Vaccine, Health Preserving Fluid, Saves Millions of Lives

250,006 Vaccinations Made in the City of Toronto Without Loss of Limb or Life—Immune to Onslaughts of Dreaded Smallpox

bothe equivalent to the life of Riley years medical officer of health in the may be. It is bathed gently and City of Toronto and one of the best-carefully, it is excellently fed and cared for, kept clean and healthy.

Then they vaccinate it with the germs of cowpox. This gives the call a mild case of cowpox. Then what happens? Because the call is produce evidence of one single death that happens? Because the call is healthy its body begins to fight the cowpox germs and it derelops what the cowpox germs and it derelops what the component of the life in the structure of the limitations of many famous screen artists. Also, many film artists who possess excellent voices are capable only of certain broad effects, since climation. I defy them to produce a climation. I defy them to produce a case where an arm was even threat case where an arm was even threat the case where an arm was even threat the fallow of the tables cowpox germs and it develops what are known as antibodies in order to are known as antibodies in order to fight these germs. It is these antibodies that the doctors want to be developed in the blood of human beings; they produce a reaction which ings; they produce a reaction which enables the human blood to successfully fight smallpox germs, so that these germs are not even permitted to begin their work of causing small-

its skin upon which the vaccine vesicles have appeared. (This process of washing by the ...a) sometimes takes a couple of hours so thoroughtakes a couple of hours so thorough.

It is it done. Sterile warm water is used.) The doctors then examine the calf, make sure that its internal sons who were unvaccinated."

two years of their courses.

Kemptville Agricultural School.

The winners of the prizes are a

day, Mount Forest; Halton, Jack Law

son, Acton; Lanark, R. Sherwood Lumsden, Smith's Falls; Leeds, Ken-

neth Bolton, Bellamy; Northumber-land, Norman Flindall, Trenton; Perth

Waterloo, Sherwood Taylor, Galt.

Disease Among Reindeer

Toronto.-Governmental methods of

preventing disease among reindeer in Northern Canada were detailed by Dr.

S. Hadwen, Ontario Research Founda-tion, at the regular monthly meeting

Disease was depleting the herds in

of the Toronto Humane Society here.

the North, Dr. Hadwen said, and every

effort was being made to control it. Reindeer were not only useful for

most a necessity for food during Win-

ter months when districts were cut

J. J. Kelso, vice-president, presided.

Small son-"If you don't give me

off from supply posts.

Now Under Control

Essay Contest Winners

eases that ever afflicted the human preserving substance. Now let us race. consider for a moment the claims of in the first place, doctors secure a busy-bodies who oppose vaccination healthy calf. From the time they and allege that it is harmful. One select the calf till the moment of its of the claims that these people make painless death it becomes one of the arms rot of, and all sorts of terrible select the call the the moment of its painless death it becomes one of the most favoured of animals. It leads the life of Riley or whatever the bovine equivalent to the life of Riley cars medical officer of health in the City of Toronto and one of the best-

ter to the Social Hygiene Council Ten million vaccinations were made in the Philippines without loss of life these germs are not even permitted to begin their work of causing small-pox.

The process of preparing the vaccine is very interesting. When the calf is ready the doctors caloroform it, wash off that particular part of its skin upen which the vaccine test was an annual death the calf is skin upen which the vaccine test. rate from smallpox of approximate-ly 40,000. Upon the completion of the 10,000,000 vaccinations referred

Scholarshies Given | Dominion's Output To Young Farmers Of Butter Gaining

Essay Contest Winners for Canada to Supply Own Needs Province Also An- in Two Years, Says nounced Ruddick

Ottawa.-Canada will be producing Toronto.-Announcement of the winners of the 15 scholarships donated by all the butter she requires within two the T. Eaton Company, Limited, To-years and the question of importing years and the question of importing ronto, to the members of the 1930 butter from New Zealand and Aus-"Royal 500," has been made by the tralia will then no longer be one of Ontario Department of Agriculture. Prime importance to the dairy industry. These scholarships of \$100 each are in this country. This view was exto be applied on a regular course at pressed by Dr. J. A. Ruddick, Dairy the Onlario Agricultural College.

