

AR BEETS IN MANITOBA

...ing and beet sugar... successfully inaugurated in... of Alberta, other sections... Canadian prairie are turning... to this industry, and... appears to be every likelihood... wide extension to both the agri... and industrial phases in... eastern Canada. Events in Manitoba... in particular would seem to augur the... early establishment of an industry... there.

Experiments of various natures car... on over a number of years have... long established the fact that a sugar... beet of unsurpassed quality can be... produced in Manitoba, the soil of the... Red River valley especially, which is... similar to that about Grand Forks in... North Dakota, where the culture has... been successfully established, being... particularly well adapted to beet pro... duction.

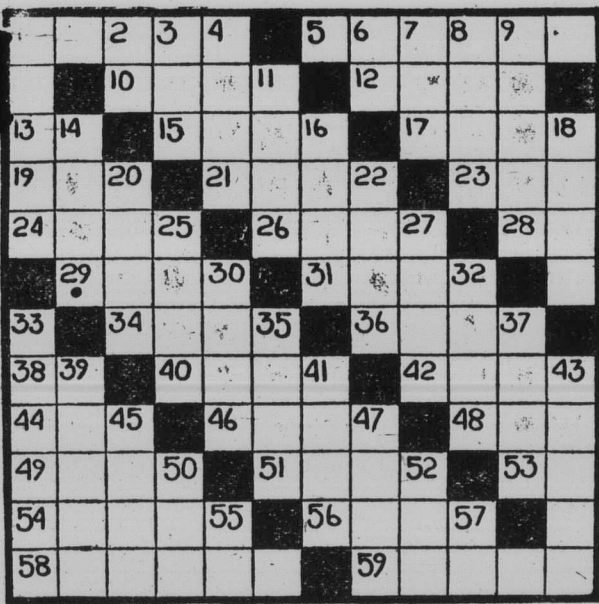
In 1924, very thorough investiga... were carried on in this area by... representatives of an United States... concern looking to the possible future... establishment of a plant for the manu... facture of beet sugar at some Mani... toba centre, probably Winnipeg. Plans... were concluded in that year to line... up farmers to produce a sufficient... number of beets to make a practical... commercial investigation into the... feasibility of such a project. At the... same time endeavors were made to... interest local capital in the establish... ment of a plant and out of this sprang... the Manitoba Sugar Company.

In 1925 beets grown on a purely ex... perimental basis were produced on a... total of 260 plots throughout the east...

ern and southern portions of the Pro... vince of Manitoba, chiefly in the Red... River and Assiniboine valleys. Early... wet weather was a handicap to the... best crop as it delayed maturity, and... the cutworms were bad in places, but... in spite of these factors eighty per... cent of the crop is stated to be quite... satisfactory. One specimen taken as... a sample measured sixteen inches in... length, and almost the same in great... est girth, being of excellent shape.

The analysis of the sugar beets... which is under way at the present... time points definitely to a sufficient... sugar content and purity, according to... report. A few cars are to be shipped... to Chaska, Minnesota, for commercial... trial at the factory there, and ar... rangements are already being made to... increase the acreage considerably for... next year, when it is hoped to ship the... crop to the factory now under con... struction at Grand Forks.

There now seems every possibility... of the development of a sugar beet in... dustry in Manitoba, which, taken in... conjunction with that which has got... away to such a fine start in Alberta... points to a wide introduction over the... Prairie Provinces. All authorities are... agreed that this will be attended with... considerable benefit to the agricultur... lists of Western Canada. In addition... to the additional profit springing di... rectly from the marketing of the beets... and their manufacture is to be expect... ed the indirect development from fac... tory by-products of a thriving live... stock industry such as is to be found... in the beet districts of the United... States.



