |      |                 |                      |  |                 |                      |  |                 |                      |  |  |
| Sol. Salts           | 0-24" |                              | ***** |     |      |                 |                      |  |                 |                      |  |                 |                      |  |  |

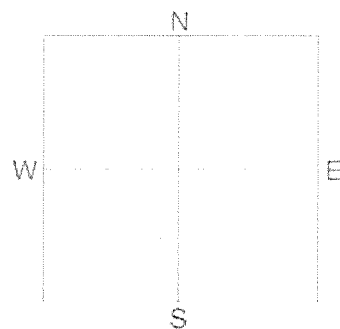
General Comments: Medium-textured (CEC: 11-30 meq)



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Northwood: (701) 587-6010  
Benson: (320) 843-4109

**SOIL TEST REPORT**

FIELD ID **3N**  
 SAMPLE ID **1G**  
 FIELD NAME  
 COUNTY **3**  
 TWP **2** RANGE  
 SECTION **21** QTRS **S** ACRES **150**  
 PREV. CROP **Corn-Grain**



SUBMITTED FOR:  
**BLUMENGART COLONY**

SUBMITTED BY: **KR3239**  
**KR CROP CHECK LIMITED**  
**12085 RD 23 W (DICKENS RD**  
**BOX 240**  
**WINKLER, MB** **R6W 4A5**

REF # **20895046** BOX # **11055**  
 LAB # **NW209461**

Date Sampled **10/19/2023** Date Received **10/20/2023** Date Reported **10/24/2023**

| Nutrient In The Soil |              | Interpretation |     |     |      | 1st Crop Choice               |             |                          | 2nd Crop Choice                   |             |       | 3rd Crop Choice               |             |  |
|----------------------|--------------|----------------|-----|-----|------|-------------------------------|-------------|--------------------------|-----------------------------------|-------------|-------|-------------------------------|-------------|--|
|                      |              | VLow           | Low | Med | High |                               |             |                          |                                   |             |       |                               |             |  |
| 0-6"                 | 34 lb/acre   |                |     |     |      | YIELD GOAL                    |             |                          | YIELD GOAL                        |             |       | YIELD GOAL                    |             |  |
| 0-24"                | 72 lb/acre   |                |     |     |      | SUGGESTED GUIDELINES          |             |                          | SUGGESTED GUIDELINES              |             |       | SUGGESTED GUIDELINES          |             |  |
| Nitrate              |              |                |     |     |      | LB/ACRE                       | APPLICATION |                          | LB/ACRE                           | APPLICATION |       | LB/ACRE                       | APPLICATION |  |
|                      |              |                |     |     |      | N                             |             |                          | N                                 |             |       | N                             |             |  |
|                      |              |                |     |     |      | P <sub>2</sub> O <sub>5</sub> |             |                          | P <sub>2</sub> O <sub>5</sub>     |             |       | P <sub>2</sub> O <sub>5</sub> |             |  |
|                      |              |                |     |     |      | K <sub>2</sub> O              |             |                          | K <sub>2</sub> O                  |             |       | K <sub>2</sub> O              |             |  |
| Olsen                | 46 ppm       |                |     |     |      | Cl                            |             |                          | Cl                                |             |       | Cl                            |             |  |
| Phosphorus           |              |                |     |     |      | S                             |             |                          | S                                 |             |       | S                             |             |  |
| Potassium            | 206 ppm      |                |     |     |      | B                             |             |                          | B                                 |             |       | B                             |             |  |
|                      |              |                |     |     |      | Zn                            |             |                          | Zn                                |             |       | Zn                            |             |  |
| Chloride             |              |                |     |     |      | Fe                            |             |                          | Fe                                |             |       | Fe                            |             |  |
| 0-6"                 | 34 lb/acre   |                |     |     |      | Mn                            |             |                          | Mn                                |             |       | Mn                            |             |  |
| 0-24"                | 216 lb/acre  |                |     |     |      | Cu                            |             |                          | Cu                                |             |       | Cu                            |             |  |
| Sulfur               |              |                |     |     |      | Mg                            |             |                          | Mg                                |             |       | Mg                            |             |  |
| Boron                | 0.8 ppm      |                |     |     |      | Lime                          |             |                          | Lime                              |             |       | Lime                          |             |  |
| Zinc                 | 6.28 ppm     |                |     |     |      |                               |             |                          |                                   |             |       |                               |             |  |
| Iron                 | 31.1 ppm     |                |     |     |      |                               |             |                          |                                   |             |       |                               |             |  |
| Manganese            | 4.3 ppm      |                |     |     |      |                               |             |                          |                                   |             |       |                               |             |  |
| Copper               | 1.26 ppm     |                |     |     |      |                               |             |                          |                                   |             |       |                               |             |  |
| Magnesium            | 498 ppm      |                |     |     |      |                               |             |                          |                                   |             |       |                               |             |  |
| Calcium              | 2548 ppm     |                |     |     |      |                               |             |                          |                                   |             |       |                               |             |  |
| Sodium               | 30 ppm       | ****           |     |     |      |                               |             |                          |                                   |             |       |                               |             |  |
| Org.Matter           | 3.4 %        | *****          |     |     |      |                               |             |                          |                                   |             |       |                               |             |  |
| Carbonate(CCE)       | 0.2 %        | *              |     |     |      | Soil pH                       | Buffer pH   | Cation Exchange Capacity | % Base Saturation (Typical Range) |             |       |                               |             |  |
|                      |              |                |     |     |      |                               |             |                          | % Ca                              | % Mg        | % K   | % Na                          | % H         |  |
| 0-6"                 | 0.36 mmho/cm | *****          |     |     |      | 0-6" 7.1                      |             | 17.7 meq                 | (65-75)                           | (15-20)     | (1-7) | (0-5)                         | (0-5)       |  |
| 0-24"                | 0.35 mmho/cm | *****          |     |     |      | 6-24" 8.1                     |             |                          | 71.9                              | 23.4        | 3.0   | 0.7                           | 0.9         |  |
| Sol. Salts           |              |                |     |     |      |                               |             |                          |                                   |             |       |                               |             |  |

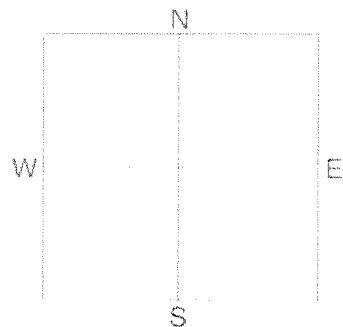
General Comments: Medium-textured (CEC: 11-30 meq)  
 Percent hydrogen is estimated from water pH, CEC corrected for exchangeable acidity.



Soil Analysis by Agvise Laboratories  
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Benson: (320) 843-4109

## SOIL TEST REPORT

FIELD ID **5E**  
SAMPLE ID **1G**  
FIELD NAME  
COUNTY **3**  
TWP **2** RANGE  
SECTION **21** QTR **NE** ACRES **160**  
PREV. CROP **Potatoes**



SUBMITTED FOR:  
**BLUMENGART COLONY**

SUBMITTED BY: **KR3239**  
**KR CROP CHECK LIMITED**  
**12085 RD 23 W (DICKENS RD**  
**BOX 240**  
**WINKLER, MB** **R6W 4A5**

REF # **20896186** BOX # **152**  
LAB # **NW244965**

Date Sampled **10/31/2023**

Date Received **11/01/2023**

Date Reported **11/04/2023**

| Nutrient In The Soil |              | Interpretation |     |     |      | 1st Crop Choice               |  | 2nd Crop Choice               |  | 3rd Crop Choice                   |         |
|----------------------|--------------|----------------|-----|-----|------|-------------------------------|--|-------------------------------|--|-----------------------------------|---------|
|                      |              | VLow           | Low | Med | High |                               |  |                               |  |                                   |         |
| Nitrate              | 0-6"         |                |     |     |      | YIELD GOAL                    |  | YIELD GOAL                    |  | YIELD GOAL                        |         |
|                      | 6-24"        |                |     |     |      | SUGGESTED GUIDELINES          |  | SUGGESTED GUIDELINES          |  | SUGGESTED GUIDELINES              |         |
|                      | 0-24"        |                |     |     |      | LB/ACRE APPLICATION           |  | LB/ACRE APPLICATION           |  | LB/ACRE APPLICATION               |         |
| Phosphorus           | Olsen        |                |     |     |      | N                             |  | N                             |  | N                                 |         |
|                      | 33 ppm       |                |     |     |      | P <sub>2</sub> O <sub>5</sub> |  | P <sub>2</sub> O <sub>5</sub> |  | P <sub>2</sub> O <sub>5</sub>     |         |
|                      | 121 ppm      |                |     |     |      | K <sub>2</sub> O              |  | K <sub>2</sub> O              |  | K <sub>2</sub> O                  |         |
| Potassium            |              |                |     |     |      | Cl                            |  | Cl                            |  | Cl                                |         |
|                      |              |                |     |     |      | S                             |  | S                             |  | S                                 |         |
|                      |              |                |     |     |      | B                             |  | B                             |  | B                                 |         |
| Sulfur               | 0-6"         |                |     |     |      | Zn                            |  | Zn                            |  | Zn                                |         |
|                      | 6-24"        |                |     |     |      | Fe                            |  | Fe                            |  | Fe                                |         |
|                      | 84 lb/acre   |                |     |     |      | Mn                            |  | Mn                            |  | Mn                                |         |
| Boron                |              |                |     |     |      | Cu                            |  | Cu                            |  | Cu                                |         |
|                      | 0.9 ppm      |                |     |     |      | Mg                            |  | Mg                            |  | Mg                                |         |
|                      | 3.59 ppm     |                |     |     |      | Lime                          |  | Lime                          |  | Lime                              |         |
| Zinc                 |              |                |     |     |      | Soil pH Buffer pH             |  | Cation Exchange Capacity      |  | % Base Saturation (Typical Range) |         |
|                      | 9.9 ppm      |                |     |     |      |                               |  |                               |  | % Ca                              | % Mg    |
|                      |              |                |     |     |      | 0-6" 8.1                      |  | 21.5 meq                      |  | % K                               | % Na    |
| Iron                 |              |                |     |     |      | 6-24" 8.5                     |  |                               |  | (65-75)                           | (15-20) |
|                      |              |                |     |     |      |                               |  |                               |  | (1-7)                             | (0-5)   |
|                      |              |                |     |     |      |                               |  |                               |  | 86.2                              | 11.8    |
| Manganese            |              |                |     |     |      |                               |  |                               |  | 1.4                               | 0.5     |
|                      | 1.7 ppm      |                |     |     |      |                               |  |                               |  |                                   | 0.0     |
|                      |              |                |     |     |      |                               |  |                               |  |                                   |         |
| Copper               |              |                |     |     |      |                               |  |                               |  |                                   |         |
|                      | 0.63 ppm     |                |     |     |      |                               |  |                               |  |                                   |         |
|                      |              |                |     |     |      |                               |  |                               |  |                                   |         |
| Magnesium            |              |                |     |     |      |                               |  |                               |  |                                   |         |
|                      | 306 ppm      |                |     |     |      |                               |  |                               |  |                                   |         |
|                      |              |                |     |     |      |                               |  |                               |  |                                   |         |
| Calcium              |              |                |     |     |      |                               |  |                               |  |                                   |         |
|                      | 3712 ppm     |                |     |     |      |                               |  |                               |  |                                   |         |
|                      |              |                |     |     |      |                               |  |                               |  |                                   |         |
| Sodium               |              |                |     |     |      |                               |  |                               |  |                                   |         |
|                      | 27 ppm       |                |     |     |      |                               |  |                               |  |                                   |         |
|                      |              |                |     |     |      |                               |  |                               |  |                                   |         |
| Org.Matter           |              |                |     |     |      |                               |  |                               |  |                                   |         |
|                      | 1.8 %        |                |     |     |      |                               |  |                               |  |                                   |         |
|                      |              |                |     |     |      |                               |  |                               |  |                                   |         |
| Carbonate(CCE)       |              |                |     |     |      |                               |  |                               |  |                                   |         |
|                      | 0.6 %        |                |     |     |      |                               |  |                               |  |                                   |         |
|                      |              |                |     |     |      |                               |  |                               |  |                                   |         |
| Sol. Salts           |              |                |     |     |      |                               |  |                               |  |                                   |         |
|                      | 0-6"         |                |     |     |      |                               |  |                               |  |                                   |         |
|                      | 6-24"        |                |     |     |      |                               |  |                               |  |                                   |         |
|                      | 0.27 mmho/cm |                |     |     |      |                               |  |                               |  |                                   |         |
|                      | 0.21 mmho/cm |                |     |     |      |                               |  |                               |  |                                   |         |

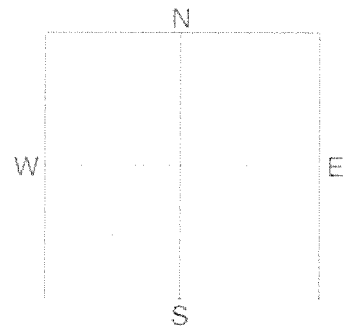
General Comments: Soil texture is not estimated on high pH soils.



Soil Analysis by Agvise Laboratories  
(<http://www.agvise.com>)  
Northwood: (701) 587-6010  
Benson: (320) 843-4109

**SOIL TEST REPORT**

FIELD ID **5W**  
 SAMPLE ID **3G**  
 FIELD NAME  
 COUNTY **3**  
 TWP **2** RANGE  
 SECTION **21** QTR **NW** ACRES **163**  
 PREV. CROP **Potatoes**



SUBMITTED FOR:  
**BLUMENGART COLONY**

SUBMITTED BY: **KR3239**  
**KR CROP CHECK LIMITED**  
**12085 RD 23 W (DICKENS RD**  
**BOX 240**  
**WINKLER, MB** **R6W 4A5**

REF # **20896217** BOX # **180**  
 LAB # **NW244959**

Date Sampled **10/31/2023** Date Received **11/01/2023** Date Reported **11/04/2023**

| Nutrient In The Soil |               | Interpretation               |     |     |      | 1st Crop Choice               |             |                          | 2nd Crop Choice                   |                 |              | 3rd Crop Choice               |              |     |
|----------------------|---------------|------------------------------|-----|-----|------|-------------------------------|-------------|--------------------------|-----------------------------------|-----------------|--------------|-------------------------------|--------------|-----|
|                      |               | VLow                         | Low | Med | High |                               |             |                          |                                   |                 |              |                               |              |     |
| Nitrate              | 0-6"<br>6-24" | 13 lb/acre<br>18 lb/acre     |     |     |      | YIELD GOAL                    |             |                          | YIELD GOAL                        |                 |              | YIELD GOAL                    |              |     |
|                      | 0-24"         | 31 lb/acre                   |     |     |      | SUGGESTED GUIDELINES          |             |                          | SUGGESTED GUIDELINES              |                 |              | SUGGESTED GUIDELINES          |              |     |
|                      |               |                              |     |     |      | LB/ACRE                       | APPLICATION |                          | LB/ACRE                           | APPLICATION     |              | LB/ACRE                       | APPLICATION  |     |
|                      | Olsen         | 23 ppm                       |     |     |      | N                             |             |                          | N                                 |                 |              | N                             |              |     |
| Phosphorus           |               |                              |     |     |      | P <sub>2</sub> O <sub>5</sub> |             |                          | P <sub>2</sub> O <sub>5</sub>     |                 |              | P <sub>2</sub> O <sub>5</sub> |              |     |
| Potassium            |               | 155 ppm                      |     |     |      | K <sub>2</sub> O              |             |                          | K <sub>2</sub> O                  |                 |              | K <sub>2</sub> O              |              |     |
| Chloride             |               |                              |     |     |      | Cl                            |             |                          | Cl                                |                 |              | Cl                            |              |     |
|                      | 0-6"<br>6-24" | 48 lb/acre<br>360 +lb/acre   |     |     |      | S                             |             |                          | S                                 |                 |              | S                             |              |     |
| Sulfur               |               |                              |     |     |      | B                             |             |                          | B                                 |                 |              | B                             |              |     |
| Boron                |               | 1.4 ppm                      |     |     |      | Zn                            |             |                          | Zn                                |                 |              | Zn                            |              |     |
| Zinc                 |               | 3.78 ppm                     |     |     |      | Fe                            |             |                          | Fe                                |                 |              | Fe                            |              |     |
| Iron                 |               | 12.4 ppm                     |     |     |      | Mn                            |             |                          | Mn                                |                 |              | Mn                            |              |     |
| Manganese            |               | 2.0 ppm                      |     |     |      | Cu                            |             |                          | Cu                                |                 |              | Cu                            |              |     |
| Copper               |               | 0.82 ppm                     |     |     |      | Mg                            |             |                          | Mg                                |                 |              | Mg                            |              |     |
| Magnesium            |               | 694 ppm                      |     |     |      | Lime                          |             |                          | Lime                              |                 |              | Lime                          |              |     |
| Calcium              |               | 3557 ppm                     |     |     |      |                               |             |                          |                                   |                 |              |                               |              |     |
| Sodium               |               | 37 ppm                       |     |     |      |                               |             |                          |                                   |                 |              |                               |              |     |
| Org.Matter           |               | 3.0 %                        |     |     |      | Soil pH                       | Buffer pH   | Cation Exchange Capacity | % Base Saturation (Typical Range) |                 |              |                               |              |     |
| Carbonate(CCE)       |               | 0.6 %                        |     |     |      |                               |             |                          |                                   | % Ca            | % Mg         | % K                           | % Na         | % H |
|                      | 0-6"<br>6-24" | 0.37 mmho/cm<br>0.77 mmho/cm |     |     |      | 0-6" 8.1<br>6-24" 8.4         |             | 24.1 meq                 | (65-75)<br>73.7                   | (15-20)<br>24.0 | (1-7)<br>1.6 | (0-5)<br>0.7                  | (0-5)<br>0.0 |     |
| Sol. Salts           |               |                              |     |     |      |                               |             |                          |                                   |                 |              |                               |              |     |

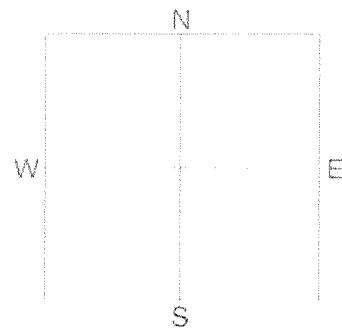
General Comments: Soil texture is not estimated on high pH soils.



Soil Analysis by Agvise Laboratories  
(<http://www.agvise.com>)  
Northwood: (701) 587-6010  
Benson: (320) 843-4109

**SOIL TEST REPORT**

FIELD ID **6**  
 SAMPLE ID **1 G**  
 FIELD NAME  
 COUNTY **3**  
 TWP **2** RANGE  
 SECTION **28** QTR **SW** ACRES **163**  
 PREV. CROP **Corn-Grain**



SUBMITTED FOR:  
**BLUMENGART COLONY**

SUBMITTED BY: **KR3239**  
**KR CROP CHECK LIMITED**  
**12085 RD 23 W (DICKENS RD**  
**BOX 240**  
**WINKLER, MB** **R6W 4A5**

REF # **20895041** BOX # **11074**  
 LAB # **NW203217**

Date Sampled **10/18/2023** Date Received **10/19/2023** Date Reported **10/24/2023**

| Nutrient In The Soil |                                  | Interpretation                                       |     |     |      | 1st Crop Choice       |             |                          | 2nd Crop Choice                   |                 |              | 3rd Crop Choice      |              |  |
|----------------------|----------------------------------|------------------------------------------------------|-----|-----|------|-----------------------|-------------|--------------------------|-----------------------------------|-----------------|--------------|----------------------|--------------|--|
|                      |                                  | VLow                                                 | Low | Med | High |                       |             |                          |                                   |                 |              |                      |              |  |
| Nitrate              | 0-6"<br>6-12"<br>12-24"<br>0-24" | 10 lb/acre<br>18 lb/acre<br>12 lb/acre<br>40 lb/acre |     |     |      | YIELD GOAL            |             |                          | YIELD GOAL                        |                 |              | YIELD GOAL           |              |  |
|                      |                                  |                                                      |     |     |      | SUGGESTED GUIDELINES  |             |                          | SUGGESTED GUIDELINES              |                 |              | SUGGESTED GUIDELINES |              |  |
|                      |                                  |                                                      |     |     |      | LB/ACRE               | APPLICATION |                          | LB/ACRE                           | APPLICATION     |              | LB/ACRE              | APPLICATION  |  |
|                      |                                  |                                                      |     |     |      | N                     |             |                          | N                                 |                 |              | N                    |              |  |
| Olsen                | 23 ppm                           |                                                      |     |     |      | P2O5                  |             |                          | P2O5                              |                 |              | P2O5                 |              |  |
| Phosphorus           |                                  |                                                      |     |     |      | K2O                   |             |                          | K2O                               |                 |              | K2O                  |              |  |
| Potassium            | 147 ppm                          |                                                      |     |     |      | Cl                    |             |                          | Cl                                |                 |              | Cl                   |              |  |
| Chloride             |                                  |                                                      |     |     |      | S                     |             |                          | S                                 |                 |              | S                    |              |  |
| Sulfur               | 0-6"<br>6-12"                    | 28 lb/acre<br>32 lb/acre                             |     |     |      | B                     |             |                          | B                                 |                 |              | B                    |              |  |
| Boron                | 0.9 ppm                          |                                                      |     |     |      | Zn                    |             |                          | Zn                                |                 |              | Zn                   |              |  |
| Zinc                 | 3.84 ppm                         |                                                      |     |     |      | Fe                    |             |                          | Fe                                |                 |              | Fe                   |              |  |
| Iron                 | 11.0 ppm                         |                                                      |     |     |      | Mn                    |             |                          | Mn                                |                 |              | Mn                   |              |  |
| Manganese            | 2.5 ppm                          |                                                      |     |     |      | Cu                    |             |                          | Cu                                |                 |              | Cu                   |              |  |
| Copper               | 0.87 ppm                         |                                                      |     |     |      | Mg                    |             |                          | Mg                                |                 |              | Mg                   |              |  |
| Magnesium            | 290 ppm                          |                                                      |     |     |      | Lime                  |             |                          | Lime                              |                 |              | Lime                 |              |  |
| Calcium              | 3877 ppm                         |                                                      |     |     |      |                       |             |                          |                                   |                 |              |                      |              |  |
| Sodium               | 14 ppm                           | **                                                   |     |     |      |                       |             |                          |                                   |                 |              |                      |              |  |
| Org.Matter           | 2.7 %                            |                                                      |     |     |      | Soil pH               | Buffer pH   | Cation Exchange Capacity | % Base Saturation (Typical Range) |                 |              |                      |              |  |
| Carbonate(CCE)       | 1.5 %                            |                                                      |     |     |      |                       |             |                          | % Ca                              | % Mg            | % K          | % Na                 | % H          |  |
| Sol. Salts           | 0-6"<br>6-12"                    | 0.24 mmho/cm<br>0.27 mmho/cm                         |     |     |      | 0-6" 8.1<br>6-24" 8.2 |             | 22.2 meq                 | (65-75)<br>87.2                   | (15-20)<br>10.9 | (1-7)<br>1.7 | (0-5)<br>0.3         | (0-5)<br>0.0 |  |

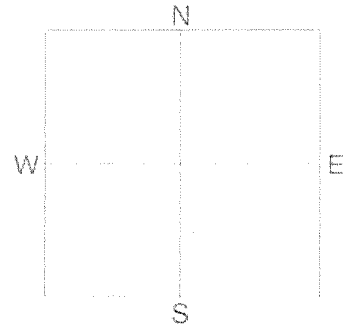
General Comments: Soil texture is not estimated on high pH soils.



Soil Analysis by Agvise Laboratories  
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Northwood: (701) 587-6010  
Benson: (320) 843-4109

## SOIL TEST REPORT

FIELD ID **9**  
SAMPLE ID **1G**  
FIELD NAME  
COUNTY **3**  
TWP **2** RANGE  
SECTION **27** QTR **SW** ACRES **160**  
PREV. CROP **Corn-Grain**



SUBMITTED FOR:  
**BLUMENGART COLONY**

SUBMITTED BY: **KR3239**  
**KR CROP CHECK LIMITED**  
**12085 RD 23 W (DICKENS RD**  
**BOX 240**  
**WINKLER, MB** **R6W 4A5**

REF # **20895066** BOX # **4450**  
LAB # **NW222675**

Date Sampled **10/23/2023**

Date Received **10/24/2023**

Date Reported **10/28/2023**

| Nutrient In The Soil |              | Interpretation |     |     |      | 1st Crop Choice               |             | 2nd Crop Choice               |                                   | 3rd Crop Choice               |             |           |           |
|----------------------|--------------|----------------|-----|-----|------|-------------------------------|-------------|-------------------------------|-----------------------------------|-------------------------------|-------------|-----------|-----------|
|                      |              | VLow           | Low | Med | High |                               |             |                               |                                   |                               |             |           |           |
| 0-6"                 | 30 lb/acre   |                |     |     |      | YIELD GOAL                    |             | YIELD GOAL                    |                                   | YIELD GOAL                    |             |           |           |
| 0-24"                | 84 lb/acre   |                |     |     |      | SUGGESTED GUIDELINES          |             | SUGGESTED GUIDELINES          |                                   | SUGGESTED GUIDELINES          |             |           |           |
| Nitrate              |              |                |     |     |      | LB/ACRE                       | APPLICATION | LB/ACRE                       | APPLICATION                       | LB/ACRE                       | APPLICATION |           |           |
|                      |              |                |     |     |      | N                             |             | N                             |                                   | N                             |             |           |           |
| Olsen                | 38 ppm       |                |     |     |      | P <sub>2</sub> O <sub>5</sub> |             | P <sub>2</sub> O <sub>5</sub> |                                   | P <sub>2</sub> O <sub>5</sub> |             |           |           |
| Phosphorus           |              |                |     |     |      | K <sub>2</sub> O              |             | K <sub>2</sub> O              |                                   | K <sub>2</sub> O              |             |           |           |
| Potassium            | 173 ppm      |                |     |     |      | Cl                            |             | Cl                            |                                   | Cl                            |             |           |           |
|                      |              |                |     |     |      | S                             |             | S                             |                                   | S                             |             |           |           |
| Chloride             |              |                |     |     |      | B                             |             | B                             |                                   | B                             |             |           |           |
| 0-6"                 | 42 lb/acre   |                |     |     |      | Zn                            |             | Zn                            |                                   | Zn                            |             |           |           |
| 0-24"                | 192 lb/acre  |                |     |     |      | Fe                            |             | Fe                            |                                   | Fe                            |             |           |           |
| Sulfur               |              |                |     |     |      | Mn                            |             | Mn                            |                                   | Mn                            |             |           |           |
| Boron                | 1.3 ppm      |                |     |     |      | Cu                            |             | Cu                            |                                   | Cu                            |             |           |           |
| Zinc                 | 4.47 ppm     |                |     |     |      | Mg                            |             | Mg                            |                                   | Mg                            |             |           |           |
| Iron                 | 8.0 ppm      |                |     |     |      | Lime                          |             | Lime                          |                                   | Lime                          |             |           |           |
| Manganese            | 2.1 ppm      |                |     |     |      |                               |             |                               |                                   |                               |             |           |           |
| Copper               | 0.76 ppm     |                |     |     |      | Soil pH                       | Buffer pH   | Cation Exchange Capacity      | % Base Saturation (Typical Range) |                               |             |           |           |
| Magnesium            | 528 ppm      |                |     |     |      | 0-6" 8.3                      |             | 25.9 meq                      | (65-75) 80.8                      | (15-20) 17.0                  | (1-7) 1.7   | (0-5) 0.5 | (0-5) 0.0 |
| Calcium              | 4183 ppm     |                |     |     |      | 6-24" 8.5                     |             |                               |                                   |                               |             |           |           |
| Sodium               | 27 ppm       | ****           |     |     |      |                               |             |                               |                                   |                               |             |           |           |
| Org.Matter           | 2.4 %        | *****          |     |     |      |                               |             |                               |                                   |                               |             |           |           |
| Carbonate(CCE)       | 3.0 %        | *****          |     |     |      |                               |             |                               |                                   |                               |             |           |           |
| 0-6"                 | 0.36 mmho/cm | *****          |     |     |      |                               |             |                               |                                   |                               |             |           |           |
| 0-24"                | 0.39 mmho/cm | *****          |     |     |      |                               |             |                               |                                   |                               |             |           |           |
| Sol. Salts           |              |                |     |     |      |                               |             |                               |                                   |                               |             |           |           |

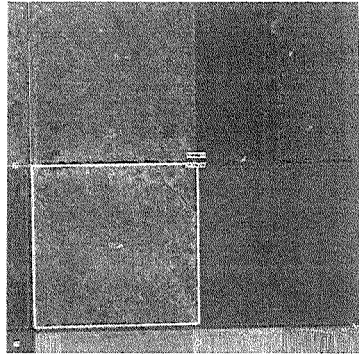
General Comments: Soil texture is not estimated on high pH soils.



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Benson: (320) 843-4109

### SOIL TEST REPORT

FIELD ID **10**  
SAMPLE ID **1G**  
FIELD NAME  
COUNTY **3**  
TWP **2** RANGE  
SECTION **26** QTR **SW** ACRES **160**  
PREV. CROP **Canola-bu**



SUBMITTED FOR:  
**BLUMENGART COLONY**

SUBMITTED BY: **KR3239**  
**KR CROP CHECK LIMITED**  
**12085 RD 23 W (DICKENS RD**  
**BOX 240**  
**WINKLER, MB** **R6W 4A5**

REF # **20552066** BOX # **2379**  
LAB # **NW82643**

Date Sampled **09/11/2023**
Date Received **09/12/2023**
Date Reported **09/13/2023**

| Nutrient In The Soil |              | Interpretation |     |     |      | 1st Crop Choice               |             |          | 2nd Crop Choice                   |             |       | 3rd Crop Choice               |             |  |
|----------------------|--------------|----------------|-----|-----|------|-------------------------------|-------------|----------|-----------------------------------|-------------|-------|-------------------------------|-------------|--|
|                      |              | VLow           | Low | Med | High |                               |             |          |                                   |             |       |                               |             |  |
| 0-6"                 | 7 lb/acre    |                |     |     |      | YIELD GOAL                    |             |          | YIELD GOAL                        |             |       | YIELD GOAL                    |             |  |
| 0-24"                | 12 lb/acre   | *****          |     |     |      | SUGGESTED GUIDELINES          |             |          | SUGGESTED GUIDELINES              |             |       | SUGGESTED GUIDELINES          |             |  |
| Nitrate              |              |                |     |     |      | LB/ACRE                       | APPLICATION |          | LB/ACRE                           | APPLICATION |       | LB/ACRE                       | APPLICATION |  |
|                      |              |                |     |     |      | N                             |             |          | N                                 |             |       | N                             |             |  |
|                      |              |                |     |     |      | P <sub>2</sub> O <sub>5</sub> |             |          | P <sub>2</sub> O <sub>5</sub>     |             |       | P <sub>2</sub> O <sub>5</sub> |             |  |
| Olsen Phosphorus     | 23 ppm       | *****          |     |     |      | K <sub>2</sub> O              |             |          | K <sub>2</sub> O                  |             |       | K <sub>2</sub> O              |             |  |
| Potassium            | 168 ppm      | *****          |     |     |      | Cl                            |             |          | Cl                                |             |       | Cl                            |             |  |
| Chloride             |              |                |     |     |      | S                             |             |          | S                                 |             |       | S                             |             |  |
| 0-6"                 | 54 lb/acre   | *****          |     |     |      | B                             |             |          | B                                 |             |       | B                             |             |  |
| 0-24"                | 152 lb/acre  | *****          |     |     |      | Zn                            |             |          | Zn                                |             |       | Zn                            |             |  |
| Sulfur               |              |                |     |     |      | Fe                            |             |          | Fe                                |             |       | Fe                            |             |  |
| Boron                | 1.3 ppm      | *****          |     |     |      | Mn                            |             |          | Mn                                |             |       | Mn                            |             |  |
| Zinc                 | 4.61 ppm     | *****          |     |     |      | Cu                            |             |          | Cu                                |             |       | Cu                            |             |  |
| Iron                 | 5.9 ppm      | *****          |     |     |      | Mg                            |             |          | Mg                                |             |       | Mg                            |             |  |
| Manganese            | 1.6 ppm      | *****          |     |     |      | Lime                          |             |          | Lime                              |             |       | Lime                          |             |  |
| Copper               | 0.81 ppm     | *****          |     |     |      | Cation Exchange Capacity      |             |          | % Base Saturation (Typical Range) |             |       |                               |             |  |
| Magnesium            | 679 ppm      | *****          |     |     |      |                               |             |          | % Ca                              | % Mg        | % K   | % Na                          | % H         |  |
| Calcium              | 3963 ppm     | *****          |     |     |      | Soil pH                       | Buffer pH   |          | (65-75)                           | (15-20)     | (1-7) | (0-5)                         | (0-5)       |  |
| Sodium               | 31 ppm       | *****          |     |     |      | 0-6" 8.4                      |             | 26.0 meq | 76.1                              | 21.7        | 1.7   | 0.5                           | 0.0         |  |
| Org.Matter           | 2.8 %        | *****          |     |     |      | 6-24" 8.7                     |             |          |                                   |             |       |                               |             |  |
| Carbonate(CCE)       | 3.0 %        | *****          |     |     |      |                               |             |          |                                   |             |       |                               |             |  |
| 0-6"                 | 0.36 mmho/cm | *****          |     |     |      |                               |             |          |                                   |             |       |                               |             |  |
| 0-24"                | 0.28 mmho/cm | *****          |     |     |      |                               |             |          |                                   |             |       |                               |             |  |
| Sol. Salts           |              |                |     |     |      |                               |             |          |                                   |             |       |                               |             |  |

General Comments: Soil texture is not estimated on high pH soils.