One hundred and ninety-eight tried
the examination which was held in each county and district of the pro-vince under the supervision of the agcalled him up from London with re-spect to the re-exporting of New Zearicultural representatives. land and Australian butter to Canada He explained that considerable butter The winners are as follows: Bruce County, George Downey of Tiverton; comes from the Antipodes to Canada

Kent County, William Keyes of Ridge by that route. town; Wellington, Thomas McClana-han of Drayton; Middlesex, Cameron The low price of grain is having a stimulating effect on butter production in Canada. The production of both cheeses and butter doubled last month McTaggart of Appin; York County, Alexander W. Davidson of Agincourt; Ontario, John Dryden of Brooklin; as compared with the corresponding Durham, James Hancock of Courtice; Dufferin, Austin Brown of Shelburne; month in 1929. The mild weather and the low price of feed encouraged the Dundas, Phil Strader of Williamsburg; farmers to keep their cows milking Grenville, Lawrence O'Marra of Odessa; Prince Edward, Gordon Reid of former years despite the lower price

sa; Prince Edward, Gordon Reid of Milford; Carleton, James McNeice of Milford; Carleton, James McNeice of Nossiyn Village; Rainy River, Ernest J. Gosselin of Rainy River; Manitoulin, Raymond Baker of Poplar.

These youths will enter the Ontario Dr. Ruddick thought that the farmers agricultural College part Sentenbers. Agricultural College next September were seeking to make up for the lower in either the associate or degree price by increased production.

Course. The Ontario Government, it is understood, is cancelling all tuition have not dropped and the farmers supplied for such winners during the first plying milk for city distribution for

the most part are faring better than who are sending their milk to the butter or cheese factories.

As a follow-up to the 1930 Royal 500" Party, the department of agriculture conducted an essay contest open January to all members of the party.

In addition to local prizes offered There's not a singing robin In all the northern land, for the three best essays in each But a grey gull preens its plumage Beside the hoarse-voiced strand. of the ten best essays in the province

lodging for two weeks while attending In all this world of white. one of the short courses at the Ontarlo But a great owl winged with silence Agricultural College, Guelph, or the Passed over me last night. There's not a song at morning,

There's not a heaven-sent bluebird

follows: Glengarry County, Donald Watt, Lancaster; Grey, Wallace Holli-And not a song at eve, And the woods for old companions With saddest murmurs grieve.

There're snowflakes in the hammock The oriole weavers hung, and snowflakes where the thrushes Their golden vespers sung.

Morryn Oehm, Stratford; South Sim-coe, William J. S. Grant, Stayner; Sudbury, Wallace Mooney, Massey; But, oh, the little people All clad in sombre grey, Who come to seek my bounty Each bitter winter day.

> To taste a bit of suct. To find the smallest seed. To thank me with their chatter And chirping sweet indeed!

and though there's not a robin. Not any bird that sings, love the little people The winter always brings. -Lillian E. Andrews in "The New

northern transportation, but were al-A vicar was visiting one of his poo er parishioners, an old woman afflicted she didn't know her husband was in with deafness, who expressed her the back room." great regret at not being able to hear his sermons. Desiring to be sympathetic, he said with unnecessary selfpenny I will go and see Johnny Jones who has measles, and then I shall depreciation: "You don't miss much."

Stage Technique Vs. Screen Acting

Writer Claims Screen Acting Requires Less Experience Than the Stage

By JOHN BURKE INGRAM

Organs are absolutely free from discased Jenner, one of markind's greatest benefactors discovered how too-prevent smallpox. I told you how in the eighteenth century 69 million in the current box of how the Sovereigns and leaders of moved. It is carefully ground with a minure of glycerine and carbolic all over the world poured hosours about first to tell you just exactly what vaccination is, how the vaccine south markind's great safeguard after which is kept on fee until is secured, how it is administered and a few other interesting facts about mankind's great safeguard acces that ever afflicted the human race.

Now let us consider for a moment the claims of how cheen a sound tragic. Many a good artist fails when given a voice to use, how had seen a solutely free from discased condition all the time and effort expended up to this point are absolutely free from discased condition all the time and effort expended up to this point are accompletely in their technique respects, stage and screen acting differ as completely in their technique for a completely in their technique respects of two that water in a lil over again with another cait.

What the doctors have got from which is the greater. Freedence has been claimed for the screen, especially before the advent of the talking film, on the ground that, with a more limited means of expression and deprived of the medium of speech interpretation becomes the more difficult task. But this is a fallacy. As well might one argue that it is easier to doctors are in preparing this healthpart.

