

Using vinegar for weed control?

By Yolanda Schmidt
County Agent

It seems like now a days you can find several home-made remedies for any problem on the internet, including weed control solutions for your backyard. After getting several calls on the topic I want to share an interesting article written by Richard Zollinger, NDSU Extension Weed Specialist, Andrew Kniss, University of Wyoming Weed Scientist and Kirk Howatt, NDSU Weed Scientist. These three weed scientists have put a common home remedy for weed control to the test - a vinegar + salt + dish soap mixture. Below is the article they wrote with their findings:

From web sources there appears to be a recipe for making your herbicide from common household products. Sources call it a "magical, natural, weed killing potion" with high "safety, effectiveness, and naturalness" and recommend as "an alternative to chemical weed killers." The recipe is a derivative of: 1/2 gallon of vinegar + 1/2 cup of salt + 2 tablespoons of dish soap. For those avoiding use of chemicals to kill weeds - vinegar and salt are chemicals! Vinegar contains acetic acid, a chemical that has been investigated by USDA and academia with herbicidal properties. It has been used as an organic herbicide. Salt (sodium chloride) is a chemical that predated 2,4-D for use as a herbicide, and soap (detergent) is another name for "surfactants" that is applied with herbicides to stick spray droplets (retention) on leaf surfaces, reduce droplet surface tension (spread the droplet), and aid forming a herbicide

deposit (close interface of the chemical active ingredients with the leaf surface). Most commercial herbicides formulated as a liquid also contain detergents/soaps (emulsifiers) for this purpose.

As this mixture of acetic acid, salt, and soap can kill many SMALL annual weeds, this presents the questions, "how does it compare to commercial herbicides - namely Roundup/glyphosate?" This question is especially relevant since several websites tout the mixture as a safe and an inexpensive alternative to glyphosate. Effectiveness is relative to the situation - the homemade herbicide can simulate glyphosate activity if spraying SMALL, annual weeds. The vinegar + salt solution will simulate a contact herbicide and may burn/desiccate weeds faster than glyphosate with full sunlight and hot temperatures. Weed researchers at NDSU conducted trials with acetic acid in the early 2000s but were not able to duplicate favorable results shown from other sources. We found several important factors that affect performance:

- 1. Table vinegar contains only 4-5 percent acetic acid while industrial vinegar contains ~20 percent acetic acid. Table vinegar was not effective in any treatment while industrial vinegar gave greater results but still considered unacceptable weed control.
2. Grasses were much more difficult to control than broadleaf weeds.
3. Sunlight and temperature was a very important factor penalizing northern regions where

temperature is lower than in the mid-west and southern regions.

4. Complete coverage and spray volume were the most discriminatory factors. Spray volume of at least 60 gpa was required to get a significant weed response while 80 to 100 gpa would be considered minimum. Incomplete coverage of the plant leaves with the vinegar + salt solution would allow plants to regrow from the living tissues. The burning action of vinegar + salt solution is not effective on perennial weeds. It will burn off the top growth of perennials (which may be desirable), but it will not provide long-term control.

Glyphosate is systemic, that is, it will travel throughout the plant - down to roots and up to forming buds and seeds (known as "sinks") to effectively kill all plant parts. This difference between systemic and contact herbicides is very important in how to best use each product. Because glyphosate travels through the plant, it can control perennial weeds, such as Canada thistle and quackgrass. Coverage with glyphosate is less crucial, since the herbicide molecule will travel to parts of the plant that were not

sprayed. Glyphosate will be more effective on large weeds, perennial weeds, and when applied under cool, cloudy conditions.

The contact nature of the vinegar + salt mixture can be a benefit, though. If you need to kill weeds in close proximity to a desirable plant (say, killing chickweed in a flower bed), then glyphosate can be problematic. Only a few stray drops from the glyphosate spray bottle onto a flower might be enough to kill the entire plant. A few stray drops of the vinegar + salt solution may only produce a few localized spots/speckling but won't kill desirable plants. The exception would be if you continually spray salt in the same area, you can end up with too much salt in the soil and will damage all plants. Acetic acid will break down quickly in the soil and won't cause long-term soil problems.