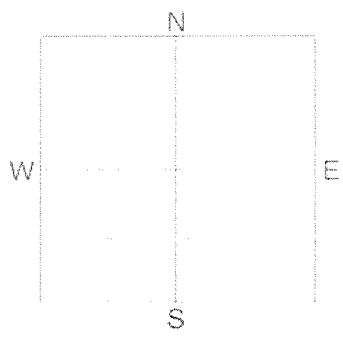




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Benson: (320) 843-4109

### SOIL TEST REPORT

FIELD ID **11**  
SAMPLE ID **1G**  
FIELD NAME  
COUNTY **3**  
TWP **2** RANGE  
SECTION **22** QTR **NE** ACRES **160**  
PREV. CROP **Canola-bu**



SUBMITTED FOR:  
**BLUMENGART COLONY**

SUBMITTED BY: **KR3239**  
**KR CROP CHECK LIMITED**  
**12085 RD 23 W (DICKENS RD**  
**BOX 240**  
**WINKLER, MB** **R6W 4A5**

REF # **20526391** BOX # **2047**  
LAB # **NW79856**

Date Sampled **09/09/2023**

Date Received **09/11/2023**

Date Reported **09/12/2023**

| Nutrient In The Soil |       | Interpretation |     |     |      | 1st Crop Choice |  | 2nd Crop Choice |  | 3rd Crop Choice |  |
|----------------------|-------|----------------|-----|-----|------|-----------------|--|-----------------|--|-----------------|--|
|                      |       | VLow           | Low | Med | High | YIELD GOAL      |  | YIELD GOAL      |  | YIELD GOAL      |  |
| N/trate              | 0-6"  | 9 lb/acre      |     |     |      |                 |  |                 |  |                 |  |
|                      | 0-24" | 8 lb/acre      |     |     |      |                 |  |                 |  |                 |  |
|                      |       |                |     |     |      |                 |  |                 |  |                 |  |
| Phosphorus           | Olsen | 24 ppm         |     |     |      |                 |  |                 |  |                 |  |
| Potassium            |       | 201 ppm        |     |     |      |                 |  |                 |  |                 |  |
| Chloride             |       |                |     |     |      |                 |  |                 |  |                 |  |
| Sulfur               | 0-6"  | 36 lb/acre     |     |     |      |                 |  |                 |  |                 |  |
|                      | 0-24" | 120 lb/acre    |     |     |      |                 |  |                 |  |                 |  |
| Boron                |       | 1.3 ppm        |     |     |      |                 |  |                 |  |                 |  |
| Zinc                 |       | 3.75 ppm       |     |     |      |                 |  |                 |  |                 |  |
| Iron                 |       | 8.2 ppm        |     |     |      |                 |  |                 |  |                 |  |
| Manganese            |       | 2.0 ppm        |     |     |      |                 |  |                 |  |                 |  |
| Copper               |       | 0.96 ppm       |     |     |      |                 |  |                 |  |                 |  |
| Magnesium            |       | 511 ppm        |     |     |      |                 |  |                 |  |                 |  |
| Calcium              |       | 4432 ppm       |     |     |      |                 |  |                 |  |                 |  |
| Sodium               |       | 20 ppm         |     |     |      |                 |  |                 |  |                 |  |
| Org.Matter           |       | 2.8 %          |     |     |      |                 |  |                 |  |                 |  |
| Carbonate(CCE)       |       | 2.6 %          |     |     |      |                 |  |                 |  |                 |  |
| Sol. Salts           | 0-6"  | 0.31 mmho/cm   |     |     |      |                 |  |                 |  |                 |  |
|                      | 0-24" | 0.3 mmho/cm    |     |     |      |                 |  |                 |  |                 |  |

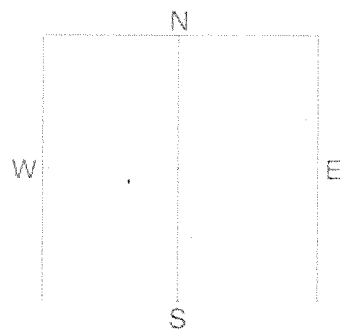
General Comments: Soil texture is not estimated on high pH soils.



Soil Analysis by Agvise Laboratories  
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Benson: (320) 843-4109

**SOIL TEST REPORT**

FIELD ID **12**  
 SAMPLE ID **2G**  
 FIELD NAME  
 COUNTY **3**  
 TWP **2** RANGE  
 SECTION **26** QTR **NW** ACRES **160**  
 PREV. CROP **Corn-Grain**



SUBMITTED FOR:  
**BLUMENGART COLONY**

SUBMITTED BY: **KR3239**  
**KR CROP CHECK LIMITED**  
**12085 RD 23 W (DICKENS RD**  
**BOX 240**  
**WINKLER, MB R6W 4A5**

REF # **20584591** BOX # **11018**  
 LAB # **NW209451**

Date Sampled **10/19/2023** Date Received **10/20/2023** Date Reported **10/24/2023**

| Nutrient In The Soil |              | Interpretation |     |     |      | 1st Crop Choice               |             |                          | 2nd Crop Choice                   |              |           | 3rd Crop Choice               |             |  |
|----------------------|--------------|----------------|-----|-----|------|-------------------------------|-------------|--------------------------|-----------------------------------|--------------|-----------|-------------------------------|-------------|--|
|                      |              | VLow           | Low | Med | High |                               |             |                          |                                   |              |           |                               |             |  |
| 0-6"                 | 38 lb/acre   |                |     |     |      | YIELD GOAL                    |             |                          | YIELD GOAL                        |              |           | YIELD GOAL                    |             |  |
| 0-24"                | 44 lb/acre   |                |     |     |      | SUGGESTED GUIDELINES          |             |                          | SUGGESTED GUIDELINES              |              |           | SUGGESTED GUIDELINES          |             |  |
| Ntrate               |              |                |     |     |      | LB/ACRE                       | APPLICATION |                          | LB/ACRE                           | APPLICATION  |           | LB/ACRE                       | APPLICATION |  |
| Olsen                | 13 ppm       |                |     |     |      | N                             |             |                          | N                                 |              |           | N                             |             |  |
| Phosphorus           |              |                |     |     |      | P <sub>2</sub> O <sub>5</sub> |             |                          | P <sub>2</sub> O <sub>5</sub>     |              |           | P <sub>2</sub> O <sub>5</sub> |             |  |
| Potassium            | 154 ppm      |                |     |     |      | K <sub>2</sub> O              |             |                          | K <sub>2</sub> O                  |              |           | K <sub>2</sub> O              |             |  |
|                      |              |                |     |     |      | Cl                            |             |                          | Cl                                |              |           | Cl                            |             |  |
| Chloride             |              |                |     |     |      | S                             |             |                          | S                                 |              |           | S                             |             |  |
| 0-6"                 | 42 lb/acre   |                |     |     |      | B                             |             |                          | B                                 |              |           | B                             |             |  |
| 0-24"                | 208 lb/acre  |                |     |     |      | Zn                            |             |                          | Zn                                |              |           | Zn                            |             |  |
| Sulfur               |              |                |     |     |      | Fe                            |             |                          | Fe                                |              |           | Fe                            |             |  |
| Boron                | 1.1 ppm      |                |     |     |      | Mn                            |             |                          | Mn                                |              |           | Mn                            |             |  |
| Zinc                 | 2.58 ppm     |                |     |     |      | Cu                            |             |                          | Cu                                |              |           | Cu                            |             |  |
| Iron                 | 7.8 ppm      |                |     |     |      | Mg                            |             |                          | Mg                                |              |           | Mg                            |             |  |
| Manganese            | 1.7 ppm      |                |     |     |      | Lime                          |             |                          | Lime                              |              |           | Lime                          |             |  |
| Copper               | 0.58 ppm     |                |     |     |      |                               |             |                          |                                   |              |           |                               |             |  |
| Magnesium            | 514 ppm      |                |     |     |      | Soil pH                       | Buffer pH   | Cation Exchange Capacity | % Base Saturation (Typical Range) |              |           |                               |             |  |
| Calcium              | 3806 ppm     |                |     |     |      |                               |             |                          | % Ca                              | % Mg         | % K       | % Na                          | % H         |  |
| Sodium               | 19 ppm       |                |     |     |      | 0-6" 8.1                      |             | 23.8 meq                 | (65-75) 80.0                      | (15-20) 18.0 | (1-7) 1.7 | (0-5) 0.3                     | (0-5) 0.0   |  |
| Org.Matter           | 3.5 %        |                |     |     |      | 6-24" 8.3                     |             |                          |                                   |              |           |                               |             |  |
| Carbonate(CCE)       | 0.8 %        |                |     |     |      |                               |             |                          |                                   |              |           |                               |             |  |
| 0-6"                 | 0.38 mmho/cm |                |     |     |      |                               |             |                          |                                   |              |           |                               |             |  |
| 0-24"                | 0.36 mmho/cm |                |     |     |      |                               |             |                          |                                   |              |           |                               |             |  |
| Sol. Salts           |              |                |     |     |      |                               |             |                          |                                   |              |           |                               |             |  |

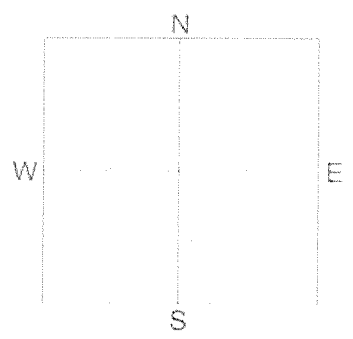
General Comments: Soil texture is not estimated on high pH soils.



Soil Analysis by Agvise Laboratories  
(http://www.agvise.com)  
Northwood: (701) 587-6010  
Benson: (320) 843-4109

**SOIL TEST REPORT**

FIELD ID **13**  
 SAMPLE ID **1 G**  
 FIELD NAME  
 COUNTY **3**  
 TWP **2** RANGE  
 SECTION **26** QTR **SE** ACRES **160**  
 PREV. CROP **Corn-Grain**



SUBMITTED FOR:  
**BLUMENGART COLONY**

SUBMITTED BY: **KR3239**  
**KR CROP CHECK LIMITED**  
**12085 RD 23 W (DICKENS RD**  
**BOX 240**  
**WINKLER, MB** **R6W 4A5**

REF # **20895056** BOX # **11539**  
 LAB # **NW215060**

Date Sampled **10/20/2023** Date Received **10/21/2023** Date Reported **10/26/2023**

| Nutrient In The Soil |              | Interpretation |     |     |      | 1st Crop Choice               |             |  | 2nd Crop Choice               |             |  | 3rd Crop Choice               |             |  |
|----------------------|--------------|----------------|-----|-----|------|-------------------------------|-------------|--|-------------------------------|-------------|--|-------------------------------|-------------|--|
|                      |              | VLow           | Low | Med | High |                               |             |  |                               |             |  |                               |             |  |
| 0-6"                 | 31 lb/acre   |                |     |     |      | YIELD GOAL                    |             |  | YIELD GOAL                    |             |  | YIELD GOAL                    |             |  |
| 0-24"                | 32 lb/acre   | *****          |     |     |      | SUGGESTED GUIDELINES          |             |  | SUGGESTED GUIDELINES          |             |  | SUGGESTED GUIDELINES          |             |  |
| Nitrate              |              |                |     |     |      | LB/ACRE                       | APPLICATION |  | LB/ACRE                       | APPLICATION |  | LB/ACRE                       | APPLICATION |  |
| Olsen                | 36 ppm       | *****          |     |     |      | N                             |             |  | N                             |             |  | N                             |             |  |
| Phosphorus           |              | *****          |     |     |      | P <sub>2</sub> O <sub>5</sub> |             |  | P <sub>2</sub> O <sub>5</sub> |             |  | P <sub>2</sub> O <sub>5</sub> |             |  |
| Potassium            | 210 ppm      | *****          |     |     |      | K <sub>2</sub> O              |             |  | K <sub>2</sub> O              |             |  | K <sub>2</sub> O              |             |  |
|                      |              |                |     |     |      | Cl                            |             |  | Cl                            |             |  | Cl                            |             |  |
| Chloride             |              |                |     |     |      | S                             |             |  | S                             |             |  | S                             |             |  |
| 0-6"                 | 38 lb/acre   | *****          |     |     |      | B                             |             |  | B                             |             |  | B                             |             |  |
| 0-24"                | 80 lb/acre   | *****          |     |     |      | Zn                            |             |  | Zn                            |             |  | Zn                            |             |  |
| Sulfur               |              |                |     |     |      | Fe                            |             |  | Fe                            |             |  | Fe                            |             |  |
| Boron                | 0.9 ppm      | *****          |     |     |      | Mn                            |             |  | Mn                            |             |  | Mn                            |             |  |
| Zinc                 | 4.67 ppm     | *****          |     |     |      | Cu                            |             |  | Cu                            |             |  | Cu                            |             |  |
| Iron                 | 7.7 ppm      | *****          |     |     |      | Mg                            |             |  | Mg                            |             |  | Mg                            |             |  |
| Manganese            | 2.4 ppm      | *****          |     |     |      | Lime                          |             |  | Lime                          |             |  | Lime                          |             |  |
| Copper               | 0.76 ppm     | *****          |     |     |      |                               |             |  |                               |             |  |                               |             |  |
| Magnesium            | 360 ppm      | *****          |     |     |      |                               |             |  |                               |             |  |                               |             |  |
| Calcium              | 4387 ppm     | *****          |     |     |      |                               |             |  |                               |             |  |                               |             |  |
| Sodium               | 20 ppm       | ***            |     |     |      |                               |             |  |                               |             |  |                               |             |  |
| Org.Matter           | 2.5 %        | *****          |     |     |      |                               |             |  |                               |             |  |                               |             |  |
| Carbonate(CCE)       | 2.8 %        | *****          |     |     |      |                               |             |  |                               |             |  |                               |             |  |
| 0-6"                 | 0.29 mmho/cm | *****          |     |     |      |                               |             |  |                               |             |  |                               |             |  |
| 0-24"                | 0.24 mmho/cm | *****          |     |     |      |                               |             |  |                               |             |  |                               |             |  |
| Sol. Salts           |              |                |     |     |      |                               |             |  |                               |             |  |                               |             |  |

| 1st Crop Choice               | 2nd Crop Choice      | 3rd Crop Choice               |             |                               |             |
|-------------------------------|----------------------|-------------------------------|-------------|-------------------------------|-------------|
|                               |                      |                               |             |                               |             |
| YIELD GOAL                    | YIELD GOAL           | YIELD GOAL                    |             |                               |             |
|                               |                      |                               |             |                               |             |
| SUGGESTED GUIDELINES          | SUGGESTED GUIDELINES | SUGGESTED GUIDELINES          |             |                               |             |
|                               |                      |                               |             |                               |             |
| LB/ACRE                       | APPLICATION          | LB/ACRE                       | APPLICATION | LB/ACRE                       | APPLICATION |
| N                             |                      | N                             |             | N                             |             |
| P <sub>2</sub> O <sub>5</sub> |                      | P <sub>2</sub> O <sub>5</sub> |             | P <sub>2</sub> O <sub>5</sub> |             |
| K <sub>2</sub> O              |                      | K <sub>2</sub> O              |             | K <sub>2</sub> O              |             |
| Cl                            |                      | Cl                            |             | Cl                            |             |
| S                             |                      | S                             |             | S                             |             |
| B                             |                      | B                             |             | B                             |             |
| Zn                            |                      | Zn                            |             | Zn                            |             |
| Fe                            |                      | Fe                            |             | Fe                            |             |
| Mn                            |                      | Mn                            |             | Mn                            |             |
| Cu                            |                      | Cu                            |             | Cu                            |             |
| Mg                            |                      | Mg                            |             | Mg                            |             |
| Lime                          |                      | Lime                          |             | Lime                          |             |

| Soil pH   | Buffer pH | Cation Exchange Capacity | % Base Saturation (Typical Range) |         |       |       |       |
|-----------|-----------|--------------------------|-----------------------------------|---------|-------|-------|-------|
|           |           |                          | % Ca                              | % Mg    | % K   | % Na  | % H   |
| 0-6" 8.3  |           | 25.6 meq                 | (65-75)                           | (15-20) | (1-7) | (0-5) | (0-5) |
| 6-24" 8.6 |           |                          | 85.8                              | 11.7    | 2.1   | 0.3   | 0.0   |

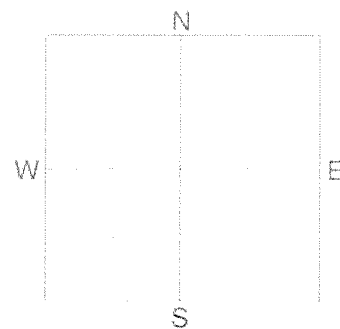
General Comments: Soil texture is not estimated on high pH soils.



Soil Analysis by Agvise Laboratories  
(<http://www.agvise.com>)  
Northwood: (701) 587-6010  
Benson: (320) 843-4109

**SOIL TEST REPORT**

FIELD ID **14**  
 SAMPLE ID **1 G**  
 FIELD NAME  
 COUNTY **3**  
 TWP **2** RANGE  
 SECTION **22** QTR **SE** ACRES **150**  
 PREV. CROP **Corn-Grain**



SUBMITTED FOR:  
**BLUMENGART COLONY**

SUBMITTED BY: **KR3239**  
**KR CROP CHECK LIMITED**  
**12085 RD 23 W (DICKENS RD)**  
**BOX 240**  
**WINKLER, MB** **R6W 4A5**

REF # **20783671** BOX # **11058**  
 LAB # **NW203214**

Date Sampled **10/18/2023** Date Received **10/19/2023** Date Reported **10/24/2023**

| Nutrient In The Soil |       | Interpretation |     |     |      | 1st Crop Choice               |     | 2nd Crop Choice               |  | 3rd Crop Choice                   |         |
|----------------------|-------|----------------|-----|-----|------|-------------------------------|-----|-------------------------------|--|-----------------------------------|---------|
|                      |       | VLow           | Low | Med | High | YIELD GOAL                    |     | YIELD GOAL                    |  | YIELD GOAL                        |         |
| Nitrate              | 0-6"  | 27 lb/acre     |     |     |      | SUGGESTED GUIDELINES          |     | SUGGESTED GUIDELINES          |  | SUGGESTED GUIDELINES              |         |
|                      | 0-24" | 40 lb/acre     |     |     |      | LB/ACRE APPLICATION           |     | LB/ACRE APPLICATION           |  | LB/ACRE APPLICATION               |         |
|                      |       |                |     |     |      | N                             |     | N                             |  | N                                 |         |
| Phosphorus           | Olsen | 15 ppm         |     |     |      | P <sub>2</sub> O <sub>5</sub> |     | P <sub>2</sub> O <sub>5</sub> |  | P <sub>2</sub> O <sub>5</sub>     |         |
| Potassium            |       | 135 ppm        |     |     |      | K <sub>2</sub> O              |     | K <sub>2</sub> O              |  | K <sub>2</sub> O                  |         |
| Chloride             |       |                |     |     |      | Cl                            |     | Cl                            |  | Cl                                |         |
| Sulfur               | 0-6"  | 60 lb/acre     |     |     |      | S                             |     | S                             |  | S                                 |         |
|                      | 0-24" | 480 +lb/acre   |     |     |      | B                             |     | B                             |  | B                                 |         |
| Boron                |       | 1.8 ppm        |     |     |      | Zn                            |     | Zn                            |  | Zn                                |         |
| Zinc                 |       | 2.27 ppm       |     |     |      | Fe                            |     | Fe                            |  | Fe                                |         |
| Iron                 |       | 8.1 ppm        |     |     |      | Mn                            |     | Mn                            |  | Mn                                |         |
| Manganese            |       | 1.8 ppm        |     |     |      | Cu                            |     | Cu                            |  | Cu                                |         |
| Copper               |       | 0.99 ppm       |     |     |      | Mg                            |     | Mg                            |  | Mg                                |         |
| Magnesium            |       | 581 ppm        |     |     |      | Lime                          |     | Lime                          |  | Lime                              |         |
| Calcium              |       | 4891 ppm       |     |     |      | Soil pH                       |     | Cation Exchange               |  | % Base Saturation (Typical Range) |         |
| Sodium               |       | 31 ppm         |     |     |      | Buffer pH                     |     | Capacity                      |  | % Ca                              | % Mg    |
| Org.Matter           |       | 4.0 %          |     |     |      |                               |     |                               |  | % K                               | % Na    |
| Carbonate(CCE)       |       | 4.8 %          |     |     |      |                               |     |                               |  | % H                               |         |
| Sol. Salts           | 0-6"  | 0.55 mmho/cm   |     |     |      | 0-6"                          | 8.1 | 29.8 meq                      |  | (65-75)                           | (15-20) |
|                      | 0-24" | 0.58 mmho/cm   |     |     |      | 6-24"                         | 8.4 |                               |  | (1-7)                             | (0-5)   |
|                      |       |                |     |     |      |                               |     |                               |  | 82.1                              | 16.3    |
|                      |       |                |     |     |      |                               |     |                               |  | 1.2                               | 0.5     |
|                      |       |                |     |     |      |                               |     |                               |  | 0.0                               | 0.0     |

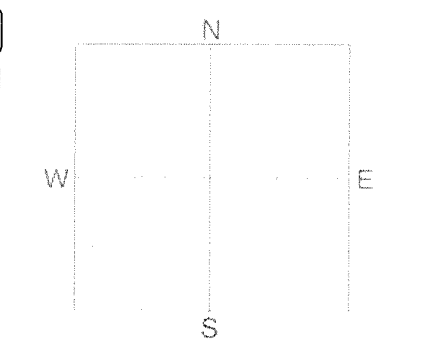
General Comments: Soil texture is not estimated on high pH soils.



Soil Analysis by Agvise Laboratories  
(<http://www.agvise.com>)  
Northwood: (701) 587-6010  
Benson: (320) 843-4109

### SOIL TEST REPORT

FIELD ID **15-16**  
SAMPLE ID **3G**  
FIELD NAME  
COUNTY **3**  
TWP **2** RANGE  
SECTION **22** QTR **SW** ACRES **300**  
PREV. CROP **Beans-Edible**



SUBMITTED FOR:  
**BLUMENGART COLONY**

SUBMITTED BY: **KR3239**  
**KR CROP CHECK LIMITED**  
**12085 RD 23 W (DICKENS RD**  
**BOX 240**  
**WINKLER, MB** **R6W 4A5**

REF # **20526378** BOX # **1455**  
LAB # **NW73100**

Date Sampled **09/06/2023** Date Received **09/07/2023** Date Reported **09/08/2023**

| Nutrient In The Soil |                                        | Interpretation |     |     |      | 1st Crop Choice               |           |                          | 2nd Crop Choice                   |                 |              | 3rd Crop Choice               |              |             |
|----------------------|----------------------------------------|----------------|-----|-----|------|-------------------------------|-----------|--------------------------|-----------------------------------|-----------------|--------------|-------------------------------|--------------|-------------|
|                      |                                        | VLow           | Low | Med | High | YIELD GOAL                    |           |                          | YIELD GOAL                        |                 |              | YIELD GOAL                    |              |             |
| Nitrate              | 0-6" 80 lb/acre                        |                |     |     |      | SUGGESTED GUIDELINES          |           |                          | SUGGESTED GUIDELINES              |                 |              | SUGGESTED GUIDELINES          |              |             |
|                      | 0-24" 84 lb/acre                       |                |     |     |      | LB/ACRE                       |           | APPLICATION              | LB/ACRE                           |                 | APPLICATION  | LB/ACRE                       |              | APPLICATION |
|                      |                                        |                |     |     |      | N                             |           |                          | N                                 |                 |              | N                             |              |             |
|                      |                                        |                |     |     |      | P <sub>2</sub> O <sub>5</sub> |           |                          | P <sub>2</sub> O <sub>5</sub>     |                 |              | P <sub>2</sub> O <sub>5</sub> |              |             |
| Phosphorus           | Olsen 36 ppm                           |                |     |     |      | K <sub>2</sub> O              |           |                          | K <sub>2</sub> O                  |                 |              | K <sub>2</sub> O              |              |             |
| Potassium            | 387 ppm                                |                |     |     |      | Cl                            |           |                          | Cl                                |                 |              | Cl                            |              |             |
| Chloride             |                                        |                |     |     |      | S                             |           |                          | S                                 |                 |              | S                             |              |             |
| Sulfur               | 0-6" 32 lb/acre<br>0-24" 480 +lb/acre  |                |     |     |      | B                             |           |                          | B                                 |                 |              | B                             |              |             |
| Boron                | 2.4 ppm                                |                |     |     |      | Zn                            |           |                          | Zn                                |                 |              | Zn                            |              |             |
| Zinc                 | 3.99 ppm                               |                |     |     |      | Fe                            |           |                          | Fe                                |                 |              | Fe                            |              |             |
| Iron                 | 10.3 ppm                               |                |     |     |      | Mn                            |           |                          | Mn                                |                 |              | Mn                            |              |             |
| Manganese            | 1.5 ppm                                |                |     |     |      | Cu                            |           |                          | Cu                                |                 |              | Cu                            |              |             |
| Copper               | 1.32 ppm                               |                |     |     |      | Mg                            |           |                          | Mg                                |                 |              | Mg                            |              |             |
| Magnesium            | 760 ppm                                |                |     |     |      | Lime                          |           |                          | Lime                              |                 |              | Lime                          |              |             |
| Calcium              | 5701 ppm                               |                |     |     |      |                               |           |                          |                                   |                 |              |                               |              |             |
| Sodium               | 45 ppm                                 |                |     |     |      |                               |           |                          |                                   |                 |              |                               |              |             |
| Org.Matter           | 6.5 %                                  |                |     |     |      |                               |           |                          |                                   |                 |              |                               |              |             |
| Carbonate(CCE)       | 2.4 %                                  |                |     |     |      |                               |           |                          |                                   |                 |              |                               |              |             |
| Sol. Salts           | 0-6" 0.85 mmho/cm<br>0-24" 1.8 mmho/cm |                |     |     |      | Soil pH                       | Buffer pH | Cation Exchange Capacity | % Base Saturation (Typical Range) |                 |              |                               |              |             |
|                      |                                        |                |     |     |      | 0-6" 8.0<br>6-24" 8.1         |           | 36.0 meq                 | % Ca                              | % Mg            | % K          | % Na                          | % H          |             |
|                      |                                        |                |     |     |      |                               |           |                          | (65-75)<br>79.1                   | (15-20)<br>17.6 | (1-7)<br>2.8 | (0-5)<br>0.5                  | (0-5)<br>0.0 |             |

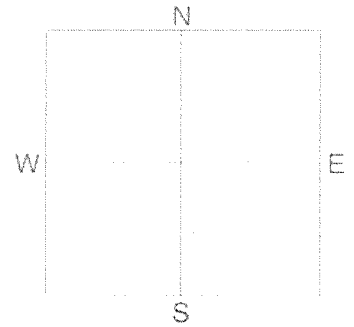
General Comments: Soil texture is not estimated on high pH soils.



Soil Analysis by Agvise Laboratories  
(<http://www.agvise.com>)  
Northwood: (701) 587-6010  
Benson: (320) 843-4109

## SOIL TEST REPORT

FIELD ID **17**  
SAMPLE ID **1G-SOUTH**  
FIELD NAME  
COUNTY **3**  
TWP **2** RANGE  
SECTION **15** QTR E ACRES **250**  
PREV. CROP **Wheat-Spring**



SUBMITTED FOR:  
**BLUMENGART COLONY**

SUBMITTED BY: **KR3239**  
**KR CROP CHECK LIMITED**  
**12085 RD 23 W (DICKENS RD**  
**BOX 240**  
**WINKLER, MB R6W 4A5**

REF # **20551946** BOX # **857**  
LAB # **NW64632**

Date Sampled **08/30/2023**

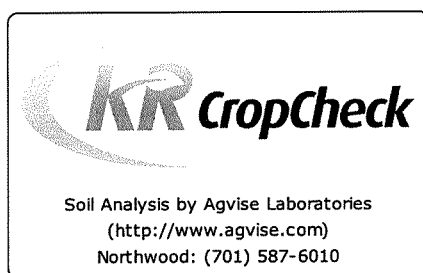
Date Received **08/31/2023**

Date Reported **09/01/2023**

| Nutrient In The Soil |       | Interpretation |              |     |      | 1st Crop Choice               |             | 2nd Crop Choice               |             | 3rd Crop Choice               |             |
|----------------------|-------|----------------|--------------|-----|------|-------------------------------|-------------|-------------------------------|-------------|-------------------------------|-------------|
|                      |       | VLow           | Low          | Med | High |                               |             |                               |             |                               |             |
| Nitrate              | 0-6"  | 20 lb/acre     |              |     |      | YIELD GOAL                    |             | YIELD GOAL                    |             | YIELD GOAL                    |             |
|                      | 0-24" | 32 lb/acre     |              |     |      | SUGGESTED GUIDELINES          |             | SUGGESTED GUIDELINES          |             | SUGGESTED GUIDELINES          |             |
|                      |       |                |              |     |      | LB/ACRE                       | APPLICATION | LB/ACRE                       | APPLICATION | LB/ACRE                       | APPLICATION |
|                      |       |                |              |     |      | N                             |             | N                             |             | N                             |             |
| Olsen                |       | 42 ppm         |              |     |      | P <sub>2</sub> O <sub>5</sub> |             | P <sub>2</sub> O <sub>5</sub> |             | P <sub>2</sub> O <sub>5</sub> |             |
| Phosphorus           |       |                |              |     |      | K <sub>2</sub> O              |             | K <sub>2</sub> O              |             | K <sub>2</sub> O              |             |
| Potassium            |       | 220 ppm        |              |     |      | Cl                            |             | Cl                            |             | Cl                            |             |
| Chloride             |       |                |              |     |      | S                             |             | S                             |             | S                             |             |
| Sulfur               |       | 0-6"           | 26 lb/acre   |     |      |                               |             | B                             |             | B                             |             |
| Boron                |       | 0-24"          | 152 lb/acre  |     |      |                               |             | Zn                            |             | Zn                            |             |
| Zinc                 |       |                | 1.2 ppm      |     |      |                               |             | Fe                            |             | Fe                            |             |
| Iron                 |       |                | 6.31 ppm     |     |      |                               |             | Mn                            |             | Mn                            |             |
| Manganese            |       |                | 1.7 ppm      |     |      |                               |             | Cu                            |             | Cu                            |             |
| Copper               |       |                | 1.03 ppm     |     |      |                               |             | Mg                            |             | Mg                            |             |
| Magnesium            |       |                | 492 ppm      |     |      |                               |             | Lime                          |             | Lime                          |             |
| Calcium              |       |                | 3772 ppm     |     |      |                               |             |                               |             |                               |             |
| Sodium               |       |                | 17 ppm       |     |      |                               |             |                               |             |                               |             |
| Org.Matter           |       |                | 3.4 %        |     |      |                               |             |                               |             |                               |             |
| Carbonate(CCE)       |       |                | 1.7 %        |     |      |                               |             |                               |             |                               |             |
| Sol. Salts           |       | 0-6"           | 0.29 mmho/cm |     |      |                               |             |                               |             |                               |             |
|                      |       | 0-24"          | 0.31 mmho/cm |     |      |                               |             |                               |             |                               |             |

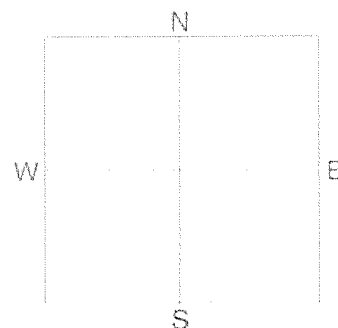
| Soil pH   | Buffer pH | Cation Exchange Capacity | % Base Saturation (Typical Range) |         |       |       |       |
|-----------|-----------|--------------------------|-----------------------------------|---------|-------|-------|-------|
|           |           |                          | % Ca                              | % Mg    | % K   | % Na  | % H   |
| 0-6" 8.0  |           | 23.6 meq                 | (65-75)                           | (15-20) | (1-7) | (0-5) | (0-5) |
| 6-24" 8.4 |           |                          | 79.9                              | 17.4    | 2.4   | 0.3   | 0.0   |

General Comments: Soil texture is not estimated on high pH soils.