- Horizontal.
1. A holy or godly person
 5. Takes unlawfully
 10. A kind of fat
 12. A plant used in soups, stews, etc.
 13. To proceed
 15. Sharp to the taste
 17. To produce, as pictures, on metal or glass, by means of lines eaten in by chemical agents
 19. The first woman
 21. To come together
 23. To behold
 24. Coarse hominy (U.S.)
 26. Organs of hearing
 28. One who practices medicine (title)
 29. One who tells falsehoods
 31. A part of the face (plural)
 34. Actual
 36. The skin of a beast
 38. You and me
 40. Implements to be inserted in locks
 42. Without light
 44. A young flower
 46. To gather a harvest
 48. To deface
 49. A child (slang)
 51. A thick plate or slice of anything
 53. Missouri (abbr.)
 54. A plume of certain herons
 56. To catch, to ensnare
 58. To keep
 59. To try the flavor of anything

- Vertical
1. Wise men
 2. Exits
 3. A hard-shelled fruit
 4. A group of horses yoked to a wagon
 6. A reposition
 7. To piece out laboriously
 8. Branches of learning
 9. Intertwined
 11. A woody perennial plant
 14. Having the shape of an egg
 16. A kind of duck
 18. A person distinguished by an act of valor
 20. To send forth
 22. An excursion
 25. A piece of land in a city kept for ornament or public amusement
 27. Went quickly
 30. One who rules
 32. To shut noisily, as a door
 33. A material used in automobile tires
 35. Part of a needle (plural)
 37. An English trolley-car
 39. A large wave or billow
 41. A food seasoning
 43. A German gold coin
 45. To start and run with velocity
 47. A division in the hair
 50. A beverage
 52. The noise made by a sheep
 55. A note in the diatonic scale
 57. An addition to a letter

Manifestly Impossible.
"I knew an artist once who painted a cobweb on the ceiling so realistically that the maid spent hours trying to get it down."
"Sorry, dear, I just don't believe it."
"Why not? Artists have been known to do such things."
"Yes, but not maids."

Look to Wheel Chains.
With the approach of winter the autoist should be sure the wheel chains are in order.
The Invention Eloquent.
Of all the modern miracles of science, radio has had the most articulate infancy.

MUTT AND JEFF—By Bud Fisher.



The Automobile

ENGINE OF CAR MUST BE KEPT COOL TO

Every motorist should understand at least a little about the principles of engine cooling and why it is necessary for a cooling system to be functioning properly in every automobile. He should know that the automobile engine derives its power from heat. A charge of gasoline, mixed with air, is taken into the cylinder of the engine in a comparatively cool state. In the cylinder it is compressed and ignited. As it burns the temperature is greatly increased and the pressure in the cylinder increases in proportion to the increase in the temperature.

HOW POWER IS DERIVED.

That's how it comes about that power is derived for driving the machine. However, the excessive temperature, which reaches 2,000 to 3,000 degrees Fahrenheit, heats the working parts of the engine, that is, the pistons and cylinders, to such an extent that unless some of the heat is dissipated it would be impossible to maintain a film of oil between these working parts. Deprived of lubrication they would stick fast and the engine would cease to function.

Furthermore, the metal parts forming the combustion chamber would also get so hot that the incoming charge of fuel would be ignited as soon as it came in contact with them. And that would mean more trouble.

That is why it's necessary to carry off enough heat to keep the working parts cool enough so they will permit proper lubrication and insure control of the ignition. To accomplish these desirable results, every

automobile is provided with a system.

In the water cooled system on most cars, the heat from the cylinders by water jackets surrounding the engine where the cool air extends from it.

A pump generally maintains a circulation, takes the heated liquid from the cylinder where it travels through passages surrounding the engine. This provides a large area for the air to cool the water, and in lively circulation heat is extracted so that it is possible to get hot again. A brief, is the cooling process.

EFFICIENCY IN OPERATION.

The engine, to operate at its greatest efficiency, should be rather warm when running, because whatever heat is carried off is not turned into power. Overcool the engine and its power is decreased. A car may be provided with a visible thermometer in its radiator to give the driver a checkup on this situation, and the amount of air circulating through the radiator may be controlled with shutters.

The operator of a motor vehicle will do well to study whatever cooling system his car may have. Some automobiles are entirely air cooled. No water is used. He should know what he has and how to get the best results in all kinds of weather.

The Persian Dyer.

The old master dyer emerges from his flat-roofed home. He stands at the door, his heart pulsating with joy. Another day with his art. His swarthy face beams with happiness.

The sun is beginning to peep over the distant hills where sheep are already browsing. He sees that

"The day unfolds like a lotus bloom, Pink at the tip and gold at the core. Rising up swiftly through waters of gloom That lave night's shore."