So there are certainly some scenarios where the homemade herbicide mixture might be preferable to glyphosate for practical reasons. Comparing effectiveness between the two herbicides is difficult; they both have a potential fit depending on the situation. But what about the "inexpensive" and "safe" claims?

A quick trip to Wal-Mart reveals pricing of all products.

Walmart stores selling a half-gallon of glyphosate based Eliminator Weed & Grass Killer Concentrate for \$27.97 is more expensive than a gallon of the homemade mixture; however, to mix up 1 gallon of spray solution, you only need to add 1.5 fluid ounces of the concentrated product. At that rate, the cost of the glyphosate solution is only \$0.66/gallon. The label states that for "Tough Weed Control" you can mix up to 2.5 fluid ounces per gallon, raising the cost to \$1.09/gallon. Even then, glyphosate is actually less expensive than the homemade mixture on a per-gallon, ready-to-spray basis.

Toxicity

In toxicity measures, acetic acid is more toxic than glyphosate. Salt is more toxic to rats compared to glyphosate when exposed orally. The dermal toxicity numbers are a little more difficult to interpret, since for both glyphosate and salt, the values are listed as greater than a value. This typically means that the experimenters did not kill enough of the test rabbits at the highest doses used in the studies; so we know that glyphosate is safe at least up

to 2,000 mg/kg and salt is safe at least up to 10,000 mg/kg. But we can determine from this data that acetic acid is more toxic than either glyphosate or salt. Pound per pound, glyphosate actually appears to be less acutely toxic to the mammalian test organisms compared to acetic acid or salt.

But this is only half the story with respect to toxicity. To estimate the actual risk of these products, we need to know not only the toxicity, but also the use rate; the dose makes the poison. Even highly toxic substances can be used safely if the dose is sufficiently low, and seemingly safe chemicals can be problematic if the dose is too high.

To figure out the actual risk, we need to calculate the amount of the toxic substances being applied. Most distilled white vinegar is 5% acetic acid (50 grain). At this concentration, one gallon of the homemade mixture would contain 6.4 fluid ounces of acetic acid (the active ingredient). One gallon of acetic acid weighs 8.74 lbs; so 6.4 fluid ounces would weigh 0.437 lbs; so there is 0.44 lbs of acetic acid per gallon of homemade mixture. To convert

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West Pic Travel
Mystery Tour July 29 - 26
Yellowstone July 29 - Aug. 8
Medora Aug. 13 - 15
Washington, D.C. & New York City Aug. 28 - Sept. 7
Branson Holiday #1 Oct. 31 - Nov. 6
Yellowstone Nat'l Park & Little Big Horn
Nashville & Smoky Mountains Oct. 2 - 11
Pawhuska (Pioneer Woman) Nov. 9 - 14
Branson Holiday #2 (Nov. 20 - 25)

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Just look for our "Public Notices" tab.
They can also be found and read on any device at: www.ndpublicnotices.newzgroup.com

ABBREVIATED NOTICE OF SOLICITATION OF VIEWS ON ADMINISTRATIVE RULES

Relating to Standards Of Quality For Waters Of The State

ND Dept. of Environmental Quality

is soliciting comments and will hold a public hearing on N.D. Admin. Code Chapter 33.1-16-02.1 at the following location:

ND Dept. of Environmental Quality
918 E. Divide Ave.
Bismarck ND
Tues., Sept. 17, 2019
5:30 p.m. CT

The purpose of the meeting is to provide citizens and stakeholders the opportunity to voice concerns and provide input during the review process as required by federal law 33 U.S.C. § 1313(c). The standards may be viewed at the department or at the department's website https://deq.nd.gov/WQ/. A copy of the standards also may be obtained by submitting a written request to the North Dakota Department of Environmental Quality, 918 E Divide Ave, Bismarck ND 58501-1947, or by calling the department at 701-328-5210. Written comments sent to the mailing address and received by the department prior to September 30, 2019 will be fully considered.

