# A WANT AD in the Times Will Sell Those Lots. Do You Want the Money?



nestic help could be saved by simply inserting a " Help Wanted" ad. In our Classifled nns. Our paper is read the desirable class, and es into hundreds of homes that get no other.

### HELP WANTED-MALE

EN EXPERIENCED ON STEEL ranges wanted; a number of men, exceed in mounting steet ranges; also menicineed in grinding and critiling stores in age; factor; in Southern Michigan, fitty from Destroit; good wages and steady Address Box 21, Times office.

W ANTED-BOYS FROM FOURTEEN TO sixteen years of age; good pay. Ap ply Ontario Tack Co.

W4 NTED - 2 SMART CLOTHING clerks. Apply 5 Market Square. W ANTED-YOUNG MAN, SIXTREN TO eighteen, to learn the shoe business liberal pay. John F. Shea.

ANTED—A COMPETENT RELIABLE man to keep books and do other light k in lumber camp in Muskoka. Apply, ing age, sairry expected, habits, provious as employed with, Box 107, Hamitton.

SCALE MAKER WANTED, THAT THOU oughly understands making sma sighing scales. Fletcher Mfg. Co., Limited

MACHINISTS WANTED, HIGHEST WAG es and steady employment to good mer Fletcher Mfg. Co., Limited, Toronto. OCAL ORGANIZERS AND ROUTE MEN wanted. Apply Alfred Tyler, Whole-tes importer and spice grinder, Loadon,

### MISCELLANEOUS WANTS

ENDERS INVITED FOR DIGGING CEllar and putting in coment or stone foundation, 23 x 25 x 6½; 3 feet digging. 340 king William.

W ANTED-TO PURCHASE, A YORK shire terrier pup. W. S. McLaughilm Gerdner & Thompson, James street north. OMPETENT BOOKKEEPER AND ACcountant desires position. Apply Box

WANTED-TO RENT A BUILDING with a property and meter room must be within 2 of 2 blocks of Junes street best of care will be taken of property. Address Outario Pipe Line Co., Limited, 7: James street north, Sun Life Building.

## ORGANIST FOR CHARLTON AVE. Methodist Church. Apply by letter to Semmens 39 Stanley avenue.

## LOST AND FOUND

OST—BETWEEN THE RADIAL STA tion and King and James streets, in gold locket. Reward at this office.

OST\_THURSDAY AFTERNOON ON Main street, a lady's brown belt. Finder 1 be rewarded on returning it to Times

I OST—SCOTCH TERRIER BITCH PUP, answers to the name of "Noll." Reward on returning to 79 Hunter street east. Anyone found retaining it after this notice will be prosecuted.

## WIRE WORKS

## MISCLELANEOUS

GOOD WINTER ACCOMMODATIONS
for horses; Pleasant View Farm. Bow-H GHEST PRICE SECOND-HAND CLOTH-ing; special price children's clothes. 46

GENCY FOR BRANTFORD BICYCLES
and makers of Wentworth bicycles. 307
mes street north, opposite the Drill Hall.

C DE MISS PARGETER'P FINE STOCK OP hair; one giance will convince you. Pinest French, German and English goods; also American novelties and latest dyrices. Transformation bengs, janioc curls, way switches, pompadour fronts. Headquarters for theat-rical view, etc. Remember the place, 107 King street west, above Park.

D OES YOUR NNED RE-COrepairing? Take
it to Sister's 20 Rebecca St.,
or 9 Iting Willam street.

MONUMENTS and MANTELS

W OOD MANTELS, GRATES, FENDERS,
Tiling, Oboleo Granite Monumonta,
large stock in yard. Middleton Marble &
Granite Oo., Limited, Furnise & Eastman,
lanagers.

## LEGAL

BELL & PRINGLE, BARRISTERS, SOLIctiors, etc. Office, Federal Life Buildlag, fourth floor, James and Main. Money
to lend in large or small amousts a lowest
rates. Wm. Bell, R. A. Pringts.

W H.I.YAM H. WARDROPE, K.G. BAR-riator, Bollidsor, Notary Public, Office, Federal Life Building, Money to loan at lowest rates of interest.