# SOIL TEST REPORT

FIELD ID **18**  
SAMPLE ID **1G**  
FIELD NAME  
COUNTY **3**  
TWP **2** RANGE  
SECTION **15** QTR ACRES **240**  
PREV. CROP **Canola-bu**



SUBMITTED FOR:  
**BLUMENGART COLONY**

SUBMITTED BY: **KR3239**  
**KR CROP CHECK LIMITED**  
**12085 RD 23 W (DICKENS RD**  
**BOX 240**  
**WINKLER, MB R6W 4A5**

REF # **20584566** BOX # **1237**  
LAB # **NW69263**

Date Sampled **09/04/2023**

Date Received **09/05/2023**

Date Reported **09/06/2023**

| Nutrient In The Soil |              | Interpretation |     |     |      | 1st Crop Choice      |             |  | 2nd Crop Choice      |             |  | 3rd Crop Choice      |             |  |
|----------------------|--------------|----------------|-----|-----|------|----------------------|-------------|--|----------------------|-------------|--|----------------------|-------------|--|
|                      |              | VLow           | Low | Med | High | YIELD GOAL           |             |  | YIELD GOAL           |             |  | YIELD GOAL           |             |  |
| 0-6"                 | 8 lb/acre    |                |     |     |      | SUGGESTED GUIDELINES |             |  | SUGGESTED GUIDELINES |             |  | SUGGESTED GUIDELINES |             |  |
| 0-24"                | 24 lb/acre   |                |     |     |      | LB/ACRE              | APPLICATION |  | LB/ACRE              | APPLICATION |  | LB/ACRE              | APPLICATION |  |
| Nitrate              |              |                |     |     |      | N                    |             |  | N                    |             |  | N                    |             |  |
| Olsen                | 26 ppm       |                |     |     |      | P2O5                 |             |  | P2O5                 |             |  | P2O5                 |             |  |
| Phosphorus           |              |                |     |     |      | K2O                  |             |  | K2O                  |             |  | K2O                  |             |  |
| Potassium            | 202 ppm      |                |     |     |      | Cl                   |             |  | Cl                   |             |  | Cl                   |             |  |
| Chloride             |              |                |     |     |      | S                    |             |  | S                    |             |  | S                    |             |  |
| 0-6"                 | 26 lb/acre   |                |     |     |      | B                    |             |  | B                    |             |  | B                    |             |  |
| 0-24"                | 64 lb/acre   |                |     |     |      | Zn                   |             |  | Zn                   |             |  | Zn                   |             |  |
| Sulfur               |              |                |     |     |      | Fe                   |             |  | Fe                   |             |  | Fe                   |             |  |
| Boron                | 1.1 ppm      |                |     |     |      | Mn                   |             |  | Mn                   |             |  | Mn                   |             |  |
| Zinc                 | 4.95 ppm     |                |     |     |      | Cu                   |             |  | Cu                   |             |  | Cu                   |             |  |
| Iron                 | 9.4 ppm      |                |     |     |      | Mg                   |             |  | Mg                   |             |  | Mg                   |             |  |
| Manganese            | 2.6 ppm      |                |     |     |      | Lime                 |             |  | Lime                 |             |  | Lime                 |             |  |
| Copper               | 0.82 ppm     |                |     |     |      |                      |             |  |                      |             |  |                      |             |  |
| Magnesium            | 398 ppm      |                |     |     |      |                      |             |  |                      |             |  |                      |             |  |
| Calcium              | 3970 ppm     |                |     |     |      |                      |             |  |                      |             |  |                      |             |  |
| Sodium               | 13 ppm       | **             |     |     |      |                      |             |  |                      |             |  |                      |             |  |
| Org.Matter           | 3.2 %        |                |     |     |      |                      |             |  |                      |             |  |                      |             |  |
| Carbonate(CCE)       | 1.2 %        |                |     |     |      |                      |             |  |                      |             |  |                      |             |  |
| 0-6"                 | 0.29 mmho/cm |                |     |     |      |                      |             |  |                      |             |  |                      |             |  |
| 0-24"                | 0.22 mmho/cm |                |     |     |      |                      |             |  |                      |             |  |                      |             |  |
| Sol. Salts           |              |                |     |     |      |                      |             |  |                      |             |  |                      |             |  |

| Soil pH  |  | Buffer pH |  | Cation Exchange Capacity |  | % Base Saturation (Typical Range) |  |              |  |           |  |           |  |           |  |
|----------|--|-----------|--|--------------------------|--|-----------------------------------|--|--------------|--|-----------|--|-----------|--|-----------|--|
|          |  |           |  |                          |  | % Ca                              |  | % Mg         |  | % K       |  | % Na      |  | % H       |  |
| 0-6" 8.1 |  | 6-24" 8.5 |  | 23.7 meq                 |  | (65-75) 83.6                      |  | (15-20) 14.0 |  | (1-7) 2.2 |  | (0-5) 0.2 |  | (0-5) 0.0 |  |

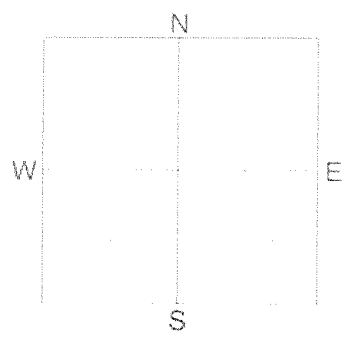
General Comments: Soil texture is not estimated on high pH soils.



Soil Analysis by Agvise Laboratories  
(http://www.agvise.com)  
Northwood: (701) 587-6010  
Benson: (320) 843-4109

**SOIL TEST REPORT**

FIELD ID **19S**  
 SAMPLE ID **1G-WEST**  
 FIELD NAME  
 COUNTY **3**  
 TWP **2** RANGE  
 SECTION **16** QTRS **S** ACRES **150**  
 PREV. CROP **Corn-Grain**



SUBMITTED FOR:  
**BLUMENGART COLONY**

SUBMITTED BY: **KR3239**  
**KR CROP CHECK LIMITED**  
**12085 RD 23 W (DICKENS RD**  
**BOX 240**  
**WINKLER, MB** **R6W 4A5**

REF # **20895061** BOX # **4330**  
 LAB # **NW222682**

Date Sampled **10/23/2023** Date Received **10/24/2023** Date Reported **10/28/2023**

| Nutrient In The Soil |       | Interpretation |     |     |                                   | 1st Crop Choice               |             |         | 2nd Crop Choice               |             |           | 3rd Crop Choice               |             |                          |          |  |           |  |  |                          |  |  |              |  |  |              |  |  |           |  |  |           |
|----------------------|-------|----------------|-----|-----|-----------------------------------|-------------------------------|-------------|---------|-------------------------------|-------------|-----------|-------------------------------|-------------|--------------------------|----------|--|-----------|--|--|--------------------------|--|--|--------------|--|--|--------------|--|--|-----------|--|--|-----------|
|                      |       | VLow           | Low | Med | High                              |                               |             |         |                               |             |           |                               |             |                          |          |  |           |  |  |                          |  |  |              |  |  |              |  |  |           |  |  |           |
| Nitrate              | 0-6"  | 34 lb/acre     |     |     |                                   | YIELD GOAL                    |             |         | YIELD GOAL                    |             |           | YIELD GOAL                    |             |                          |          |  |           |  |  |                          |  |  |              |  |  |              |  |  |           |  |  |           |
|                      | 0-24" | 64 lb/acre     |     |     |                                   | SUGGESTED GUIDELINES          |             |         | SUGGESTED GUIDELINES          |             |           | SUGGESTED GUIDELINES          |             |                          |          |  |           |  |  |                          |  |  |              |  |  |              |  |  |           |  |  |           |
|                      |       |                |     |     |                                   | LB/ACRE                       | APPLICATION |         | LB/ACRE                       | APPLICATION |           | LB/ACRE                       | APPLICATION |                          |          |  |           |  |  |                          |  |  |              |  |  |              |  |  |           |  |  |           |
|                      |       |                |     |     |                                   | N                             |             |         | N                             |             |           | N                             |             |                          |          |  |           |  |  |                          |  |  |              |  |  |              |  |  |           |  |  |           |
| Phosphorus           | Olsen | 48 ppm         |     |     |                                   | P <sub>2</sub> O <sub>5</sub> |             |         | P <sub>2</sub> O <sub>5</sub> |             |           | P <sub>2</sub> O <sub>5</sub> |             |                          |          |  |           |  |  |                          |  |  |              |  |  |              |  |  |           |  |  |           |
| Potassium            |       | 168 ppm        |     |     |                                   | K <sub>2</sub> O              |             |         | K <sub>2</sub> O              |             |           | K <sub>2</sub> O              |             |                          |          |  |           |  |  |                          |  |  |              |  |  |              |  |  |           |  |  |           |
| Chloride             |       |                |     |     |                                   | Cl                            |             |         | Cl                            |             |           | Cl                            |             |                          |          |  |           |  |  |                          |  |  |              |  |  |              |  |  |           |  |  |           |
| Sulfur               | 0-6"  | 24 lb/acre     |     |     |                                   | S                             |             |         | S                             |             |           | S                             |             |                          |          |  |           |  |  |                          |  |  |              |  |  |              |  |  |           |  |  |           |
|                      | 0-24" | 224 lb/acre    |     |     |                                   | B                             |             |         | B                             |             |           | B                             |             |                          |          |  |           |  |  |                          |  |  |              |  |  |              |  |  |           |  |  |           |
| Boron                |       | 1.4 ppm        |     |     |                                   | Zn                            |             |         | Zn                            |             |           | Zn                            |             |                          |          |  |           |  |  |                          |  |  |              |  |  |              |  |  |           |  |  |           |
| Zinc                 |       | 6.84 ppm       |     |     |                                   | Fe                            |             |         | Fe                            |             |           | Fe                            |             |                          |          |  |           |  |  |                          |  |  |              |  |  |              |  |  |           |  |  |           |
| Iron                 |       | 9.4 ppm        |     |     |                                   | Mn                            |             |         | Mn                            |             |           | Mn                            |             |                          |          |  |           |  |  |                          |  |  |              |  |  |              |  |  |           |  |  |           |
| Manganese            |       | 2.1 ppm        |     |     |                                   | Cu                            |             |         | Cu                            |             |           | Cu                            |             |                          |          |  |           |  |  |                          |  |  |              |  |  |              |  |  |           |  |  |           |
| Copper               |       | 1.05 ppm       |     |     |                                   | Mg                            |             |         | Mg                            |             |           | Mg                            |             |                          |          |  |           |  |  |                          |  |  |              |  |  |              |  |  |           |  |  |           |
| Magnesium            |       | 484 ppm        |     |     |                                   | Lime                          |             |         | Lime                          |             |           | Lime                          |             |                          |          |  |           |  |  |                          |  |  |              |  |  |              |  |  |           |  |  |           |
| Calcium              |       | 3989 ppm       |     |     |                                   | Soil pH                       |             |         | Buffer pH                     |             |           | Cation Exchange Capacity      |             |                          |          |  |           |  |  |                          |  |  |              |  |  |              |  |  |           |  |  |           |
| Sodium               |       | 27 ppm         |     |     | % Base Saturation (Typical Range) |                               |             |         |                               |             |           |                               |             |                          |          |  |           |  |  |                          |  |  |              |  |  |              |  |  |           |  |  |           |
| Org.Matter           |       | 2.7 %          |     |     |                                   |                               |             | Soil pH |                               |             | Buffer pH |                               |             | Cation Exchange Capacity |          |  |           |  |  |                          |  |  |              |  |  |              |  |  |           |  |  |           |
| Carbonate(CCE)       |       | 1.3 %          |     |     | Soil pH                           |                               |             |         |                               |             |           |                               |             |                          |          |  | Buffer pH |  |  | Cation Exchange Capacity |  |  |              |  |  |              |  |  |           |  |  |           |
| Sol. Salts           | 0-6"  | 0.36 mmho/cm   |     |     |                                   |                               |             | Soil pH |                               |             | Buffer pH |                               |             | Cation Exchange Capacity |          |  |           |  |  |                          |  |  |              |  |  |              |  |  |           |  |  |           |
|                      | 0-24" | 0.37 mmho/cm   |     |     | Soil pH                           |                               |             |         |                               |             |           |                               |             |                          |          |  | Buffer pH |  |  | Cation Exchange Capacity |  |  |              |  |  |              |  |  |           |  |  |           |
|                      |       |                |     |     |                                   |                               |             |         |                               |             |           | 6-24" 8.4                     |             |                          | 24.5 meq |  |           |  |  |                          |  |  | (65-75) 81.3 |  |  | (15-20) 16.4 |  |  | (1-7) 1.8 |  |  | (0-5) 0.5 |

General Comments: Soil texture is not estimated on high pH soils.

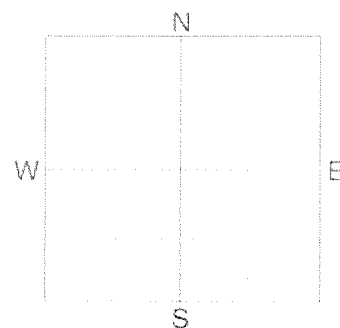




Soil Analysis by Agvise Laboratories  
(<http://www.agvise.com>)  
Northwood: (701) 587-6010  
Benson: (320) 843-4109

**SOIL TEST REPORT**

FIELD ID **19N**  
 SAMPLE ID **1G**  
 FIELD NAME  
 COUNTY **3**  
 TWP **2** RANGE  
 SECTION **16** QTR **SE** ACRES **125**  
 PREV. CROP **Potatoes**



SUBMITTED FOR:  
**BLUMENGART COLONY**

SUBMITTED BY: **KR3239**  
**KR CROP CHECK LIMITED**  
**12085 RD 23 W (DICKENS RD**  
**BOX 240**  
**WINKLER, MB R6W 4A5**

REF # **20896196** BOX # **506**  
 LAB # **NW250127**

Date Sampled **11/02/2023** Date Received **11/03/2023** Date Reported **11/06/2023**

| Nutrient In The Soil |                            | Interpretation           |     |     |      | 1st Crop Choice               |             |                          | 2nd Crop Choice                   |                 |              | 3rd Crop Choice               |              |  |
|----------------------|----------------------------|--------------------------|-----|-----|------|-------------------------------|-------------|--------------------------|-----------------------------------|-----------------|--------------|-------------------------------|--------------|--|
|                      |                            | VLow                     | Low | Med | High |                               |             |                          |                                   |                 |              |                               |              |  |
| Nitrate              | 0-6"<br>6-24"              | 23 lb/acre<br>39 lb/acre |     |     |      | YIELD GOAL                    |             |                          | YIELD GOAL                        |                 |              | YIELD GOAL                    |              |  |
|                      | 0-24"                      | 62 lb/acre               |     |     |      | SUGGESTED GUIDELINES          |             |                          | SUGGESTED GUIDELINES              |                 |              | SUGGESTED GUIDELINES          |              |  |
|                      |                            |                          |     |     |      | LB/ACRE                       | APPLICATION |                          | LB/ACRE                           | APPLICATION     |              | LB/ACRE                       | APPLICATION  |  |
|                      |                            |                          |     |     |      | N                             |             |                          | N                                 |                 |              | N                             |              |  |
| Olsen                | 37 ppm                     |                          |     |     |      | P <sub>2</sub> O <sub>5</sub> |             |                          | P <sub>2</sub> O <sub>5</sub>     |                 |              | P <sub>2</sub> O <sub>5</sub> |              |  |
| Phosphorus           |                            |                          |     |     |      | K <sub>2</sub> O              |             |                          | K <sub>2</sub> O                  |                 |              | K <sub>2</sub> O              |              |  |
| Potassium            | 158 ppm                    |                          |     |     |      | Cl                            |             |                          | Cl                                |                 |              | Cl                            |              |  |
|                      |                            |                          |     |     |      | S                             |             |                          | S                                 |                 |              | S                             |              |  |
| Chloride             |                            |                          |     |     |      | B                             |             |                          | B                                 |                 |              | B                             |              |  |
| 0-6"<br>6-24"        | 40 lb/acre<br>234 lb/acre  |                          |     |     |      | Zn                            |             |                          | Zn                                |                 |              | Zn                            |              |  |
| Sulfur               |                            |                          |     |     |      | Fe                            |             |                          | Fe                                |                 |              | Fe                            |              |  |
| Boron                | 1.3 ppm                    |                          |     |     |      | Mn                            |             |                          | Mn                                |                 |              | Mn                            |              |  |
| Zinc                 | 3.88 ppm                   |                          |     |     |      | Cu                            |             |                          | Cu                                |                 |              | Cu                            |              |  |
| Iron                 | 11.1 ppm                   |                          |     |     |      | Mg                            |             |                          | Mg                                |                 |              | Mg                            |              |  |
| Manganese            | 2.2 ppm                    |                          |     |     |      | Lime                          |             |                          | Lime                              |                 |              | Lime                          |              |  |
| Copper               | 1.0 ppm                    |                          |     |     |      |                               |             |                          |                                   |                 |              |                               |              |  |
| Magnesium            | 412 ppm                    |                          |     |     |      |                               |             |                          |                                   |                 |              |                               |              |  |
| Calcium              | 4065 ppm                   |                          |     |     |      |                               |             |                          |                                   |                 |              |                               |              |  |
| Sodium               | 42 ppm                     |                          |     |     |      |                               |             |                          |                                   |                 |              |                               |              |  |
| Org.Matter           | 2.5 %                      |                          |     |     |      |                               |             |                          |                                   |                 |              |                               |              |  |
| Carbonate(CCE)       | 3.7 %                      |                          |     |     |      |                               |             |                          |                                   |                 |              |                               |              |  |
| 0-6"<br>6-24"        | 0.5 mmho/cm<br>0.4 mmho/cm |                          |     |     |      | Soil pH                       | Buffer pH   | Cation Exchange Capacity | % Base Saturation (Typical Range) |                 |              |                               |              |  |
| Sol. Salts           |                            |                          |     |     |      | 0-6" 8.1<br>6-24" 8.6         |             | 24.3 meq                 | % Ca                              | % Mg            | % K          | % Na                          | % H          |  |
|                      |                            |                          |     |     |      |                               |             |                          | (65-75)<br>83.5                   | (15-20)<br>14.1 | (1-7)<br>1.7 | (0-5)<br>0.8                  | (0-5)<br>0.0 |  |

General Comments: Soil texture is not estimated on high pH soils.

Soil Analysis by Agvise Laboratories  
(<http://www.agvise.com>)  
Northwood: (701) 587-6010  
Benson: (320) 843-4109

## SOIL TEST REPORT

|            |                 |       |                  |
|------------|-----------------|-------|------------------|
| FIELD ID   | <b>20N</b>      |       |                  |
| SAMPLE ID  | <b>1G-W</b>     |       |                  |
| FIELD NAME |                 |       |                  |
| COUNTY     | <b>3</b>        |       |                  |
| TWP        | <b>2</b>        | RANGE |                  |
| SECTION    | <b>16</b>       | QTR N | ACRES <b>140</b> |
| PREV. CROP | <b>Potatoes</b> |       |                  |

SUBMITTED FOR:  
BLUMENGART COLONY

SUBMITTED BY: KR3239  
KR CROP CHECK LIMITED  
12085 RD 23 W (DICKENS RD  
BOX 240  
WINKLER, MB R6W 4A5

REF # 20896161 BOX # 2908  
LAB # NW276478

Date Sampled **11/23/2023**

Date Received **11/24/2023**

Date Reported **11/28/2023**

| Nutrient In The Soil |                                         | Interpretation |     |     |      | 1st Crop Choice       |             |                          | 2nd Crop Choice                   |                 |              | 3rd Crop Choice      |              |  |
|----------------------|-----------------------------------------|----------------|-----|-----|------|-----------------------|-------------|--------------------------|-----------------------------------|-----------------|--------------|----------------------|--------------|--|
|                      |                                         | VLow           | Low | Med | High |                       |             |                          |                                   |                 |              |                      |              |  |
| Nitrate              | 0-6" 14 lb/acre<br>6-24" 18 lb/acre     |                |     |     |      | YIELD GOAL            |             |                          | YIELD GOAL                        |                 |              | YIELD GOAL           |              |  |
|                      | 0-24" 32 lb/acre                        | *****          |     |     |      | SUGGESTED GUIDELINES  |             |                          | SUGGESTED GUIDELINES              |                 |              | SUGGESTED GUIDELINES |              |  |
|                      |                                         |                |     |     |      | LB/ACRE               | APPLICATION |                          | LB/ACRE                           | APPLICATION     |              | LB/ACRE              | APPLICATION  |  |
|                      |                                         |                |     |     |      | N                     |             |                          | N                                 |                 |              | N                    |              |  |
|                      | Olsen 43 ppm                            | *****          |     |     |      | P2O5                  |             |                          | P2O5                              |                 |              | P2O5                 |              |  |
|                      | Phosphorus                              |                |     |     |      | K2O                   |             |                          | K2O                               |                 |              | K2O                  |              |  |
|                      | Potassium 114 ppm                       | *****          |     |     |      | Cl                    |             |                          | Cl                                |                 |              | Cl                   |              |  |
|                      |                                         |                |     |     |      | S                     |             |                          | S                                 |                 |              | S                    |              |  |
|                      | Chloride                                |                |     |     |      | B                     |             |                          | B                                 |                 |              | B                    |              |  |
|                      | 0-6" 38 lb/acre<br>6-24" 90 lb/acre     | *****          |     |     |      | Zn                    |             |                          | Zn                                |                 |              | Zn                   |              |  |
|                      | Sulfur                                  | *****          |     |     |      | Fe                    |             |                          | Fe                                |                 |              | Fe                   |              |  |
|                      | Boron 1.1 ppm                           | *****          |     |     |      | Mn                    |             |                          | Mn                                |                 |              | Mn                   |              |  |
|                      | Zinc 4.10 ppm                           | *****          |     |     |      | Cu                    |             |                          | Cu                                |                 |              | Cu                   |              |  |
|                      | Iron 14.0 ppm                           | *****          |     |     |      | Mg                    |             |                          | Mg                                |                 |              | Mg                   |              |  |
|                      | Manganese 3.3 ppm                       | *****          |     |     |      | Lime                  |             |                          | Lime                              |                 |              | Lime                 |              |  |
|                      | Copper 0.74 ppm                         | *****          |     |     |      |                       |             |                          |                                   |                 |              |                      |              |  |
|                      | Magnesium 305 ppm                       | *****          |     |     |      |                       |             |                          |                                   |                 |              |                      |              |  |
|                      | Calcium 4195 ppm                        | *****          |     |     |      |                       |             |                          |                                   |                 |              |                      |              |  |
|                      | Sodium 35 ppm                           | ****           |     |     |      |                       |             |                          |                                   |                 |              |                      |              |  |
|                      | Org.Matter 1.8 %                        | *****          |     |     |      |                       |             |                          |                                   |                 |              |                      |              |  |
|                      | Carbonate(CCE) 4.1 %                    | *****          |     |     |      |                       |             |                          |                                   |                 |              |                      |              |  |
|                      | 0-6" 0.29 mmho/cm<br>6-24" 0.19 mmho/cm | *****          |     |     |      |                       |             |                          |                                   |                 |              |                      |              |  |
|                      | Sol. Salts                              | ****           |     |     |      |                       |             |                          |                                   |                 |              |                      |              |  |
|                      |                                         |                |     |     |      | Soil pH               | Buffer pH   | Cation Exchange Capacity | % Base Saturation (Typical Range) |                 |              |                      |              |  |
|                      |                                         |                |     |     |      |                       |             |                          | % Ca                              | % Mg            | % K          | % Na                 | % H          |  |
|                      |                                         |                |     |     |      | 0-6" 8.2<br>6-24" 8.5 |             | 24.0 meq                 | (65-75)<br>87.5                   | (15-20)<br>10.6 | (1-7)<br>1.2 | (0-5)<br>0.6         | (0-5)<br>0.0 |  |

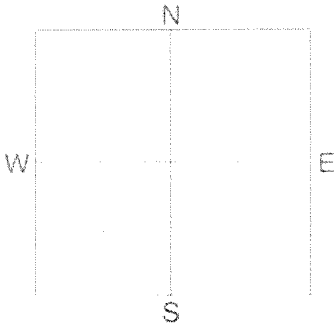
**General Comments:** Soil texture is not estimated on high pH soils.



Soil Analysis by Agvise Laboratories  
(<http://www.agvise.com>)  
Northwood: (701) 587-6010  
Benson: (320) 843-4109

### SOIL TEST REPORT

FIELD ID **22**  
SAMPLE ID **1 G**  
FIELD NAME  
COUNTY **3**  
TWP **2** RANGE  
SECTION **17** QTR **NE** ACRES **160**  
PREV. CROP **Potatoes**



SUBMITTED FOR:  
**BLUMENGART COLONY**

SUBMITTED BY: **KR3239**  
**KR CROP CHECK LIMITED**  
**12085 RD 23 W (DICKENS RD**  
**BOX 240**  
**WINKLER, MB R6W 4A5**

REF # **20896156** BOX # **82**  
LAB # **NW243137**

Date Sampled **10/30/2023**
Date Received **10/31/2023**
Date Reported **11/03/2023**

| Nutrient In The Soil |                              | Interpretation |     |     |      | 1st Crop Choice               |             |  | 2nd Crop Choice               |             |  | 3rd Crop Choice               |             |  |
|----------------------|------------------------------|----------------|-----|-----|------|-------------------------------|-------------|--|-------------------------------|-------------|--|-------------------------------|-------------|--|
|                      |                              | VLow           | Low | Med | High | YIELD GOAL                    |             |  | YIELD GOAL                    |             |  | YIELD GOAL                    |             |  |
| 0-6"<br>6-24"        | 13 lb/acre<br>33 lb/acre     |                |     |     |      | SUGGESTED GUIDELINES          |             |  | SUGGESTED GUIDELINES          |             |  | SUGGESTED GUIDELINES          |             |  |
| 0-24"                | 46 lb/acre                   |                |     |     |      | LB/ACRE                       | APPLICATION |  | LB/ACRE                       | APPLICATION |  | LB/ACRE                       | APPLICATION |  |
| Nitrate              |                              |                |     |     |      | N                             |             |  | N                             |             |  | N                             |             |  |
| Olsen                | 46 ppm                       |                |     |     |      | P <sub>2</sub> O <sub>5</sub> |             |  | P <sub>2</sub> O <sub>5</sub> |             |  | P <sub>2</sub> O <sub>5</sub> |             |  |
| Phosphorus           |                              |                |     |     |      | K <sub>2</sub> O              |             |  | K <sub>2</sub> O              |             |  | K <sub>2</sub> O              |             |  |
| Potassium            | 187 ppm                      |                |     |     |      | Cl                            |             |  | Cl                            |             |  | Cl                            |             |  |
|                      |                              |                |     |     |      | S                             |             |  | S                             |             |  | S                             |             |  |
| Chloride             |                              |                |     |     |      | B                             |             |  | B                             |             |  | B                             |             |  |
| 0-6"<br>6-24"        | 32 lb/acre<br>168 lb/acre    |                |     |     |      | Zn                            |             |  | Zn                            |             |  | Zn                            |             |  |
| Sulfur               |                              |                |     |     |      | Fe                            |             |  | Fe                            |             |  | Fe                            |             |  |
| Boron                | 1.2 ppm                      |                |     |     |      | Mn                            |             |  | Mn                            |             |  | Mn                            |             |  |
| Zinc                 | 4.12 ppm                     |                |     |     |      | Cu                            |             |  | Cu                            |             |  | Cu                            |             |  |
| Iron                 | 11.7 ppm                     |                |     |     |      | Mg                            |             |  | Mg                            |             |  | Mg                            |             |  |
| Manganese            | 2.8 ppm                      |                |     |     |      | Lime                          |             |  | Lime                          |             |  | Lime                          |             |  |
| Copper               | 1.41 ppm                     |                |     |     |      |                               |             |  |                               |             |  |                               |             |  |
| Magnesium            | 430 ppm                      |                |     |     |      |                               |             |  |                               |             |  |                               |             |  |
| Calcium              | 4507 ppm                     |                |     |     |      |                               |             |  |                               |             |  |                               |             |  |
| Sodium               | 28 ppm                       |                |     |     |      |                               |             |  |                               |             |  |                               |             |  |
| Org.Matter           | 2.8 %                        |                |     |     |      |                               |             |  |                               |             |  |                               |             |  |
| Carbonate(CCE)       | 2.6 %                        |                |     |     |      |                               |             |  |                               |             |  |                               |             |  |
| 0-6"<br>6-24"        | 0.34 mmho/cm<br>0.33 mmho/cm |                |     |     |      |                               |             |  |                               |             |  |                               |             |  |
| Sol. Salts           |                              |                |     |     |      |                               |             |  |                               |             |  |                               |             |  |

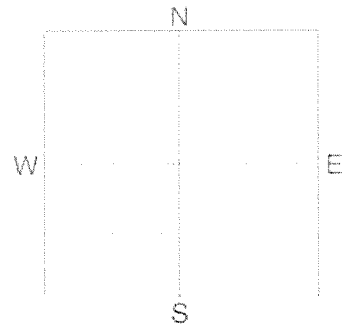
General Comments: Soil texture is not estimated on high pH soils.



Soil Analysis by Agvise Laboratories  
(http://www.agvise.com)  
Northwood: (701) 587-6010  
Benson: (320) 843-4109

## SOIL TEST REPORT

FIELD ID **23**  
SAMPLE ID **1G**  
FIELD NAME  
COUNTY **3**  
TWP **2** RANGE  
SECTION **17** QTR **SW** ACRES **120**  
PREV. CROP **Wheat-Spring**



SUBMITTED FOR:  
**BLUMENGART COLONY**

SUBMITTED BY: **KR3239**  
**KR CROP CHECK LIMITED**  
**12085 RD 23 W (DICKENS RD**  
**BOX 240**  
**WINKLER, MB** **R6W 4A5**

REF # **20552056** BOX # **1237**  
LAB # **NW69252**

Date Sampled **09/04/2023**

Date Received **09/05/2023**

Date Reported **09/06/2023**

| Nutrient In The Soil |           | Interpretation |     |     |      | 1st Crop Choice               |     | 2nd Crop Choice               |         | 3rd Crop Choice                   |       |
|----------------------|-----------|----------------|-----|-----|------|-------------------------------|-----|-------------------------------|---------|-----------------------------------|-------|
|                      |           | VLow           | Low | Med | High | YIELD GOAL                    |     | YIELD GOAL                    |         | YIELD GOAL                        |       |
| Nitrate              | 0-6"      | 23 lb/acre     |     |     |      | SUGGESTED GUIDELINES          |     | SUGGESTED GUIDELINES          |         | SUGGESTED GUIDELINES              |       |
|                      | 0-24"     | 76 lb/acre     |     |     |      | LB/ACRE APPLICATION           |     | LB/ACRE APPLICATION           |         | LB/ACRE APPLICATION               |       |
| Phosphorus           | Olsen     | 27 ppm         |     |     |      | N                             |     | N                             |         | N                                 |       |
|                      | Potassium | 172 ppm        |     |     |      | P <sub>2</sub> O <sub>5</sub> |     | P <sub>2</sub> O <sub>5</sub> |         | P <sub>2</sub> O <sub>5</sub>     |       |
| Chloride             | 0-6"      | 26 lb/acre     |     |     |      | K <sub>2</sub> O              |     | K <sub>2</sub> O              |         | K <sub>2</sub> O                  |       |
|                      | 0-24"     | 88 lb/acre     |     |     |      | Cl                            |     | Cl                            |         | Cl                                |       |
| Sulfur               | 0-6"      | 26 lb/acre     |     |     |      | S                             |     | S                             |         | S                                 |       |
|                      | 0-24"     | 88 lb/acre     |     |     |      | B                             |     | B                             |         | B                                 |       |
| Boron                |           | 1.0 ppm        |     |     |      | Zn                            |     | Zn                            |         | Zn                                |       |
| Zinc                 |           | 3.92 ppm       |     |     |      | Fe                            |     | Fe                            |         | Fe                                |       |
| Iron                 |           | 9.0 ppm        |     |     |      | Mn                            |     | Mn                            |         | Mn                                |       |
| Manganese            |           | 2.1 ppm        |     |     |      | Cu                            |     | Cu                            |         | Cu                                |       |
| Copper               |           | 0.77 ppm       |     |     |      | Mg                            |     | Mg                            |         | Mg                                |       |
| Magnesium            |           | 403 ppm        |     |     |      | Lime                          |     | Lime                          |         | Lime                              |       |
| Calcium              |           | 4331 ppm       |     |     |      | Soil pH                       |     | Cation Exchange Capacity      |         | % Base Saturation (Typical Range) |       |
| Sodium               |           | 15 ppm         |     |     |      | Buffer pH                     |     |                               |         | % Ca                              | % Mg  |
| Org.Matter           |           | 3.0 %          |     |     |      |                               |     |                               |         | % K                               | % Na  |
| Carbonate(CCE)       |           | 1.6 %          |     |     |      |                               |     |                               |         | % H                               |       |
| Sol. Salts           | 0-6"      | 0.37 mmho/cm   |     |     |      | 0-6"                          | 8.1 | 25.5 meq                      | (65-75) | (15-20)                           | (1-7) |
|                      | 0-24"     | 0.35 mmho/cm   |     |     |      | 6-24"                         | 8.4 |                               |         |                                   |       |

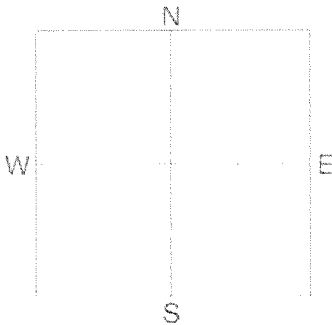
General Comments: Soil texture is not estimated on high pH soils.