So you see how careful doctors has the free are completely in their technique respects, stage and screen acting differ as completely in their technique for a completely in their technique respects, and screen arity. From two differs in temperament and character. The two art from screen compact, and the question arises which is tept on the advent of the ta artist fails when given a voice to use, and in many a scene, hitherto con-vincing, the attack fillusion is dis-pelled at the sound of a false note in the voice, especially in tragedy.

The voice is a delicate musical in-The voice is a unicate musical in-strument, and correspondingly diffi-cult to keep in tune. Its introduction into the film has shown clearly the limitations of many famous screen artists. Also, many film artists who possess excellent voices are capable certain roles within the range of their olces are beyond the reach of their talents and they can never scale the heights on the talking film reached by them on the silent screen. Their voices limit their range instead of assisting their art.

All this indicates that screen acting is certainly easier than stage acting. Am, even if the soundscreen may appear to be the most difficul medium of all, this is not really so; for on the screen, talking or other wise, an actor has seldom to sustain

top of the tree.—C. F. A., in "The Christian Science Monitor."

Big Decrease Shown For 1930 Accidents

atalities Are Slightly Up However — Compensation Less Than in .1929

A summary of figures by the Work-men's Compensation Board of Ontario for 1930 shows a total of 69,267 accldents reported during the year, a decrease of 17,836 from the number dur-

Taking a basis of 300 working days, this would show average daily benefits awarded of \$24,743, requiring an aver age of 865 cheques per day. There was a decrease in the average numbe of new claims in the average number 290 in 1929 to 231 in 1930. Accidents reported during December numbered 4,694, compared with 6,288 n December the previous year.

Argentina Reports

More Pigs and Sheep

Buenos Aires, Arg.—Large increases in the number of sheep and pigs in this country and a sharp decrease in the number of cows since the last agricultural census taken in 1922, was re vealed by the new census which has just been completed. The total numper of cows decreased 5,000,000 to 2,-211,855, sheep increased 14,000,000 to 14,413,221, and pigs increased 2,300,000 to 3,768,738, according to the new cen-

"Madam," he said, "there is some thing you need in this shop. The work is too heavy for you. Tell me do you never feel the need for help? The woman giggled. He smiled. "A woman like you," he proceeded, "should not have to do such work as carving. You can be saved all the weariness and worry if you will allow me to—". Then something like a thunderbolt descended on him. When he awoke, he was in bed . . . In the course of time, his pals gathered round "We both made a mistake," explained the sufferer. "I didn't know she was taking it as a proposal; and

Life is like a book; fools scamper through it hastily; the wise man reads it with attention, because he "So they tell me!' was the unexpected knows he can read it only once.



Edna May Cooper (shown) and Miss Bobbie Trout took off from Los Angeles in an attempt to break existing refueling endurance records.

Sunday School Lesson

January 25. Lesson IV—Jesus Tempted—Luke 4: 1-13. Golden Text—In that he himself hath suf-fered being tempted, he is to suc-cour them that are tempted.—Hebrews 2: 8.

ted for on the screen, talking or otherwise, an actor has seldom to sustain a role for more than two or three mining it ists are capable of giving us glimpses of convincing art. In his character songs, Sir Harry Lauder is capable of truly convincing touches.

Coleridge said of Edmund Kean that to see him act was "like reading Shakespeare by flashes of lightning," But that is surely not a satisfactory way of reading Shakespeare, though better than nothing. It is possible that this explains Kean's fine performances in certain melodramatic types of plays, essentially flashy. An artist who can convince only in flashes can achieve on the screen a sustained etfect with the aid of artifice. The fact that much of his timing is done for him renders his art alone could never achieve on the stage. A certain film active, where a very limited fice and a plastic individuality. Nor is this any discredit in an art where ye such are legitimate means.

Thus the screen is a combination of art and artifice, where a very limited talent will take one further than on the stage; indeed, it often leads to the top of the tree, -C. F. A., in "The Christian Science Monitor."

