

## Variety of Ways Of Telling Time

Sir James Henry in the Ottawa Journal:—Back again on standard time! Watches and time-pieces of every variety are so common that we are apt to take no thought of the way they have come to us or how standard time originated. It was not the product of one inventive genius. Every race of humanity in past ages had a hand in providing an idea that helped along in the final production of the modern time-keeper.

From the earliest days the sun has been the master of time. With the sunshine there is the shadow, and primitive man noticed that as the sun moved, the shadows of the trees or similar objects also moved. As the habits of regularity were formed, a daily action was likely to be done when the shadow of a certain tree touched upon a certain stone. Perhaps one day some more observant cave dweller set up a pole because he noticed that by this means a thinner and sharper shadow could be produced. Perchance he set a stone to mark the spot when the sun was highest in the heavens. This would mark only one point of time each day. The thought came to him: Why not place two stones or even more and get more markings? He found at the end of the day, from sunrise to sundown, that the stones he placed lay in a circle. This first artificial sundial of primitive man, with its circle of stones, originated the idea of having the circular form of the face of the modern time-piece.

**Still Use Sun**  
In the matter of ascertaining the noon hour of the day, humanity is no further ahead than the day in which savage man set up a pole to note where its shadow would fall. We still depend upon the great time-pieces of the sky, the sun and stars, for our master clocks must be set by the motion of the heavenly bodies. Up to a hundred years ago and even more recently, many families had a noon mark on the south window sill, or on the kitchen floor for telling time and for correcting their clocks. I have seen several of these markings in the older dwelling places in Scotland.

It is not known when nor where the sundial had its origin, but it was without doubt the first time indicator. In European countries many old sundials are preserved as relics of bygone days. In Scotland I have seen old sundials that have been renovated and replaced, and are venerated on account of their historic associations. There is one that hangs like a high clock on the granite front of the City Hall in Aberdeen. It was made by one David Anderson in 1597. Underneath is the motto, cut in stone, "Ut umbra sic fugit vita." "As the shadow so flies life." Most of the old dials preserved in parks and public places have appropriate mottoes: "Time is but a shadow," "The day flies," "I count the bright hours only," "Thou growest old in beholding," "The hour I tell not, when the sun will not," "The light guides me, the shadow you."

**The Sand Glass**  
To indicate the passing of time when sunlight was absent, the sand glass was introduced. It is not definitely known when it came first into use.

Early in the sixteenth century, hour glasses were introduced into churches. That was the period in which preachers were famous for their wearisome sermons. I have seen some of the ornamental stands in which church hour glasses were kept. It is quite likely that the running sand in the hour glass held the close attention of hearers when a wearisome hour-long sermon was being offered them. There were some sympathetic preachers, however, who introduced the half-hour sand glass bringing earlier relief to their congregations.

The "going," "going," "gone," expression generally made by auctioneers when an article is about to be sold, is a relic of the time when public salesmen announced to the buying audience that the sand was about run out, and the time for bidding at an end. While the sand was running any one had the privilege of bidding. The last bidder before all the sand had run out was the successful purchaser.

**Only One Hand**  
The first mechanical clock struck the hour on bells. One had to listen to know the time. When dials made their first appearance there was only one hand—the hour hand. Along about the year 1360 the minute hand made its appearance. However, there was little need of a minute hand for the clocks of that period did not keep time much nearer than two hours a day. But the sun kept his regular course in the sky, so that wayward clocks could be brought to time.

## Find Out

From Your Doctor if the "Pain" Remedy You Take Is Safe.

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BEFORE you take any preparation you don't know all about, for the relief of headaches; or the pains of rheumatism, neuritis or neuralgia, ask your doctor what he thinks about it—in comparison with "Aspirin."

We say this because, before the discovery of "Aspirin," most so-called "pain" remedies were advised against by physicians as being bad for the stomach; or, often, for the heart. And the discovery of "Aspirin" largely changed medical practice.

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### Demand and Get "ASPIRIN"

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Calgary—Good clothes make a man, but poor clothes provide food easier, Bill Harland, graduate of the University of Toronto, found. Unemployed since his firm in Toronto shut down a year ago, Bill "hit the road" in his good clothes, but after his money ran out he found difficulty in making "touches."

He said he found more sympathy when dressed in overall pants and an old shirt, but admitted he found it easier to keep out of jail if dressed in his best.

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THERE is at least one good story in everyone's life. For the best 3 Stories received on or before November 10th, 1935, A CASH PRIZE, and Two Other Valuable Prizes, will be given for Original, or True Life Stories of 1,000 words or under. Send in with your story a signed statement that it is either original, or a true life story, your name and address, and number of words in the story, enclose return postage for its return. Entry Fee Twenty-Five Cents. Typewrite if possible or even legible handwriting accepted.

