

Research: Best TM Agricultural Farmer Observations

Farmers using Best TM Agricultural Soil Treatment, over the course of several years, have provided firsthand accounts of observed changes in their soil and crops. We have compiled a summary of these observed changes for your reference.

It is important to note that the results observed by farmers are not always consistent in every region. Differing soil types, variations in weather, farming practices, history of the land, crop rotation, are variable in different areas. It is recommended that farmer's take time and examine their soil and crops prior to the application of Best TM Agriculture, in order to observe the effects.

Soil Changes

Noticeable changes to the soil often occur within the first year of application.

- *Dennis from Arelee, Saskatchewan* has been using TM Agricultural for 2 years on all of his land. Over the past 2 years, on several occasions, Dennis has gone out and dug up his soil to inspect. He has noticed that the soil is looser/mellower compared to the adjoining land that did not have TM Agricultural treatment. In the past year he has started to find earthworms in his soil. He has never seen earthworms in his soil since he began farming the land. The crops he has taken off in the past 2 years have been of excellent quality and in most instances, have yielded better than the area average.
- *Andy from Kindersley, Saskatchewan* has also been using TM Agricultural on his land for the past 3 years. He has noticed a significant reduction in alkali patches which have either shrunk or disappeared. Andy is now producing crops in areas where previously he has been unable. The soil has become looser and is less compact. Andy has been conducting his own soil tests on his land. He has recorded a dramatic reduction in the amount of sodium (Na) and has also found that organic matter has increased following treatment with TM Agricultural. He is extremely happy with how the TM Agricultural product has performed.
- *Chad from Beechy, Saskatchewan* used TM Agricultural on half of a ¼ section of wheat. Although there was very little yield difference between the 2 sides, Chad did soil tests on each ½ of the field and found significant differences. The results were as follows:

	Nitrogen (N)	Phosphorus (P)	Potassium (K)	pH	Organic Matter
TM Agricultural Treated Side	43 lbs	58 lbs	>1200	6.9	3.0
Control Side	11 lbs	21 lbs	771	7.7	1.6

Most of the micronutrients on the TM Agricultural side were 2-3 times higher in availability than on the control side.

- *Jim from Rosetown, Saskatchewan* has been using TM Agricultural on his land for 4 years. He has been doing soil tests on the land every fall since he started using TM Agricultural. In the last 3 years Jim has taken off very large crops and has found his residual N, P, and K to be a lot higher than when he started using TM Agricultural.

	Nitrogen (N)	Phosphorus (P)	Potassium (K)
2005 on NE 8 25 12 W3	5 lbs	9 lbs	701
2008 on NE 8 25 12 W3	49 lbs	49 lbs	1080

Alkali and Saline Soils

- *Gerald from Hazlet, Saskatchewan* used TM Agricultural for the first time and commented that his durum and oats all grew in the alkali patches where normally it does not grow. In 2008 on NE 8 25 12 W3, previous crop was wheat: N 49 lbs P 49 lbs K>1080.
- *Roy from McMahan, Saskatchewan* has a lot of hardpan patches in some of his fields. After his 2nd year of using TM Agricultural, he noticed that these areas are starting to get smaller in size. The ground is becoming mellower.
- *Donavin from Cudworth, Saskatchewan* used TM Agricultural for the first time in 2007 and noted that his barley grew very well in heavy salinity where it previously would not grow.
- *Les from Dysart, Saskatchewan* noticed better emergence in his oats on alkali where he applied TM Agricultural for the first time.
- *Corey from Richmond, Saskatchewan* has been using TM Agricultural for 3 years and has witnessed a significant improvement on his land that which has alkali patches. He commented that everything is growing in those alkali areas where prior to using TM Agricultural he had a difficult time establishing crops in those areas. Corey said that the wheat where TM Agricultural was applied out yielded the wheat that was not treated.
- *Dale and Jeremy from Beechy, Saskatchewan* saw their durum growing in very bad alkali areas where normally, nothing grows. All of this land had TM Agricultural applied for 2 years.
- *Terry from Foam Lake, Saskatchewan* used TM Agricultural on fields of canola. He specifically targeted land with heavy alkali issues. Following the first treatment he noticed germination and crop growth in alkali areas which previously provided no growth.