HARRY D. PETRIM, BARRISTER, BTC Office, Spectator Bailding, Money loan-ed on Hris-cuses real estate security.

Motary. Office—No. 324 Hughson street
—Money to loan on real estate.

HENRY CARPENTER, BARRISTER, SO-heitor, etc. Money to loan on real es-tate at lowest current rates. Offices, at James etreet south.

PATENTS TRADE MARKS, DEsigns, etc., procured in
all sountries. John H. Hendry, corner James
and Rebecca street. Established 1880.

### Advertise your Wants in the Times. 10 cents will ao the trick.

HELP WANTED-FEMALE

W ANTED - APPRENTICE TO DRESS maxing; gaid. Miss West, 20: Care

WANTED—A LEADING SOPRANO, FOR the James Street haplist Cauren. Apply by letter to James Somervine, Charmana haust Committee, Speciator Bullaing. WANTED - 3 LADIES' TAILORS, ceasy work; also skirt hands. Ap-

HOIR LEADER WANTED FOR ZION
Ond applications to John S. Harker, 86 Pearl
street south.

W ANTED—A GOOD COOK; REFER-ences, Apply evenings, Mrs, John M. Eastwood, Linden Place, mast Hamilton.

W ANTED - FIRST-CLASS GENERAL OCOL. Apply Sincoe Hotel GIRLS WANTED. HAMILTON PAPER

P OCKET MAKER WANTED ON COATS

W ANTED—EXPERIENCED GENERAL servant; references required. Are McDonald, 38 Herkimer street.

W ANTED-WOMAN VEGETABLE COOK.

W OMEN AND GIRLS WANTED. AYL. mer Canning Co., Mary street. W ANTED - GOVERNESS FOR ONE ohid Address box 20, Times office.

W ANTED GIRLS TO DO LIGHT WORK, at good wages. The B. Greening Wire

W ANTED-A GOOD LAUNDRESS. AP-W ANTED-TWO HOUSEMAIDS. APPLY

### FOR SALE

WANTED, 2 FRESH MILCH COWS; GIVE age, quantities. H. D. Binkley, Dun-

F OR SALE—HAPPY THOUGHT RANGE in perfect order and natural gas attachments for \$30. 18 West avenue south.

F OR SALE-TAILORING MACHINE, AL most new. Apply 251 John north.

W ALTHAM WATCHES, \$5.50; GOLD-filled, warranted 20 years, \$8.50. Pee-bles, 213 King cast.

PIANOS ON THE "NO INTEREST PLAN"

I new and used. Lowest prices. "Spec-lal" new upright, full size, \$359; easy pay-ments; no interest. T. J. Bajne, corner King and Walnut streets. B ICYCLES FOR SALE, CASH OR EASY terms. 267 King street east. Telephone

## TO LET

O LET-WINTER COTTAGE AT BEACH (including furniture) for winter, from other 1st. Address Hamilton Post Box 289 TO LET-HOUSE ON MOUNTAIN BROW, Best End Incline, furnished or unfur-nished, hot and cold water, bath, etc., fur-nace, electric light and natural gas, three bedrooms. Box 24, Times.

BOARDING

38 WELLINGTON SOUTH, APARTMENT for young men board, \$4; without, \$1.50 W ANTED—TWO RESPECTABLE GEN-themen boarders in private family; southwest. Box 10, Times office.

## DANCING

B EGINNERS' CLASSES FORMING. J. Hackett's, 29 Barton street east. Telephone 1848.

## MEDICAL

DR. COPLAND GIBSON, SPECIALIST. tism. Office hours, 2-4 and 6-8. Phone 50.

T RANK D. W. BATES, M. D., EYE, EAR, Nose and Throat Specialist, has removed his office to Room 306, Bank of Hamilton bullding. Hours 9 to 12 and 2 to 5. Telephone 174. Dr. Bates has opened an office in Detroit, and from now on will spenfrom the 1st to the 2nd of each mouth in his office in Detroit, and from the way of the end of the mouth in Detroit.

DR. T. SHANNON McGILLIVRAY HAS removed from the corner of King and James streets to his residence, 164 James south. Specialist in heart and nervous dis-cases. Telephone 140.