Dated this 12 day of July 2019, Karl Rockeman, Director Division of Water Quality ND Dept. of Environmental Quality

(July 20, 2019)
Balta City Council Meeting July 8, 2019

The 7:30 pm meeting was called to order by Mayor Jundt. Present were councilmen Hallof and Rennock. Hallof made a motion to accept the minutes as read. Rennock seconded the motion. Rennock made a motion to accept the treasurers report as read. Hallof seconded the motion. Old Business: We have not received a bid for the pump-house yet. Also have not seen any pictures of the new Balta sign. New Business: Mayor Jundt stated that he called to have the pump-house flushed out. The board approved paying the bills; Northern Plains Electric \$356.91, Hardware Hank \$32.97, Circle Sanitation \$1590.00, City Council \$ 4965.00, and James Rennock \$520.00. Second notices of garbage and sewer bills will be coming out this month. No other business before the board Rennock made a motion to adjourn the meeting. Hallof seconded the motion.

Elaine Schaan, City Auditor (July 20, 2019)

NOTICE

Rugby Public School District #5, Board of Education, held a special board meeting Monday, June 10, 2019, at 7:00 AM at the Rugby High School Board Room. The purpose of the special meeting was to canvass the results of the 2019 School Board Election. Board members present were Kris Blessum, Dustin Hager, Carlie Johnson, and Shane Livedalen. Brenda Heilman was absent. Also present were Michael McNeff, Jared Blikre, and Dawn Hauck. Chairman Blessum called the meeting to order and 7:00 AM. Mrs. Hauck announced the results of the School Board Election held on

June 4th. Brenda Heilman ran unopposed for Precinct 1 and received 11 votes. Brenda will serve a three year term expiring June 30, 2022. The minutes were also approved to be published for the next two years with a vote of 12 to zero. The board reviewed the poll books. Motion by Hager to accept the results of the election and declare Brenda Heilman elected to the school board for a three year term, and for the school board minutes to be published for the next two years. Second by Johnson, motion carried. The June School Board meeting will be held immediately following this meeting. The meeting was adjourned at 7:10 AM.

Kristi Blessum, Chairman Dawn Hauck, Business Manager (July 20, 2019)

NOTICE

Rugby Public School District #5, Board of Education, held a regular board meeting Monday, June 10, 2019 at 7:10 AM in the Board Room at Rugby High School. Board members present were Kris Blessum, Carlie Johnson, Shane Livedalen, and Dustin Hager. Brenda Heilman was absent. Also present were Mike McNeff, Jared Blikre, Dawn Hauck, Deb Mattern, and Bryce Berginski from the Pierce County Tribune. Chairman Blessum called the meeting to order at 7:10 AM. Motion by Johnson to approve the agenda. Second by Hager. All voting yes, motion carried. Mr. Blikre gave the high school report. Included in the report were the following items: Rugby High School had 37 graduates with 18 of those receiving the State Scholarship. Spring Activities were very successful. Year End reports are being wrapped up and the schedule is being produced for next year. The high school is fully staffed at this point. Mr. Blikre thanked all the employees that are leaving for their service. Dr. McNeff gave the elementary report in Mr. Gullickson's absence. Included in the report were the following items: The schedule for next year is being worked on and changed with the change in classrooms. The kindergarten class may be smaller than expected which would allow a third section of a different grade level. There will be three sections of 1st Grade, 2nd Grade, and 5th Grade, unless something changes with registration which is scheduled for August 7th and 8th at the elementary school. A literacy block is also being worked into the schedule. Minor handbook changes will be completed by the end of June. Title I is holding summer school classes for students that qualify. There was a training on June 3rd with Phil Warwick regarding Proficiency Scales. June 25th will be the training day for the roll out of the new K-6 reading curriculum, Ready Gen. Dr. McNeff gave the District report. Included in the report were the following items: Summer repairs include Ely roof repair, fence repair at RHS campus, and trees and outside clean up at RHS. Angela Hager and Ashley Seykora have been doing LLI work this summer. Food Service staff is being mixed around with many retirements and open positions. Tyler Green has been hired for the Junior High Phy-Ed and Health position. Kevin Laier is hired back part-time until the social studies position can be filled, which will hopefully be in December. The first Teacher Leader Academy classes will be held tomorrow. Graduation went well. The Ely Library space is being redone and moved around to make it more useable. An interview was conducted last week for the Mental Health Clinical Counselor position. References are currently being checked. The Clay Target League took first place at state. There is discussion of a banner in the gym for an unsanctioned activity. Mrs. Hauck reviewed the financial report. The General Fund balance is tracking only slightly below last year at this time. A \$5,000 transfer had to be made in the Food Service Fund in May. An additional transfer may be needed over the summer. Items