GIFF BAKER, 39 LEE AVE., TORONTO



## SCOUTING

Here - There Everywhere

A brother to every other Scout, without regard to race or creed

A parade of 500 Cubs, Scouts and Rovers of Galt, Preston, Kitchener, Waterloo and Guelph joined those of the 1st Hespeler Group of St. James' Anglican church, for an unusually impressive ceremony of dedication of the colours of the Hespeler Scouts at Queen's Theatre. In the evening at St. James' church the colours were formally handed over to the church wardens and placed in the chancel. Both services were attended by capacity congregations.

First and second prizes in the airplane model contest at the Halifax Fall Exhibition were won by Scouts Gordon Waugh and Kenneth Smith.

Lone Scout Ken. Farrell of Finch, Ont., proved that the tests for the Scout Entertainer's Badge were of practical value. By giving entertainment stunts at concerts in his district he earned sufficient money to buy a new Scout uniform and cover his expenses to the Baden-Powell rally at Ottawa.

Calgary Scouts will erect an archway entrance to the new Little Red Deer bird and game sanctuary recently opened near Innisfail. It is expected that the sanctuary will become one of the popular camping grounds of the province.

The 12th St. Catharines Sea Scouts captured the Silver White Shield for high points at the annual district Scout Field Day, nine troops competing. The contest included: Neatest uniform, knotting, troop relay, fire-lighting, 75-yard dash, equipment race, 440-yard cycle race, quarter-mile run. Firsts taken by the Sea Scouts included neatest uniform, knotting, fire-lighting and equipment race.

Eleven Halifax district Scout Groups now own cabins on the Miller's Lake reforestation and wild life conservation area.

A farewell party for seventeen members of the 1st Bowmanville Wolf Cub Pack about to graduate into the Scout troop was made a memorable event. After the usual pack meeting opening exercises, the entire pack was taken to a movie show, then to the Cubmaster's home for a feast of weiners, rolls, cookies, cocoa and candy. There wasn't any difficulty in filling the places of the graduates with new boys.

A "Boy Scout Week," to advance Scouting in New South Wales, was officially opened at Sydney by His Excellency the Governor, Sir Alexander Hore-Ruthven.

Friend—Are you to play the hero? Actor—Not exactly—I lead a camel on the stage.

The minister persists in asking the bridegroom: "Do you take this woman to be your lawfully wedded wife?" just as though he didn't know they sent for him.

Woman—A letter from your husband, I see.

Friend—Yes, it's chiefly to send these two needles for me to thread. He's camping, you know, and has to do his own sewing, you know.

Maybe somebody will invent something sometime that will never need any spare parts.

Great Explorer—We were slowly starving to death, but we cut up our boots and made soup of them.

Wife—How do you like the potato salad, dear?

Hubby—Delicious! Did you buy it yourself?

Learn to take the low hurdles so that when opportunity comes you can make the high ones.

Bill—Why do the leaves turn red in the autumn?

John—I suppose they are blushing to think how green they've been all the summer.

In a country newspaper appeared the following advertisement:

"The man who picked up my wallet in the High Street was recognized. He is requested to return it."

The next day this reply was published:

"The recognized man who picked up the wallet requests the loser to call at any time and collect it."

Don't you just love the good fellows that telephone you at two o'clock in the morning and say: "I hope I didn't waken you!"

Warden—Who gave the bride away?

Connolly—Her little brother. He stood up in the middle of the ceremony and yelled: "Hurrah, Annie, you've got him at last!"

So live that folks in your community would rather take a bust of you than at you.

A very proper and careful old woman was engaging a new gardener.

"Have you a reference from your last place, my man?" she inquired.

"No, mum," replied the applicant. "They wouldn't give me one."

"Why?"

"Oh," answered the man, absently, "I hit one of the wardens!"