J OHN P. MORTON, M.D., F.R.C.S., "Edin." James street south. Surgeon— Eye, car, nose and throat. Office hours 9 to 12, 2 to 5, 7 to 8. Telephone 1372.

G. E. HUSBAND, M. D.
Homeopathist.
129 Main street west. Telephone 255.

MONEY TO LOAN

\$200,000 —LOW INTEREST MONEY, pay 80 to 100 per cent? I toan on turniture, stock and implements, in city and country, and cash notes. See me at Commercial Hotel, Hamilton, Saturdays or Wednesdays, or phone residence, 2006. R. H. Tisdale, commissioner in H. C. J.

M ONEY TO LOAN—AT LOWISST RATES of interest on real estate security in sums to suit borrowers. No commission charged. Apply Lazier & Lazier, Spectator

## PHOTO SUPPLIES

WE GIVE SPECIAL CARE AND ATTEN tion to developing and printing for smateurs. J. Seymour, 7 John street north, Hamilton. Phone 2830. Open every evening.

FUEL FOR SALE

OR SALE, CHOICE KINDLING WOOD; best in city, Ontario Box Co., 106 Main

## Times Ads Bring Results

Call for Letters at Boxes

3, 4, 6, 15, 29, 31, 36, 39 42, d7 and 52

## REAL ESTATE FOR SALE

It OR SALE—FOUR DETACHED FRAMES, four bedrooms, bath, closet, furnace and electric light; number 43 Dundurn; \$2,200. Staunton, O'Heir & Morison, Barristers.

F OR SALE—12% AORES FRUIT AND vegetable farm, 1 mile east of Sherman avenue, on King street; large new brick house with all latest conveniences. Apply E. G. Taylor, Bartonville.

PRIVATE PARTIES, CONTRACTORS, builders—for sale, 10 choice building lots and factory site; going out of business; wish to sell in one week; make offers for one or all. Call evenings, 10 Sheriman avenue, south of King.

F OR SALE—THE BEST, MOST EXTEN-sive centrally located free stone quarry in this region; price very low. P. J. Gage, Federal Life Building.

J OHN M. BURNS, REAL ESTATE AND Insurance, 30 King street east, agent for Atlas and Caledonia Fire Insurance Co. and Dominion Guarantee and Accident Insurance

## ROOMS TO LET

F URNISHED OR UNFURNISHED ROOMS to let. Apply Mrs. T. H. Smith, Kensington avenue, Crown Point.

L ARGE ROOM TO LET, WITH OR WITH-out board, gentlemen preferred. 285 Hugheon north.

TO RENT - NEATLY FURNISHED house, having 2 bedrooms and all improvements in east end. Apply to box 19, Times office.

### STORAGE

O TORAGE WAREHOUSE — FOR MER-chandles, furniture, planes, trunks, val-uables; separate rooms for each family's goods. Myles Fireproof Warehouse, Main and Hugheon. Phone 690.

**JEWELRY** MAKE NO MISTAKE. TRY E. K. PASS
for your wodding and engagement
rings; license also. See our large stock,
brooches, lovely gold watches, guards, bracelets, scarf pins. We sell chesp. Try us for
good watch repairing. E. K. Pass, English
joweler, 51 John street south.

DENTAL

R. BRIGGS, DENTIST, WILL RESUME practice Saturday, Aug 10, at 38½ King D.R. M. F. BINKLEY, DENTIST, PRIOES that appeal to the working classes. ARTIFICIAL TEETH receiving special consideration. MATERIAL AND WORKMAN-SHIP, no better to be bad at any price. Office 17% King street east, Hamikon.

DR. JAMES F. McDONALD, DENTIST, Grossman's Hall, 67 James street north. PIANO TUNING

M. RAYMOND PIANO TUNER. (FROM John Broadwood & Sons, London, Eng.) Address orders to 154 Hennah street east, phone 1978; or to Mack's Drug Stope.

MUSICAL M ARGARET B. MCCOY, PUPIL OF WM.
Shakespeare, Lon., Eng., teacher of
roleo production. Studio—Chancery Cham-bers. Resident 'phone 1817.

L. M. HARRIS, MUS. DOC., Teacher
SINGING, PIANO, PHEORY.
Studio-206 Jackson west. Telephone 373.



# SYNOPSIS OF CANADIAN NORTH-WEST

HOMESTEAD REGULATIONS.