Soil Analysis by Agvise Laboratories  
(<http://www.agvise.com>)  
Northwood: (701) 587-6010  
Benson: (320) 843-4109

### SOIL TEST REPORT

FIELD ID **24**  
SAMPLE ID **1G**  
FIELD NAME  
COUNTY **3**  
TWP **2** RANGE  
SECTION **17** QTR **NW** ACRES **120**  
PREV. CROP **Beans-Edible**



SUBMITTED FOR:  
**BLUMENGART COLONY**

SUBMITTED BY: **KR3239**  
**KR CROP CHECK LIMITED**  
**12085 RD 23 W (DICKENS RD)**  
**BOX 240**  
**WINKLER, MB** **R6W 4A5**

REF # **20551961** BOX # **4008**  
LAB # **NW104865**

Date Sampled **09/18/2023**

Date Received **09/19/2023**

Date Reported **09/21/2023**

| Nutrient In The Soil |              | Interpretation |     |     |      | 1st Crop Choice               |             |          | 2nd Crop Choice               |              |           | 3rd Crop Choice                   |             |      |      |     |
|----------------------|--------------|----------------|-----|-----|------|-------------------------------|-------------|----------|-------------------------------|--------------|-----------|-----------------------------------|-------------|------|------|-----|
|                      |              | VLow           | Low | Med | High |                               |             |          |                               |              |           |                                   |             |      |      |     |
| 0-6"                 | 36 lb/acre   |                |     |     |      | YIELD GOAL                    |             |          | YIELD GOAL                    |              |           | YIELD GOAL                        |             |      |      |     |
| 0-24"                | 88 lb/acre   |                |     |     |      | SUGGESTED GUIDELINES          |             |          | SUGGESTED GUIDELINES          |              |           | SUGGESTED GUIDELINES              |             |      |      |     |
| Nitrate              |              |                |     |     |      | LB/ACRE                       | APPLICATION |          | LB/ACRE                       | APPLICATION  |           | LB/ACRE                           | APPLICATION |      |      |     |
|                      |              |                |     |     |      | N                             |             |          | N                             |              |           | N                                 |             |      |      |     |
| Olsen                | 24 ppm       |                |     |     |      | P <sub>2</sub> O <sub>5</sub> |             |          | P <sub>2</sub> O <sub>5</sub> |              |           | P <sub>2</sub> O <sub>5</sub>     |             |      |      |     |
| Phosphorus           |              |                |     |     |      | K <sub>2</sub> O              |             |          | K <sub>2</sub> O              |              |           | K <sub>2</sub> O                  |             |      |      |     |
| Potassium            | 162 ppm      |                |     |     |      | Cl                            |             |          | Cl                            |              |           | Cl                                |             |      |      |     |
| Chloride             |              |                |     |     |      | S                             |             |          | S                             |              |           | S                                 |             |      |      |     |
| 0-6"                 | 36 lb/acre   |                |     |     |      | B                             |             |          | B                             |              |           | B                                 |             |      |      |     |
| 0-24"                | 88 lb/acre   |                |     |     |      | Zn                            |             |          | Zn                            |              |           | Zn                                |             |      |      |     |
| Sulfur               |              |                |     |     |      | Fe                            |             |          | Fe                            |              |           | Fe                                |             |      |      |     |
| Boron                | 0.8 ppm      |                |     |     |      | Mn                            |             |          | Mn                            |              |           | Mn                                |             |      |      |     |
| Zinc                 | 1.87 ppm     |                |     |     |      | Cu                            |             |          | Cu                            |              |           | Cu                                |             |      |      |     |
| Iron                 | 7.1 ppm      |                |     |     |      | Mg                            |             |          | Mg                            |              |           | Mg                                |             |      |      |     |
| Manganese            | 1.4 ppm      |                |     |     |      | Lime                          |             |          | Lime                          |              |           | Lime                              |             |      |      |     |
| Copper               | 0.57 ppm     |                |     |     |      | Soil pH                       |             |          | Cation Exchange Capacity      |              |           | % Base Saturation (Typical Range) |             |      |      |     |
| Magnesium            | 441 ppm      |                |     |     |      |                               |             |          |                               |              |           |                                   |             | % Ca | % Mg | % K |
| Calcium              | 3911 ppm     |                |     |     |      | 0-6" 8.2                      |             | 23.7 meq | (65-75) 82.4                  | (15-20) 15.5 | (1-7) 1.8 | (0-5) 0.3                         | (0-5) 0.0   |      |      |     |
| Sodium               | 18 ppm       |                |     |     |      | 6-24" 8.5                     |             |          |                               |              |           |                                   |             |      |      |     |
| Org.Matter           | 2.6 %        |                |     |     |      |                               |             |          |                               |              |           |                                   |             |      |      |     |
| Carbonate(CCE)       | 0.7 %        |                |     |     |      |                               |             |          |                               |              |           |                                   |             |      |      |     |
| 0-6"                 | 0.34 mmho/cm |                |     |     |      |                               |             |          |                               |              |           |                                   |             |      |      |     |
| 0-24"                | 0.27 mmho/cm |                |     |     |      |                               |             |          |                               |              |           |                                   |             |      |      |     |
| Sol. Salts           |              |                |     |     |      |                               |             |          |                               |              |           |                                   |             |      |      |     |

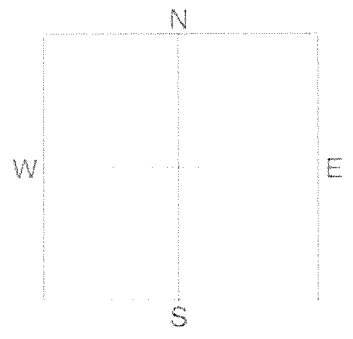
General Comments: Soil texture is not estimated on high pH soils.



Soil Analysis by Agvise Laboratories  
(http://www.agvise.com)  
Northwood: (701) 587-6010  
Benson: (320) 843-4109

**SOIL TEST REPORT**

FIELD ID **25**  
SAMPLE ID **5 R**  
FIELD NAME  
COUNTY **3**  
TWP **2** RANGE  
SECTION **10** QTR **NW** ACRES **82**  
PREV. CROP **Potatoes**



SUBMITTED FOR:  
**BLUMENGART COLONY**

SUBMITTED BY: **KR3239**  
**KR CROP CHECK LIMITED**  
**12085 RD 23 W (DICKENS RD**  
**BOX 240**  
**WINKLER, MB R6W 4A5**

REF # **20896193** BOX # **88**  
LAB # **NW243135**

Date Sampled **10/30/2023** Date Received **10/31/2023** Date Reported **11/03/2023**

| Nutrient In The Soil |               | Interpretation               |     |     |      | 1st Crop Choice               |  |  | 2nd Crop Choice               |  |  | 3rd Crop Choice                   |         |       |
|----------------------|---------------|------------------------------|-----|-----|------|-------------------------------|--|--|-------------------------------|--|--|-----------------------------------|---------|-------|
|                      |               | VLow                         | Low | Med | High | YIELD GOAL                    |  |  | YIELD GOAL                    |  |  | YIELD GOAL                        |         |       |
| Nitrate              | 0-6"<br>6-24" | 18 lb/acre<br>27 lb/acre     |     |     |      | SUGGESTED GUIDELINES          |  |  | SUGGESTED GUIDELINES          |  |  | SUGGESTED GUIDELINES              |         |       |
|                      | 0-24"         | 45 lb/acre                   |     |     |      | LB/ACRE APPLICATION           |  |  | LB/ACRE APPLICATION           |  |  | LB/ACRE APPLICATION               |         |       |
|                      |               |                              |     |     |      | N                             |  |  | N                             |  |  | N                                 |         |       |
|                      |               |                              |     |     |      | P <sub>2</sub> O <sub>5</sub> |  |  | P <sub>2</sub> O <sub>5</sub> |  |  | P <sub>2</sub> O <sub>5</sub>     |         |       |
| Olsen                |               | 44 ppm                       |     |     |      | K <sub>2</sub> O              |  |  | K <sub>2</sub> O              |  |  | K <sub>2</sub> O                  |         |       |
| Phosphorus           |               |                              |     |     |      | Cl                            |  |  | Cl                            |  |  | Cl                                |         |       |
| Potassium            |               | 240 ppm                      |     |     |      | S                             |  |  | S                             |  |  | S                                 |         |       |
|                      |               |                              |     |     |      | B                             |  |  | B                             |  |  | B                                 |         |       |
| Chloride             |               |                              |     |     |      | Zn                            |  |  | Zn                            |  |  | Zn                                |         |       |
|                      |               |                              |     |     |      | Fe                            |  |  | Fe                            |  |  | Fe                                |         |       |
| 0-6"<br>6-24"        |               | 42 lb/acre<br>360 +lb/acre   |     |     |      | Mn                            |  |  | Mn                            |  |  | Mn                                |         |       |
| Sulfur               |               |                              |     |     |      | Cu                            |  |  | Cu                            |  |  | Cu                                |         |       |
| Boron                |               | 2.4 ppm                      |     |     |      | Mg                            |  |  | Mg                            |  |  | Mg                                |         |       |
| Zinc                 |               | 2.90 ppm                     |     |     |      | Lime                          |  |  | Lime                          |  |  | Lime                              |         |       |
| Iron                 |               | 12.1 ppm                     |     |     |      | Soil pH Buffer pH             |  |  | Cation Exchange Capacity      |  |  | % Base Saturation (Typical Range) |         |       |
| Manganese            |               | 3.8 ppm                      |     |     |      |                               |  |  |                               |  |  | % Ca                              | % Mg    | % K   |
| Copper               |               | 1.16 ppm                     |     |     |      |                               |  |  |                               |  |  | (65-75)                           | (15-20) | (1-7) |
| Magnesium            |               | 817 ppm                      |     |     |      |                               |  |  |                               |  |  | (0-5)                             | (0-5)   | (0-5) |
| Calcium              |               | 3953 ppm                     |     |     |      |                               |  |  |                               |  |  | 72.3                              | 24.9    | 2.3   |
| Sodium               |               | 34 ppm                       |     |     |      |                               |  |  |                               |  |  | 0.5                               | 0.5     | 0.0   |
| Org.Matter           |               | 3.3 %                        |     |     |      |                               |  |  |                               |  |  |                                   |         |       |
| Carbonate(CCE)       |               | 2.2 %                        |     |     |      |                               |  |  |                               |  |  |                                   |         |       |
| 0-6"<br>6-24"        |               | 0.37 mmho/cm<br>0.52 mmho/cm |     |     |      |                               |  |  |                               |  |  |                                   |         |       |
| Sol. Salts           |               |                              |     |     |      |                               |  |  |                               |  |  |                                   |         |       |

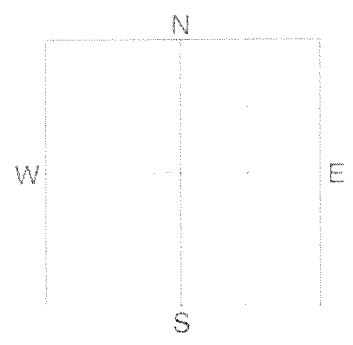
General Comments: Soil texture is not estimated on high pH soils.



Soil Analysis by Agvise Laboratories  
(http://www.agvise.com)  
Northwood: (701) 587-6010  
Benson: (320) 843-4109

### SOIL TEST REPORT

FIELD ID **26**  
 SAMPLE ID **2 G**  
 FIELD NAME  
 COUNTY **3**  
 TWP **2** RANGE  
 SECTION **10** QTR **NW** ACRES **80**  
 PREV. CROP **Corn-Grain**



SUBMITTED FOR:  
**BLUMENGART COLONY**

SUBMITTED BY: **KR3239**  
**KR CROP CHECK LIMITED**  
**12085 RD 23 W (DICKENS RD**  
**BOX 240**  
**WINKLER, MB R6W 4A5**

REF # **20783737** BOX # **6046**  
 LAB # **NW194472**

Date Sampled **10/16/2023** Date Received **10/17/2023** Date Reported **10/20/2023**

| Nutrient In The Soil |                                      | Interpretation |     |     |      | 1st Crop Choice               |             | 2nd Crop Choice               |             | 3rd Crop Choice                   |             |
|----------------------|--------------------------------------|----------------|-----|-----|------|-------------------------------|-------------|-------------------------------|-------------|-----------------------------------|-------------|
|                      |                                      | VLow           | Low | Med | High | YIELD GOAL                    |             | YIELD GOAL                    |             | YIELD GOAL                        |             |
| Nitrate              | 0-6"                                 | *****          |     |     |      | SUGGESTED GUIDELINES          |             | SUGGESTED GUIDELINES          |             | SUGGESTED GUIDELINES              |             |
|                      | 0-24"                                |                |     |     |      |                               |             |                               |             |                                   |             |
|                      |                                      |                |     |     |      | LB/ACRE                       | APPLICATION | LB/ACRE                       | APPLICATION | LB/ACRE                           | APPLICATION |
|                      |                                      |                |     |     |      | N                             |             | N                             |             | N                                 |             |
| Phosphorus           | Olsen 45 ppm                         | *****          |     |     |      | P <sub>2</sub> O <sub>5</sub> |             | P <sub>2</sub> O <sub>5</sub> |             | P <sub>2</sub> O <sub>5</sub>     |             |
| Potassium            | 173 ppm                              | *****          |     |     |      | K <sub>2</sub> O              |             | K <sub>2</sub> O              |             | K <sub>2</sub> O                  |             |
| Chloride             |                                      |                |     |     |      | Cl                            |             | Cl                            |             | Cl                                |             |
| Sulfur               | 0-6" 32 lb/acre<br>0-24" 288 lb/acre | *****          |     |     |      | S                             |             | S                             |             | S                                 |             |
| Boron                | 1.7 ppm                              | *****          |     |     |      | B                             |             | B                             |             | B                                 |             |
| Zinc                 | 2.69 ppm                             | *****          |     |     |      | Zn                            |             | Zn                            |             | Zn                                |             |
| Iron                 | 6.8 ppm                              | *****          |     |     |      | Fe                            |             | Fe                            |             | Fe                                |             |
| Manganese            | 2.0 ppm                              | *****          |     |     |      | Mn                            |             | Mn                            |             | Mn                                |             |
| Copper               | 0.92 ppm                             | *****          |     |     |      | Cu                            |             | Cu                            |             | Cu                                |             |
| Magnesium            | 715 ppm                              | *****          |     |     |      | Mg                            |             | Mg                            |             | Mg                                |             |
| Calcium              | 3532 ppm                             | *****          |     |     |      | Lime                          |             | Lime                          |             | Lime                              |             |
| Sodium               | 21 ppm                               | ***            |     |     |      |                               |             |                               |             |                                   |             |
| Org.Matter           | 2.6 %                                | *****          |     |     |      |                               |             |                               |             |                                   |             |
| Carbonate(CCE)       | 2.4 %                                | *****          |     |     |      |                               |             |                               |             |                                   |             |
| Sol. Salts           | 0-6"                                 | *****          |     |     |      | Soil pH                       | Buffer pH   | Cation Exchange Capacity      |             | % Base Saturation (Typical Range) |             |
|                      | 0-24"                                |                |     |     |      |                               |             |                               |             | % Ca                              | % Mg        |
|                      |                                      |                |     |     |      | 0-6" 8.4                      |             | 24.2 meq                      |             | (65-75)                           | (15-20)     |
|                      |                                      |                |     |     |      | 6-24" 8.6                     |             |                               |             | (1-7)                             | (0-5)       |
|                      |                                      |                |     |     |      |                               |             |                               |             | 0.4                               | 0.0         |

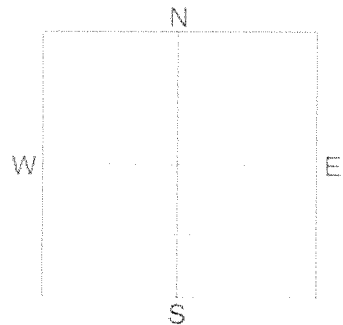
General Comments: Soil texture is not estimated on high pH soils.



Soil Analysis by Agvise Laboratories  
(<http://www.agvise.com>)  
Northwood: (701) 587-6010  
Benson: (320) 843-4109

## SOIL TEST REPORT

FIELD ID **27**  
SAMPLE ID **1G**  
FIELD NAME  
COUNTY **3**  
TWP **2** RANGE  
SECTION **24** QTR **NW** ACRES **80**  
PREV. CROP **Beans-Edible**



SUBMITTED FOR:  
**BLUMENGART COLONY**

SUBMITTED BY: **KR3239**  
**KR CROP CHECK LIMITED**  
**12085 RD 23 W (DICKENS RD**  
**BOX 240**  
**WINKLER, MB R6W 4A5**

REF # **20551956** BOX # **4051**  
LAB # **NW104858**

Date Sampled **09/18/2023**

Date Received **09/19/2023**

Date Reported **09/20/2023**

| Nutrient In The Soil |       | Interpretation |     |     |      | 1st Crop Choice               |             | 2nd Crop Choice               |             | 3rd Crop Choice                   |             |
|----------------------|-------|----------------|-----|-----|------|-------------------------------|-------------|-------------------------------|-------------|-----------------------------------|-------------|
|                      |       | VLow           | Low | Med | High |                               |             |                               |             |                                   |             |
| Nitrate              | 0-6"  | 64 lb/acre     |     |     |      | YIELD GOAL                    |             | YIELD GOAL                    |             | YIELD GOAL                        |             |
|                      | 0-24" | 64 lb/acre     |     |     |      | SUGGESTED GUIDELINES          |             | SUGGESTED GUIDELINES          |             | SUGGESTED GUIDELINES              |             |
|                      |       |                |     |     |      | LB/ACRE                       | APPLICATION | LB/ACRE                       | APPLICATION | LB/ACRE                           | APPLICATION |
|                      |       |                |     |     |      | N                             |             | N                             |             | N                                 |             |
| Phosphorus           | Olsen | 15 ppm         |     |     |      | P <sub>2</sub> O <sub>5</sub> |             | P <sub>2</sub> O <sub>5</sub> |             | P <sub>2</sub> O <sub>5</sub>     |             |
| Potassium            |       | 152 ppm        |     |     |      | K <sub>2</sub> O              |             | K <sub>2</sub> O              |             | K <sub>2</sub> O                  |             |
| Chloride             |       |                |     |     |      | Cl                            |             | Cl                            |             | Cl                                |             |
| Sulfur               | 0-6"  | 42 lb/acre     |     |     |      | S                             |             | S                             |             | S                                 |             |
|                      | 0-24" | 48 lb/acre     |     |     |      | B                             |             | B                             |             | B                                 |             |
| Boron                |       | 1.0 ppm        |     |     |      | Zn                            |             | Zn                            |             | Zn                                |             |
| Zinc                 |       | 1.49 ppm       |     |     |      | Fe                            |             | Fe                            |             | Fe                                |             |
| Iron                 |       | 4.9 ppm        |     |     |      | Mn                            |             | Mn                            |             | Mn                                |             |
| Manganese            |       | 1.5 ppm        |     |     |      | Cu                            |             | Cu                            |             | Cu                                |             |
| Copper               |       | 0.54 ppm       |     |     |      | Mg                            |             | Mg                            |             | Mg                                |             |
| Magnesium            |       | 632 ppm        |     |     |      | Lime                          |             | Lime                          |             | Lime                              |             |
| Calcium              |       | 4537 ppm       |     |     |      | Soil pH                       |             | Cation Exchange Capacity      |             | % Base Saturation (Typical Range) |             |
| Sodium               |       | 17 ppm         |     |     |      | Buffer pH                     |             |                               |             | % Ca                              | % Mg        |
| Org.Matter           |       | 3.3 %          |     |     |      |                               |             |                               |             | % K                               | % Na        |
| Carbonate(CCE)       |       | 3.3 %          |     |     |      |                               |             |                               |             | % H                               |             |
| Sol. Salts           | 0-6"  | 0.38 mmho/cm   |     |     |      | 0-6" 8.3                      |             | 28.4 meq                      | (65-75)     | (15-20)                           | (1-7)       |
|                      | 0-24" | 0.21 mmho/cm   |     |     |      | 6-24" 8.7                     |             |                               | 79.8        | 18.5                              | 1.4         |

General Comments: Soil texture is not estimated on high pH soils.

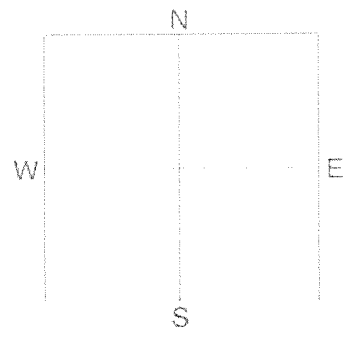




Soil Analysis by Agvise Laboratories  
(http://www.agvise.com)  
Northwood: (701) 587-6010  
Benson: (320) 843-4109

**SOIL TEST REPORT**

FIELD ID **28**  
 SAMPLE ID **3G**  
 FIELD NAME  
 COUNTY **3**  
 TWP **2** RANGE  
 SECTION **25** QTR **NW** ACRES **52**  
 PREV. CROP **Beans-Edible**



SUBMITTED FOR:  
**BLUMENGART COLONY**

SUBMITTED BY: **KR3239**  
**KR CROP CHECK LIMITED**  
**12085 RD 23 W (DICKENS RD**  
**BOX 240**  
**WINKLER, MB R6W 4A5**

REF # **20551967** BOX # **4013**  
 LAB # **NW104850**

Date Sampled **09/18/2023** Date Received **09/19/2023** Date Reported **09/20/2023**

| Nutrient In The Soil |       | Interpretation |     |     |      | 1st Crop Choice      |  |  | 2nd Crop Choice      |  |  | 3rd Crop Choice      |  |  |
|----------------------|-------|----------------|-----|-----|------|----------------------|--|--|----------------------|--|--|----------------------|--|--|
|                      |       | VLow           | Low | Med | High | YIELD GOAL           |  |  | YIELD GOAL           |  |  | YIELD GOAL           |  |  |
| Nitrate              | 0-6"  | 83 lb/acre     |     |     |      | SUGGESTED GUIDELINES |  |  | SUGGESTED GUIDELINES |  |  | SUGGESTED GUIDELINES |  |  |
|                      | 0-24" | 92 lb/acre     |     |     |      | SUGGESTED GUIDELINES |  |  | SUGGESTED GUIDELINES |  |  | SUGGESTED GUIDELINES |  |  |
| Olsen                |       | 24 ppm         |     |     |      | SUGGESTED GUIDELINES |  |  | SUGGESTED GUIDELINES |  |  | SUGGESTED GUIDELINES |  |  |
| Phosphorus           |       |                |     |     |      | SUGGESTED GUIDELINES |  |  | SUGGESTED GUIDELINES |  |  | SUGGESTED GUIDELINES |  |  |
| Potassium            |       | 309 ppm        |     |     |      | SUGGESTED GUIDELINES |  |  | SUGGESTED GUIDELINES |  |  | SUGGESTED GUIDELINES |  |  |
| Chloride             |       |                |     |     |      | SUGGESTED GUIDELINES |  |  | SUGGESTED GUIDELINES |  |  | SUGGESTED GUIDELINES |  |  |
| Sulfur               | 0-6"  | 120 +lb/acre   |     |     |      | SUGGESTED GUIDELINES |  |  | SUGGESTED GUIDELINES |  |  | SUGGESTED GUIDELINES |  |  |
|                      | 0-24" | 480 +lb/acre   |     |     |      | SUGGESTED GUIDELINES |  |  | SUGGESTED GUIDELINES |  |  | SUGGESTED GUIDELINES |  |  |
| Boron                |       | 2.0 ppm        |     |     |      | SUGGESTED GUIDELINES |  |  | SUGGESTED GUIDELINES |  |  | SUGGESTED GUIDELINES |  |  |
| Zinc                 |       | 1.42 ppm       |     |     |      | SUGGESTED GUIDELINES |  |  | SUGGESTED GUIDELINES |  |  | SUGGESTED GUIDELINES |  |  |
| Iron                 |       | 11.6 ppm       |     |     |      | SUGGESTED GUIDELINES |  |  | SUGGESTED GUIDELINES |  |  | SUGGESTED GUIDELINES |  |  |
| Manganese            |       | 2.1 ppm        |     |     |      | SUGGESTED GUIDELINES |  |  | SUGGESTED GUIDELINES |  |  | SUGGESTED GUIDELINES |  |  |
| Copper               |       | 0.95 ppm       |     |     |      | SUGGESTED GUIDELINES |  |  | SUGGESTED GUIDELINES |  |  | SUGGESTED GUIDELINES |  |  |
| Magnesium            |       | 959 ppm        |     |     |      | SUGGESTED GUIDELINES |  |  | SUGGESTED GUIDELINES |  |  | SUGGESTED GUIDELINES |  |  |
| Calcium              |       | 4602 ppm       |     |     |      | SUGGESTED GUIDELINES |  |  | SUGGESTED GUIDELINES |  |  | SUGGESTED GUIDELINES |  |  |
| Sodium               |       | 68 ppm         |     |     |      | SUGGESTED GUIDELINES |  |  | SUGGESTED GUIDELINES |  |  | SUGGESTED GUIDELINES |  |  |
| Org.Matter           |       | 4.2 %          |     |     |      | SUGGESTED GUIDELINES |  |  | SUGGESTED GUIDELINES |  |  | SUGGESTED GUIDELINES |  |  |
| Carbonate(CCE)       |       | 2.7 %          |     |     |      | SUGGESTED GUIDELINES |  |  | SUGGESTED GUIDELINES |  |  | SUGGESTED GUIDELINES |  |  |
| Sol. Salts           | 0-6"  | 0.73 mmho/cm   |     |     |      | SUGGESTED GUIDELINES |  |  | SUGGESTED GUIDELINES |  |  | SUGGESTED GUIDELINES |  |  |
|                      | 0-24" | 0.84 mmho/cm   |     |     |      | SUGGESTED GUIDELINES |  |  | SUGGESTED GUIDELINES |  |  | SUGGESTED GUIDELINES |  |  |

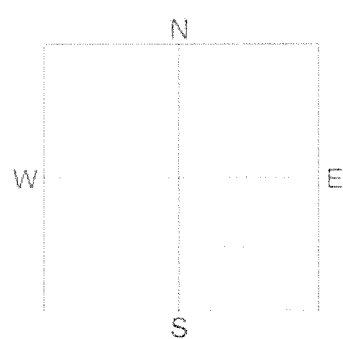
General Comments: Soil texture is not estimated on high pH soils.



Soil Analysis by Agvise Laboratories  
(<http://www.agvise.com>)  
Northwood: (701) 587-6010  
Benson: (320) 843-4109

**SOIL TEST REPORT**

FIELD ID **29**  
 SAMPLE ID **5R**  
 FIELD NAME  
 COUNTY **3**  
 TWP **3** RANGE  
 SECTION **5** QTR **NW** ACRES **80**  
 PREV. CROP **Canola-bu**



SUBMITTED FOR:  
**BLUMENGART COLONY**

SUBMITTED BY: **KR3239**  
**KR CROP CHECK LIMITED**  
**12085 RD 23 W (DICKENS RD**  
**BOX 240**  
**WINKLER, MB** **R6W 4A5**

REF # **20552113** BOX # **143**  
 LAB # **NW128267**

Date Sampled **09/26/2023** Date Received **09/27/2023** Date Reported **09/28/2023**

| Nutrient In The Soil |       | Interpretation |     |     |      | 1st Crop Choice               |             |  | 2nd Crop Choice               |             |  | 3rd Crop Choice                   |             |       |
|----------------------|-------|----------------|-----|-----|------|-------------------------------|-------------|--|-------------------------------|-------------|--|-----------------------------------|-------------|-------|
|                      |       | VLow           | Low | Med | High | YIELD GOAL                    |             |  | YIELD GOAL                    |             |  | YIELD GOAL                        |             |       |
| Nitrate              | 0-6"  | 85 lb/acre     |     |     |      | SUGGESTED GUIDELINES          |             |  | SUGGESTED GUIDELINES          |             |  | SUGGESTED GUIDELINES              |             |       |
|                      | 0-24" | 152 lb/acre    |     |     |      | LB/ACRE                       | APPLICATION |  | LB/ACRE                       | APPLICATION |  | LB/ACRE                           | APPLICATION |       |
|                      |       |                |     |     |      | N                             |             |  | N                             |             |  | N                                 |             |       |
| Phosphorus           | Olsen | 35 ppm         |     |     |      | P <sub>2</sub> O <sub>5</sub> |             |  | P <sub>2</sub> O <sub>5</sub> |             |  | P <sub>2</sub> O <sub>5</sub>     |             |       |
| Potassium            |       | 469 ppm        |     |     |      | K <sub>2</sub> O              |             |  | K <sub>2</sub> O              |             |  | K <sub>2</sub> O                  |             |       |
| Chloride             |       |                |     |     |      | Cl                            |             |  | Cl                            |             |  | Cl                                |             |       |
| Sulfur               | 0-6"  | 62 lb/acre     |     |     |      | S                             |             |  | S                             |             |  | S                                 |             |       |
|                      | 0-24" | 208 lb/acre    |     |     |      | B                             |             |  | B                             |             |  | B                                 |             |       |
| Boron                |       | 1.0 ppm        |     |     |      | Zn                            |             |  | Zn                            |             |  | Zn                                |             |       |
| Zinc                 |       | 2.96 ppm       |     |     |      | Fe                            |             |  | Fe                            |             |  | Fe                                |             |       |
| Iron                 |       | 38.3 ppm       |     |     |      | Mn                            |             |  | Mn                            |             |  | Mn                                |             |       |
| Manganese            |       | 3.6 ppm        |     |     |      | Cu                            |             |  | Cu                            |             |  | Cu                                |             |       |
| Copper               |       | 3.14 ppm       |     |     |      | Mg                            |             |  | Mg                            |             |  | Mg                                |             |       |
| Magnesium            |       | 1105 ppm       |     |     |      | Lime                          |             |  | Lime                          |             |  | Lime                              |             |       |
| Calcium              |       | 3469 ppm       |     |     |      | Soil pH                       |             |  | Cation Exchange Capacity      |             |  | % Base Saturation (Typical Range) |             |       |
| Sodium               |       | 48 ppm         |     |     |      | Buffer pH                     |             |  |                               |             |  | % Ca                              | % Mg        | % K   |
| Org.Matter           |       | 5.5 %          |     |     |      |                               |             |  |                               |             |  | % Na                              | % H         |       |
| Carbonate(CCE)       |       | 0.1 %          |     |     |      |                               |             |  |                               |             |  |                                   |             |       |
| Sol. Salts           | 0-6"  | 0.95 mmho/cm   |     |     |      | 0-6"                          | 6.9         |  | 28.6 meq                      |             |  | (65-75)                           | (15-20)     | (1-7) |
|                      | 0-24" | 0.75 mmho/cm   |     |     |      | 6-24"                         | 7.6         |  |                               |             |  | 60.6                              | 32.2        | 4.2   |
|                      |       |                |     |     |      |                               |             |  |                               |             |  | 0.7                               | 0.7         | 2.4   |

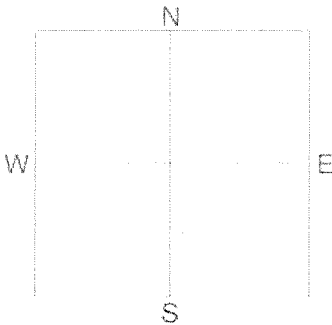
General Comments: Medium-textured (CEC: 11-30 meq)  
 Percent hydrogen is estimated from water pH, CEC corrected for exchangeable acidity.