## Bees Need Help

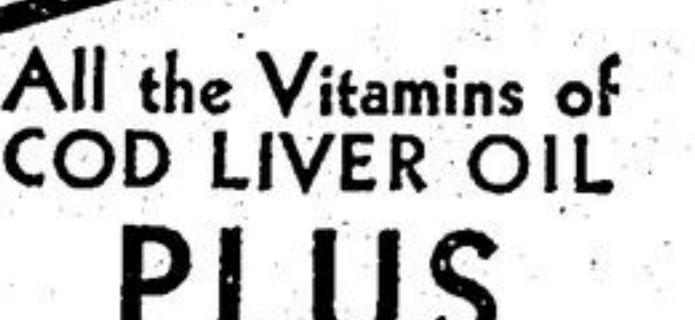
(Experimental Farm Note)  
The honey-gathering season has now ended and the bees are now preparing, in so far as they possibly can, for the coming winter. They will, however, need some assistance in order to survive the long cold months that are ahead. During the summer months the bees worked feverishly to gather enough honey to sustain them through the following autumn, winter and spring. In most cases the amount stored far exceeded their requirements and the surplus has been taken from them. Unfortunately, there is a tendency on the part of many beekeepers to take from the bees an unfair proportion of their stores, thus placing them in danger of starvation before new supplies can be obtained the following year. To pack bees away for winter without an adequate food supply is to court disaster. It is far better to find living colonies with a surplus of food in the spring than it is to find colonies dead or depleted through starvation. During the autumn months, the colonies are producing a large force of young bees that must survive the winter and continue the activity of the colony next spring. For this purpose a large food supply is needed. Should the supply be insufficient brood production is curtailed or stopped entirely, thus weakening the colony when strength is of extreme importance. After brood rearing normally ceases the consumption of food is greatly reduced but does not cease entirely. At the end of September, or early October, every colony should have at least forty pounds of well capped honey or sugar syrup for winter use. Any deficiency in this amount must be made up by giving combs of sealed honey or an equal amount of refined sugar made into syrup. Bees also require protection during the winter months and as they are unable to provide this for themselves it must be supplied by the beekeeper. Protection can be given by either packing the bees in well insulated packing cases or moving the apiary into a well constructed cellar or dugout. For detailed information on preparing bees for winter write to the Bee Division, Central Experimental Farm, Ottawa, for Bulletin No. 74 entitled "Winter-Bees in Canada."

## Creamery Butter

Cost of Manufacturing Butter In The Prairie Provinces

Economy in the production of a commodity is always important and it is much more so when, as in the case of butter in the Prairie Provinces, a large proportion is shipped to distant markets, states a recent issue of the Economic Annalist. A knowledge of the factors affecting cost is therefore necessary in order that the most economical practices may be adopted. It was for this reason that study of creamery management and the cost of manufacturing butter in the Prairie Provinces was conducted jointly by the Departments of Agriculture in the three Prairie Provinces, the Rural Economics Divisions of the Universities in these provinces and the Dairy and Economic Branches of the Dominion Department of Agriculture. Records from 91 of the 210 creameries operating in 1933 were obtained by personal visits to the creameries. Only 78 of the records were used for tabulation purposes and cover the fiscal year of 1933.

In this study, the cost of manufacturing a pound of butter includes all items of cost from the time the cream is received at the creamery until the butter is packed into 56-pound boxes. Charges for gathering the cream, costs of printing and shipping the butter are, therefore, excluded. Commissions on cream cheques have also been omitted. The average cost of



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manufacture in plants in which the production was under 100,000 pounds of butter for the year was 4.82 cents per pound, while in factories having an output of over 500,000 pounds, the figure was 3.18, a range of 1.64 cents per pound. The range in cost from the lowest to the highest cost factory was from 2.62 to 6.56 cents a difference of 3.94 cents per pound.

livered by express averaged .05 cents per pound butter-fat. The cost of trucking, railway express and carriage amounted to 2.05 cents per pound butter-fat on all cream so handled. The total charge divided by all cream used in the manufacture of butter amounted to 1.37 cents per pound butter-fat.

The cost of manufacturing in the 78 plants averaged 3.45 cents, the average production being 350,500 pounds. Thirty plants in Alberta with an average production of 316,303 pounds had a cost of 3.56 cents per pound butter. The average production in twenty-five Saskatchewan plants was 404,178 pounds and the cost 3.47 cents. The cost in Manitoba was 3.28 cents in 22 plants producing an average of 336,757 pounds of butter. Overhead and administrative costs were much lower in Manitoba than in the other two provinces. The greater volume of production in Saskatchewan brought costs per unit in this province lower than those in Alberta.

About one-third of the cream going to creameries was transported by motor trucks, one-third by railway express and the remainder delivered by the producers. In very small factories producers delivered about 60 per cent of the total cream received by the factories, while in larger factories only 25 per cent was delivered and 75 per cent was either trucked or expressed to the creamery. The cost of trucking in most cases was over two cents per pound butter fat and averaged 2.25 for all cream trucked. The cost of expressing cream averaged 1.74 cents per pound butter-fat. Cartage charges on cream de-

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