A NY even numbered section of Dominion Lands in Manitoba or the North-West Provinces, excepting 8 and 88, not reserved, may be homesteeded by any person the sole heed of the family, or male over 13 years of age, to the extent of one-quarter section, of 180 acres, more or less. Application for homstead entry must be made in person by the applicant at the office of the local Agent or Sub-agent. Entry by proxy may, however, be made on cartain conditions by the father, mother, son, daughter, brother, or sister of an intending homesteader.

ter, brother, or aister of an intending homesteader.

An application for entry or inspection made
personally at any Sub-agent's office may be
wired to the local Agent by the Sub-agent,
at the expense of the applicant, and if the
land applied for is vacant on receipt of the
tolegram such application is to have priority
and the land will be held until the necessary papers to complete the transaction are
received by mail.

In case-of-"personation" the entry will be
summarily cancelled and the applicant will
forfeit all priority of cisim.

An application for inspection must be
made in person. The applicant must be eligible for homestead entry, and only one application for inspection will be received from
an individual until that application has been
disposed of the proposal of the pr

disposed of.

A homesteader whose entry is in good standing and not lisable to concellation, may, subject to approval of Department, refindush it in favor of tather, mother both and applicate the protein or ester, if eligible, but to no one else, on filling declaration of abandonment

an entry is summarily cancelled, tarily abandoned, subsequent to in-of cancellation proceedings, the ap-or inspection will be entitled to prior entry. plicant for inspection will be entitled to prior right of entry.

Applicants for inspection must state in what particulars the homesteader is in default, and if subsequently the statement is found to be incorrect in material particulars the applicant will lose any prior right of re-entry, should the land become vacant, or if entry thas been granted it may be summarily cancelled.

cancelled.

DUTIES—A settler is required to perform the conditions under one of the following

DUTIES—A settler is required to perform the conditions under one of the following plans:—

(1) At least six months' residence upon and cultivation of the land in sech year during the term of three sech sech year during the term of three sech sech year during the term of three sech sech years are self-second, of a homesteader resides upon a farm in the vicinity of the land entered for by such homesteader the requirement as to residence may be satisfied by also person residing, with the father or my also person (3) If the sottler has his permanent residence upon farming hand owned by him in the vicinity of his homestead, the requirement may be satisfied by residence upon such land.

the content of his homestead, the requirement may be satisfied by residence upon such land.

Before making application for patent the sottler must give six months' notice in writing to the Commissioner of Dominion Lands at Ottawa, of his intention to do so.

SYNOPSIS OF CANADIAN NORTH-WEST MINING REGULATIONS.

COA.—Coal mining rights may be leased for a period of twenty-one years at an annual content of the coal mining rights may be leased to a period of twenty-one years at an annual company. A royalty at the rate of five cents per ton shall be leased to me individual or company. A royalty at the rate of five cents per ton shall be leased to me individual or company. A royalty at the rate of five cents per ton shall be eased to one individual or company. A royalty at the rate of five cents per ton shall be eased to one individual or company. A royalty at the rate of five cents per ton shall be eased to one individual or company. A royalty at the rate of five cents per ton shall be eased to one individual or company. A royalty at the rate of five cents per ton shall be expended on the merce in lieu thereof. When \$500 has been expended or paid, the locator may, upon having a survey made, and upon complying with other requirements, purchase the land at \$1 per acre.

The patent provides for the payment of a

requirements, purchase the land at \$1 per acre.

The patent provides for the payment of a royalty of 2½ per cent. on the sales.

Placer mining claims generally are 100 feet equare; entry fee \$5. renewable yearly.

An applicant may obtain two leases to dredge for gold of five miles each for a torm of twenty years, renewable at the discretion of the Minister of the Interior.

The leases shall have a dredge in operation within one seeson from the date of the lease for each five miles. Rental \$10 per annum for each mile of river leased. Royalty at the rate of 2½ per cent. collected on the output after it exceeds \$10.000.

Deouty of the Minister of the Interior.

N.B.—Unauthorized publication of flux advertisgment will not be paid for.