Soil Analysis by Agvise Laboratories  
(<http://www.agvise.com>)  
Northwood: (701) 587-6010  
Benson: (320) 843-4109

### SOIL TEST REPORT

FIELD ID **30**  
SAMPLE ID  
FIELD NAME  
COUNTY **2**  
TWP **2** RANGE  
SECTION **19** QTR **NW** ACRES **105**  
PREV. CROP **Corn-Grain**



SUBMITTED FOR:  
**BLUMENGART COLONY**

SUBMITTED BY: **KR3239**  
**KR CROP CHECK LIMITED**  
**12085 RD 23 W (DICKENS RD**  
**BOX 240**  
**WINKLER, MB** **R6W 4A5**

REF # **20453950** BOX # **11082**  
LAB # **NW203204**

Date Sampled **10/18/2023**

Date Received **10/19/2023**

Date Reported **10/24/2023**

| Nutrient In The Soil |                         | Interpretation                         |                |     |      | 1st Crop Choice               |                          |          | 2nd Crop Choice               |                                   |              | 3rd Crop Choice               |                  |     |  |
|----------------------|-------------------------|----------------------------------------|----------------|-----|------|-------------------------------|--------------------------|----------|-------------------------------|-----------------------------------|--------------|-------------------------------|------------------|-----|--|
|                      |                         | VLow                                   | Low            | Med | High | YIELD GOAL                    |                          |          | YIELD GOAL                    |                                   |              | YIELD GOAL                    |                  |     |  |
| Nitrate              | 0-6"<br>6-12"<br>12-24" | 14 lb/acre<br>32 lb/acre<br>58 lb/acre |                |     |      | SUGGESTED GUIDELINES          |                          |          | SUGGESTED GUIDELINES          |                                   |              | SUGGESTED GUIDELINES          |                  |     |  |
|                      | 0-24"                   | 58 lb/acre                             |                |     |      | LB/ACRE                       | APPLICATION              |          | LB/ACRE                       | APPLICATION                       |              | LB/ACRE                       | APPLICATION      |     |  |
|                      |                         |                                        |                |     |      | N                             |                          |          | N                             |                                   |              | N                             |                  |     |  |
|                      |                         |                                        |                |     |      | P <sub>2</sub> O <sub>5</sub> |                          |          | P <sub>2</sub> O <sub>5</sub> |                                   |              | P <sub>2</sub> O <sub>5</sub> |                  |     |  |
|                      | Olsen                   | 20 ppm                                 |                |     |      |                               | K <sub>2</sub> O         |          |                               | K <sub>2</sub> O                  |              |                               | K <sub>2</sub> O |     |  |
| Phosphorus           |                         |                                        |                |     |      |                               | Cl                       |          |                               | Cl                                |              |                               | Cl               |     |  |
| Potassium            |                         | 127 ppm                                |                |     |      |                               | S                        |          |                               | S                                 |              |                               | S                |     |  |
| Chloride             | 0-6"<br>6-12"           | 6 lb/acre<br>10 lb/acre                | **             |     |      | B                             |                          |          | B                             |                                   |              | B                             |                  |     |  |
|                      | 0-6"<br>6-12"           | 28 lb/acre<br>44 lb/acre               |                |     |      |                               | Zn                       |          |                               | Zn                                |              |                               | Zn               |     |  |
| Sulfur               |                         |                                        |                |     |      |                               | Fe                       |          |                               | Fe                                |              |                               | Fe               |     |  |
| Boron                |                         | 1.4 ppm                                |                |     |      |                               | Mn                       |          |                               | Mn                                |              |                               | Mn               |     |  |
| Zinc                 |                         | 0.91 ppm                               |                |     |      |                               | Cu                       |          |                               | Cu                                |              |                               | Cu               |     |  |
| Iron                 |                         | 10.3 ppm                               |                |     |      |                               | Mg                       |          |                               | Mg                                |              |                               | Mg               |     |  |
| Manganese            |                         | 2.8 ppm                                |                |     |      |                               | Lime                     |          |                               | Lime                              |              |                               | Lime             |     |  |
| Copper               |                         | 0.48 ppm                               |                |     |      |                               | Cation Exchange Capacity |          |                               | % Base Saturation (Typical Range) |              |                               |                  |     |  |
| Magnesium            |                         | 617 ppm                                |                |     |      |                               |                          |          |                               | % Ca                              | % Mg         | % K                           | % Na             | % H |  |
| Calcium              |                         | 3786 ppm                               |                |     |      |                               | 0-6" 8.1<br>6-24" 8.2    | 24.5 meq | (65-75)<br>77.3               | (15-20)<br>21.0                   | (1-7)<br>1.3 | (0-5)<br>0.4                  | (0-5)<br>0.0     |     |  |
| Sodium               |                         | 22 ppm                                 | ***            |     |      |                               |                          |          |                               |                                   |              |                               |                  |     |  |
| Org.Matter           |                         | 3.9 %                                  |                |     |      |                               |                          |          |                               |                                   |              |                               |                  |     |  |
| Carbonate(CCE)       |                         | 1.2 %                                  | *****          |     |      |                               |                          |          |                               |                                   |              |                               |                  |     |  |
| Sol. Salts           | 0-6"<br>6-12"           | 0.35 mmho/cm<br>0.44 mmho/cm           | *****<br>***** |     |      |                               |                          |          |                               |                                   |              |                               |                  |     |  |

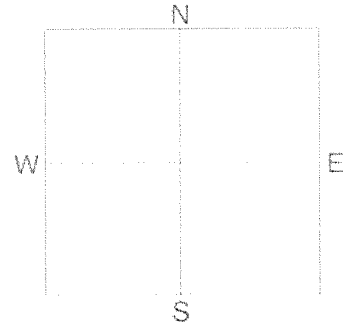
General Comments: Soil texture is not estimated on high pH soils.



Soil Analysis by Agvise Laboratories  
(http://www.agvise.com)  
Northwood: (701) 587-6010  
Benson: (320) 843-4109

## SOIL TEST REPORT

FIELD ID **31**  
SAMPLE ID  
FIELD NAME  
COUNTY **2**  
TWP **2** RANGE  
SECTION **30** QTR **SW** ACRES **80**  
PREV. CROP **Beans-Edible**



SUBMITTED FOR:  
**BLUMENGART COLONY**

SUBMITTED BY: **KR3239**  
**KR CROP CHECK LIMITED**  
**12085 RD 23 W (DICKENS RD**  
**BOX 240**  
**WINKLER, MB** **R6W 4A5**

REF # **19502751** BOX # **3322**  
LAB # **NW95366**

Date Sampled **09/14/2023**

Date Received **09/15/2023**

Date Reported **09/16/2023**

| Nutrient In The Soil |       | Interpretation |     |     |      | 1st Crop Choice               |             | 2nd Crop Choice               |             | 3rd Crop Choice                   |             |
|----------------------|-------|----------------|-----|-----|------|-------------------------------|-------------|-------------------------------|-------------|-----------------------------------|-------------|
|                      |       | VLow           | Low | Med | High | YIELD GOAL                    |             | YIELD GOAL                    |             | YIELD GOAL                        |             |
| Nitrate              | 0-6"  | 36 lb/acre     |     |     |      | SUGGESTED GUIDELINES          |             | SUGGESTED GUIDELINES          |             | SUGGESTED GUIDELINES              |             |
|                      | 0-24" | 40 lb/acre     |     |     |      | SUGGESTED GUIDELINES          |             | SUGGESTED GUIDELINES          |             | SUGGESTED GUIDELINES              |             |
|                      |       |                |     |     |      | LB/ACRE                       | APPLICATION | LB/ACRE                       | APPLICATION | LB/ACRE                           | APPLICATION |
|                      |       |                |     |     |      | N                             |             | N                             |             | N                                 |             |
| Phosphorus           | Olsen | 14 ppm         |     |     |      | P <sub>2</sub> O <sub>5</sub> |             | P <sub>2</sub> O <sub>5</sub> |             | P <sub>2</sub> O <sub>5</sub>     |             |
| Potassium            |       | 241 ppm        |     |     |      | K <sub>2</sub> O              |             | K <sub>2</sub> O              |             | K <sub>2</sub> O                  |             |
| Chloride             | 0-24" | 64 lb/acre     |     |     |      | Cl                            |             | Cl                            |             | Cl                                |             |
| Sulfur               | 0-6"  | 22 lb/acre     |     |     |      | S                             |             | S                             |             | S                                 |             |
|                      | 0-24" | 328 lb/acre    |     |     |      | B                             |             | B                             |             | B                                 |             |
| Boron                |       | 1.5 ppm        |     |     |      | Zn                            |             | Zn                            |             | Zn                                |             |
| Zinc                 |       | 0.69 ppm       |     |     |      | Fe                            |             | Fe                            |             | Fe                                |             |
| Iron                 |       | 12.7 ppm       |     |     |      | Mn                            |             | Mn                            |             | Mn                                |             |
| Manganese            |       | 1.8 ppm        |     |     |      | Cu                            |             | Cu                            |             | Cu                                |             |
| Copper               |       | 0.82 ppm       |     |     |      | Mg                            |             | Mg                            |             | Mg                                |             |
| Magnesium            |       | 971 ppm        |     |     |      | Lime                          |             | Lime                          |             | Lime                              |             |
| Calcium              |       | 4822 ppm       |     |     |      |                               |             |                               |             |                                   |             |
| Sodium               |       | 29 ppm         |     |     |      |                               |             |                               |             |                                   |             |
| Org.Matter           |       | 4.2 %          |     |     |      |                               |             |                               |             |                                   |             |
| Carbonate(CCE)       |       | 1.3 %          |     |     |      |                               |             |                               |             |                                   |             |
| Sol. Salts           | 0-6"  | 0.46 mmho/cm   |     |     |      | Soil pH                       | Buffer pH   | Cation Exchange Capacity      |             | % Base Saturation (Typical Range) |             |
|                      | 0-24" | 0.52 mmho/cm   |     |     |      |                               |             |                               |             | % Ca                              | % Mg        |
|                      |       |                |     |     |      | 0-6" 8.0                      |             | 32.9 meq                      |             | (65-75)                           | (15-20)     |
|                      |       |                |     |     |      | 6-24" 8.4                     |             |                               |             | (1-7)                             | (0-5)       |
|                      |       |                |     |     |      |                               |             |                               |             | 0.4                               | 0.0         |

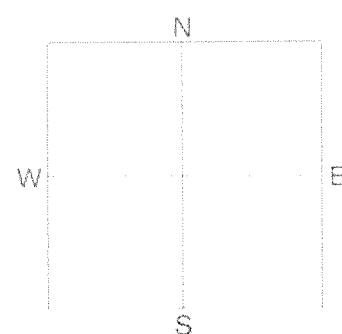
General Comments: Soil texture is not estimated on high pH soils.



Soil Analysis by Agvise Laboratories  
(<http://www.agvise.com>)  
Northwood: (701) 587-6010  
Benson: (320) 843-4109

**SOIL TEST REPORT**

FIELD ID **32**  
 SAMPLE ID **2 G**  
 FIELD NAME  
 COUNTY **3**  
 TWP **2** RANGE  
 SECTION **25** QTR **SW** ACRES **76**  
 PREV. CROP **Soybeans**



SUBMITTED FOR:  
**BLUMENGART COLONY**

SUBMITTED BY: **KR3239**  
**KR CROP CHECK LIMITED**  
**12085 RD 23 W (DICKENS RD**  
**BOX 240**  
**WINKLER, MB R6W 4A5**

REF # **20895007** BOX # **11169**  
 LAB # **NW203241**

Date Sampled **10/18/2023** Date Received **10/19/2023** Date Reported **10/24/2023**

| Nutrient In The Soil |                                  | Interpretation                                       |       |     |      | 1st Crop Choice      |                       |           | 2nd Crop Choice          |                                   |                 | 3rd Crop Choice      |              |              |  |
|----------------------|----------------------------------|------------------------------------------------------|-------|-----|------|----------------------|-----------------------|-----------|--------------------------|-----------------------------------|-----------------|----------------------|--------------|--------------|--|
|                      |                                  | VLow                                                 | Low   | Med | High |                      |                       |           |                          |                                   |                 |                      |              |              |  |
| Nitrate              | 0-6"<br>6-12"<br>12-24"<br>0-24" | 10 lb/acre<br>13 lb/acre<br>34 lb/acre<br>57 lb/acre |       |     |      | YIELD GOAL           |                       |           | YIELD GOAL               |                                   |                 | YIELD GOAL           |              |              |  |
|                      |                                  |                                                      |       |     |      | SUGGESTED GUIDELINES |                       |           | SUGGESTED GUIDELINES     |                                   |                 | SUGGESTED GUIDELINES |              |              |  |
|                      |                                  |                                                      |       |     |      | LB/ACRE              | APPLICATION           |           | LB/ACRE                  | APPLICATION                       |                 | LB/ACRE              | APPLICATION  |              |  |
|                      |                                  |                                                      |       |     |      | N                    |                       |           | N                        |                                   |                 | N                    |              |              |  |
|                      | Olsen                            | 12 ppm                                               | ***** |     |      |                      | P2O5                  |           |                          | P2O5                              |                 |                      | P2O5         |              |  |
|                      | Phosphorus                       |                                                      | ***** |     |      |                      | K2O                   |           |                          | K2O                               |                 |                      | K2O          |              |  |
|                      | Potassium                        | 217 ppm                                              | ***** |     |      |                      | Cl                    |           |                          | Cl                                |                 |                      | Cl           |              |  |
|                      | Chloride                         |                                                      | ***** |     |      |                      | S                     |           |                          | S                                 |                 |                      | S            |              |  |
|                      | 0-6"<br>6-12"                    | 120 +lb/acre<br>54 lb/acre                           | ***** |     |      |                      | B                     |           |                          | B                                 |                 |                      | B            |              |  |
|                      | Sulfur                           |                                                      | ***** |     |      |                      | Zn                    |           |                          | Zn                                |                 |                      | Zn           |              |  |
|                      | Boron                            | 1.5 ppm                                              | ***** |     |      |                      | Fe                    |           |                          | Fe                                |                 |                      | Fe           |              |  |
|                      | Zinc                             | 0.87 ppm                                             | ***** |     |      |                      | Mn                    |           |                          | Mn                                |                 |                      | Mn           |              |  |
|                      | Iron                             | 10.1 ppm                                             | ***** |     |      |                      | Cu                    |           |                          | Cu                                |                 |                      | Cu           |              |  |
|                      | Manganese                        | 2.5 ppm                                              | ***** |     |      |                      | Mg                    |           |                          | Mg                                |                 |                      | Mg           |              |  |
|                      | Copper                           | 0.57 ppm                                             | ***** |     |      |                      | Lime                  |           |                          | Lime                              |                 |                      | Lime         |              |  |
|                      | Magnesium                        | 709 ppm                                              | ***** |     |      |                      |                       |           |                          |                                   |                 |                      |              |              |  |
|                      | Calcium                          | 4183 ppm                                             | ***** |     |      |                      |                       |           |                          |                                   |                 |                      |              |              |  |
|                      | Sodium                           | 68 ppm                                               | ***** |     |      |                      |                       |           |                          |                                   |                 |                      |              |              |  |
|                      | Org.Matter                       | 3.3 %                                                | ***** |     |      |                      |                       |           |                          |                                   |                 |                      |              |              |  |
|                      | Carbonate(CCE)                   | 1.4 %                                                | ***** |     |      |                      |                       |           |                          |                                   |                 |                      |              |              |  |
| Sol. Salts           | 0-6"<br>6-12"                    | 0.55 mmho/cm<br>0.4 mmho/cm                          | ***** |     |      |                      | Soil pH               | Buffer pH | Cation Exchange Capacity | % Base Saturation (Typical Range) |                 |                      |              |              |  |
|                      |                                  |                                                      | ***** |     |      |                      | 0-6" 8.0<br>6-24" 8.0 |           | 27.7 meq                 | (65-75)<br>75.6                   | (15-20)<br>21.3 | (1-7)<br>2.0         | (0-5)<br>1.1 | (0-5)<br>0.0 |  |

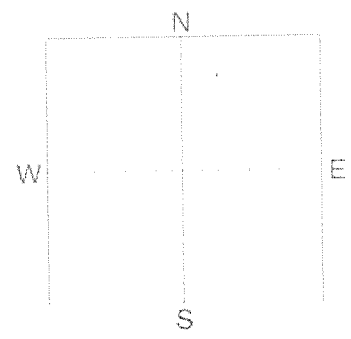
General Comments: Soil texture is not estimated on high pH soils.



Soil Analysis by Agvise Laboratories  
(<http://www.agvise.com>)  
Northwood: (701) 587-6010  
Benson: (320) 843-4109

### SOIL TEST REPORT

FIELD ID **110**  
 SAMPLE ID **1G**  
 FIELD NAME  
 COUNTY **3**  
 TWP **3** RANGE  
 SECTION **26** QTR **NE** ACRES **161**  
 PREV. CROP **Corn-Grain**



SUBMITTED FOR:

**BLUMENGART COLONY**

SUBMITTED BY: **KR3239**

**KR CROP CHECK LIMITED**

**12085 RD 23 W (DICKENS RD**

**BOX 240**

**WINKLER, MB** **R6W 4A5**

REF # **20783721** BOX # **3022**

LAB # **NW185295**

Date Sampled **10/13/2023** Date Received **10/14/2023** Date Reported **10/17/2023**

| Nutrient In The Soil |       | Interpretation |     |     |      | 1st Crop Choice               |           |                          | 2nd Crop Choice                   |              |             | 3rd Crop Choice               |           |             |  |  |
|----------------------|-------|----------------|-----|-----|------|-------------------------------|-----------|--------------------------|-----------------------------------|--------------|-------------|-------------------------------|-----------|-------------|--|--|
|                      |       | VLow           | Low | Med | High | YIELD GOAL                    |           |                          | YIELD GOAL                        |              |             | YIELD GOAL                    |           |             |  |  |
| Nitrate              | 0-6"  | 60 lb/acre     |     |     |      | SUGGESTED GUIDELINES          |           |                          | SUGGESTED GUIDELINES              |              |             | SUGGESTED GUIDELINES          |           |             |  |  |
|                      | 0-24" | 56 lb/acre     |     |     |      | LB/ACRE                       |           | APPLICATION              | LB/ACRE                           |              | APPLICATION | LB/ACRE                       |           | APPLICATION |  |  |
|                      | Olsen | 30 ppm         |     |     |      | N                             |           |                          | N                                 |              |             | N                             |           |             |  |  |
| Phosphorus           |       |                |     |     |      | P <sub>2</sub> O <sub>5</sub> |           |                          | P <sub>2</sub> O <sub>5</sub>     |              |             | P <sub>2</sub> O <sub>5</sub> |           |             |  |  |
| Potassium            |       | 288 ppm        |     |     |      | K <sub>2</sub> O              |           |                          | K <sub>2</sub> O                  |              |             | K <sub>2</sub> O              |           |             |  |  |
| Chloride             |       |                |     |     |      | Cl                            |           |                          | Cl                                |              |             | Cl                            |           |             |  |  |
| Sulfur               | 0-6"  | 28 lb/acre     |     |     |      | S                             |           |                          | S                                 |              |             | S                             |           |             |  |  |
|                      | 0-24" | 120 lb/acre    |     |     |      | B                             |           |                          | B                                 |              |             | B                             |           |             |  |  |
| Boron                |       | 1.1 ppm        |     |     |      | Zn                            |           |                          | Zn                                |              |             | Zn                            |           |             |  |  |
| Zinc                 |       | 1.96 ppm       |     |     |      | Fe                            |           |                          | Fe                                |              |             | Fe                            |           |             |  |  |
| Iron                 |       | 19.6 ppm       |     |     |      | Mn                            |           |                          | Mn                                |              |             | Mn                            |           |             |  |  |
| Manganese            |       | 2.4 ppm        |     |     |      | Cu                            |           |                          | Cu                                |              |             | Cu                            |           |             |  |  |
| Copper               |       | 1.06 ppm       |     |     |      | Mg                            |           |                          | Mg                                |              |             | Mg                            |           |             |  |  |
| Magnesium            |       | 827 ppm        |     |     |      | Lime                          |           |                          | Lime                              |              |             | Lime                          |           |             |  |  |
| Calcium              |       | 3791 ppm       |     |     |      |                               |           |                          |                                   |              |             |                               |           |             |  |  |
| Sodium               |       | 20 ppm         |     |     |      |                               |           |                          |                                   |              |             |                               |           |             |  |  |
| Org.Matter           |       | 4.5 %          |     |     |      |                               |           |                          |                                   |              |             |                               |           |             |  |  |
| Carbonate(CCE)       |       | 0.7 %          |     |     |      |                               |           |                          |                                   |              |             |                               |           |             |  |  |
| Sol. Salts           | 0-6"  | 0.52 mmho/cm   |     |     |      | Soil pH                       | Buffer pH | Cation Exchange Capacity | % Base Saturation (Typical Range) |              |             |                               |           |             |  |  |
|                      | 0-24" | 0.44 mmho/cm   |     |     |      | 0-6" 7.6                      |           | 26.7 meq                 | % Ca                              | % Mg         | % K         | % Na                          | % H       |             |  |  |
|                      |       |                |     |     |      | 6-24" 8.1                     |           |                          | (65-75) 71.1                      | (15-20) 25.8 | (1-7) 2.8   | (0-5) 0.3                     | (0-5) 0.0 |             |  |  |

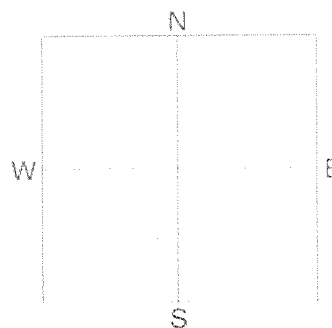
General Comments: Medium-textured (CEC: 11-30 meq)



Soil Analysis by Agvise Laboratories  
(http://www.agvise.com)  
Northwood: (701) 587-6010  
Benson: (320) 843-4109

## SOIL TEST REPORT

FIELD ID **111**  
SAMPLE ID  
FIELD NAME  
COUNTY **3**  
TWP **3** RANGE  
SECTION **26** QTR **NW** ACRES **150**  
PREV. CROP **Canola-bu**



SUBMITTED FOR:  
**BLUMENGART COLONY**

SUBMITTED BY: **KR3239**  
**KR CROP CHECK LIMITED**  
**12085 RD 23 W (DICKENS RD**  
**BOX 240**  
**WINKLER, MB** **R6W 4A5**

REF # **20018120** BOX # **2016**  
LAB # **NW79854**

Date Sampled **09/08/2023**

Date Received **09/11/2023**

Date Reported **09/12/2023**

| Nutrient In The Soil |                | Interpretation |            |     |      | 1st Crop Choice               |             | 2nd Crop Choice               |             | 3rd Crop Choice                   |             |
|----------------------|----------------|----------------|------------|-----|------|-------------------------------|-------------|-------------------------------|-------------|-----------------------------------|-------------|
|                      |                | VLow           | Low        | Med | High |                               |             |                               |             |                                   |             |
|                      |                |                |            |     |      | YIELD GOAL                    |             | YIELD GOAL                    |             | YIELD GOAL                        |             |
|                      |                |                |            |     |      | SUGGESTED GUIDELINES          |             | SUGGESTED GUIDELINES          |             | SUGGESTED GUIDELINES              |             |
|                      |                |                |            |     |      | LB/ACRE                       | APPLICATION | LB/ACRE                       | APPLICATION | LB/ACRE                           | APPLICATION |
| Nitrate              | 0-6"           | 28 lb/acre     |            |     |      | N                             |             | N                             |             | N                                 |             |
|                      | 0-24"          | 24 lb/acre     |            |     |      | P <sub>2</sub> O <sub>5</sub> |             | P <sub>2</sub> O <sub>5</sub> |             | P <sub>2</sub> O <sub>5</sub>     |             |
|                      |                |                |            |     |      | K <sub>2</sub> O              |             | K <sub>2</sub> O              |             | K <sub>2</sub> O                  |             |
|                      |                |                |            |     |      | Cl                            |             | Cl                            |             | Cl                                |             |
| Phosphorus           | Olsen          | 20 ppm         |            |     |      | S                             |             | S                             |             | S                                 |             |
|                      | Potassium      | 514 ppm        |            |     |      | B                             |             | B                             |             | B                                 |             |
|                      | Chloride       | 0-24"          | 76 lb/acre |     |      | Zn                            |             | Zn                            |             | Zn                                |             |
|                      |                |                |            |     |      | Fe                            |             | Fe                            |             | Fe                                |             |
| Sulfur               | 0-6"           | 56 lb/acre     |            |     |      | Mn                            |             | Mn                            |             | Mn                                |             |
|                      | 0-24"          | 120 lb/acre    |            |     |      | Cu                            |             | Cu                            |             | Cu                                |             |
|                      | Boron          | 1.1 ppm        |            |     |      | Mg                            |             | Mg                            |             | Mg                                |             |
|                      | Zinc           | 1.91 ppm       |            |     |      | Lime                          |             | Lime                          |             | Lime                              |             |
| Iron                 |                | 29.9 ppm       |            |     |      | Soil pH                       | Buffer pH   | Cation Exchange Capacity      |             | % Base Saturation (Typical Range) |             |
|                      | Manganese      | 2.5 ppm        |            |     |      |                               |             |                               |             | % Ca                              | % Mg        |
|                      | Copper         | 1.72 ppm       |            |     |      |                               |             |                               |             | % K                               | % Na        |
|                      | Magnesium      | 1136 ppm       |            |     |      |                               |             |                               |             | % H                               |             |
| Calcium              |                | 4141 ppm       |            |     |      | 0-6" 7.3                      |             | 31.7 meq                      | (65-75)     | (15-20)                           | (1-7)       |
|                      | Sodium         | 48 ppm         |            |     |      | 6-24" 8.1                     |             |                               | 65.3        | 29.9                              | 4.2         |
|                      | Org.Matter     | 5.4 %          |            |     |      |                               |             |                               |             |                                   |             |
|                      | Carbonate(CCE) | 0.2 %          |            |     |      |                               |             |                               |             |                                   |             |
| Sol. Salts           | 0-6"           | 0.75 mmho/cm   |            |     |      |                               |             |                               |             |                                   |             |
|                      | 0-24"          | 0.65 mmho/cm   |            |     |      |                               |             |                               |             |                                   |             |
|                      |                |                |            |     |      |                               |             |                               |             |                                   |             |
|                      |                |                |            |     |      |                               |             |                               |             |                                   |             |

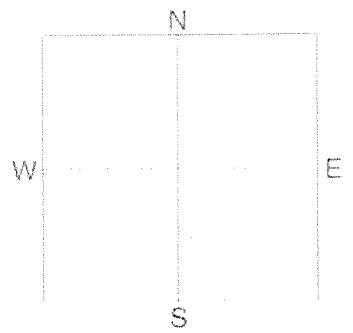
General Comments: Fine-textured (CEC: 31+ meq)  
Percent hydrogen is estimated from water pH, CEC corrected for exchangeable acidity.



Soil Analysis by Agvise Laboratories  
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Benson: (320) 843-4109

**SOIL TEST REPORT**

FIELD ID **112**  
 SAMPLE ID  
 FIELD NAME  
 COUNTY **3**  
 TWP **3** RANGE  
 SECTION **35** QTR **NE** ACRES **80**  
 PREV. CROP **Canola-bu**



SUBMITTED FOR:  
**BLUMENGART COLONY**

SUBMITTED BY: **KR3239**  
**KR CROP CHECK LIMITED**  
**12085 RD 23 W (DICKENS RD**  
**BOX 240**  
**WINKLER, MB** **R6W 4A5**

REF # **19502789** BOX # **3272**  
 LAB # **NW91183**

Date Sampled **09/12/2023** Date Received **09/14/2023** Date Reported **09/16/2023**

| Nutrient In The Soil |                    | Interpretation |     |     |      | 1st Crop Choice                            |             |          | 2nd Crop Choice                   |              |             | 3rd Crop Choice               |           |  |
|----------------------|--------------------|----------------|-----|-----|------|--------------------------------------------|-------------|----------|-----------------------------------|--------------|-------------|-------------------------------|-----------|--|
|                      |                    | VLow           | Low | Med | High | YIELD GOAL                                 |             |          | YIELD GOAL                        |              |             | YIELD GOAL                    |           |  |
| Nitrate              | 0-6" 79 lb/acre    | *****          |     |     |      | SUGGESTED GUIDELINES                       |             |          | SUGGESTED GUIDELINES              |              |             | SUGGESTED GUIDELINES          |           |  |
|                      | 0-24" 36 lb/acre   |                |     |     |      | LB/ACRE                                    | APPLICATION | LB/ACRE  | APPLICATION                       | LB/ACRE      | APPLICATION |                               |           |  |
|                      |                    |                |     |     |      | N                                          |             |          | N                                 |              |             | N                             |           |  |
| Phosphorus           | Olsen 26 ppm       |                |     |     |      | P <sub>2</sub> O <sub>5</sub>              |             |          | P <sub>2</sub> O <sub>5</sub>     |              |             | P <sub>2</sub> O <sub>5</sub> |           |  |
| Potassium            | 545 ppm            |                |     |     |      | K <sub>2</sub> O                           |             |          | K <sub>2</sub> O                  |              |             | K <sub>2</sub> O              |           |  |
| Chloride             | 0-24" 76 lb/acre   |                |     |     |      | Cl                                         |             |          | Cl                                |              |             | Cl                            |           |  |
| Sulfur               | 0-6" 66 lb/acre    | *****          |     |     |      | S                                          |             |          | S                                 |              |             | S                             |           |  |
|                      | 0-24" 184 lb/acre  |                |     |     |      | B                                          |             |          | B                                 |              |             | B                             |           |  |
| Boron                | 1.1 ppm            |                |     |     |      | Zn                                         |             |          | Zn                                |              |             | Zn                            |           |  |
| Zinc                 | 2.51 ppm           |                |     |     |      | Fe                                         |             |          | Fe                                |              |             | Fe                            |           |  |
| Iron                 | 23.2 ppm           |                |     |     |      | Mn                                         |             |          | Mn                                |              |             | Mn                            |           |  |
| Manganese            | 5.2 ppm            |                |     |     |      | Cu                                         |             |          | Cu                                |              |             | Cu                            |           |  |
| Copper               | 1.44 ppm           |                |     |     |      | Mg                                         |             |          | Mg                                |              |             | Mg                            |           |  |
| Magnesium            | 852 ppm            |                |     |     |      | Lime                                       |             |          | Lime                              |              |             | Lime                          |           |  |
| Calcium              | 3975 ppm           |                |     |     |      | Soil pH Buffer pH Cation Exchange Capacity |             |          | % Base Saturation (Typical Range) |              |             |                               |           |  |
| Sodium               | 43 ppm             |                |     |     |      |                                            |             |          | % Ca                              | % Mg         | % K         | % Na                          | % H       |  |
| Org.Matter           | 5.5 %              |                |     |     |      | 0-6" 7.1                                   |             | 28.8 meq | (65-75) 69.0                      | (15-20) 24.6 | (1-7) 4.8   | (0-5) 0.6                     | (0-5) 0.9 |  |
| Carbonate(CCE)       | 0.4 %              | **             |     |     |      | 6-24" 7.8                                  |             |          |                                   |              |             |                               |           |  |
| Sol. Salts           | 0-6" 0.87 mmho/cm  | *****          |     |     |      |                                            |             |          |                                   |              |             |                               |           |  |
|                      | 0-24" 0.53 mmho/cm |                |     |     |      |                                            |             |          |                                   |              |             |                               |           |  |

General Comments: Medium-textured (CEC: 11-30 meq)  
 Percent hydrogen is estimated from water pH, CEC corrected for exchangeable acidity.