Cours them that are tempted—Heberwise, and to sustain a role for thee min reder has seldom to sustain a role for more than two ovents. Pictures of the Baptism which are familiar to the Baptism which are familiar to the sustained that the series to be far the top of the tree, depends almost entirely on artist, who has reached the top of the tree, where a very limited to the stage; indeed, it often leads to the top of the tree, of the leads to the top of the tree, of the leads to the top of the tree, of the leads to the top of the tree, and a plastic individuality. Nor is this any discredit in an art where yet the could be a stage; indeed, it often leads to the top of the tree, of the leads to the top of the tree, of the leads to the top of the tree, of the leads to the top of the tree, of the leads to the top of the tree, of the leads to the top of the tree, of the le

tion to himself, but now the word of gordinary, looks forward to Gethsemout before the people. It has often out before the people. It has often out before the people. It has often the been supposed that Jesus, at his Baptism, because we are the ministry of angels mentioned by the distriction of the wilderness.

The Temptation is intimately connected with the Baptism, because we are cended upon him at his baptism, also drove him into the wilderness.

In order to paderst and the Temptation story we must recognize what kind of a story it is. Children often ask us whether the tale we are telling them is true; their question is sometimes difficult to answer. For instance, is the "Pilgrim's Progress" a true story? Surely it is one of the truest of true stories, but, of course, it is not literally true; there is no literal castle of Giant Despair, no literal Apollyon to straddle across our way. In what sense exactly are we to say that the Temptation narrative is a true story? We involve ourselves in very grave perplexities if we try to maintain that it is literally true. Can we, for instance, say that the Sprint of God literally drives any one to be to picture the devil? Or is there any place on a mountain, or in the air, from which literally all the kingdoms of the earth can be seen at once? Obviously the story was told when men believed the west hand the was the ministry of angels mentioned by the devil on the was should have missed much, had it been wanting; but he gives us instead the retreat of the adverrary: 'He de-to when waiting; but he gives us instead the retreat of the adverrary: 'He de-to we should have missed much, had it been wanting; but he gives us instead the retreat of the adverrary: 'He de-to we should have missed much, had it been wanting; but he gives us instead the retreat of the adverrary: 'He de-to we should have missed much, had it been wanting; but he gives us instead the retreat of the adverrary: 'He de-to we should have missed much, had it be nearly in ministry of angels mentioned by the Fatal accidents numbered 520, as compared with 510 during 1929.

The total benefits awarded during the year amounted to \$7,423,018.92, as compared with \$8,012,157.73 during 1929, the 1930 figures being made up of \$6,086,972.77 compensation and \$1.

Taking a best of the carth can be seen at once? Obviously the story was told when men believed the world to be flat. But we misunderstand the story if we get educational propaganda and our selves into these difficulties. If a friend should tell us that he was at one time greatly tempted to be distance to the second of the carth can be seen at once? Obviously the story was told when men believed the world to be flat. But we estation, strict protective legislation, strict protective legislati one time greatly tempted to be dishonest, and that for a week he had to fight the devil, we should perfectly understand him: we should never take his words literally, and ask him whether he fought with a sword or a gun. So here we shall miss the real meaning of the story, and get involved in useless discussions if we do not take it spiritually and interpret it, as best we can, of Jesus' inward experience of temptation.

Many interpretations of the Temptations have been offered, and we can never be sure that we have caught

the whole meaning of them. It seems clear, however, that Jesus went away into solitude in order to think out the implications of his baptismal experience; hence, the repeated phrase, "If thou be the Son of God."

The temptation to make stones into bread might be either of two things; it might be the temptation to do private miracles for his own comfort and advantage, or it might be to attain his Messiaship, his kingship, by dealing first with economic problems. The Romans knew well that any ruler could win popularity if he would give the people "bread and circuses" for nothing.

The temptation to win world-empir The temptation to win world-empire by worshipping the devil suggests that he was tempted to use world's neams to achieve spiritual results. Propaganda, war, party-spirit, bribes, have too often been used by Christians to serve the cause of the church, but Jesus would not bribe nor cajole, nor force men into the kingdom; they must enter with their eyes open, because they understand and love.

The Jews demanded of him some "sign from heaven," some miraculous proof of his claims, but if they would not believe Moses and the prophets (Luke 16: 31), if they were not able to judge of the authority of John (Mark 11: 27-33), he would not cast himself down from the Temple, nor do any such miracle to prove his claims.