## LOTS FOR SALE



Aberdeen, Cottage, Beulah, Mount Royal avenues and Garth street.
Lovely southwest section.
Latest improvements, graded streets, sewers, and cement sidewalks layed and paid for; city water, natural gas, electric light; proper building restrictions.

These are choice lots, too, all laid out and ready for building upon, in most desirable location for homes sites, or investment. Values of our properties are certain to rise, as the vicinity is being rapidly developed and built upon.

For homes or lots in this survey call upon the owner.

W. D. FLATT, Room 15, FEDERAL LIFE H. H. DAVIS, Manager

# MARKETS AND FINANCE

COBALT NOTES

TORONTO FARMERS' MARKET.

The offerings of grain to-day were on with prices firm. Wheat firmer, 200 bus of white selling at 91 to 32c. Barley is changed, 100 bushels selling at 90 to 51c. Hay quiet and firm, with sales of 20 leat \$19 to \$20 a ton. Straw is nominal \$14 a ton, while a load of loose seld at Dressed hogs are unchanged at \$9.15 and \$15 to 100 and \$10 t

TORONTO FRUIT AND VEGETABLE

WINNIPEG WHEAT MARKET

FLOUR PRICES.

Flour—Manitoba patent, \$4.80 to \$5.20, track, foronto; Ontario, 90 per cent. patent, \$3.50 id for export; Manitoba patent, special rrands \$5.20; second patent, \$4.70; strong pakers', \$4.60. TORONTO LIVE STOCK MARKET

TORONTO LIVE STOCK MARKET.

Receipts of live stock at the city market as reported by the railways, since Tuesday, were 123 car loads, consisting of 1,316-cattle, 1,100 hogs, 3,337 sheep and lambs, 260 caives and 3 hotses.

The quality of fat cattle generally was no better, in fact, worse, and the same can be the stock of the stock of the same can be result of the sheep and lambs, of which the stock of the same can be result of the stock of the same can be result of the stock of the same can be result of the stock of the same can be carried to the stock of the same can be carried to the stock of the same can be carried to the stock of the same can be carried to the stock of the same can be same

Milch cowe—The number of milkers offered on Wednesday and Thureday was large and nearly every dealer reported prices from \$5 to \$5 per head lower than on Tuesday. Prices ranged from \$5 to \$15 for the bulk of the best, although as high as \$50 was paid for one or two of extra milking qualities to dispose of at \$5 to \$30 can. Veal cairves—Cairves seell about as well as any kind of stock offered, although there was a large number of the sour milk class on gale. Prices ranged from \$1 to \$9 per cwt., and \$7 per cwt. was paid during the week for prime quality.

Sheep and lambs—The run was large, with a lot of small rough lambs, which caused prices to go lower than ever this season. Export ewes, \$4.5 to \$4.00 that \$5.00 for the half of the season \$4.50 to \$1.50 for the half of the season \$4.50 to \$1.50 for the half of \$1.50 for the

GRAIN PRICES SOARING. Torotto, Sept. 13.—Frost in Alberta and Saskatchewan, with falls of snow, created active buying of wheat at Wiznipey yesterday, the October option rising to a new high zrice, 1.03½. Toronto buyers advanced bids for wheat and other grains yesterday, but supplies are still exceedingly slow in coming forward. At the St. Lowrence market fall wheat sold as high as 92c a bushel.

Winnings, Sept. 12.—A total grain crop of 100,000,000 bushels, including wheat 80,000,000, 100 to 85,000,000 bushels; cats, 87,500,000, bushels; cats, 87,500,000 bushels; cats, 87,500,000, bushels; cats, 87,500,000 bushels; ca THE WEST'S TOTAL CROP.

Pittsburg, Sept. 13 .- Oil epened \$1.77

Mr. J. A. Spear, who is to be elected treasurer of the Crawford Mining Company, whose properties are at Otto Lake, near Boston station, writes as follows from Englehart:—"Mr. Crawford has come down from the properties with samples of the new discovery on the

## THE RIGHT OF SUPERANNUATES.

HOW TO DO THIS PUZZLES THE

CHURCH UNION COMMITTEE. Hope to Find Way Out-Methodist and Presbyterian Admisistrations Differ -Committee Dealing With That Portion of Basis of Union Has Been Enlarged and Subdivided.