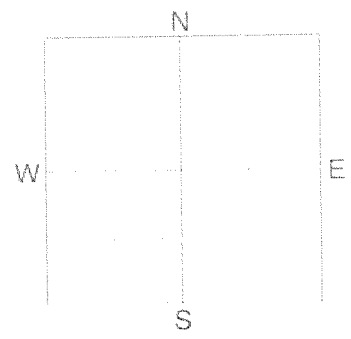




Soil Analysis by Agvise Laboratories  
(<http://www.agvise.com>)  
Northwood: (701) 587-6010  
Benson: (320) 843-4109

### SOIL TEST REPORT

FIELD ID **114**  
SAMPLE ID  
FIELD NAME  
COUNTY **3**  
TWP **3** RANGE  
SECTION **36** QTR **W** ACRES **320**  
PREV. CROP **Canola-bu**



SUBMITTED FOR:  
**BLUMENGART COLONY**

SUBMITTED BY: **KR3239**  
**KR CROP CHECK LIMITED**  
**12085 RD 23 W (DICKENS RD**  
**BOX 240**  
**WINKLER, MB** **R6W 4A5**

REF # **19502668** BOX # **1455**  
LAB # **NW73093**

Date Sampled **09/06/2023** Date Received **09/07/2023** Date Reported **09/08/2023**

| Nutrient In The Soil |                    | Interpretation |     |     |      | 1st Crop Choice               |             | 2nd Crop Choice               |                                   | 3rd Crop Choice               |             |           |  |
|----------------------|--------------------|----------------|-----|-----|------|-------------------------------|-------------|-------------------------------|-----------------------------------|-------------------------------|-------------|-----------|--|
|                      |                    | VLow           | Low | Med | High | YIELD GOAL                    |             | YIELD GOAL                    |                                   | YIELD GOAL                    |             |           |  |
| Nitrate              | 0-6" 28 lb/acre    | *****          |     |     |      | SUGGESTED GUIDELINES          |             | SUGGESTED GUIDELINES          |                                   | SUGGESTED GUIDELINES          |             |           |  |
|                      |                    |                |     |     |      |                               |             |                               |                                   |                               |             |           |  |
|                      | 0-24" 24 lb/acre   |                |     |     |      | LB/ACRE                       | APPLICATION | LB/ACRE                       | APPLICATION                       | LB/ACRE                       | APPLICATION |           |  |
|                      |                    |                |     |     |      | N                             |             | N                             |                                   | N                             |             |           |  |
| Phosphorus           | Olsen 20 ppm       |                |     |     |      | P <sub>2</sub> O <sub>5</sub> |             | P <sub>2</sub> O <sub>5</sub> |                                   | P <sub>2</sub> O <sub>5</sub> |             |           |  |
| Potassium            | 457 ppm            |                |     |     |      | K <sub>2</sub> O              |             | K <sub>2</sub> O              |                                   | K <sub>2</sub> O              |             |           |  |
| Chloride             | 0-24" 328 lb/acre  |                |     |     |      | Cl                            |             | Cl                            |                                   | Cl                            |             |           |  |
| Sulfur               | 0-6" 66 lb/acre    | *****          |     |     |      | S                             |             | S                             |                                   | S                             |             |           |  |
|                      | 0-24" 480 +lb/acre |                |     |     |      | B                             |             | B                             |                                   | B                             |             |           |  |
| Boron                | 1.2 ppm            |                |     |     |      | Zn                            |             | Zn                            |                                   | Zn                            |             |           |  |
| Zinc                 | 1.84 ppm           |                |     |     |      | Fe                            |             | Fe                            |                                   | Fe                            |             |           |  |
| Iron                 | 19.5 ppm           |                |     |     |      | Mn                            |             | Mn                            |                                   | Mn                            |             |           |  |
| Manganese            | 2.3 ppm            |                |     |     |      | Cu                            |             | Cu                            |                                   | Cu                            |             |           |  |
| Copper               | 1.46 ppm           |                |     |     |      | Mg                            |             | Mg                            |                                   | Mg                            |             |           |  |
| Magnesium            | 1058 ppm           |                |     |     |      | Lime                          |             | Lime                          |                                   | Lime                          |             |           |  |
| Calcium              | 4427 ppm           |                |     |     |      |                               |             |                               |                                   |                               |             |           |  |
| Sodium               | 63 ppm             |                |     |     |      |                               |             |                               |                                   |                               |             |           |  |
| Org.Matter           | 5.9 %              |                |     |     |      |                               |             |                               |                                   |                               |             |           |  |
| Carbonate(CCE)       | 0.9 %              |                |     |     |      |                               |             |                               |                                   |                               |             |           |  |
| Sol. Salts           | 0-6" 0.79 mmho/cm  | *****          |     |     |      | Soil pH                       | Buffer pH   | Cation Exchange Capacity      | % Base Saturation (Typical Range) |                               |             |           |  |
|                      | 0-6" 7.6           |                |     |     |      |                               | 32.4 meq    | (65-75) 68.3                  | (15-20) 27.2                      | (1-7) 3.6                     | (0-5) 0.8   | (0-5) 0.0 |  |
|                      | 0-24" 1.1 mmho/cm  |                |     |     |      | 6-24" 8.1                     |             |                               |                                   |                               |             |           |  |

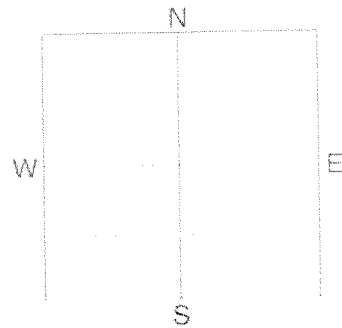
General Comments: Fine-textured (CEC: 31+ meq)



Soil Analysis by Agvise Laboratories  
(http://www.agvise.com)  
Northwood: (701) 587-6010  
Benson: (320) 843-4109

**SOIL TEST REPORT**

FIELD ID **116**  
 SAMPLE ID **5R**  
 FIELD NAME  
 COUNTY **3**  
 TWP **3** RANGE  
 SECTION **35** QTR.**SW** ACRES **153**  
 PREV. CROP **Wheat-Spring**



SUBMITTED FOR:  
**BLUMENGART COLONY**

SUBMITTED BY: **KR3239**  
**KR CROP CHECK LIMITED**  
**12085 RD 23 W (DICKENS RD**  
**BOX 240**  
**WINKLER, MB** **R6W 4A5**

REF # **20551943** BOX # **857**  
 LAB # **NW64644**

Date Sampled **08/30/2023** Date Received **08/31/2023** Date Reported **09/01/2023**

| Nutrient In The Soil |                    | Interpretation |     |     |      | 1st Crop Choice               |             | 2nd Crop Choice               |              | 3rd Crop Choice                   |             |
|----------------------|--------------------|----------------|-----|-----|------|-------------------------------|-------------|-------------------------------|--------------|-----------------------------------|-------------|
|                      |                    | VLow           | Low | Med | High | YIELD GOAL                    |             | YIELD GOAL                    |              | YIELD GOAL                        |             |
| Nitrate              | 0-6" 81 lb/acre    | *****          |     |     |      | SUGGESTED GUIDELINES          |             | SUGGESTED GUIDELINES          |              | SUGGESTED GUIDELINES              |             |
|                      | 0-24" 36 lb/acre   |                |     |     |      | LB/ACRE                       | APPLICATION | LB/ACRE                       | APPLICATION  | LB/ACRE                           | APPLICATION |
|                      |                    |                |     |     |      | N                             |             | N                             |              | N                                 |             |
| Phosphorus           | Olsen 40 ppm       | *****          |     |     |      | P <sub>2</sub> O <sub>5</sub> |             | P <sub>2</sub> O <sub>5</sub> |              | P <sub>2</sub> O <sub>5</sub>     |             |
| Potassium            | 479 ppm            | *****          |     |     |      | K <sub>2</sub> O              |             | K <sub>2</sub> O              |              | K <sub>2</sub> O                  |             |
| Chloride             |                    |                |     |     |      | Cl                            |             | Cl                            |              | Cl                                |             |
| Sulfur               | 0-6" 38 lb/acre    | *****          |     |     |      | S                             |             | S                             |              | S                                 |             |
|                      | 0-24" 96 lb/acre   | *****          |     |     |      | B                             |             | B                             |              | B                                 |             |
| Boron                | 1.3 ppm            | *****          |     |     |      | Zn                            |             | Zn                            |              | Zn                                |             |
| Zinc                 | 2.58 ppm           | *****          |     |     |      | Fe                            |             | Fe                            |              | Fe                                |             |
| Iron                 | 23.6 ppm           | *****          |     |     |      | Mn                            |             | Mn                            |              | Mn                                |             |
| Manganese            | 1.6 ppm            | *****          |     |     |      | Cu                            |             | Cu                            |              | Cu                                |             |
| Copper               | 2.63 ppm           | *****          |     |     |      | Mg                            |             | Mg                            |              | Mg                                |             |
| Magnesium            | 1000 ppm           | *****          |     |     |      | Lime                          |             | Lime                          |              | Lime                              |             |
| Calcium              | 4700 ppm           | *****          |     |     |      |                               |             |                               |              |                                   |             |
| Sodium               | 43 ppm             | *****          |     |     |      |                               |             |                               |              |                                   |             |
| Org.Matter           | 5.9 %              | *****          |     |     |      |                               |             |                               |              |                                   |             |
| Carbonate(CCE)       | 0.8 %              | *****          |     |     |      |                               |             |                               |              |                                   |             |
| Sol. Salts           | 0-6" 0.73 mmho/cm  | *****          |     |     |      | Soil pH                       | Buffer pH   | Cation Exchange Capacity      |              | % Base Saturation (Typical Range) |             |
|                      | 0-24" 0.61 mmho/cm | *****          |     |     |      | 0-6" 7.5                      |             | 33.2 meq                      | % Ca         | % Mg                              | % K         |
|                      |                    |                |     |     |      | 6-24" 8.3                     |             |                               | (65-75) 70.7 | (15-20) 25.1                      | (1-7) 3.7   |
|                      |                    |                |     |     |      |                               |             |                               | (0-5) 0.6    | (0-5) 0.0                         |             |

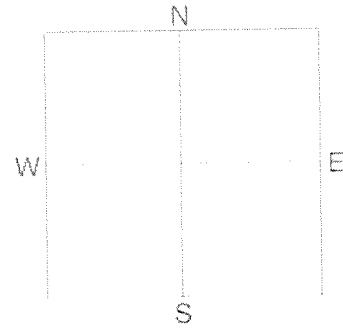
General Comments: Fine-textured (CEC: 31+ meq)



Soil Analysis by Agvise Laboratories  
(<http://www.agvise.com>)  
Northwood: (701) 587-6010  
Benson: (320) 843-4109

**SOIL TEST REPORT**

FIELD ID **119**  
 SAMPLE ID **1G**  
 FIELD NAME  
 COUNTY **3**  
 TWP **3** RANGE  
 SECTION **10** QTR **NW** ACRES **136**  
 PREV. CROP **Beans-Edible**



SUBMITTED FOR:  
**BLUMENGART COLONY**

SUBMITTED BY: **KR3239**  
**KR CROP CHECK LIMITED**  
**12085 RD 23 W (DICKENS RD**  
**BOX 240**  
**WINKLER, MB** **R6W 4A5**

REF # **20551971** BOX # **6026**  
 LAB # **NW131216**

Date Sampled **09/27/2023** Date Received **09/28/2023** Date Reported **09/29/2023**

| Nutrient In The Soil |                    | Interpretation |     |     |      | 1st Crop Choice       |             | 2nd Crop Choice          |                                   | 3rd Crop Choice      |                                     |
|----------------------|--------------------|----------------|-----|-----|------|-----------------------|-------------|--------------------------|-----------------------------------|----------------------|-------------------------------------|
|                      |                    | VLow           | Low | Med | High |                       |             |                          |                                   |                      |                                     |
|                      |                    |                |     |     |      | YIELD GOAL            |             | YIELD GOAL               |                                   | YIELD GOAL           |                                     |
|                      |                    |                |     |     |      |                       |             |                          |                                   |                      |                                     |
|                      |                    |                |     |     |      | SUGGESTED GUIDELINES  |             | SUGGESTED GUIDELINES     |                                   | SUGGESTED GUIDELINES |                                     |
|                      |                    |                |     |     |      |                       |             |                          |                                   |                      |                                     |
| Nitrate              | 0-6" 36 lb/acre    |                |     |     |      | LB/ACRE               | APPLICATION | LB/ACRE                  | APPLICATION                       | LB/ACRE              | APPLICATION                         |
|                      | 0-24" 88 lb/acre   |                |     |     |      | N                     |             | N                        |                                   | N                    |                                     |
| Olsen Phosphorus     | 19 ppm             |                |     |     |      | P2O5                  |             | P2O5                     |                                   | P2O5                 |                                     |
| Potassium            | 161 ppm            |                |     |     |      | K2O                   |             | K2O                      |                                   | K2O                  |                                     |
| Chloride             |                    |                |     |     |      | Cl                    |             | Cl                       |                                   | Cl                   |                                     |
|                      | 0-6" 34 lb/acre    |                |     |     |      | S                     |             | S                        |                                   | S                    |                                     |
| Sulfur               | 0-24" 112 lb/acre  |                |     |     |      | B                     |             | B                        |                                   | B                    |                                     |
| Boron                | 1.4 ppm            |                |     |     |      | Zn                    |             | Zn                       |                                   | Zn                   |                                     |
| Zinc                 | 1.62 ppm           |                |     |     |      | Fe                    |             | Fe                       |                                   | Fe                   |                                     |
| Iron                 | 7.3 ppm            |                |     |     |      | Mn                    |             | Mn                       |                                   | Mn                   |                                     |
| Manganese            | 2.0 ppm            |                |     |     |      | Cu                    |             | Cu                       |                                   | Cu                   |                                     |
| Copper               | 0.72 ppm           |                |     |     |      | Mg                    |             | Mg                       |                                   | Mg                   |                                     |
| Magnesium            | 640 ppm            |                |     |     |      | Lime                  |             | Lime                     |                                   | Lime                 |                                     |
| Calcium              | 4922 ppm           |                |     |     |      |                       |             |                          |                                   |                      |                                     |
| Sodium               | 24 ppm             | ****           |     |     |      |                       |             |                          |                                   |                      |                                     |
| Org.Matter           | 3.1 %              | *****          |     |     |      |                       |             |                          |                                   |                      |                                     |
| Carbonate(CCE)       | 3.7 %              | *****          |     |     |      |                       |             |                          |                                   |                      |                                     |
| Sol. Salts           | 0-6" 0.42 mmho/cm  | *****          |     |     |      | Soil pH               | Buffer pH   | Cation Exchange Capacity | % Base Saturation (Typical Range) |                      |                                     |
|                      | 0-24" 0.32 mmho/cm | *****          |     |     |      | 0-6" 8.3<br>6-24" 8.4 |             | 30.5 meq                 | (65-75) 80.8                      | (15-20) 17.5         | (1-7) 1.4<br>(0-5) 0.3<br>(0-5) 0.0 |

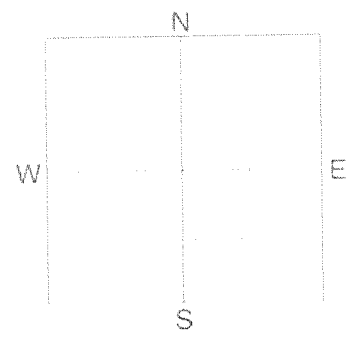
General Comments: Soil texture is not estimated on high pH soils.



Soil Analysis by Agvise Laboratories  
(<http://www.agvise.com>)  
Northwood: (701) 587-6010  
Benson: (320) 843-4109

### SOIL TEST REPORT

FIELD ID **120**  
SAMPLE ID **5R**  
FIELD NAME  
COUNTY **3**  
TWP **3** RANGE  
SECTION **22** QTR **SE** ACRES **160**  
PREV. CROP **Beans-Edible**



SUBMITTED FOR:  
**BLUMENGART COLONY**

SUBMITTED BY: **KR3239**  
**KR CROP CHECK LIMITED**  
**12085 RD 23 W (DICKENS RD)**  
**BOX 240**  
**WINKLER, MB** **R6W 4A5**

REF # **20551983** BOX # **6086**  
LAB # **NW131214**

Date Sampled **09/27/2023** Date Received **09/28/2023** Date Reported **09/29/2023**

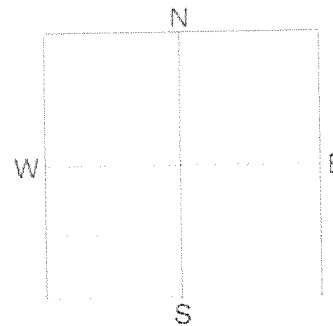
| Nutrient In The Soil |                    | Interpretation |     |     |      | 1st Crop Choice               |           | 2nd Crop Choice               |                                   | 3rd Crop Choice               |           |           |           |
|----------------------|--------------------|----------------|-----|-----|------|-------------------------------|-----------|-------------------------------|-----------------------------------|-------------------------------|-----------|-----------|-----------|
|                      |                    | VLow           | Low | Med | High | YIELD GOAL                    |           | YIELD GOAL                    |                                   | YIELD GOAL                    |           |           |           |
| Nitrate              | 0-6" 54 lb/acre    |                |     |     |      | SUGGESTED GUIDELINES          |           | SUGGESTED GUIDELINES          |                                   | SUGGESTED GUIDELINES          |           |           |           |
|                      | 0-24" 108 lb/acre  |                |     |     |      | LB/ACRE APPLICATION           |           | LB/ACRE APPLICATION           |                                   | LB/ACRE APPLICATION           |           |           |           |
|                      |                    |                |     |     |      | N                             |           | N                             |                                   | N                             |           |           |           |
| Phosphorus           | Olsen 25 ppm       |                |     |     |      | P <sub>2</sub> O <sub>5</sub> |           | P <sub>2</sub> O <sub>5</sub> |                                   | P <sub>2</sub> O <sub>5</sub> |           |           |           |
| Potassium            | 335 ppm            |                |     |     |      | K <sub>2</sub> O              |           | K <sub>2</sub> O              |                                   | K <sub>2</sub> O              |           |           |           |
| Chloride             |                    |                |     |     |      | Cl                            |           | Cl                            |                                   | Cl                            |           |           |           |
| Sulfur               | 0-6" 120 +lb/acre  |                |     |     |      | S                             |           | S                             |                                   | S                             |           |           |           |
|                      | 0-24" 480 +lb/acre |                |     |     |      | B                             |           | B                             |                                   | B                             |           |           |           |
| Boron                | 1.0 ppm            |                |     |     |      | Zn                            |           | Zn                            |                                   | Zn                            |           |           |           |
| Zinc                 | 1.66 ppm           |                |     |     |      | Fe                            |           | Fe                            |                                   | Fe                            |           |           |           |
| Iron                 | 9.3 ppm            |                |     |     |      | Mn                            |           | Mn                            |                                   | Mn                            |           |           |           |
| Manganese            | 1.2 ppm            |                |     |     |      | Cu                            |           | Cu                            |                                   | Cu                            |           |           |           |
| Copper               | 1.47 ppm           |                |     |     |      | Mg                            |           | Mg                            |                                   | Mg                            |           |           |           |
| Magnesium            | 929 ppm            |                |     |     |      | Lime                          |           | Lime                          |                                   | Lime                          |           |           |           |
| Calcium              | 4540 ppm           |                |     |     |      |                               |           |                               |                                   |                               |           |           |           |
| Sodium               | 52 ppm             |                |     |     |      |                               |           |                               |                                   |                               |           |           |           |
| Org.Matter           | 3.1 %              |                |     |     |      |                               |           |                               |                                   |                               |           |           |           |
| Carbonate(CCE)       | 1.7 %              |                |     |     |      |                               |           |                               |                                   |                               |           |           |           |
| Sol. Salts           | 0-6" 0.75 mmho/cm  |                |     |     |      | Soil pH                       | Buffer pH | Cation Exchange Capacity      | % Base Saturation (Typical Range) |                               |           |           |           |
|                      | 0-24" 0.94 mmho/cm |                |     |     |      | 0-6" 8.0                      |           | 31.5 meq                      | % Ca                              | % Mg                          | % K       | % Na      | % H       |
|                      |                    |                |     |     |      | 6-24" 8.1                     |           |                               | (65-75) 72.0                      | (15-20) 24.6                  | (1-7) 2.7 | (0-5) 0.7 | (0-5) 0.0 |

General Comments: Soil texture is not estimated on high pH soils.



Soil Analysis by Agvise Laboratories  
(http://www.agvise.com)  
Northwood: (701) 587-6010  
Benson: (320) 843-4109

| SOIL TEST REPORT |          |        |          |
|------------------|----------|--------|----------|
| FIELD ID         | 123      |        |          |
| SAMPLE ID        |          |        |          |
| FIELD NAME       |          |        |          |
| COUNTY           | 3        |        |          |
| TWP              | 3        | RANGE  |          |
| SECTION          | 8        | QTR NW | ACRES 40 |
| PREV. CROP       | Soybeans |        |          |



|                   |                            |
|-------------------|----------------------------|
| SUBMITTED FOR:    | SUBMITTED BY: KR3239       |
| BLUMENGART COLONY | KR CROP CHECK LIMITED      |
|                   | 12085 RD 23 W (DICKENS RD) |
|                   | BOX 240                    |
|                   | WINKLER, MB R6W 4A5        |

|       |          |       |       |
|-------|----------|-------|-------|
| REF # | 19502759 | BOX # | 10073 |
| LAB # | NW199686 |       |       |

|              |            |               |            |               |            |
|--------------|------------|---------------|------------|---------------|------------|
| Date Sampled | 10/17/2023 | Date Received | 10/18/2023 | Date Reported | 10/20/2023 |
|--------------|------------|---------------|------------|---------------|------------|

| Nutrient In The Soil |               | Interpretation |     |     |      | 1st Crop Choice               |           |                          | 2nd Crop Choice                   |      |             | 3rd Crop Choice               |      |             |
|----------------------|---------------|----------------|-----|-----|------|-------------------------------|-----------|--------------------------|-----------------------------------|------|-------------|-------------------------------|------|-------------|
|                      |               | VLow           | Low | Med | High |                               |           |                          |                                   |      |             |                               |      |             |
|                      |               |                |     |     |      | YIELD GOAL                    |           |                          | YIELD GOAL                        |      |             | YIELD GOAL                    |      |             |
|                      |               |                |     |     |      | SUGGESTED GUIDELINES          |           |                          | SUGGESTED GUIDELINES              |      |             | SUGGESTED GUIDELINES          |      |             |
|                      |               |                |     |     |      | LB/ACRE                       |           | APPLICATION              | LB/ACRE                           |      | APPLICATION | LB/ACRE                       |      | APPLICATION |
| Nitrate              | 0-6"<br>6-24" |                |     |     |      | N                             |           |                          | N                                 |      |             | N                             |      |             |
|                      | 0-24"         |                |     |     |      |                               |           |                          |                                   |      |             |                               |      |             |
|                      |               |                |     |     |      |                               |           |                          |                                   |      |             |                               |      |             |
|                      |               |                |     |     |      |                               |           |                          |                                   |      |             |                               |      |             |
| Olsen                |               | 31 ppm         |     |     |      | P <sub>2</sub> O <sub>5</sub> |           |                          | P <sub>2</sub> O <sub>5</sub>     |      |             | P <sub>2</sub> O <sub>5</sub> |      |             |
| Phosphorus           |               |                |     |     |      | K <sub>2</sub> O              |           |                          | K <sub>2</sub> O                  |      |             | K <sub>2</sub> O              |      |             |
| Potassium            |               | 454 ppm        |     |     |      | Cl                            |           |                          | Cl                                |      |             | Cl                            |      |             |
| Chloride             | 0-24"         |                |     |     |      | S                             |           |                          | S                                 |      |             | S                             |      |             |
|                      | 0-6"<br>6-24" |                |     |     |      | B                             |           |                          | B                                 |      |             | B                             |      |             |
|                      |               |                |     |     |      | Zn                            |           |                          | Zn                                |      |             | Zn                            |      |             |
|                      |               |                |     |     |      | Fe                            |           |                          | Fe                                |      |             | Fe                            |      |             |
| Sulfur               |               |                |     |     |      | Mn                            |           |                          | Mn                                |      |             | Mn                            |      |             |
| Boron                |               |                |     |     |      | Cu                            |           |                          | Cu                                |      |             | Cu                            |      |             |
| Zinc                 |               |                |     |     |      | Mg                            |           |                          | Mg                                |      |             | Mg                            |      |             |
| Iron                 |               |                |     |     |      | Lime                          |           |                          | Lime                              |      |             | Lime                          |      |             |
| Manganese            |               |                |     |     |      |                               |           |                          |                                   |      |             |                               |      |             |
| Copper               |               |                |     |     |      |                               |           |                          |                                   |      |             |                               |      |             |
| Magnesium            |               |                |     |     |      |                               |           |                          |                                   |      |             |                               |      |             |
| Calcium              |               |                |     |     |      |                               |           |                          |                                   |      |             |                               |      |             |
| Sodium               |               |                |     |     |      |                               |           |                          |                                   |      |             |                               |      |             |
| Org.Matter           |               |                |     |     |      |                               |           |                          |                                   |      |             |                               |      |             |
| Carbonate(CCE)       |               |                |     |     |      |                               |           |                          |                                   |      |             |                               |      |             |
| Sol. Salts           | 0-6"<br>6-24" |                |     |     |      | Soil pH                       | Buffer pH | Cation Exchange Capacity | % Base Saturation (Typical Range) |      |             |                               |      |             |
|                      |               |                |     |     |      | 0-6" 6.4<br>6-24" 7.3         |           | 38.1 meq                 | % Ca                              | % Mg | % K         | % Na                          | % H  |             |
|                      |               |                |     |     |      |                               |           |                          | 64.6                              | 21.9 | 3.1         | 0.5                           | 10.0 |             |

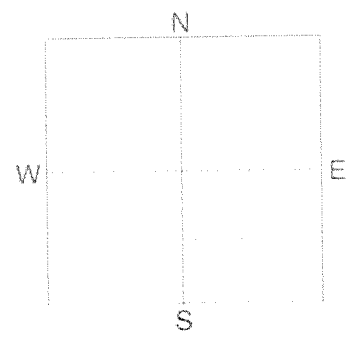
General Comments: Fine-textured (CEC: 31+ meq)  
Percent hydrogen is estimated from water pH, CEC corrected for exchangeable acidity.



Soil Analysis by Agvise Laboratories  
(<http://www.agvise.com>)  
Northwood: (701) 587-6010  
Benson: (320) 843-4109

### SOIL TEST REPORT

FIELD ID **124**  
SAMPLE ID  
FIELD NAME  
COUNTY **3**  
TWP **3** RANGE  
SECTION **21** QTR **SE** ACRES **63.2**  
PREV. CROP **Corn-Grain**



SUBMITTED FOR:  
**BLUMENGART COLONY**

SUBMITTED BY: **KR3239**  
**KR CROP CHECK LIMITED**  
**12085 RD 23 W (DICKENS RD**  
**BOX 240**  
**WINKLER, MB** **R6W 4A5**

REF # **19502799** BOX # **3782**  
LAB # **NW194461**

Date Sampled **10/14/2023** Date Received **10/17/2023** Date Reported **10/19/2023**

| Nutrient In The Soil |                    | Interpretation |     |     |      | 1st Crop Choice               |             | 2nd Crop Choice               |                                   | 3rd Crop Choice               |             |           |           |  |
|----------------------|--------------------|----------------|-----|-----|------|-------------------------------|-------------|-------------------------------|-----------------------------------|-------------------------------|-------------|-----------|-----------|--|
|                      |                    | VLow           | Low | Med | High | YIELD GOAL                    |             | YIELD GOAL                    |                                   | YIELD GOAL                    |             |           |           |  |
| Nitrate              | 0-6" 25 lb/acre    | *****          |     |     |      | SUGGESTED GUIDELINES          |             | SUGGESTED GUIDELINES          |                                   | SUGGESTED GUIDELINES          |             |           |           |  |
|                      | 0-24" 52 lb/acre   |                |     |     |      | LB/ACRE                       | APPLICATION | LB/ACRE                       | APPLICATION                       | LB/ACRE                       | APPLICATION |           |           |  |
|                      |                    |                |     |     |      | N                             |             | N                             |                                   | N                             |             |           |           |  |
| Phosphorus           | Olsen 9 ppm        |                |     |     |      | P <sub>2</sub> O <sub>5</sub> |             | P <sub>2</sub> O <sub>5</sub> |                                   | P <sub>2</sub> O <sub>5</sub> |             |           |           |  |
| Potassium            | 184 ppm            |                |     |     |      | K <sub>2</sub> O              |             | K <sub>2</sub> O              |                                   | K <sub>2</sub> O              |             |           |           |  |
| Chloride             | 0-24" 32 lb/acre   |                |     |     |      | Cl                            |             | Cl                            |                                   | Cl                            |             |           |           |  |
| Sulfur               | 0-6" 22 lb/acre    |                |     |     |      | S                             |             | S                             |                                   | S                             |             |           |           |  |
|                      | 0-24" 192 lb/acre  |                |     |     |      | B                             |             | B                             |                                   | B                             |             |           |           |  |
| Boron                | 1.0 ppm            |                |     |     |      | Zn                            |             | Zn                            |                                   | Zn                            |             |           |           |  |
| Zinc                 | 0.61 ppm           |                |     |     |      | Fe                            |             | Fe                            |                                   | Fe                            |             |           |           |  |
| Iron                 | 11.7 ppm           |                |     |     |      | Mn                            |             | Mn                            |                                   | Mn                            |             |           |           |  |
| Manganese            | 3.3 ppm            |                |     |     |      | Cu                            |             | Cu                            |                                   | Cu                            |             |           |           |  |
| Copper               | 0.45 ppm           |                |     |     |      | Mg                            |             | Mg                            |                                   | Mg                            |             |           |           |  |
| Magnesium            | 663 ppm            |                |     |     |      | Lime                          |             | Lime                          |                                   | Lime                          |             |           |           |  |
| Calcium              | 3713 ppm           |                |     |     |      |                               |             |                               |                                   |                               |             |           |           |  |
| Sodium               | 23 ppm             |                |     |     |      |                               |             |                               |                                   |                               |             |           |           |  |
| Org.Matter           | 3.8 %              |                |     |     |      |                               |             |                               |                                   |                               |             |           |           |  |
| Carbonate(CCE)       | 0.7 %              |                |     |     |      |                               |             |                               |                                   |                               |             |           |           |  |
| Sol. Salts           | 0-6" 0.31 mmho/cm  |                |     |     |      | Soil pH                       | Buffer pH   | Cation Exchange Capacity      | % Base Saturation (Typical Range) |                               |             |           |           |  |
|                      | 0-24" 0.37 mmho/cm |                |     |     |      | 0-6" 7.9                      |             | 24.7 meq                      | (65-75) 75.3                      | (15-20) 22.4                  | (1-7) 1.9   | (0-5) 0.4 | (0-5) 0.0 |  |
|                      |                    |                |     |     |      | 6-24" 8.4                     |             |                               |                                   |                               |             |           |           |  |

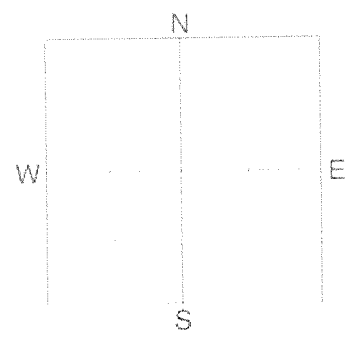
General Comments: Soil texture is not estimated on high pH soils.



Soil Analysis by Agvise Laboratories  
(<http://www.agvise.com>)  
Northwood: (701) 587-6010  
Benson: (320) 843-4109

### SOIL TEST REPORT

FIELD ID **150**  
SAMPLE ID **SOUTH**  
FIELD NAME  
COUNTY **2**  
TWP **3** RANGE  
SECTION **20** QTRS ACRES **150**  
PREV. CROP **Canola-bu**



SUBMITTED FOR:  
**BLUMENGART COLONY**

SUBMITTED BY: **KR3239**  
**KR CROP CHECK LIMITED**  
**12085 RD 23 W (DICKENS RD**  
**BOX 240**  
**WINKLER, MB** **R6W 4A5**

REF # **20018114** BOX # **2016**  
LAB # **NW79848**

Date Sampled **09/08/2023** Date Received **09/11/2023** Date Reported **09/12/2023**

| Nutrient In The Soil |              | Interpretation |     |     |      | 1st Crop Choice               |             | 2nd Crop Choice               |                                   | 3rd Crop Choice               |             |       |       |
|----------------------|--------------|----------------|-----|-----|------|-------------------------------|-------------|-------------------------------|-----------------------------------|-------------------------------|-------------|-------|-------|
|                      |              | VLow           | Low | Med | High |                               |             |                               |                                   |                               |             |       |       |
| 0-6"                 | 60 lb/acre   |                |     |     |      | YIELD GOAL                    |             | YIELD GOAL                    |                                   | YIELD GOAL                    |             |       |       |
| 0-24"                | 36 lb/acre   | *****          |     |     |      | SUGGESTED GUIDELINES          |             | SUGGESTED GUIDELINES          |                                   | SUGGESTED GUIDELINES          |             |       |       |
| Nitrate              |              |                |     |     |      | LB/ACRE                       | APPLICATION | LB/ACRE                       | APPLICATION                       | LB/ACRE                       | APPLICATION |       |       |
| Olsen                | 30 ppm       |                |     |     |      | N                             |             | N                             |                                   | N                             |             |       |       |
| Phosphorus           |              |                |     |     |      | P <sub>2</sub> O <sub>5</sub> |             | P <sub>2</sub> O <sub>5</sub> |                                   | P <sub>2</sub> O <sub>5</sub> |             |       |       |
| Potassium            | 494 ppm      |                |     |     |      | K <sub>2</sub> O              |             | K <sub>2</sub> O              |                                   | K <sub>2</sub> O              |             |       |       |
| Chloride             | 0-24"        | 312 lb/acre    |     |     |      | Cl                            |             | Cl                            |                                   | Cl                            |             |       |       |
| 0-6"                 | 46 lb/acre   | *****          |     |     |      | S                             |             | S                             |                                   | S                             |             |       |       |
| 0-24"                | 480 +lb/acre | *****          |     |     |      | B                             |             | B                             |                                   | B                             |             |       |       |
| Sulfur               |              |                |     |     |      | Zn                            |             | Zn                            |                                   | Zn                            |             |       |       |
| Boron                | 1.3 ppm      |                |     |     |      | Fe                            |             | Fe                            |                                   | Fe                            |             |       |       |
| Zinc                 | 1.71 ppm     |                |     |     |      | Mn                            |             | Mn                            |                                   | Mn                            |             |       |       |
| Iron                 | 23.1 ppm     |                |     |     |      | Cu                            |             | Cu                            |                                   | Cu                            |             |       |       |
| Manganese            | 2.7 ppm      |                |     |     |      | Mg                            |             | Mg                            |                                   | Mg                            |             |       |       |
| Copper               | 1.79 ppm     |                |     |     |      | Lime                          |             | Lime                          |                                   | Lime                          |             |       |       |
| Magnesium            | 1150 ppm     |                |     |     |      |                               |             |                               |                                   |                               |             |       |       |
| Calcium              | 4307 ppm     |                |     |     |      |                               |             |                               |                                   |                               |             |       |       |
| Sodium               | 66 ppm       | *****          |     |     |      |                               |             |                               |                                   |                               |             |       |       |
| Org.Matter           | 5.5 %        | *****          |     |     |      |                               |             |                               |                                   |                               |             |       |       |
| Carbonate(CCE)       | 0.4 %        | **             |     |     |      |                               |             |                               |                                   |                               |             |       |       |
| 0-6"                 | 0.96 mmho/cm | *****          |     |     |      | Soil pH                       | Buffer pH   | Cation Exchange               | % Base Saturation (Typical Range) |                               |             |       |       |
| 0-24"                | 1.63 mmho/cm | *****          |     |     |      |                               |             | Capacity                      | % Ca                              | % Mg                          | % K         | % Na  | % H   |
| Sol. Salts           |              |                |     |     |      | 0-6" 7.3                      |             | 32.7 meq                      | (65-75)                           | (15-20)                       | (1-7)       | (0-5) | (0-5) |
|                      |              |                |     |     |      | 6-24" 8.2                     |             |                               | 65.9                              | 29.3                          | 3.9         | 0.9   | 0.0   |

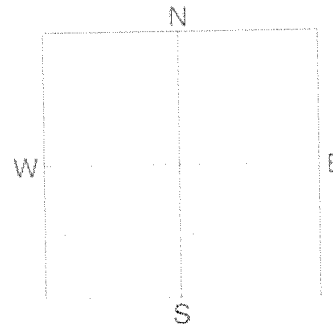
General Comments: Fine-textured (CEC: 31+ meq)  
Percent hydrogen is estimated from water pH, CEC corrected for exchangeable acidity.