in the consent agenda were considered. Motion by Johnson to approve the Consent Agenda. Second by Livedalen. Included in the consent agenda were the May 10, 2019 Special Board Meeting Minutes, May 14, 2019 Board Meeting Minutes, May 20, 2019 Special Board Meeting Minutes, the May Check Register, the May Financial Reports, and contract approvals for Tyler Green and Kevin Laier. All voting yes, motion carried. The first reading of the English Language Learner Policies was held. The policies are required and stem from the recent federal monitoring audit regarding English Language Learners and identifies communication procedures, identification and assessment of them. Motion by Hager to approve the first reading of policies GABAA - English Learners, GABAA - AR - English Learner Communication Procedure, GABAA - Identification and Assessment of English Learners. Second by Livedalen. All voting yes, motion carried. The first reading of the Homeless Student Policies was held. The policies are required and stem from the recent federal monitoring audit regarding Homeless Students and the education, resolution procedures, and caregiver authorization for them. Motion by Livedalen to approve the first reading of policies FDB - Education of the Homeless Student, FDB - BR - Education of the Homeless Dispute Resolution, FDB - Caregiver Authorization, FDB - District Level Dispute Resolution Form. Second by Hager. All voting yes, motion carried. The first reading of the Licensed Teacher Stipend Policy (Addition to Faculty Handbook) was held. This policy was developed with guidance from the Rugby Education Association and states the stipend amount for licensed teachers and describes what a stipend day includes. No stipends will be made for extra time needed for IEP's. Motion by Johnson to approve the first reading. Second by Livedalen. All voting yes, motion carried. The first reading was held for the Professional Learning for Head Coaches and Advisers policy. This policy relates to the continued education that is required for all coaches and advisers that should occur over a five year period and defines what the district will reimburse for expenses incurred. Motion by Hager to approve the first reading with the change to add notification to the head coach/adviser for expenses from the club account. Second by Johnson. All voting yes, motion carried. Changes to the 2019-2020 calendar were proposed. 1. The May 13th contract day would be moved to August 19th for teacher in-service prior to school starting. May 13th would be a day off. 2. The PD day scheduled for February 19th would be moved to February 26th. And 3. There will be no school on February 21st. Motion by Johnson to approve the amended 2019-2020 school calendar. Second by Livedalen. All voting yes, motion carried. Motion by Livedalen to change the August Board Meeting to August 6th due to the approval requirements of the preliminary budget. Second by Hager. All voting yes, motion carried. Dr. McNeff gave an update on the alley rerouting and street closure issues by Ely. A letter agreement was submitted to Mayor Steinke which requested conditional approval of the reroute and street closure provided the feasibility study comes back favorable. There has not yet been a response to the letter. A contract was signed with Total Control for Asbestos Removal. They are expected to start the second week of July. The board agreed the district needs to do what it can to close the road. The board discussed the announcement of the closure of Wolford School Districts and the impacts that could have on the district. McNeff is currently reaching out to families in the Wolford district and billing needs will have to be discussed. Tuition requests and transportation dollars are still being discussed. Peggy Harmel gave a Wellness Update. The Wellness Committee met and assessed the policy an updated wellness goals. Standardized recipes are still