Toronto, Sept. 13.—The hardest proposition efore the Joint Committee on Church Union before the Joint Committee on Church Union at present appears to be that with which one of the sub-committees wrestled yesterday afternoon—vir., the administration of benevolent funds, such as those for the support of aged and infirm ministers and of ministers, widows and orphans. In the Preshverian Church contribution to such a fund byterian Church contribution to such a fund is voluntary, but in the Methodist Church it is obligatory, and the methods of obtain-

ing and disbursing the revenue of these funds therefore differ materially. The different methods adopted were gone into by one of the sub-committees of the

bers. These are dealing, respectively, with the benevolent funds, publishing interests, oleges and their support, and missions The added Congregational members of the ub-committee on administration, chosen yes-

terday morning, are Rev. Prof. Warriner, Rev. W. T. Gunn, Rev. F. J. Day and Mr. Rev. W. T. Guin, Rev. F. J. Day and Mr. Henry O'Hara.

The sub-committee of the Committee on Administration, which has to deal with missions, talked over the arrangement of the missionary work and the different funds in the various churches that would come under certain departments in the proposed new Church.

new Church. The sub-committee on book and publish-

The sub-committee on book and publish-ing interests received information as to the workings in the different churches, and de-cided that there are no practical obstacles in that respect.

The sub-committee on polity, of which Jus-tice Maclaren is Chairman and Prof. W. C. Murray is Secretary, went over its report satisfactory went over its report yesterday afternoon. It is nearly completed, and no serious difficulties have emerged. The committee is making satisfactory pro-

gress.

The Presbyterians met last night, under the Chairmanship of Principal Patrick, and with a large attendance of the section. They went carefully over the entire dectrinal statement, and agreed after full and free discussions. sion to make representation on two

## Committee this morning

ALLEGED LUMBER COMBINE, Western Dealers Deny That There Was

Agreement to Raise Prices.
Edmonton, Alberta, Sept. 12.—Yesterday afternoon's session of the inquiry into the charges against the Lumber Dealers' Association, the so-called Lumber combine, for alleged conspiracy with respect to the restraint of trade, was devoted to the examination of John W. McNeil, of the Enterprise Lumber Co., of Lethbridge, and Mr. Helliwel, of Edmonton. Both witnesses were very specific in their denial of the charge of there being any agreement or understanding, secretly or otherwise, between the members to unduly enhance the price of lumber. Agreement to Raise Prices.

ber.

Examined by Mr. Bennett, Mr. McNeil declared that the asociation had nothing to do with fixing the price of lumber. There had been no arrangement as to rebates, either directly or indirectly, searet or otherwise.

## Belligerency Rebuked.

Mr. McPherson seems to be a very loose-mouthed individual, if he is correctly reported. He might recollect that if "British Columbia must be a white man's country" the British Columbians should begin by sating like white men and not like savage abouting.

## **ELECTRIC POWER.**

THREE DIFFERENT TYPICAL POWER DEVELOPMENT PLANTS.

Dominion Power & Transmission Company's Plant, the Edison Electric Company's California Plant and the Great Northern Company's Power

Guy Cramer in this month's System

Magazine.) This progress of power development is educing the waste of natural resources and while it contributes to industrial econ

omy. It holds the secret in which manuacturers, in the many sections of the facturers, in the many sections of the country where this development yet is unthought of, may find that solution of the problem of cheap power which will contribute to increasing individual success and national industrial upbuilding. For electric power and transmission yield a multitude of advantages, all contributing to power cost reduction, to increased mechanical and human efficiency and to quality improvement. Electric power genquality improvement. Electric power generated by hydraulic energy allows the nearest approach to a minimum of pow-

er cost.

How, then, can tness highly desirable advantages be secured to the manufacturer? Solution of this problem for many divisions of the country may be attained by observing what is being done elsewhere—study of typical development plants where human ingenuity and artificial devisement are turning to industry making energy the force which for centuries has lain dormant or gone to useless waste. And that which already has been accomplished points the way to the possibilities of the future.