Soil Analysis by Agvise Laboratories  
(http://www.agvise.com)  
Northwood: (701) 587-6010  
Benson: (320) 843-4109

**SOIL TEST REPORT**

FIELD ID **150**  
 SAMPLE ID **NORTH**  
 FIELD NAME  
 COUNTY **2**  
 TWP **3** RANGE  
 SECTION **20** QTR E ACRES **230**  
 PREV. CROP **Canola-bu**



SUBMITTED FOR:  
**BLUMENGART COLONY**

SUBMITTED BY: **KR3239**  
**KR CROP CHECK LIMITED**  
**12085 RD 23 W (DICKENS RD**  
**BOX 240**  
**WINKLER, MB** **R6W 4A5**

REF # **20018115** BOX # **2047**  
 LAB # **NW79846**

Date Sampled **09/08/2023** Date Received **09/11/2023** Date Reported **09/12/2023**

| Nutrient In The Soil |                                         | Interpretation |     |     |      | 1st Crop Choice               |             | 2nd Crop Choice               |                                   | 3rd Crop Choice               |                  |
|----------------------|-----------------------------------------|----------------|-----|-----|------|-------------------------------|-------------|-------------------------------|-----------------------------------|-------------------------------|------------------|
|                      |                                         | VLow           | Low | Med | High | YIELD GOAL                    |             | YIELD GOAL                    |                                   | YIELD GOAL                    |                  |
| Nitrate              | 0-6" 64 lb/acre                         | *****          |     |     |      | SUGGESTED GUIDELINES          |             | SUGGESTED GUIDELINES          |                                   | SUGGESTED GUIDELINES          |                  |
|                      | 0-24" 40 lb/acre                        |                |     |     |      | LB/ACRE                       | APPLICATION | LB/ACRE                       | APPLICATION                       | LB/ACRE                       | APPLICATION      |
|                      |                                         |                |     |     |      | N                             |             | N                             |                                   | N                             |                  |
| Phosphorus           | Olsen 34 ppm                            | *****          |     |     |      | P <sub>2</sub> O <sub>5</sub> |             | P <sub>2</sub> O <sub>5</sub> |                                   | P <sub>2</sub> O <sub>5</sub> |                  |
| Potassium            | 495 ppm                                 | *****          |     |     |      | K <sub>2</sub> O              |             | K <sub>2</sub> O              |                                   | K <sub>2</sub> O              |                  |
| Chloride             | 0-24" 100 lb/acre                       | *****          |     |     |      | Cl                            |             | Cl                            |                                   | Cl                            |                  |
| Sulfur               | 0-6" 76 lb/acre<br>0-24" 320 lb/acre    | *****          |     |     |      | S                             |             | S                             |                                   | S                             |                  |
| Boron                | 1.2 ppm                                 | *****          |     |     |      | B                             |             | B                             |                                   | B                             |                  |
| Zinc                 | 1.98 ppm                                | *****          |     |     |      | Zn                            |             | Zn                            |                                   | Zn                            |                  |
| Iron                 | 43.4 ppm                                | *****          |     |     |      | Fe                            |             | Fe                            |                                   | Fe                            |                  |
| Manganese            | 8.0 ppm                                 | *****          |     |     |      | Mn                            |             | Mn                            |                                   | Mn                            |                  |
| Copper               | 2.13 ppm                                | *****          |     |     |      | Cu                            |             | Cu                            |                                   | Cu                            |                  |
| Magnesium            | 1181 ppm                                | *****          |     |     |      | Mg                            |             | Mg                            |                                   | Mg                            |                  |
| Calcium              | 4624 ppm                                | *****          |     |     |      | Lime                          |             | Lime                          |                                   | Lime                          |                  |
| Sodium               | 51 ppm                                  | *****          |     |     |      |                               |             |                               |                                   |                               |                  |
| Org.Matter           | 6.2 %                                   | *****          |     |     |      |                               |             |                               |                                   |                               |                  |
| Carbonate(CCE)       | 0.5 %                                   | ***            |     |     |      |                               |             |                               |                                   |                               |                  |
| Sol. Salts           |                                         |                |     |     |      |                               |             |                               |                                   |                               |                  |
|                      | 0-6" 0.84 mmho/cm<br>0-24" 0.79 mmho/cm | *****          |     |     |      | Soil pH                       | Buffer pH   | Cation Exchange Capacity      | % Base Saturation (Typical Range) |                               |                  |
|                      |                                         |                |     |     |      | 0-6" 6.9<br>6-24" 8.0         |             | 35.3 meq                      | % Ca (65-75)<br>65.5              | % Mg (15-20)<br>27.9          | % K (1-7)<br>3.6 |
|                      |                                         |                |     |     |      |                               |             |                               | % Na (0-5)<br>0.6                 | % H (0-5)<br>2.4              |                  |

General Comments: Fine-textured (CEC: 31+ meq)  
 Percent hydrogen is estimated from water pH, CEC corrected for exchangeable acidity.

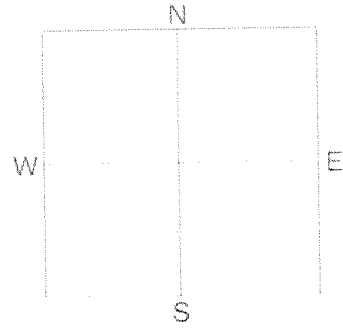




Soil Analysis by Agvise Laboratories  
(http://www.agvise.com)  
Northwood: (701) 587-6010  
Benson: (320) 843-4109

**SOIL TEST REPORT**

FIELD ID **151**  
 SAMPLE ID  
 FIELD NAME  
 COUNTY **2**  
 TWP **3** RANGE  
 SECTION **16** QTR **NW** ACRES **160**  
 PREV. CROP **Wheat-Spring**



SUBMITTED FOR:  
**BLUMENGART COLONY**

SUBMITTED BY: **KR3239**  
**KR CROP CHECK LIMITED**  
**12085 RD 23 W (DICKENS RD**  
**BOX 240**  
**WINKLER, MB** **R6W 4A5**

REF # **20018129** BOX # **2047**  
 LAB # **NW79849**

Date Sampled **09/08/2023** Date Received **09/11/2023** Date Reported **09/12/2023**

| Nutrient In The Soil |                    | Interpretation |     |     |      | 1st Crop Choice               |  | 2nd Crop Choice                   |  | 3rd Crop Choice                                     |  |                   |               |                |               |
|----------------------|--------------------|----------------|-----|-----|------|-------------------------------|--|-----------------------------------|--|-----------------------------------------------------|--|-------------------|---------------|----------------|---------------|
|                      |                    | VLow           | Low | Med | High | YIELD GOAL                    |  | YIELD GOAL                        |  | YIELD GOAL                                          |  |                   |               |                |               |
| Nitrate              | 0-6" 69 lb/acre    | *****          |     |     |      | SUGGESTED GUIDELINES          |  | SUGGESTED GUIDELINES              |  | SUGGESTED GUIDELINES                                |  |                   |               |                |               |
|                      | 0-24" 68 lb/acre   |                |     |     |      | LB/ACRE APPLICATION           |  | LB/ACRE APPLICATION               |  | LB/ACRE                                             |  | APPLICATION       |               |                |               |
|                      |                    |                |     |     |      | N                             |  | N                                 |  | N                                                   |  |                   |               |                |               |
|                      |                    |                |     |     |      | P <sub>2</sub> O <sub>5</sub> |  | P <sub>2</sub> O <sub>5</sub>     |  | P <sub>2</sub> O <sub>5</sub>                       |  |                   |               |                |               |
| Phosphorus           | Olsen 12 ppm       | *****          |     |     |      | K <sub>2</sub> O              |  | K <sub>2</sub> O                  |  | K <sub>2</sub> O                                    |  |                   |               |                |               |
| Potassium            | 323 ppm            | *****          |     |     |      | Cl                            |  | Cl                                |  | Cl                                                  |  |                   |               |                |               |
| Chloride             | 0-24" 148 lb/acre  | *****          |     |     |      | S                             |  | S                                 |  | S                                                   |  |                   |               |                |               |
| Sulfur               | 0-6" 40 lb/acre    | *****          |     |     |      | B                             |  | B                                 |  | B                                                   |  |                   |               |                |               |
|                      | 0-24" 152 lb/acre  | *****          |     |     |      | Zn                            |  | Zn                                |  | Zn                                                  |  |                   |               |                |               |
| Boron                | 1.3 ppm            | *****          |     |     |      | Fe                            |  | Fe                                |  | Fe                                                  |  |                   |               |                |               |
| Zinc                 | 0.79 ppm           | *****          |     |     |      | Mn                            |  | Mn                                |  | Mn                                                  |  |                   |               |                |               |
| Iron                 | 20.2 ppm           | *****          |     |     |      | Cu                            |  | Cu                                |  | Cu                                                  |  |                   |               |                |               |
| Manganese            | 2.9 ppm            | *****          |     |     |      | Mg                            |  | Mg                                |  | Mg                                                  |  |                   |               |                |               |
| Copper               | 1.23 ppm           | *****          |     |     |      | Lime                          |  | Lime                              |  | Lime                                                |  |                   |               |                |               |
| Magnesium            | 1219 ppm           | *****          |     |     |      |                               |  |                                   |  |                                                     |  |                   |               |                |               |
| Calcium              | 5136 ppm           | *****          |     |     |      |                               |  |                                   |  |                                                     |  |                   |               |                |               |
| Sodium               | 57 ppm             | *****          |     |     |      |                               |  |                                   |  |                                                     |  |                   |               |                |               |
| Org.Matter           | 4.5 %              | *****          |     |     |      |                               |  |                                   |  |                                                     |  |                   |               |                |               |
| Carbonate(CCE)       | 1.9 %              | *****          |     |     |      |                               |  |                                   |  |                                                     |  |                   |               |                |               |
| Sol. Salts           | 0-6" 0.68 mmho/cm  | *****          |     |     |      | Soil pH 0-6" 7.7              |  | Cation Exchange Capacity 36.9 meq |  | % Base Saturation (Typical Range) % Ca (65-75) 69.6 |  | % Mg (15-20) 27.5 | % K (1-7) 2.2 | % Na (0-5) 0.7 | % H (0-5) 0.0 |
|                      | 0-24" 0.57 mmho/cm | *****          |     |     |      | 6-24" 8.2                     |  |                                   |  |                                                     |  |                   |               |                |               |

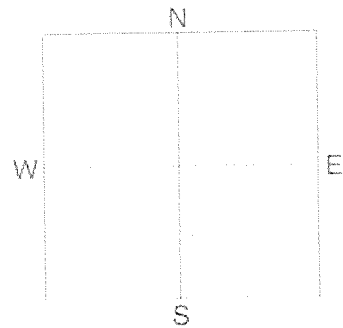
General Comments: Soil texture is not estimated on high pH soils.



Soil Analysis by Agvise Laboratories  
(http://www.agvise.com)  
Northwood: (701) 587-6010  
Benson: (320) 843-4109

**SOIL TEST REPORT**

FIELD ID **153**  
 SAMPLE ID  
 FIELD NAME  
 COUNTY **2**  
 TWP **3** RANGE  
 SECTION **15** QTR **SE** ACRES **65**  
 PREV. CROP **Corn-Grain**



SUBMITTED FOR:  
**BLUMENGART COLONY**

SUBMITTED BY: **KR3239**  
**KR CROP CHECK LIMITED**  
**12085 RD 23 W (DICKENS RD**  
**BOX 240**  
**WINKLER, MB** **R6W 4A5**

REF # **20453937** BOX # **2126**  
 LAB # **NW173730**

Date Sampled **10/11/2023** Date Received **10/12/2023** Date Reported **10/13/2023**

| Nutrient In The Soil                           |                                         | Interpretation |     |     |      | 1st Crop Choice               |             | 2nd Crop Choice               |             | 3rd Crop Choice               |             |
|------------------------------------------------|-----------------------------------------|----------------|-----|-----|------|-------------------------------|-------------|-------------------------------|-------------|-------------------------------|-------------|
|                                                |                                         | VLow           | Low | Med | High | YIELD GOAL                    |             | YIELD GOAL                    |             | YIELD GOAL                    |             |
| Nitrate                                        | 0-6" 78 lb/acre                         |                |     |     |      | SUGGESTED GUIDELINES          |             | SUGGESTED GUIDELINES          |             | SUGGESTED GUIDELINES          |             |
|                                                | 0-24" 88 lb/acre                        |                |     |     |      | SUGGESTED GUIDELINES          |             | SUGGESTED GUIDELINES          |             | SUGGESTED GUIDELINES          |             |
|                                                |                                         |                |     |     |      | LB/ACRE                       | APPLICATION | LB/ACRE                       | APPLICATION | LB/ACRE                       | APPLICATION |
|                                                |                                         |                |     |     |      | N                             |             | N                             |             | N                             |             |
| Phosphorus                                     | Olsen 21 ppm                            |                |     |     |      | P <sub>2</sub> O <sub>5</sub> |             | P <sub>2</sub> O <sub>5</sub> |             | P <sub>2</sub> O <sub>5</sub> |             |
| Potassium                                      | 396 ppm                                 |                |     |     |      | K <sub>2</sub> O              |             | K <sub>2</sub> O              |             | K <sub>2</sub> O              |             |
| Chloride                                       | 0-24" 60 lb/acre                        |                |     |     |      | Cl                            |             | Cl                            |             | Cl                            |             |
| Sulfur                                         | 0-6" 18 lb/acre<br>0-24" 480 +lb/acre   |                |     |     |      | S                             |             | S                             |             | S                             |             |
| Boron                                          | 1.1 ppm                                 |                |     |     |      | B                             |             | B                             |             | B                             |             |
| Zinc                                           | 1.29 ppm                                |                |     |     |      | Zn                            |             | Zn                            |             | Zn                            |             |
| Iron                                           | 19.6 ppm                                |                |     |     |      | Fe                            |             | Fe                            |             | Fe                            |             |
| Manganese                                      | 2.5 ppm                                 |                |     |     |      | Mn                            |             | Mn                            |             | Mn                            |             |
| Copper                                         | 1.66 ppm                                |                |     |     |      | Cu                            |             | Cu                            |             | Cu                            |             |
| Magnesium                                      | 1112 ppm                                |                |     |     |      | Mg                            |             | Mg                            |             | Mg                            |             |
| Calcium                                        | 4208 ppm                                |                |     |     |      | Lime                          |             | Lime                          |             | Lime                          |             |
| Sodium                                         | 56 ppm                                  |                |     |     |      |                               |             |                               |             |                               |             |
| Org.Matter                                     | 5.0 %                                   |                |     |     |      |                               |             |                               |             |                               |             |
| Carbonate(CCE)                                 | 0.4 %                                   |                |     |     |      |                               |             |                               |             |                               |             |
| Sol. Salts                                     |                                         |                |     |     |      |                               |             |                               |             |                               |             |
|                                                | 0-6" 0.75 mmho/cm<br>0-24" 0.79 mmho/cm |                |     |     |      |                               |             |                               |             |                               |             |
| General Comments: Fine-textured (CEC: 31+ meq) |                                         |                |     |     |      |                               |             |                               |             |                               |             |

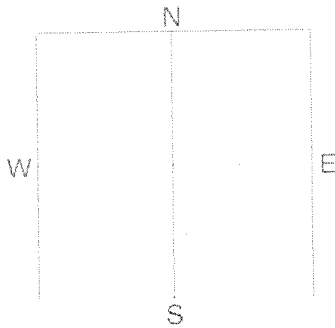
General Comments: Fine-textured (CEC: 31+ meq)



Soil Analysis by Agvise Laboratories  
(<http://www.agvise.com>)  
Northwood: (701) 587-6010  
Benson: (320) 843-4109

SOIL TEST REPORT

FIELD ID 154  
SAMPLE ID E 80  
FIELD NAME  
COUNTY 2  
TWP 3 RANGE  
SECTION 8 QTR E ACRES 260  
PREV. CROP Corn-Grain



SUBMITTED FOR:  
**BLUMENGART COLONY**

SUBMITTED BY: KR3239  
**KR CROP CHECK LIMITED**  
12085 RD 23 W (DICKENS RD)  
BOX 240  
WINKLER, MB R6W 4A5

REF # 20783662 BOX # 2126  
LAB # NW173737

Date Sampled 10/11/2023
Date Received 10/12/2023
Date Reported 10/13/2023

| Nutrient In The Soil |                    | Interpretation |     |     |      | 1st Crop Choice               |             |                          | 2nd Crop Choice                   |             |       | 3rd Crop Choice               |             |  |
|----------------------|--------------------|----------------|-----|-----|------|-------------------------------|-------------|--------------------------|-----------------------------------|-------------|-------|-------------------------------|-------------|--|
|                      |                    | VLow           | Low | Med | High | YIELD GOAL                    |             |                          | YIELD GOAL                        |             |       | YIELD GOAL                    |             |  |
| Nitrate              | 0-6" 111 lb/acre   |                |     |     |      | SUGGESTED GUIDELINES          |             |                          | SUGGESTED GUIDELINES              |             |       | SUGGESTED GUIDELINES          |             |  |
|                      | 0-24" 96 lb/acre   |                |     |     |      |                               |             |                          |                                   |             |       |                               |             |  |
|                      |                    |                |     |     |      | LB/ACRE                       | APPLICATION |                          | LB/ACRE                           | APPLICATION |       | LB/ACRE                       | APPLICATION |  |
|                      |                    |                |     |     |      | N                             |             |                          | N                                 |             |       | N                             |             |  |
| Phosphorus           | Olsen 25 ppm       |                |     |     |      | P <sub>2</sub> O <sub>5</sub> |             |                          | P <sub>2</sub> O <sub>5</sub>     |             |       | P <sub>2</sub> O <sub>5</sub> |             |  |
| Potassium            | 435 ppm            |                |     |     |      | K <sub>2</sub> O              |             |                          | K <sub>2</sub> O                  |             |       | K <sub>2</sub> O              |             |  |
| Chloride             |                    |                |     |     |      | Cl                            |             |                          | Cl                                |             |       | Cl                            |             |  |
| Sulfur               | 0-6" 24 lb/acre    |                |     |     |      | S                             |             |                          | S                                 |             |       | S                             |             |  |
|                      | 0-24" 480 +lb/acre |                |     |     |      | B                             |             |                          | B                                 |             |       | B                             |             |  |
| Boron                | 1.3 ppm            |                |     |     |      | Zn                            |             |                          | Zn                                |             |       | Zn                            |             |  |
| Zinc                 | 1.19 ppm           |                |     |     |      | Fe                            |             |                          | Fe                                |             |       | Fe                            |             |  |
| Iron                 | 18.2 ppm           |                |     |     |      | Mn                            |             |                          | Mn                                |             |       | Mn                            |             |  |
| Manganese            | 3.2 ppm            |                |     |     |      | Cu                            |             |                          | Cu                                |             |       | Cu                            |             |  |
| Copper               | 2.27 ppm           |                |     |     |      | Mg                            |             |                          | Mg                                |             |       | Mg                            |             |  |
| Magnesium            | 1318 ppm           |                |     |     |      | Lime                          |             |                          | Lime                              |             |       | Lime                          |             |  |
| Calcium              | 4950 ppm           |                |     |     |      |                               |             |                          |                                   |             |       |                               |             |  |
| Sodium               | 90 ppm             |                |     |     |      |                               |             |                          |                                   |             |       |                               |             |  |
| Org.Matter           | 5.9 %              |                |     |     |      |                               |             |                          |                                   |             |       |                               |             |  |
| Carbonate(CCE)       | 1.0 %              |                |     |     |      |                               |             |                          |                                   |             |       |                               |             |  |
| Sol. Salts           | 0-6" 1.07 mmho/cm  |                |     |     |      | Soil pH                       | Buffer pH   | Cation Exchange Capacity | % Base Saturation (Typical Range) |             |       |                               |             |  |
|                      | 0-24" 1.42 mmho/cm |                |     |     |      |                               |             |                          | % Ca                              | % Mg        | % K   | % Na                          | % H         |  |
|                      |                    |                |     |     |      | 0-6" 7.6                      |             | 37.2 meq                 | (65-75)                           | (15-20)     | (1-7) | (0-5)                         | (0-5)       |  |
|                      |                    |                |     |     |      | 6-24" 8.2                     |             |                          | 66.5                              | 29.5        | 3.0   | 1.1                           | 0.0         |  |

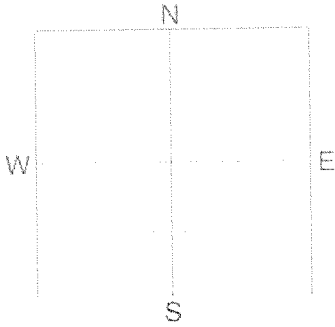
General Comments: Fine-textured (CEC: 31+ meq)



Soil Analysis by Agvise Laboratories  
(<http://www.agvise.com>)  
Northwood: (701) 587-6010  
Benson: (320) 843-4109

SOIL TEST REPORT

FIELD ID 155  
SAMPLE ID 1G  
FIELD NAME  
COUNTY 2  
TWP 3 RANGE  
SECTION 30 QTR SW ACRES 78  
PREV. CROP Wheat-Spring



SUBMITTED FOR:

BLUMENGART COLONY

SUBMITTED BY: KR3239

KR CROP CHECK LIMITED

12085 RD 23 W (DICKENS RD

BOX 240

WINKLER, MB

R6W 4A5

REF # 20551936 BOX # 4905

LAB # NW118464

Date Sampled 09/21/2023

Date Received 09/22/2023

Date Reported 09/25/2023

| Nutrient In The Soil |              | Interpretation |     |     |      | 1st Crop Choice               |  | 2nd Crop Choice               |  | 3rd Crop Choice               |  |
|----------------------|--------------|----------------|-----|-----|------|-------------------------------|--|-------------------------------|--|-------------------------------|--|
|                      |              | VLow           | Low | Med | High | YIELD GOAL                    |  | YIELD GOAL                    |  | YIELD GOAL                    |  |
| 0-6"                 | 104 lb/acre  |                |     |     |      | SUGGESTED GUIDELINES          |  | SUGGESTED GUIDELINES          |  | SUGGESTED GUIDELINES          |  |
| 0-24"                | 92 lb/acre   |                |     |     |      | LB/ACRE APPLICATION           |  | LB/ACRE APPLICATION           |  | LB/ACRE APPLICATION           |  |
| Nitrate              |              |                |     |     |      | N                             |  | N                             |  | N                             |  |
| Olsen                | 29 ppm       |                |     |     |      | P <sub>2</sub> O <sub>5</sub> |  | P <sub>2</sub> O <sub>5</sub> |  | P <sub>2</sub> O <sub>5</sub> |  |
| Phosphorus           |              |                |     |     |      | K <sub>2</sub> O              |  | K <sub>2</sub> O              |  | K <sub>2</sub> O              |  |
| Potassium            | 205 ppm      |                |     |     |      | Cl                            |  | Cl                            |  | Cl                            |  |
| Chloride             |              |                |     |     |      | S                             |  | S                             |  | S                             |  |
| 0-6"                 | 32 lb/acre   |                |     |     |      | B                             |  | B                             |  | B                             |  |
| 0-24"                | 48 lb/acre   |                |     |     |      | Zn                            |  | Zn                            |  | Zn                            |  |
| Sulfur               |              |                |     |     |      | Fe                            |  | Fe                            |  | Fe                            |  |
| Boron                | 0.7 ppm      |                |     |     |      | Mn                            |  | Mn                            |  | Mn                            |  |
| Zinc                 | 1.45 ppm     |                |     |     |      | Cu                            |  | Cu                            |  | Cu                            |  |
| Iron                 | 12.7 ppm     |                |     |     |      | Mg                            |  | Mg                            |  | Mg                            |  |
| Manganese            | 3.8 ppm      |                |     |     |      | Lime                          |  | Lime                          |  | Lime                          |  |
| Copper               | 0.9 ppm      |                |     |     |      |                               |  |                               |  |                               |  |
| Magnesium            | 520 ppm      |                |     |     |      |                               |  |                               |  |                               |  |
| Calcium              | 3370 ppm     |                |     |     |      |                               |  |                               |  |                               |  |
| Sodium               | 23 ppm       | ***            |     |     |      |                               |  |                               |  |                               |  |
| Org.Matter           | 3.3 %        | *****          |     |     |      |                               |  |                               |  |                               |  |
| Carbonate(CCE)       | 0.7 %        | ****           |     |     |      |                               |  |                               |  |                               |  |
| 0-6"                 | 0.49 mmho/cm | *****          |     |     |      |                               |  |                               |  |                               |  |
| 0-24"                | 0.26 mmho/cm | *****          |     |     |      |                               |  |                               |  |                               |  |
| Sol. Salts           |              |                |     |     |      |                               |  |                               |  |                               |  |

General Comments: Medium-textured (CEC: 11-30 meq)

Soil Analysis by Agvise Laboratories  
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Benson: (320) 843-4109

## SOIL TEST REPORT

|            |            |  |        |           |
|------------|------------|--|--------|-----------|
| FIELD ID   | 210        |  |        |           |
| SAMPLE ID  | 5 R        |  |        |           |
| FIELD NAME |            |  |        |           |
| COUNTY     | 4          |  |        |           |
| TWP        | 1          |  | RANGE  |           |
| SECTION    | 23         |  | QTR NE | ACRES 160 |
| PREV. CROP | Corn-Grain |  |        |           |

SUBMITTED FOR:  
BLUMENGART COLONY

SUBMITTED BY: KR3239  
KR CROP CHECK LIMITED  
12085 RD 23 W (DICKENS RD  
BOX 240  
WINKLER, MB R6W 4A5

|       |          |       |      |
|-------|----------|-------|------|
| REF # | 20895033 | BOX # | 6086 |
| LAB # | NW199695 |       |      |

Date Sampled 10/17/2023

Date Received **10/18/2023**Date Reported **10/20/2023**

| Nutrient In The Soil |              | Interpretation |     |     |      | 1st Crop Choice      |             |  | 2nd Crop Choice      |             |  | 3rd Crop Choice      |             |  |
|----------------------|--------------|----------------|-----|-----|------|----------------------|-------------|--|----------------------|-------------|--|----------------------|-------------|--|
|                      |              | VLow           | Low | Med | High |                      |             |  |                      |             |  |                      |             |  |
| 0-6"                 | 63 lb/acre   |                |     |     |      | YIELD GOAL           |             |  | YIELD GOAL           |             |  | YIELD GOAL           |             |  |
| 0-24"                | 76 lb/acre   |                |     |     |      | SUGGESTED GUIDELINES |             |  | SUGGESTED GUIDELINES |             |  | SUGGESTED GUIDELINES |             |  |
| Nitrate              |              |                |     |     |      | LB/ACRE              | APPLICATION |  | LB/ACRE              | APPLICATION |  | LB/ACRE              | APPLICATION |  |
| Olsen                | 31 ppm       |                |     |     |      | N                    |             |  | N                    |             |  | N                    |             |  |
| Phosphorus           |              |                |     |     |      | P2O5                 |             |  | P2O5                 |             |  | P2O5                 |             |  |
| Potassium            | 281 ppm      |                |     |     |      | K2O                  |             |  | K2O                  |             |  | K2O                  |             |  |
|                      |              |                |     |     |      | Cl                   |             |  | Cl                   |             |  | Cl                   |             |  |
| Chloride             |              |                |     |     |      | S                    |             |  | S                    |             |  | S                    |             |  |
| 0-6"                 | 120 +lb/acre |                |     |     |      | B                    |             |  | B                    |             |  | B                    |             |  |
| 0-24"                | 480 +lb/acre |                |     |     |      | Zn                   |             |  | Zn                   |             |  | Zn                   |             |  |
| Sulfur               |              |                |     |     |      | Fe                   |             |  | Fe                   |             |  | Fe                   |             |  |
| Boron                | 2.0 ppm      |                |     |     |      | Mn                   |             |  | Mn                   |             |  | Mn                   |             |  |
| Zinc                 | 2.42 ppm     |                |     |     |      | Cu                   |             |  | Cu                   |             |  | Cu                   |             |  |
| Iron                 | 12.5 ppm     |                |     |     |      | Mg                   |             |  | Mg                   |             |  | Mg                   |             |  |
| Manganese            | 1.9 ppm      |                |     |     |      | Lime                 |             |  | Lime                 |             |  | Lime                 |             |  |
| Copper               | 1.55 ppm     |                |     |     |      |                      |             |  |                      |             |  |                      |             |  |
| Magnesium            | 957 ppm      |                |     |     |      |                      |             |  |                      |             |  |                      |             |  |
| Calcium              | 5787 ppm     |                |     |     |      |                      |             |  |                      |             |  |                      |             |  |
| Sodium               | 120 ppm      |                |     |     |      |                      |             |  |                      |             |  |                      |             |  |
| Org.Matter           | 5.1 %        |                |     |     |      |                      |             |  |                      |             |  |                      |             |  |
| Carbonate(CCE)       | 2.9 %        |                |     |     |      |                      |             |  |                      |             |  |                      |             |  |
| 0-6"                 | 2.18 mmho/cm |                |     |     |      |                      |             |  |                      |             |  |                      |             |  |
| 0-24"                | 2.83 mmho/cm |                |     |     |      |                      |             |  |                      |             |  |                      |             |  |
| Sol. Salts           |              |                |     |     |      |                      |             |  |                      |             |  |                      |             |  |

| 1st Crop Choice      |             | 2nd Crop Choice          |                                   | 3rd Crop Choice      |             |
|----------------------|-------------|--------------------------|-----------------------------------|----------------------|-------------|
|                      |             |                          |                                   |                      |             |
| YIELD GOAL           |             | YIELD GOAL               |                                   | YIELD GOAL           |             |
|                      |             |                          |                                   |                      |             |
| SUGGESTED GUIDELINES |             | SUGGESTED GUIDELINES     |                                   | SUGGESTED GUIDELINES |             |
|                      |             |                          |                                   |                      |             |
| LB/ACRE              | APPLICATION | LB/ACRE                  | APPLICATION                       | LB/ACRE              | APPLICATION |
| N                    |             | N                        |                                   | N                    |             |
| P2O5                 |             | P2O5                     |                                   | P2O5                 |             |
| K2O                  |             | K2O                      |                                   | K2O                  |             |
| Cl                   |             | Cl                       |                                   | Cl                   |             |
| S                    |             | S                        |                                   | S                    |             |
| B                    |             | B                        |                                   | B                    |             |
| Zn                   |             | Zn                       |                                   | Zn                   |             |
| Fe                   |             | Fe                       |                                   | Fe                   |             |
| Mn                   |             | Mn                       |                                   | Mn                   |             |
| Cu                   |             | Cu                       |                                   | Cu                   |             |
| Mg                   |             | Mg                       |                                   | Mg                   |             |
| Lime                 |             | Lime                     |                                   | Lime                 |             |
| Soil pH              | Buffer pH   | Cation Exchange Capacity | % Base Saturation (Typical Range) |                      |             |
|                      |             |                          | % Ca                              | % Mg                 | % K         |
|                      |             |                          | % Na                              | % H                  |             |
| 0-6" 7.8             |             | 38.2 meq                 | (65-75)                           | (15-20)              | (1-7)       |
| 6-24" 8.0            |             |                          | 75.8                              | 20.9                 | 1.9         |

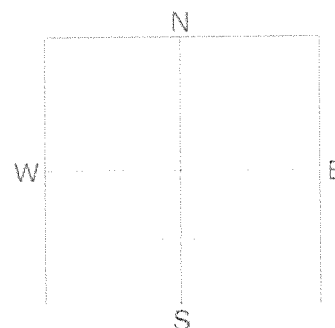
**General Comments:** Soil texture is not estimated on high pH soils.