being worked on as well as keeping vending machines in compliance and promoting wellness. The district is doing well and has come a long way to promote wellness, but items are still being addressed. The next board meeting will be Tuesday, July 16th, 2019 at 7:00 AM in the Board Room at Rugby High School. Chairman Blessum adjourned the meeting at 8:10 AM. Bills presented/paid: Checking Account ID: 1 Automatic Payment 805 5/26/2019 OTTERTAIL POWER COMPANY 7,878.93; 806 5/19/2019 HORACE MAN LIFE INSURANCE COMPANY 42.50; 807 5/10/2019 CITY OF RUGBY 747.98; 808 5/28/2019 KANSAS CITY LIFE INSURANCE CO 1,074.05; 810 5/17/2019 JP MORGAN - PCARD 27,995.65; 811 5/13/2019 FOOD SERVICE FUND 5,000.00 Checking Account ID: 1 Check 1033348 5/2/2019 RUGBY PUBLIC SCHOOL DISTRICT 5 300.00; 1033349 5/13/2019 RUGBY PUBLIC SCHOOL DISTRICT 5 105.00; 1033350 5/13/2019 DANIELLE JACOBSON 85.00; 1033351 5/14/2019 RADISSON HOTEL BISMARCK 328.20; 1033352 5/15/2019 AWARD EMBLEM 474.93; 1033353 5/15/2019 B & M LAUNDRY SERVICE 145.31; 1033354 5/15/2019 CITY OF RUGBY 114.74; 1033355 5/15/2019 COLE PAPERS INC 1,159.40; 1033356 5/15/2019 DAKOTA BOYS AND GIRLS RANCH 3,152.00; 1033357 5/15/2019 ENVISION 197.53; 1033358 5/15/2019 FLINN SCIENTIFIC INC 323.81; 1033359 5/15/2019 HARTLEY'S SCHOOL BUSES INC 56,272.25; 1033360 5/15/2019 HIWAY TESORO 335.93; 1033361 5/15/2019 HORIZONS SPEECH THERAPY SERVICES 990.00; 1033362 5/15/2019 INFARMATION TECHNOLOGY DEPT. MENT 17.48; 1033363 5/15/2019 JOHNSON'S PLUMBING SERVICE INC 278.50; 1033364 5/15/2019 JOSTENS 159.95; 1033365 5/15/2019 LEEVERS FOODS 82.84; 1033366 5/15/2019 LORY HELLMAN LPCC 150.00; 1033367 5/15/2019 AUDREY MICHAELLENK 300.00; 1033368 5/15/2019 NDCEL 250.00; 1033369 5/15/2019 NORTH DAKOTA SMALL ORGANIZED SCHOOLS 400.00; 1033370 5/15/2019 PIERCE COUNTY TRIBUNE 827.64; 1033371 5/15/2019 POPPLERS MUSIC INC 26.95; 1033372 5/15/2019 PRAIRIE PUBLIC BROADCASTING INC 609.44; 1033373 5/15/2019 PRAIRIE VILLAGE MUSEUM 135.00; 1033374 5/15/2019 RAMADA FARGO 160.20; 1033375 5/15/2019 RINGERUD PIANO SERVICE 203.00; 1033376 5/15/2019 X ROOSEBELT PARK ZOO 152.00; 1033377 5/15/2019 RUGBY HARDWARE HANK 507.41; 1033378 5/15/2019 RUGBY PUBLIC SCHOOL DISTRICT 5 80.00; 1033379 5/15/2019 RUGBY WELDING AND MACHINE 373.20; 1033380 5/15/2019 SCOURIS BASIN TRANSPORTATION 40.00; 1033381 5/15/2019 TEACHERS UNION 40.44; 1033382 5/15/2019 TIMECLOCK PLUS 2,089.00; 1033383 5/15/2019 TRAVEL WORLD OF CROSBY 1,535.00; 1033384 5/15/2019 WELLS FARGO BANK 525.00; 1033385 5/15/2019 X EDWARD ZIEGLER 345.00; 1033386 5/15/2019 HIGH AIR GROUND 100.00; 1033387 5/15/2019 JOANNE ZIEGLER 345.00; 1033388 5/15/2019 ROOSEVELT PARK ZOO 132.00; 1033389 5/15/2019 ROOSEVELT PARK ZOO 20.00; 1033403 5/30/2019 ALLARD TROPHY COMPANY 19.50; 1033404 5/30/2019 PAM ANDERSON 778.75; 1033405 5/30/2019 BOTTINEAU PUBLIC SCHOOL DISTRICT 1,171.47; 1033406 5/30/2019 CALL OF DUTY ENDOWMENT 193.48; 1033407 5/30/2019 CIRCLE SANITATION INC 928.00; 1033408 5/30/2019 CITY OF RUGBY 140.00; 1033409 5/30/2019 CRISIS PREVENTION INSTITUTE 34.00; 1033410 5/30/2019 ENVISION 302.08; 1033411 5/30/2019 FBLA FLUB 3,500.23; 1033412 5/30/2019 FLINN SCIENTIFIC INC 606.00; 1033413 5/30/2019 HEART OF AMERICA MEDICAL CENTER 61.50; 1033414 5/30/2019 HEARTLAND PAPER