He gazes ecstatically toward the fast-brightening east. His black eyes sparkle with the intense delight he has for colors. A dreamy, far-away look comes into them, for he is thinking how he could combine shades to produce the varying hues of the sunrise.

Turning from the door, he lingers beside a rose, the petals of which are of the richest cream veined with pink. "Wonderful—marvelous," he murmurs.

Large copper vats stand at the side of the house. The cold ashes beneath them are soon covered by chips. Presently a fire crackles, and the water in each begins to steam.

Dyes are shaken painstakingly into them. Enraptured, his swarthy face glowing with inspiration, the old dyer tests the hues, then retastes. He stirs and lifts; now in fancy he is sweeping colors from the sunrise into the mixture; from the rainbow he borrows radiance, the hues of autumn he uses, then he tones all with shades from night.

Hanks of the softest whitest wool are immersed. Eagerly, tenderly, he stirs them; as they boil and bubble the beloved fumes are as the sweetest incense to him. The stick with which he occasionally lifts them is a magic wand.

At last the wool is taken from the dye, rinsed carefully, they hung upon lines to dry. The dyer, his hands and face now splashed with many stains, views his work with satisfaction, murmuring incoherently about marvels, about rugs and sheep and roses.

Small wonder that he is the master dyer!

Bible in Esperanto.

The Old Testament is shortly to be published in Esperanto.

Will Not Burn Ash Wood.

Islanders will not use ash for fuel, believing those sitting around such a fire will become enemies.



BRITISH CROWN NEVER WORN BY MORE COMELY QUEEN

Queen Alexandra was ever beloved by the British nation for her beauty of character, no less than for the personal beauty and charm which she retained to the very end. As a queen she shared with King Edward the honor of being a real leader in European royal circles and during her long widowhood devoted her life in a quiet way to the many philanthropies in which she had always been interested. A rare photograph showing Queen Alexandra and King Edward (then Prince of Wales) in their wedding robes.

Horse Saves English Girl From Drowning in Lake

Miss V. Musselwhite, daughter of a Blackfield farmer, was saved from drowning in Mopley Lake, Pawley, near Southampton, recently, by the horse which she had been driving to a trap, says "The Cardiff Times."

She had stopped at the edge of the lake to give the horse a drink of water when the animal missed its footing, fell in about eight feet of water and drew the trap after it. Miss Musselwhite was pitched head first into the lake. She could not swim, but managed to struggle clear of the horse and the tangled reins. The horse also kicked itself clear, saw that Miss Musselwhite was fighting in the water a few yards away and swam toward her.

Miss Musselwhite was near the end of her resources, but managed to clutch the reins and the mane of the horse, which immediately felt the pull at its head, turned around and swam to the shore. She then clambered on its back and rode to her father's home, two miles away.

"The Oxford Voice" Put on English Radio

"The Oxford voice" is to be broadcast throughout England. It has been the subject of much unfavorable comment in England and is supposed to be something which should be avoided by every self-respecting man who will not wear Oxford bags. But England must hear "the Oxford voice" whether it wants to or not.

A radio broadcasting station is to be opened at Oxford which will reach every part of the British Isles with talks on every phase of university life. In many sections of England the public insists the average Oxford man speaks in a manner entirely unintelligible to ordinary human beings, but the British Broadcasting Company has decided to take a chance at it.

Purcell's Music.

The influence of poetic imagination and a love of poetry upon the work of a composer of music, is well illustrated by the case of Henry Purcell, greatest of English composers. His

Answer to last week's puzzle:

FARM MEG LEES
APIARY ORIENT
UPRY EON R
CR YOU RAN HA
EAN TRAIL SOP
T OZ CIG AT S
ICE HOD
P UP NOT DO B
ASS SCOLD NOR
TO TOY YAP SE
E SOU FOE A
NEATLY STORMS
TAPS ERR LEET

Tax on Irish Bachelors.

The Irish Free State has imposed a tax on bachelors.



Private P. Milligan (left), representing Canada and overseas, and Private W. Haugh, representing the British expeditionary force, with the Armistice wreath they laid on the London Cenotaph on behalf of St. Dunstan's.