Soil Analysis by Agvise Laboratories  
(<http://www.agvise.com>)  
Northwood: (701) 587-6010  
Benson: (320) 843-4109

### SOIL TEST REPORT

FIELD ID **211**  
SAMPLE ID **1G**  
FIELD NAME  
COUNTY **3**  
TWP **1** RANGE  
SECTION **19** QTR **NW** ACRES **160**  
PREV. CROP **Beans-Edible**



SUBMITTED FOR:  
**BLUMENGART COLONY**

SUBMITTED BY: **KR3239**  
**KR CROP CHECK LIMITED**  
**12085 RD 23 W (DICKENS RD)**  
**BOX 240**  
**WINKLER, MB** **R6W 4A5**

REF # **20526381** BOX # **3775**  
LAB # **NW98952**

Date Sampled **09/15/2023**

Date Received **09/16/2023**

Date Reported **09/19/2023**

| Nutrient In The Soil |                    | Interpretation |     |     |      | 1st Crop Choice               |             | 2nd Crop Choice               |             | 3rd Crop Choice                   |              |
|----------------------|--------------------|----------------|-----|-----|------|-------------------------------|-------------|-------------------------------|-------------|-----------------------------------|--------------|
|                      |                    | VLow           | Low | Med | High | YIELD GOAL                    |             | YIELD GOAL                    |             | YIELD GOAL                        |              |
| Nitrate              | 0-6" 31 lb/acre    |                |     |     |      | SUGGESTED GUIDELINES          |             | SUGGESTED GUIDELINES          |             | SUGGESTED GUIDELINES              |              |
|                      | 0-24" 60 lb/acre   |                |     |     |      | LB/ACRE                       | APPLICATION | LB/ACRE                       | APPLICATION | LB/ACRE                           | APPLICATION  |
|                      |                    |                |     |     |      | N                             |             | N                             |             | N                                 |              |
| Phosphorus           | Olsen 45 ppm       |                |     |     |      | P <sub>2</sub> O <sub>5</sub> |             | P <sub>2</sub> O <sub>5</sub> |             | P <sub>2</sub> O <sub>5</sub>     |              |
| Potassium            | 355 ppm            |                |     |     |      | K <sub>2</sub> O              |             | K <sub>2</sub> O              |             | K <sub>2</sub> O                  |              |
| Chloride             |                    |                |     |     |      | Cl                            |             | Cl                            |             | Cl                                |              |
| Sulfur               | 0-6" 76 lb/acre    |                |     |     |      | S                             |             | S                             |             | S                                 |              |
|                      | 0-24" 480 +lb/acre |                |     |     |      | B                             |             | B                             |             | B                                 |              |
| Boron                | 1.0 ppm            |                |     |     |      | Zn                            |             | Zn                            |             | Zn                                |              |
| Zinc                 | 3.88 ppm           |                |     |     |      | Fe                            |             | Fe                            |             | Fe                                |              |
| Iron                 | 32.3 ppm           |                |     |     |      | Mn                            |             | Mn                            |             | Mn                                |              |
| Manganese            | 3.7 ppm            |                |     |     |      | Cu                            |             | Cu                            |             | Cu                                |              |
| Copper               | 1.55 ppm           |                |     |     |      | Mg                            |             | Mg                            |             | Mg                                |              |
| Magnesium            | 685 ppm            |                |     |     |      | Lime                          |             | Lime                          |             | Lime                              |              |
| Calcium              | 3508 ppm           |                |     |     |      |                               |             |                               |             |                                   |              |
| Sodium               | 49 ppm             |                |     |     |      |                               |             |                               |             |                                   |              |
| Org.Matter           | 5.1 %              |                |     |     |      |                               |             |                               |             |                                   |              |
| Carbonate(CCE)       | 0.0 %              |                |     |     |      |                               |             |                               |             |                                   |              |
| Sol. Salts           | 0-6" 0.62 mmho/cm  |                |     |     |      | Soil pH                       | Buffer pH   | Cation Exchange Capacity      |             | % Base Saturation (Typical Range) |              |
|                      | 0-24" 1.97 mmho/cm |                |     |     |      | 0-6" 7.1                      |             |                               |             | % Ca                              | % Mg         |
|                      |                    |                |     |     |      | 6-24" 7.5                     |             | 24.6 meq                      |             | (65-75) 71.3                      | (15-20) 23.2 |
|                      |                    |                |     |     |      |                               |             |                               |             | (1-7) 3.7                         | (0-5) 0.9    |
|                      |                    |                |     |     |      |                               |             |                               |             | (0-5) 0.9                         |              |

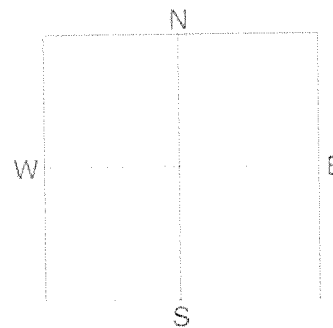
General Comments: Medium-textured (CEC: 11-30 meq)  
Percent hydrogen is estimated from water pH, CEC corrected for exchangeable acidity.



Soil Analysis by Agvise Laboratories  
(<http://www.agvise.com>)  
Northwood: (701) 587-6010  
Benson: (320) 843-4109

**SOIL TEST REPORT**

FIELD ID **212**  
 SAMPLE ID **3 G**  
 FIELD NAME  
 COUNTY **3**  
 TWP **1** RANGE  
 SECTION **19** QTR **NE** ACRES **164**  
 PREV. CROP **Corn-Grain**



SUBMITTED FOR:  
**BLUMENGART COLONY**

SUBMITTED BY: **KR3239**  
**KR CROP CHECK LIMITED**  
**12085 RD 23 W (DICKENS RD**  
**BOX 240**  
**WINKLER, MB** **R6W 4A5**

REF # **20783742** BOX # **6046**  
 LAB # **NW194484**

Date Sampled **10/16/2023** Date Received **10/17/2023** Date Reported **10/20/2023**

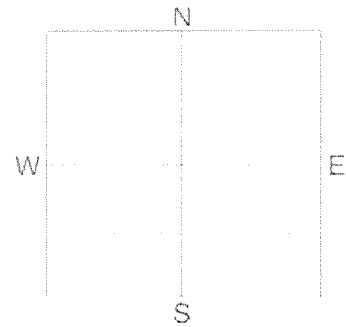
| Nutrient In The Soil |              | Interpretation |     |     |      | 1st Crop Choice               |  |             | 2nd Crop Choice               |                                   |             | 3rd Crop Choice               |       |             |
|----------------------|--------------|----------------|-----|-----|------|-------------------------------|--|-------------|-------------------------------|-----------------------------------|-------------|-------------------------------|-------|-------------|
|                      |              | VLow           | Low | Med | High | YIELD GOAL                    |  |             | YIELD GOAL                    |                                   |             | YIELD GOAL                    |       |             |
| 0-6"                 | 16 lb/acre   | *****          |     |     |      | SUGGESTED GUIDELINES          |  |             | SUGGESTED GUIDELINES          |                                   |             | SUGGESTED GUIDELINES          |       |             |
| 0-24"                | 24 lb/acre   |                |     |     |      | LB/ACRE                       |  | APPLICATION | LB/ACRE                       |                                   | APPLICATION | LB/ACRE                       |       | APPLICATION |
| Nitrate              |              |                |     |     |      | N                             |  |             | N                             |                                   |             | N                             |       |             |
| Olsen                | 38 ppm       | *****          |     |     |      | P <sub>2</sub> O <sub>5</sub> |  |             | P <sub>2</sub> O <sub>5</sub> |                                   |             | P <sub>2</sub> O <sub>5</sub> |       |             |
| Phosphorus           |              | *****          |     |     |      | K <sub>2</sub> O              |  |             | K <sub>2</sub> O              |                                   |             | K <sub>2</sub> O              |       |             |
| Potassium            | 311 ppm      | *****          |     |     |      | Cl                            |  |             | Cl                            |                                   |             | Cl                            |       |             |
| Chloride             |              | *****          |     |     |      | S                             |  |             | S                             |                                   |             | S                             |       |             |
| 0-6"                 | 120 +lb/acre | *****          |     |     |      | B                             |  |             | B                             |                                   |             | B                             |       |             |
| 0-24"                | 480 +lb/acre | *****          |     |     |      | Zn                            |  |             | Zn                            |                                   |             | Zn                            |       |             |
| Sulfur               |              | *****          |     |     |      | Fe                            |  |             | Fe                            |                                   |             | Fe                            |       |             |
| Boron                | 1.8 ppm      | *****          |     |     |      | Mn                            |  |             | Mn                            |                                   |             | Mn                            |       |             |
| Zinc                 | 3.11 ppm     | *****          |     |     |      | Cu                            |  |             | Cu                            |                                   |             | Cu                            |       |             |
| Iron                 | 22.3 ppm     | *****          |     |     |      | Mg                            |  |             | Mg                            |                                   |             | Mg                            |       |             |
| Manganese            | 2.2 ppm      | *****          |     |     |      | Lime                          |  |             | Lime                          |                                   |             | Lime                          |       |             |
| Copper               | 1.4 ppm      | *****          |     |     |      |                               |  |             |                               |                                   |             |                               |       |             |
| Magnesium            | 798 ppm      | *****          |     |     |      |                               |  |             |                               |                                   |             |                               |       |             |
| Calcium              | 5434 ppm     | *****          |     |     |      |                               |  |             |                               |                                   |             |                               |       |             |
| Sodium               | 96 ppm       | *****          |     |     |      |                               |  |             |                               |                                   |             |                               |       |             |
| Org.Matter           | 5.5 %        | *****          |     |     |      |                               |  |             |                               |                                   |             |                               |       |             |
| Carbonate(CCE)       | 1.2 %        | *****          |     |     |      |                               |  |             |                               |                                   |             |                               |       |             |
| 0-6"                 | 0.99 mmho/cm | *****          |     |     |      |                               |  |             |                               |                                   |             |                               |       |             |
| 0-24"                | 2.58 mmho/cm | *****          |     |     |      |                               |  |             |                               |                                   |             |                               |       |             |
| Sol. Salts           |              |                |     |     |      | Soil pH                       |  | Buffer pH   | Cation Exchange Capacity      | % Base Saturation (Typical Range) |             |                               |       |             |
|                      |              |                |     |     |      | 0-6" 7.5                      |  |             | 35.0 meq                      | (65-75)                           | (15-20)     | (1-7)                         | (0-5) | (0-5)       |
|                      |              |                |     |     |      | 6-24" 7.8                     |  |             |                               | 77.6                              | 19.0        | 2.3                           | 1.2   | 0.0         |



Soil Analysis by Agvise Laboratories  
(http://www.agvise.com)  
Northwood: (701) 587-6010  
Benson: (320) 843-4109

## SOIL TEST REPORT

FIELD ID **213**  
SAMPLE ID **3 G**  
FIELD NAME  
COUNTY **3**  
TWP **1** RANGE  
SECTION **19** QTR **SW** ACRES **80**  
PREV. CROP **Beans-Edible**



SUBMITTED FOR:  
**BLUMENGART COLONY**

SUBMITTED BY: **KR3239**  
**KR CROP CHECK LIMITED**  
**12085 RD 23 W (DICKENS RD**  
**BOX 240**  
**WINKLER, MB** **R6W 4A5**

REF # **20526387** BOX # **3977**  
LAB # **NW101918**

Date Sampled **09/16/2023**

Date Received **09/18/2023**

Date Reported **09/19/2023**

| Nutrient In The Soil |       | Interpretation |     |     |      | 1st Crop Choice               |             | 2nd Crop Choice               |             | 3rd Crop Choice                   |             |
|----------------------|-------|----------------|-----|-----|------|-------------------------------|-------------|-------------------------------|-------------|-----------------------------------|-------------|
|                      |       | VLow           | Low | Med | High |                               |             |                               |             |                                   |             |
| Nitrate              | 0-6"  | 57 lb/acre     |     |     |      | YIELD GOAL                    |             | YIELD GOAL                    |             | YIELD GOAL                        |             |
|                      | 0-24" | 108 lb/acre    |     |     |      | SUGGESTED GUIDELINES          |             | SUGGESTED GUIDELINES          |             | SUGGESTED GUIDELINES              |             |
|                      |       |                |     |     |      | LB/ACRE                       | APPLICATION | LB/ACRE                       | APPLICATION | LB/ACRE                           | APPLICATION |
|                      |       |                |     |     |      | N                             |             | N                             |             | N                                 |             |
| Olsen                |       | 45 ppm         |     |     |      | P <sub>2</sub> O <sub>5</sub> |             | P <sub>2</sub> O <sub>5</sub> |             | P <sub>2</sub> O <sub>5</sub>     |             |
| Phosphorus           |       |                |     |     |      | K <sub>2</sub> O              |             | K <sub>2</sub> O              |             | K <sub>2</sub> O                  |             |
| Potassium            |       | 360 ppm        |     |     |      | Cl                            |             | Cl                            |             | Cl                                |             |
| Chloride             |       |                |     |     |      | S                             |             | S                             |             | S                                 |             |
| Sulfur               | 0-6"  | 74 lb/acre     |     |     |      | B                             |             | B                             |             | B                                 |             |
|                      | 0-24" | 480 +lb/acre   |     |     |      | Zn                            |             | Zn                            |             | Zn                                |             |
| Boron                |       | 1.8 ppm        |     |     |      | Fe                            |             | Fe                            |             | Fe                                |             |
| Zinc                 |       | 3.80 ppm       |     |     |      | Mn                            |             | Mn                            |             | Mn                                |             |
| Iron                 |       | 21.8 ppm       |     |     |      | Cu                            |             | Cu                            |             | Cu                                |             |
| Manganese            |       | 3.0 ppm        |     |     |      | Mg                            |             | Mg                            |             | Mg                                |             |
| Copper               |       | 1.95 ppm       |     |     |      | Lime                          |             | Lime                          |             | Lime                              |             |
| Magnesium            |       | 864 ppm        |     |     |      |                               |             |                               |             |                                   |             |
| Calcium              |       | 5650 ppm       |     |     |      | Soil pH                       |             | Cation Exchange               |             | % Base Saturation (Typical Range) |             |
| Sodium               |       | 72 ppm         |     |     |      | Buffer pH                     |             | Capacity                      |             | % Ca                              | % Mg        |
| Org.Matter           |       | 5.4 %          |     |     |      |                               |             |                               |             | % K                               | % Na        |
| Carbonate(CCE)       |       | 1.2 %          |     |     |      |                               |             |                               |             | % H                               |             |
| Sol. Salts           | 0-6"  | 0.72 mmho/cm   |     |     |      | 0-6" 7.7                      |             | 36.7 meq                      | (65-75)     | (15-20)                           | (1-7)       |
|                      | 0-24" | 2.13 mmho/cm   |     |     |      | 6-24" 7.7                     |             |                               | 77.0        | 19.6                              | 2.5         |

General Comments: Soil texture is not estimated on high pH soils.

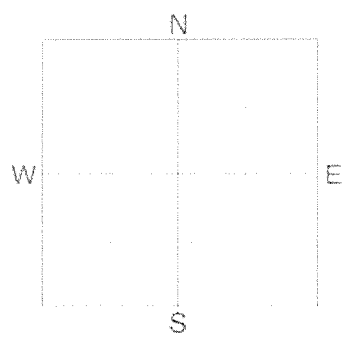




Soil Analysis by Agvise Laboratories  
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Northwood: (701) 587-6010  
Benson: (320) 843-4109

**SOIL TEST REPORT**

FIELD ID **214**  
 SAMPLE ID  
 FIELD NAME  
 COUNTY **3**  
 TWP **1** RANGE  
 SECTION **30** QTR **SE** ACRES **40**  
 PREV. CROP **Corn-Grain**



SUBMITTED FOR:  
**BLUMENGART COLONY**

SUBMITTED BY: **KR3239**  
**KR CROP CHECK LIMITED**  
**12085 RD 23 W (DICKENS RD**  
**BOX 240**  
**WINKLER, MB** **R6W 4A5**

REF # **19502800** BOX # **6042**  
 LAB # **NW194463**

Date Sampled **10/16/2023** Date Received **10/17/2023** Date Reported **10/20/2023**

| Nutrient In The Soil |                                         | Interpretation |     |     |      | 1st Crop Choice               |  |             | 2nd Crop Choice               |  |                                   | 3rd Crop Choice               |              |              |              |
|----------------------|-----------------------------------------|----------------|-----|-----|------|-------------------------------|--|-------------|-------------------------------|--|-----------------------------------|-------------------------------|--------------|--------------|--------------|
|                      |                                         | VLow           | Low | Med | High | YIELD GOAL                    |  |             | YIELD GOAL                    |  |                                   | YIELD GOAL                    |              |              |              |
| Nitrate              | 0-6" 27 lb/acre                         |                |     |     |      | SUGGESTED GUIDELINES          |  |             | SUGGESTED GUIDELINES          |  |                                   | SUGGESTED GUIDELINES          |              |              |              |
|                      | 0-24" 36 lb/acre                        |                |     |     |      | LB/ACRE                       |  | APPLICATION | LB/ACRE                       |  | APPLICATION                       | LB/ACRE                       |              | APPLICATION  |              |
|                      |                                         |                |     |     |      | N                             |  |             | N                             |  |                                   | N                             |              |              |              |
|                      |                                         |                |     |     |      | P <sub>2</sub> O <sub>5</sub> |  |             | P <sub>2</sub> O <sub>5</sub> |  |                                   | P <sub>2</sub> O <sub>5</sub> |              |              |              |
| Phosphorus           | Olsen 37 ppm                            |                |     |     |      | K <sub>2</sub> O              |  |             | K <sub>2</sub> O              |  |                                   | K <sub>2</sub> O              |              |              |              |
| Potassium            | 221 ppm                                 |                |     |     |      | Cl                            |  |             | Cl                            |  |                                   | Cl                            |              |              |              |
| Chloride             | 0-24" 264 lb/acre                       |                |     |     |      | S                             |  |             | S                             |  |                                   | S                             |              |              |              |
| Sulfur               | 0-6" 120 +lb/acre<br>0-24" 480 +lb/acre |                |     |     |      | B                             |  |             | B                             |  |                                   | B                             |              |              |              |
| Boron                | 1.4 ppm                                 |                |     |     |      | Zn                            |  |             | Zn                            |  |                                   | Zn                            |              |              |              |
| Zinc                 | 3.63 ppm                                |                |     |     |      | Fe                            |  |             | Fe                            |  |                                   | Fe                            |              |              |              |
| Iron                 | 20.9 ppm                                |                |     |     |      | Mn                            |  |             | Mn                            |  |                                   | Mn                            |              |              |              |
| Manganese            | 1.9 ppm                                 |                |     |     |      | Cu                            |  |             | Cu                            |  |                                   | Cu                            |              |              |              |
| Copper               | 1.08 ppm                                |                |     |     |      | Mg                            |  |             | Mg                            |  |                                   | Mg                            |              |              |              |
| Magnesium            | 641 ppm                                 |                |     |     |      | Lime                          |  |             | Lime                          |  |                                   | Lime                          |              |              |              |
| Calcium              | 4752 ppm                                |                |     |     |      |                               |  |             |                               |  |                                   |                               |              |              |              |
| Sodium               | 44 ppm                                  |                |     |     |      |                               |  |             |                               |  |                                   |                               |              |              |              |
| Org.Matter           | 4.6 %                                   |                |     |     |      | Soil pH                       |  | Buffer pH   | Cation Exchange Capacity      |  | % Base Saturation (Typical Range) |                               |              |              |              |
| Carbonate(CCE)       | 0.7 %                                   |                |     |     |      | 0-6" 7.7<br>6-24" 8.0         |  |             | 29.9 meq                      |  | (65-75)<br>79.6                   | (15-20)<br>17.9               | (1-7)<br>1.9 | (0-5)<br>0.6 | (0-5)<br>0.0 |
| Sol. Salts           | 0-6" 0.71 mmho/cm<br>0-24" 1.85 mmho/cm |                |     |     |      |                               |  |             |                               |  |                                   |                               |              |              |              |

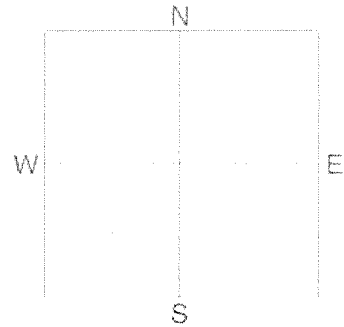
General Comments: Soil texture is not estimated on high pH soils.



Soil Analysis by Agvise Laboratories  
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Northwood: (701) 587-6010  
Benson: (320) 843-4109

## SOIL TEST REPORT

FIELD ID **215**  
SAMPLE ID  
FIELD NAME  
COUNTY **3**  
TWP **1** RANGE  
SECTION **30** QTR **NW** ACRES **80**  
PREV. CROP **Wheat-Spring**



SUBMITTED FOR:  
**BLUMENGART COLONY**

SUBMITTED BY: **KR3239**  
**KR CROP CHECK LIMITED**  
**12085 RD 23 W (DICKENS RD**  
**BOX 240**  
**WINKLER, MB** **R6W 4A5**

REF # **19502666** BOX # **3775**  
LAB # **NW98945**

Date Sampled **09/15/2023**

Date Received **09/16/2023**

Date Reported **09/19/2023**

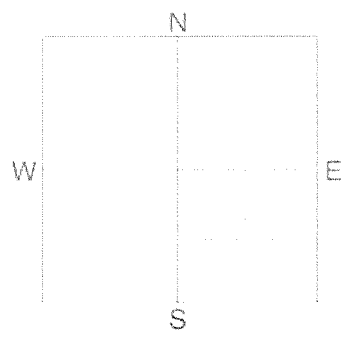
| Nutrient In The Soil |              | Interpretation |     |     |      | 1st Crop Choice               |             | 2nd Crop Choice               |                                   |                               | 3rd Crop Choice      |       |       |
|----------------------|--------------|----------------|-----|-----|------|-------------------------------|-------------|-------------------------------|-----------------------------------|-------------------------------|----------------------|-------|-------|
|                      |              | VLow           | Low | Med | High |                               |             |                               |                                   |                               |                      |       |       |
| 0-6"                 | 23 lb/acre   |                |     |     |      | YIELD GOAL                    |             | YIELD GOAL                    |                                   |                               | YIELD GOAL           |       |       |
| 0-24"                | 32 lb/acre   |                |     |     |      | SUGGESTED GUIDELINES          |             | SUGGESTED GUIDELINES          |                                   |                               | SUGGESTED GUIDELINES |       |       |
| Nitrate              |              |                |     |     |      | LB/ACRE                       | APPLICATION | LB/ACRE                       | APPLICATION                       | LB/ACRE                       | APPLICATION          |       |       |
|                      |              |                |     |     |      | N                             |             | N                             |                                   | N                             |                      |       |       |
|                      | Olsen        | 29 ppm         |     |     |      | P <sub>2</sub> O <sub>5</sub> |             | P <sub>2</sub> O <sub>5</sub> |                                   | P <sub>2</sub> O <sub>5</sub> |                      |       |       |
|                      | Phosphorus   |                |     |     |      | K <sub>2</sub> O              |             | K <sub>2</sub> O              |                                   | K <sub>2</sub> O              |                      |       |       |
| Potassium            | 477 ppm      |                |     |     |      |                               |             |                               |                                   |                               |                      |       |       |
| 0-24"                | 184 lb/acre  |                |     |     |      | Cl                            |             | Cl                            |                                   | Cl                            |                      |       |       |
| Chloride             |              |                |     |     |      | S                             |             | S                             |                                   | S                             |                      |       |       |
|                      | 0-6"         | 70 lb/acre     |     |     |      | B                             |             | B                             |                                   | B                             |                      |       |       |
| 0-24"                | 480 +lb/acre |                |     |     |      | Zn                            |             | Zn                            |                                   | Zn                            |                      |       |       |
| Sulfur               |              |                |     |     |      | Fe                            |             | Fe                            |                                   | Fe                            |                      |       |       |
| Boron                | 2.0 ppm      |                |     |     |      | Mn                            |             | Mn                            |                                   | Mn                            |                      |       |       |
| Zinc                 | 2.70 ppm     |                |     |     |      | Cu                            |             | Cu                            |                                   | Cu                            |                      |       |       |
| Iron                 | 20.3 ppm     |                |     |     |      | Mg                            |             | Mg                            |                                   | Mg                            |                      |       |       |
| Manganese            | 1.7 ppm      |                |     |     |      | Lime                          |             | Lime                          |                                   | Lime                          |                      |       |       |
| Copper               | 2.61 ppm     |                |     |     |      |                               |             |                               |                                   |                               |                      |       |       |
| Magnesium            | 819 ppm      |                |     |     |      |                               |             |                               |                                   |                               |                      |       |       |
| Calcium              | 6644 ppm     |                |     |     |      |                               |             |                               |                                   |                               |                      |       |       |
| Sodium               | 85 ppm       |                |     |     |      |                               |             |                               |                                   |                               |                      |       |       |
| Org.Matter           | 6.3 %        |                |     |     |      |                               |             |                               |                                   |                               |                      |       |       |
| Carbonate(CCE)       | 3.0 %        |                |     |     |      |                               |             |                               |                                   |                               |                      |       |       |
| 0-6"                 | 0.74 mmho/cm |                |     |     |      | Soil pH                       | Buffer pH   | Cation Exchange Capacity      | % Base Saturation (Typical Range) |                               |                      |       |       |
| 0-24"                | 1.27 mmho/cm |                |     |     |      |                               |             |                               | % Ca                              | % Mg                          | % K                  | % Na  | % H   |
| Sol. Salts           |              |                |     |     |      | 0-6" 7.9                      |             | 41.6 meq                      | (65-75)                           | (15-20)                       | (1-7)                | (0-5) | (0-5) |
|                      |              |                |     |     |      | 6-24" 8.0                     |             |                               | 79.8                              | 16.4                          | 2.9                  | 0.9   | 0.0   |

General Comments: Soil texture is not estimated on high pH soils.



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Benson: (320) 843-4109

| SOIL TEST REPORT |              |       |             |
|------------------|--------------|-------|-------------|
| FIELD ID         | 216          |       |             |
| SAMPLE ID        |              |       |             |
| FIELD NAME       |              |       |             |
| COUNTY           | 3            |       |             |
| TWP              | 2            | RANGE |             |
| SECTION          | 6            | QTR   | SE ACRES 55 |
| PREV. CROP       | Wheat-Spring |       |             |



SUBMITTED FOR:  
**BLUMENGART COLONY**

SUBMITTED BY: **KR3239**  
**KR CROP CHECK LIMITED**  
**12085 RD 23 W (DICKENS RD**  
**BOX 240**  
**WINKLER, MB R6W 4A5**

REF # **19502667** BOX # **3764**  
LAB # **NW98947**

Date Sampled **09/15/2023** Date Received **09/16/2023** Date Reported **09/19/2023**

| Nutrient In The Soil |            | Interpretation |     |     |      | 1st Crop Choice               |             | 2nd Crop Choice               |             | 3rd Crop Choice               |             |
|----------------------|------------|----------------|-----|-----|------|-------------------------------|-------------|-------------------------------|-------------|-------------------------------|-------------|
|                      |            | VLow           | Low | Med | High |                               |             |                               |             |                               |             |
| Nitrate              | 0-6"       | 13 lb/acre     |     |     |      | YIELD GOAL                    |             | YIELD GOAL                    |             | YIELD GOAL                    |             |
|                      | 0-24"      | 20 lb/acre     |     |     |      | SUGGESTED GUIDELINES          |             | SUGGESTED GUIDELINES          |             | SUGGESTED GUIDELINES          |             |
|                      |            |                |     |     |      | LB/ACRE                       | APPLICATION | LB/ACRE                       | APPLICATION | LB/ACRE                       | APPLICATION |
|                      |            |                |     |     |      | N                             |             | N                             |             | N                             |             |
| Phosphorus           | Olsen      | 27 ppm         |     |     |      | P <sub>2</sub> O <sub>5</sub> |             | P <sub>2</sub> O <sub>5</sub> |             | P <sub>2</sub> O <sub>5</sub> |             |
|                      | Potassium  | 331 ppm        |     |     |      | K <sub>2</sub> O              |             | K <sub>2</sub> O              |             | K <sub>2</sub> O              |             |
| Chloride             | 0-24"      | 220 lb/acre    |     |     |      | Cl                            |             | Cl                            |             | Cl                            |             |
|                      | 0-6"       | 36 lb/acre     |     |     |      | S                             |             | S                             |             | S                             |             |
| Sulfur               | 0-24"      | 480 +lb/acre   |     |     |      | B                             |             | B                             |             | B                             |             |
|                      | Boron      | 1.2 ppm        |     |     |      | Zn                            |             | Zn                            |             | Zn                            |             |
| Zinc                 |            | 2.40 ppm       |     |     |      | Fe                            |             | Fe                            |             | Fe                            |             |
|                      | Iron       | 31.2 ppm       |     |     |      | Mn                            |             | Mn                            |             | Mn                            |             |
| Manganese            |            | 3.1 ppm        |     |     |      | Cu                            |             | Cu                            |             | Cu                            |             |
|                      | Copper     | 1.94 ppm       |     |     |      | Mg                            |             | Mg                            |             | Mg                            |             |
| Magnesium            |            | 842 ppm        |     |     |      | Lime                          |             | Lime                          |             | Lime                          |             |
|                      | Calcium    | 5411 ppm       |     |     |      |                               |             |                               |             |                               |             |
| Sodium               |            | 46 ppm         |     |     |      |                               |             |                               |             |                               |             |
|                      | Org.Matter | 5.3 %          |     |     |      |                               |             |                               |             |                               |             |
| Carbonate(CCE)       |            | 0.7 %          |     |     |      |                               |             |                               |             |                               |             |
|                      |            |                |     |     |      |                               |             |                               |             |                               |             |
| Sol. Salts           | 0-6"       | 0.45 mmho/cm   |     |     |      |                               |             |                               |             |                               |             |
|                      | 0-24"      | 1.37 mmho/cm   |     |     |      |                               |             |                               |             |                               |             |

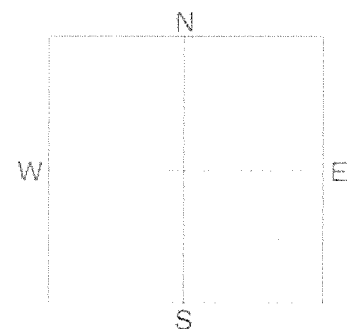
General Comments: Fine-textured (CEC: 31+ meq)



Soil Analysis by Agvise Laboratories  
(<http://www.agvise.com>)  
Northwood: (701) 587-6010  
Benson: (320) 843-4109

**SOIL TEST REPORT**

FIELD ID **217**  
 SAMPLE ID **ROSETOWN**  
 FIELD NAME  
 COUNTY **3**  
 TWP **1** RANGE  
 SECTION **24** QTR **SW** ACRES **30**  
 PREV. CROP **Corn-Grain**



SUBMITTED FOR:  
**BLUMENGART COLONY**

SUBMITTED BY: **KR3239**  
**KR CROP CHECK LIMITED**  
**12085 RD 23 W (DICKENS RD**  
**BOX 240**  
**WINKLER, MB R6W 4A5**

REF # **20453949** BOX # **11160**  
 LAB # **NW203212**

Date Sampled **10/18/2023** Date Received **10/19/2023** Date Reported **10/24/2023**

| Nutrient In The Soil |            | Interpretation |     |     |      | 1st Crop Choice                                      |             | 2nd Crop Choice                   |              | 3rd Crop Choice               |             |           |           |
|----------------------|------------|----------------|-----|-----|------|------------------------------------------------------|-------------|-----------------------------------|--------------|-------------------------------|-------------|-----------|-----------|
|                      |            | VLow           | Low | Med | High |                                                      |             |                                   |              |                               |             |           |           |
| 0-6"                 | 34 lb/acre |                |     |     |      | YIELD GOAL                                           |             | YIELD GOAL                        |              | YIELD GOAL                    |             |           |           |
| 0-24"                | 84 lb/acre |                |     |     |      | SUGGESTED GUIDELINES                                 |             | SUGGESTED GUIDELINES              |              | SUGGESTED GUIDELINES          |             |           |           |
| Nitrate              |            |                |     |     |      | LB/ACRE                                              | APPLICATION | LB/ACRE                           | APPLICATION  | LB/ACRE                       | APPLICATION |           |           |
|                      |            |                |     |     |      | N                                                    |             | N                                 |              | N                             |             |           |           |
| Olsen                | 16 ppm     |                |     |     |      | P <sub>2</sub> O <sub>5</sub>                        |             | P <sub>2</sub> O <sub>5</sub>     |              | P <sub>2</sub> O <sub>5</sub> |             |           |           |
| Phosphorus           |            |                |     |     |      | K <sub>2</sub> O                                     |             | K <sub>2</sub> O                  |              | K <sub>2</sub> O              |             |           |           |
| Potassium            | 170 ppm    |                |     |     |      | Cl                                                   |             | Cl                                |              | Cl                            |             |           |           |
| Chloride             | 0-24"      | 544 lb/acre    |     |     |      | S                                                    |             | S                                 |              | S                             |             |           |           |
| Sulfur               | 0-6"       | 120 +lb/acre   |     |     |      | B                                                    |             | B                                 |              | B                             |             |           |           |
|                      | 0-24"      | 480 +lb/acre   |     |     |      | Zn                                                   |             | Zn                                |              | Zn                            |             |           |           |
| Boron                | 2.0 ppm    |                |     |     |      | Fe                                                   |             | Fe                                |              | Fe                            |             |           |           |
| Zinc                 | 2.03 ppm   |                |     |     |      | Mn                                                   |             | Mn                                |              | Mn                            |             |           |           |
| Iron                 | 7.5 ppm    |                |     |     |      | Cu                                                   |             | Cu                                |              | Cu                            |             |           |           |
| Manganese            | 2.3 ppm    |                |     |     |      | Mg                                                   |             | Mg                                |              | Mg                            |             |           |           |
| Copper               | 0.64 ppm   |                |     |     |      | Lime                                                 |             | Lime                              |              | Lime                          |             |           |           |
| Magnesium            | 638 ppm    |                |     |     |      | Soil pH      Buffer pH      Cation Exchange Capacity |             | % Base Saturation (Typical Range) |              |                               |             |           |           |
| Calcium              | 5008 ppm   |                |     |     |      |                                                      |             | % Ca                              | % Mg         | % K                           | % Na        | % H       |           |
| Sodium               | 132 ppm    |                |     |     |      | 0-6" 7.9                                             |             | 31.4 meq                          | (65-75) 79.8 | (15-20) 17.0                  | (1-7) 1.4   | (0-5) 1.8 | (0-5) 0.0 |
| Org.Matter           | 3.7 %      |                |     |     |      | 6-24" 8.0                                            |             |                                   |              |                               |             |           |           |
| Carbonate(CCE)       | 1.8 %      |                |     |     |      |                                                      |             |                                   |              |                               |             |           |           |
| Sol. Salts           | 0-6"       | 1.36 mmho/cm   |     |     |      |                                                      |             |                                   |              |                               |             |           |           |
|                      | 0-24"      | 2.05 mmho/cm   |     |     |      |                                                      |             |                                   |              |                               |             |           |           |

General Comments: Soil texture is not estimated on high pH soils.