- *Mark and Stacy from Wishart, Saskatchewan* used TM Agricultural for the first time in 2009. They had some bad saline ground along the road that was not growing anything for quite a few years. The affected area had also been getting larger over time. In 2010 we did a crop check with them and specifically looked at that field. They had wheat in last year and they couldn't believe how much of the affected area was growing a wheat crop within the first year of use.
- *Richard from Shaunovan, Saskatchewan* used TM Agricultural for the first time in 2009. They applied to land that had a bad corner growing only foxtail barley due to high alkaline soil conditions. Following treatment durum started growing in nearly all of the affected area. The durum was thinner than the rest of the crop, however Richard was very impressed with the growth and how little fox tail barley was actually growing in that spot.

Wheat and Durum

- *Aaron from Lucky Lake, Saskatchewan* used TM Agricultural on half of a field of wheat. He noted thicker stalks in the wheat and a better root system where TM Agricultural was applied. He had 4 lbs heavier bushel weight on the wheat where TM Agricultural was applied.
- *Travis from Lucky Lake, Saskatchewan* used TM Agricultural for the first time in 2008. He cut a field of wheat in half and added TM Agricultural to the one side. He had a 2bu/acre yield increase on the TM Agricultural side vs. the control.
- *Adam from Beechy, Saskatchewan* had a field of wheat that was on flax stubble. This was the 2nd year this field had TM Agricultural applied. It turned out to be the best yielding wheat crop on his whole farm. It yielded between 42-43 bu/acre. The adjacent wheat field planted on pea stubble yielded about 35-36 bu/acre. TM Agricultural was applied to this field for only 1 year.
- *Clinton from Admiral, Saskatchewan*, used TM Agricultural for the first time on wheat. He measured 3-4lbs heavier bushel weights on the side of the field treated with TM Agricultural vs. the control side.
- *Jeff from Kindersley, Saskatchewan* has used TM Agricultural on his land for 2 years. He grew some durum on canola stubble. The land is very poor and is right across from a community pasture. The landlord he is renting the land from told him it was the nicest crop he had seen on that land in 50 years. It out yielded all the wheat and durum in the area that was on chemfallow.

- *Dave from Elrose, Saskatchewan* has been using TM Agricultural for 3 years on all his land. He had yields on his wheat (on chemfallow) that were higher than he has ever had on his farm. Some of his wheat ran 65bu/acre with only 3 ½ inches of rain. His durum graded a # 1. Dave also had no ergot in his durum. Neighbors of his had severe downgrades in their durum because of ergot.
- *Ken from Duperow, Saskatchewan* used TM Agricultural for the first time on a wheat crop. Both Ken and his agrologist spent a lot of time in the fields comparing the wheat with and without TM Agricultural. They noticed that the TM Agricultural treated wheat had larger leaves and heads. The crops ran better than where it was not used. The land where the wheat was treated is light land and he was extremely happy with the yields for such light, poor land.
- *John from Allan, Saskatchewan* had a wheat field that was on land treated with TM Agricultural for 2 years. He noted that the soil was a lot easier to dig into in July than neighboring untreated fields. It was a nice crop of wheat that produced a better sample when compared with other wheat fields managed by John.

Barley

- *Jim from Rosetown, Saskatchewan* used TM Agricultural for 3 years. In 2007 he grew some 2 and 6 row barley. He put on 2 applications of TM Agricultural and did not use any fungicides on the seed. Jim noted that he had no disease and all of his barley went malt. He was very pleased with his yields.
- *Darin and Norman from Flaxcombe, Saskatchewan* have been using TM Agricultural on the farm for 4 years. They grew barley this year without using fungicides and had excellent yields and no disease issues.
- *Al from Kindersley, Saskatchewan* has been using TM Agricultural for 2 years. The barley where he applied TM Agricultural had no other products placed on the seed and no fungicides were sprayed on the crop. The barley that was untreated had a fungicide put on the seed and a fungicide application sprayed on the crop. Al's barley where TM Agricultural was applied had no disease, ran 3-4 bu/acre better, had a plumpness of 88 vs. 75 and had a bushel weight of 49.2 lbs vs. 45.3 lbs. The moisture on the treated barley was 0.2 dryer.
- *Stephen from Dysart, Saskatchewan* used TM Agricultural for the first time this year. He runs the exhaust system. He seeded a ¼ of barley and then seeded 50 acres of barley right next to his ¼ for his neighbor. Stephen put TM Agricultural on his barley seed and sprayed it again in crop with the herbicide. The neighbor did not use TM Agricultural. Stephen said that his barley looked healthier all year. His neighbor had to put an application of fungicide on his barley