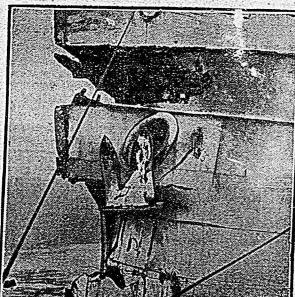
Then the devil left him "for a time,"

Then the devil left him "for a time," or "till his opportunity." The verse, perhaps, looks forward to Gethsemane.

radio communication, power pumps, otc.), protection against pests, reforestation, strict protective legislation educational propaganda and Domin-

When a strong brain is weighed with a true heart, it seems to me like balancing a bubble against a wedge

45 Lives Lost in Collision



Forty-five people lost their lives when Finnish ship Oberon collided with S.S. Arcturus and sank within three minutes, between Denmark and Sweden. Above is view of damaged Arcturus bow.

New Theory Advanced of How The Sun Renews Its Youth

That our sun renews its youth every ten million years or so in a bath of fire, like the mythological phents imagined to rise anew from the ashes of its funeral pyre, is the belief of Dr. Hugo von Zeipel, of the Astronomical Observatory at Upsals. Sweden, expressed in a monograph recently honored with the A Cressy Morrison Prize of the New York Academy of Sciences. It has long been known to scientific men that neither combustion like that of fuels for any other ordinary source of heat can possibly supply the sun with the enormous energy which it pours out continually into space as light and heat. Mogi scientists believe that the sun is kept going by some kind of atomic energy, a secret which earth iy laboratories have not yet learned. The usual idea is that this atomic energy, is set free more or less uniformly inside the sun, so that each day's output of light and heat is balanced approximately by each day's supply of new energy from atoms. This is where Dr. von Zeipel's theory

Stock Betterment **Urged on Farmers**

Most Vital Problems Faced by Dairy Industry Today, Says Commissioner

Cornwall. - Periodical testing of herds and direct efforts at improve-ment of stock are the most important questions before Canadian farmers today, sair Dr. J. A. Ruddick, Dominion Dairy Commissioner, in a address before the annual convention of the Dairymen's Association of Eastern Ontario.

values at the present time."

After explaining that in New Zealand the group testing system had so improved the quality of cattle that the average annual yield of butter fat had increased from 175 to 220 nounds for each cow. Dr. Auddick astronomers say. Because of a guiter astronomers say. Because of a guiter of the state of the

per cow in Canada is now thought to gular in form.
be about 4,500 pounds, or the equivabe about 4,509 pounds, or the equiva-lent of just about 400 pounds of cheese. If this yeld were increased by 30 per cent, which is easily pos-sible, it would be equal to an in-crease of 2½ cents a pound on the original 400 pounds of cheese at 15 contraint and is so small it can be con-sidered a mathematical point with no mass, breadth or thickness to upset-calculations. The naval observatory said Eros affords the best opportunity cents a pound, after allowing for the cost of manufacture."

From reports already received, the

Commissioner estimated butter production in 1930 was probably 10,000,000 pounds higher than in 1929, which in turn had been 6,000,000 pounds greater than in 1918. If the estimate were justified by complete returns, 1930 would show the greatest increase in butter production since

Foreign Air Mail Routes

Arranged in Divisions Ottawa.—Grouping of all foreign air-mail routes into four divisions as the basis for Canadian charges will be made by the Postoffice D ment. Officials declared that this did not mean a revision of charges s much as a grouping of the routes themselves. The plan would apply chiefly to far-away points as South American cities. The postage, including fees for all air-mail services available to any places in Canada, Great Britain, the Irish Free State, Newfoundland and the United States, will be 5 cents for the first ounce and 10 cents for each additional ounce.

Maritime Loadings in 1930 Best in Dominion

the maritime provinces sustained approximately only one-third the percentage decrease recorded in other sections of the Dominion in comparise the same period in 1929. son with the same period in 1929.
Official figures for the period show 7,701,536 tons of freight loaded in the maritimes, as against 8,091,648 tons for the first three quarters of the preceding year, a decrease of 4.8 per cent. This compares with a decrease from 28,556,480 tons to 23,639,222, or 17.4

per cent. for central Canada, 10.9 per cent for the prairie provinces, and 18.4 per cent in British Columbia. The drop for all Canada was from 57, 853, 414 to 49,820,284 or 13.9 per cent. Maritime unloadings shrank from 7,362,374 to 6,925,013, a drop of 5.9 per cent. The decrease for the Dominion was 24.3, the total declining from 59,736,501 to 51,207,656.