COMPANY 444.08; 1033415 5/30/2019 I DESIGN INC 724.20; 1033416 5/30/2019 MAKE A WISH FOUNDATION OF ND 127.06; 1033417 5/30/2019 MARZANO RESEARCH LLC 5,680.00; 1033418 5/30/2019 AUDREY MICHAELLENKO 328.00; 1033419 5/30/2019 NORTH CENTRAL EDUCATION COOPERATIVE 716.64; 1033420 5/30/2019 PEARCE DURICK PLLC 53.75; 1033421 5/30/2019 PIERCE COUNTY TRIBUNE 48.00; 1033422 5/30/2019 RADISSON HOTEL BISMARCK 169.20; 1033423 RUGBY ELECTRIC 639.50; 1033424 5/30/2019 RUGBY PUBLIC SCHOOL DISTRICT 5 150.00; 1033425 5/30/2019 TRINITY MEDICAL CENTER 102.00; 1033427 5/30/2019 TROPHIES-N-TEES 475.50; 1033428 5/30/2019 TURTLE FOUNDATION GERMANY 215.76; 1033429 5/30/2019 UND OFFICE OF EXTENDED LEARNING 1,750.00; 1033430 5/30/2019 JOANNE ZIEGLER 283.00 Checking Account ID: 1 Direct Deposit 15893 5/15/2019 ASHLEIGH BLIKRE 100.00; 15894 5/15/2019 JARED BLIKRE 79.00; 15895 5/15/2019 CHELBIE BOHL 50.00; 15896 5/15/2019 TRAVIS FRITEL 262.80; 15897 5/15/2019 DAWN HAUCK 179.80; 15898 5/15/2019 KASEY OKKE 263.00; 15899 5/15/2019 JULIE SJOL 1100; 15900 5/15/2019 DANA THORESON 54.00; 16056 5/30/2019 JEIDI BACKSTROM 506.85; 16057 5/30/2019 ASHLEIGH BLIKRE 72.00; 16058 5/30/2019 JESSICA BOSCH 72.00; 16059 5/30/2019 CASSIE DUCHSCHER 2,467.44; 16060 5/30/2019 DEBORAH GOVEN 2,467.44; 16061 5/30/2019 JASON GULLICKSON 72.00; 16062 5/30/2019 ANGELA HAGER 72.00; 16063 5/30/2019 LEAH JOHNSON 2,467.44; 16064 5/30/2019 SHANNON MILLER 2,467.44; 16065 5/30/2019 ASHLEY SEYKORA 72.00; 16066 5/30/2019 DANIEL SEYKORA 2,467.44; 16067 5/30/2019 BREANNE SHERLOCK 2,467.44; 16068 5/30/2019 