because of leaf disease. Stephen had no disease issues. Stephen's barley yielded about 10 bu/acre more than the neighbors.

- *Jeff from Kindersley, Saskatchewan* has used TM Agricultural on his land for 2 years. His barley on canola stubble was excellent and looked great all year. He said he would not have traded his crops for any of the neighbors.
- *Chris from Young, Saskatchewan* has been using TM Agricultural for 3 years on most of his land. He has found that his soil is a lot softer/mellower where he has used TM Agricultural. Chris had 2 fields of Copeland barley side by side. Same fertilizer rates on both and seeded the same day. The land that had been treated for 3 years ran 10 bu/acre better than the untreated land. He noted that the stubble on the treated field had a deep gold color to it, while the untreated field's stubble was duller and whiter looking.

Oats

- *Peter from Cupar, Saskatchewan* runs the exhaust system and used TM Agricultural this year. His oats with TM Agricultural yielded 4-5 bu/acre more than his oats without.
- *Harley from Cudworth, Saskatchewan* used TM Agricultural for the first time in 2007. His oats where TM Agricultural was applied were plumper than his non-treated oats and he had no disease in his crop.
- *Rod from Waldheim, Saskatchewan* used TM Agricultural for the first time and had a better yielding oat crop where the TM Agricultural was applied vs. where it was not applied.
- *Ralph from Preeceville, Saskatchewan* used TM Agricultural for the first time this year. Where he applied CFF, the oats had much thicker stalks and wider leaves than where he didn't apply TM Agricultural. He also noted that the oats he got the 2 applications of TM Agricultural on yielded noticeably better than the oats that only received 1 application.
- *Maurice from Govan, Saskatchewan* used TM Agricultural for the first time on some of his land. When doing a crop check, he noted much thicker stalks on the treated side.

Canola

- *Bob from Lucky Lake, Saskatchewan* used TM Agricultural for the first time on some irrigated canola. Where he applied TM Agricultural he reduced his actual N by 10 lbs. He noted that there was no yield difference between the two sides of the field.

- *Mike from Cut Knife, Saskatchewan* treated some of his canola this year with TM Agricultural for the first time. The treated canola had bigger kernels and a lot blacker sample. He said he didn't have to label the sample pails to know which sample was treated with TM Agricultural.
- *Jeff from Allan, Saskatchewan* reduced his actual N on the canola he treated with TM Agricultural by 20 lbs, to about 80 lbs of actual N. He found no yield difference between the lower N and TM Agricultural vs. the 100 lbs of N alone.
- *Maurice from Govan, Saskatchewan* used TM Agricultural on the same ¼'s for a second year. The canola on 2nd year treated land yielded 55 bu/acre. This was the highest yield his farm has ever seen. His untreated canola right next to it yielded 45-48 bu/acre tops.
- *Jeff from Kindersley, Saskatchewan* has used TM Agricultural on his land for 2 years. He said he wouldn't have traded his canola for anyone else's. He noted that he had large full pods and that the podding was very good from the lower portion to the top tip of the plants.
- *Gerald from Delisle, Saskatchewan* has used TM Agricultural on some of his land for 3 years. He noted that the canola on 3rd year treated land yielded better than any of his other canola fields.
- *Ralph from Preeceville, Saskatchewan* used TM Agricultural for the first time this year. He noted that unlike his neighbors, he did not need to spray any of his canola on the treated land for bertha armyworms.
- *Kevin from Govan, Saskatchewan* used TM Agricultural for the first time this year. The canola where he applied TM Agricultural was on the worst land he owned, and he said that it yielded as well as his canola on better land.
- *John from Allan, Saskatchewan* has been using TM Agricultural for 3 years. In 2006, his canola treated with TM Agricultural yielded 4-5 bu/acre better than all the rest of his untreated canola. In 2007, his canola on first year CFF treated land yielded 2 bu/acre better than the other side of the field that was not treated.