A comparison of September, 1930, with the some month of the preceding year, shows increased grain loadings in the West reflected by a 16.2 per cent increase in figures for the prairie provinces, whereas the central Canada zone suffered a 25.5 per cent. drop. The Dominion decrease was 7.4 per cent., and loadings in the Mari times for the month were 7 per cent nder the previous September

Loading during September for the Dominion was 14.3 per cent, less, the prairie provinces had the most favor able position with a decline of 5 while the maritimes came second with 9.8.

Oxford Shrine Damaged By Death-Watch Beetle

Oxford, Eng.—Extensive da nage by the death-watch beetle is threatenng the Shrine of St. Mary the Virgin at the University of Oxfor I church.

The church is the meca for many American visitors who trace their families through Colonial figures.

Damage to the church was discover-

Damage to the couren was discover-ed when experts were checking it for cracks caused by traffic vibrations. Immediate action is planned to rem-edy the damage and stop further ac-

Tiny Planet May Be Used As Yardstick By Astronomers

Washington.-A new yardstick to measure the solar system is envision-ed in the tiny planet Eros, which will come within 16,000,000 miles of the earth on Jan. 29.

Astronomical cameras in widely separated observatories are now being trained on this moving point of light in a world co-operative program sponsored by the International Astronomical Union.

Farmers were feeling the pinch of low prices, but, he said, the average farmer "is losing very nearly, if not quite, as much every year b, his failure to give attention to this matter as he is through the drop in values at the present time."

Cal Union.

Eros approaches the earth at certain times nearer than any other meatons are constant to the care than any other meatons. An eccentric orbit brings it close to the earth only at long intervals, the last comparatively near approach occurring in 1900-01, when the proach occurring in 1900-01, when the

pounds for each cow, Dr. Ruddick astronomers say, Because of a queer habit of disappearing at certain stages habit of disappearing at certain stages and the average annual yield of milk of its progress Eros is believed irre-

Eros is important to astronomers calculations. The naval observatory said Eros affords the best opportunity to determine what astronomers do not know-the exact distance of any object in the solar system.

Object in the solar system.

The present yardstick for measuring planetary distances is the space between the earth and the sun. Astronmers can determine precisely that an object in the heavens is so many times as far away as the sun, or a fraction as far. This can, after a fashion, be reduced to terms of miles but with a probable high degree of error, because it is not known exactly how distant is

Sun Is Time-Piece Of Eastern Tribes

Missionary Discovers Ancient Time System — Clock Does Not Register During Night

Mogador (Morocco)—Father Gag-ton, a "White Father" missionary ton, a "White Father" missionary ploration trip through little known parts of French West Africa and the Gold Coast, brought back a report of one of the most poetical time keeping systems that man ever used.

The Gold Coast natives of the hin-Halifax.—In revenue freight ton-nage loaded and unloaded in Canada during the first nine months of 1930, hours of the night there is a void in terlands have used a clock of 13 he clock. Father Gagnon translated the clock

When the roosters crow, 4 a.m.

When the earth begins to grow; ight, 5 a.m. When the sun appears, 6 a.m. When the sun is adult, 8 a.m.

When the sun shines everywhere, When the sun's rays burn, 11 a.m. When the sun turns down, 3 p.m. When the sun's rays grow softer, p.m.

When the sun turns red, 5 p.m. When the sun sleeps, 6 p.m. When the earth is given back by

When sleep approaches, 8 p.m. When sleep has come, 9 p.m.

\$4,210,140 Surplus Shown By Quebec

Total Revenue for Province; Was \$43,585,140, and Expenditure \$39,-374,910

Quebec.—A surplus of \$4,210,140.83 in the finances of the Province for the fiscal year ended June 30, 1930, was announced in the public accounts, tabled recently in the Legislative Assembly by Hon. L. A. Taschereau, Premier and Provincial Treasurer. The total revenue of the Province to the year under review was fixed at \$43,585,140.83, while the total expenditure was \$33,374,910.30. A sum of \$2,-449,500 was placed apart for the reduction of the Provincial debt.

Prominent among the revenues of the Province was that obtained from the liquor law operations, which brough \$5,500,701.76. The gasoline tax rendered \$3,972,033.5.

Harold-"You used to say there was something about me you liked." Gladys—"Yes, but you've spent it all