Far up in the lower Sierras of California, where Korn River sprawls over the jagged reaches, through a conduit more than eight miles in length, bored through the granite hills, the waters now pour

than eight miles in length, bored through the granite hills, the waters now pour their volume, thence charging down upon turbines that whirl the huge mechanisms in the power house and flash over transmission cables to Los Angeles, one hundred and seventeen miles away, the electrical energy that turns industry's wheels in that and adjacent cities. Fourten miles outside Duluth—at Thomson, Minnesota—the St. Louis River has been made to divert its waters to a canal, cut to a length of almost three miles, which finally hurls this flood through penstocks upon power wheels

through penstocks upon power wheels that give the initial impetus which ends in the distribution of electric power from the receiving station miles away in the "zenith city."

At Hamilton, Ontario, and in its adjacent towns and cities street cars and factories are running under electric power transmitted from St. Catharines, aper transmitted from St. Catharines, approximately thirty-five miles distant, where a channel especially cut now diverts the waters of the Welland Canal at the Lake Erie level. plunges them gainst turbines and then releases the flow at the Lake Ontario level.

Here are the three typical plants—typical of the power development advance and typical of the variation in its production. For each differs from the other in the method of harnessing water power because of the diverse natural conditions and the varying transmission problems encountered.

now is to be directed to constructing plants Nos. 2, 3 and 4 on the Kern river, which are to approximate 100,000 horse-power in addition to the average output of 20,000 horse-power from the present station. While driving off that Pacific coast bogy—the fuel supply problem—industry finds a saving of sixty per cent. in power cost with mechanical efficiency increased thirty-five per cent. The smoke problem is dwindling. And Los Angeles and its adjacent centres—San Pedro, Long Beach, San Bernardino, Highlands, Redlands, Riverside, Colton, Pomona, Claremont, Whittier, Fullerton, Anaheim, Santa Ana, Orange and other towns—look forward to enjoying cheaper manufacturing power than ever existed in any other section of the United States, excepting possibly that limited area of the middle West which benefited when the natural gas supply was at the maximum.

In the plant of the Dominion Power.

when the natural gas supply was at its maximum.

In the plant of the Dominion Power Transmission Company at St. Catharines, the development of quiet flow by artificial device and the need of shorter transmission were encountered. Under lease from the Canadian Government water is diverted from the Welland Canal at the Lake Erie level, carried through a canal five miles in length to St. Catharines, which lies thirty-five miles from Hamilton, and there discharged into a forebay and plunged through steel penstocks 940 feet long against turbine wheels in the hydraulic station.

The impulse wheels are located approximately twenty feet above the level of Lake Ontario, the water charged against them under a static head of 260 feet, or 120 feet greater than that at Niagara, and then returned to the Welland channel at the Ontario level. The 42,000 horse-power here generated, the hydraulic plant being one of the most economical in America, can be increased to 55,000 at any time by the adding of penstocks.

Here are actual, not theoretical results.

Brantford, and the towns of Beamsville, Thorold, Merritton, Grimsby; Oakville, Burlington, Dundas and Welland. The Department of Railways and Canals of

Here are actual, not theoretical, results that have been secured to manufacturers in this field; a reduction in power cost under steam of from fifty to sixty per cent; an increase in plant mechanical efficiency of from thirty-five to forty per cent. In the investment that would be required for the installation of individual power plants. The smoke nulsance and fuel supply problems are satisfactorily solved.

The field supplied—and there are more than 1,200 customers already—is, roughly, fifty-seven miles long by fifteen miles wide at the power-house end and about twenty miles wide at the farthest point of delivery. Within this territory lie the cities of St. Catharinee, Hamilton and Brantford, and the towns of Beamsville, Here are actual, not theoretical, results

Burington, Dundas and Welland. The Department of Railways and Canals of the Canadian Government uses this powers to light and operate the Welland Canal. Among the industrial establishments displacing steamdriven power with this energy—and this is prime proof of its economy and efficiency—are the Plymouth Cordage Company at Welland; the McKinnon Dash & Metal Works and the Jenckes Machine Company at St. Catharines; the Canadian Westinghouse Company, the Canadian Colored Cotton Mills Company, the Hamilton Cotton Company, the Hamilton Steel & Iron Company, the Hamilton Bridge Works and the Canada Screw Company, all at Hamilton. In addition, interurban and other electric lines are operated.

in the method of harmessing water power of the canned of t