KHLOE SOBOLIK 2,492.44; 16069 5/30/2019 RITA SWEET 115.54; 16070 5/30/2019 PAOLA TROTIER 112.00 GENERAL FUND TOTAL: 157,655.76 Checking Account ID: 3 Check 1336 5/15/2019 BADLANDS ENVIRONMENTAL CONSULTANTS INC 3,110.00 BUILDING FUND TOTAL: 3,110.00 Checking Account ID: 4 Automatic Payment 54 5/15/2019 WELLS FARGO BANK 249,251.25 SINKING FUND TOTAL: 249,251.25 Checking Account ID: 5 Automatic Payment 175 5/10/2019 FOOD SERVICES OF AMERICA/MINOT 20,331.25; 176 5/7/2019 REVTRACK 265.63 Checking Account ID: 5 Check 11820 5/15/2019 DEPARTMENT OF PUBLIC INSTRUCTION 407.29; 11821 5/15/2019 LEEVERS FOODS 138.36; 11822 5/15/2019 STEVEN RY PINSKI 1,1831 5/30/2019 HENRY PUBLIC SCHOOL DISTRICT 5 4,970.28 FOOD SERVICE TOTAL: 26,397.05 Checking Account ID: 6 Automatic Payment 38106 5/28/2019 DOLLYWOOD FOUNDATION 204.45 Checking Account ID: 6 Check 40758 5/1/2019 VARDON GOLF CLUB 40.00; 40759 5/20/2019 GARRISON GOLF COURSE 30.00; 40760 5/6/2019 WYATT SMITH 312.00; 40761 5/8/2019 JASON BAMBANEK 352.00; 40763 5/8/2019 ROLLA GOLF COURSE 30.00; 40765 5/8/2019 GARRISON GOLF COURSE 30.00; 40766 5/9/2019 GARDEN GATE GOLF COURSE 30.00; 40767 5/14/2019 HARVEY COUNTRY CLUB 30.00; 40768 5/15/2019 BSN SPORTS INC 1,760.86; 40769 5/15/2019 COCA-COLA BOTTLING COMPANY HIGH COUNTRY 17.50; 40770 5/15/2019 DAKOTA FARMS 1,537.50; 40771 5/15/2019 DEVILS LAKE PUBLIC SCHOOL DIST 160.00; 40772 5/15/2019 FOOD SERVICE FUND 370.66; 40773 5/15/2019 HANSON SERVICES LLC DBA A-1 EVANS SEPTIC SERVICE 960.00; 40774 5/15/2019 LEEVERS FOODS 12.67; 40775 5/15/2019 NDSAA 982.55; 40776