Peas and Lentils

- *Darin from Flaxcombe, Saskatchewan* has been using TM Agricultural for 3 years. His peas this past year had an average yield of 42-43 bu/acre. This was quite a bit higher than the area average of 30-35 bu/acre. Most of his peas had bushel weights of 70 lbs.
- *Mark from Kenaston, Saskatchewan* grew red lentils on 3rd year treated land that yielded 29 bu/acre with no need for fungicide or insecticide applications.

- *Jim from Rosetown, Saskatchewan* grew peas and lentils on 2nd and 3rd year treated TM Agricultural land with no fertilizer that had excellent yields. The yields were significantly higher than the adjoining neighbors who were using fertilizer, but no TM Agricultural.
- *Grant from Kindersley, Saskatchewan* used TM Agricultural for the first time this year on large green lentils. He was very impressed with the TM Agricultural treated lentils. They yielded 3-4 bu/acre more than the untreated lentils.
- *Gerald from Delisle, Saskatchewan* used TM Agricultural on a partial field of peas for the first time in 2007. Where he used TM Agricultural he shut off the fertilizer. Where he didn't use TM Agricultural he put down fertilizer. The side of the field with TM Agricultural yielded 5 bu/acre more than where he did not have TM Agricultural applied.
- *Clinton from Admiral, Saskatchewan* used TM Agricultural for the first time this year. He noted that his treated chickpeas had a much better rooting system and better nodulation. He measured a ½ lb heavier bushel weight on the treated chickpeas.
- *Garry from Success, Saskatchewan* also applied TM Agricultural to a field of peas. It was his first time with the product. He noted that the peas stood up much better where the TM Agricultural was applied.
- *Dan from Beechy, Saskatchewan* grew some peas with TM Agricultural on them for the first time. His treated field yielded 4 bu/acre better than any of his other pea fields.
- *John from Allan, Saskatchewan* advised that his treated peas stood up better. He had a field of peas where TM Agricultural was applied and he said that combining them with a rigid header was a dream because the peas stood up so well.
- *Maurice from Govan, Saskatchewan* used TM Agricultural for the first time on some of his land in 2007. He had a 2 bu/acre increase on his large green lentils where he applied the TM Agricultural vs. the other side of the field where he did not. In 2008, he had large green lentils on 2nd year treated land. Again he had a 2 bu/acre yield increase.

Flax

- *Dean from Govan, Saskatchewan* applied some TM Agricultural for the first time on some of his land. The flax where he applied TM Agricultural had a much heavier stand. He knew this because he walked the entire field in July. He noted that the side where TM Agricultural was applied yielded 3-4 bu/acre better.
- *Maurice from Govan, Saskatchewan* had some flax on 2nd year treated land. The flax he treated was on very poor land compared to his other fields of flax. He said he had at least a 5 bu/acre yield increase on the flax that was treated with TM Agricultural and on poorer land.

In the Garden

- *Jonathon from Cut Knife, Saskatchewan* used TM Agricultural in most of his 50-acre garden. He had tremendous results with the different vegetables that he grew. In places where he didn't use TM Agricultural he noted diminished plant health and the produce.
- *Chris from North Battleford, Saskatchewan* used TM Agricultural in her entire garden. In a small strawberry patch she picked over 40 ice cream pails of strawberries and also had a fall picking. Something she has never had before. Her potato plants were massive with huge roots. She got a lot of potatoes out of a single plant. This was the first year in 15 years that she was able to produce a turnip crop. Usually she has a lot of maggots that destroy the turnip crop. This year there were only a few maggots found.