5/15/2019 SHEILA OLSON 240.00; 40777 5/15/2019 PIERCE COUNTY TRIBUNE 250.60; 40778 5/15/2019 QUALITY MEATS AND SEAFOOD 1,616.09; 40779 5/15/2019 VICKI REILE 400.00; 40780 5/15/2019 RUGBY BROADCASTERS INC 95.50; 40781 5/15/2019 RUGBY WELDING & MACHINE 568.40; 40782 5/15/2019 AMBER SATTLER 400.00; 40783 5/15/2019 KENDALL SCHIEVE 26.79; 40784 5/15/2019 TRAVEL WORLD OF CROSBY 6,150.00; 40785 5/15/2019 TROPHIES-N-TEES 301.80; 40786 5/15/2019 UNDERWOOD PUBLIC SCHOOL DIST 130.00; 40787 5/15/2019 UNIVERSAL ATHLETIC SERVICES INC 76.00; 40788 5/15/2019 WESTRIDGE GOLF COURSE 30.00; 40789 5/15/2019 WESTRIDGE GOLF COURSE 30.00; 40790 5/16/2019 LARRY SANDY 135.00; 40791 5/16/2019 DAVID WIBE 108.00; 40792 5/16/2019 HARVEY COUNTRY CLUB 30.00; 40793 5/20/2019 RUGBY PUBLIC SCHOOL DISTRICT 5 960.00; 40794 5/20/2019 WILLIAM JANSEN 90.00; 40795 5/20/2019 STEVE MUELLER 90.00; 40796 5/20/2019 ERIC KUNTZ 90.00; 40797 5/20/2019 DANIEL SEYKORA 90.00; 40798 DAVID SCHNEIBEL JR 90.00; 40799 5/20/2019 SCOTT GROCHOW 90.00; 40800 5/22/2019 RUGBY PUBLIC SCHOOL DISTRICT 5 60.00; 40801 5/22/2019 CROSSROADS GOLF COURSE 50.00; 40802 5/23/2019 ADAM CHAUSSEE 83.00; 40803 5/30/2019 CITY OF RUGBY 295.00; 40804 5/30/2019 WALLY FRET-LAND 75.00; 40805 5/30/2019 SCOTT GROCHOW 250.00; 40806 5/30/2019 JAN HAGEN 50.00; 40807 5/30/2019 I DESIGN INC 3,168.90; 40808 5/30/2019 LEAH JOHNSON 409.40; 40809 5/30/2019 JEREMY JOHNSTON 50.00; 40810 5/30/2019 LAKE REGION STATE COLLEGE 650.00; 40811 5/30/2019 BRIANNA LEIER 50.00; 40812 5/30/2019 NDHSA 1,264.00; 40813 5/30/2019 NORTH STAR PUBLIC SCHOOL DISTRICT 84.91; 40814 5/30/2019 QUALITY MEATS AND SEAFOOD 574.40; 40815 5/30/2019 TRAVIS RISIVOI 1,500.00; 40816 5/30/2019 RUGBY GOLF CLUB 1,650.00; 40817 5/30/2019 RUGBY PANTHER BOOSTERS 100.00; 40818 5/30/2019 RUGBY PUBLIC SCHOOL DISTRICT 5 150.00; 40819 5/30/2019 DANIEL SEYKORA 125.00; 40820 5/30/2019 TROPHIES-N-TEES 538.75; 40821 5/30/2019 HOLLY VETSCH 50.00; 40822 5/30/2019 RUGBY PUBLIC SCHOOL DISTRICT 5 4,526.44 ACTIVITY FUND TOTAL: 34,703.17 TOTAL ALL FUNDS: 471,117.23

Kristi Blessum, Chairman Dawn Hauck, Business Manager (July 20, 2019)

Wolford City Council Meeting

The Wolford City Council met on Wednesday, July 10, 2019 at 7:00 p.m. Present were Mayor Jim Wolf and Council Members Beck, Slaubaugh, and Walsh. Deb read the June minutes and Financial Statement. Both were approved as read after a motion by Walsh and second by Slaubaugh. OLD BUSINESS: 1. Two loads of gravel were delivered and placed on streets in town. 2. Discussion was held concerning signs in town. 3. There is a cleanup dumpster in town this week. 4. The preliminary budget for 2020 was submitted to the county auditor. The budget hearing will be held Oct. 2 at 7 p.m. at the Wolford Fire Hall. NEW BUSINESS: 1. Payment of the monthly bills was approved after a motion by Slaubaugh and second by Walsh (Waste Management 580.29; Otter Tail 180.92; Tribune 25.20). 2. After motion by Slaubaugh and second by Walsh, it was approved to give a donation to the Wolford All-School Reunion committee at a later date. Walsh motioned to adjourn w/Slaubaugh seconding. Motion carried. NEXT MEETING: August 7, 2019 at 7:00 p.m.

(July 20, 2019)