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                        CANADA
                DEPARTMENT OF TRADE AND COMMERCE
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                DOMINION BUREAU OF STATISTICS
    FAMILY LIVING EXPENDITURES
in
CANADA

## NUTRITIVE VALUES OF WAGE-EARNER <br> FAMILY FOOD PURCHASES

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# DOMINIOR EJREAU OH Statistics - CANADA DEPISRTMETT OY TRADE AND COMMERCE 

FAMILY IIVING EXPENDITURES IN CANADA

NUTRITIVE VALUES OF WA M- EARUER FAMIIY FOOD PURCHASES

## INTRODUCTORY

This preliminary release presents some of the nutritional values computed from records of family food purchases cotained during the Dominion Bureau of Statistics survey of nutrition and family living expenditures in 1938-39. Data have been prepared in graphic as well as tabular form and are eccompanied by brief textual comment. The purpose in view is threefold, (1) to indjcate the relative importance of different food groups as sources of nutritive requirements entering into family food stocks, (2) to show the relationships between food Truxchases and Canadian Dietary Standard values of adequacy for calories ncoteir. jron and salcium as cormuted by the Canadian Council on Nutrition, and (3) to show the relation betreen mutritive values and food costs at different seasons and income levels.

Calculations have been besed unon 1.569 family food records for one week in October-November 1938, 1.145 in Tebruant 2939 and 4.53 in June 1939. The shrinkage in numbers of families from survey to survey was due to the fact that only families who had contributed to the first survey were aroroalled in the second, and likewise all third survey period families had contributed records in the first and second periods. Quantities and costs of purchases wore entored each day of the moek in journals printed for the purposo, aftor an oxplanation by spocially instructed ficld agents.

The families furnisking recosds in all cases included husband and wife With one or more childien living in the home. They had been self-supporting throughout the year, and family earnings in all cases were be'tweon $\$ 450$ and $\$ 2,500$ per annum for the year immediately preceding the ociober-November 1938 food survey. Families were selected upon a random sampiné basis in the following trelve cities: Charlottetown, P.E.I., Saint John, N.B., Malifax, NoS., Quebse, P.Q., Montreal, P.Q., Ottava, Ont., Toronto, Ont., London, Onto, Winnipeg, Mano, Saskatoon, Sask., Edmonton, Alta., and Vancouver, B.C.

Analysis of nutritive requireraents has been limited to estimates of calories, protein, iron, calcium, and phosphorus in food purchased for home consumption. No attempt was made to evaluate vitamin content. The values used in computing the nutritive content of different foods represented exper:mental Canadian and American data in the possession of the University of Ioionto Department of Physiology and Hygiene. The Bureau is indebted to Dr. E, W. McHonry for making this material available.

## Appraisal of the Data

Purchases of foods are by mo means identical with consumption of foods, even for a long period. The data uaed in this analysis cover purchases for regular home consumption for only three weekly infervals and do not include foods purchased and eaten out of the home, or gifts of food, garden produce, etc., used during the weaks in question There was also a small residue of fegular fod purchases for which no nutritive values were available. Careful estimates of all these unmeasured items placed their value at less than 15 per cent of average weekly food expenditure, but it is improbable that the nutritive content of this group was proportionate to cost, since it included such items as tea, coffee and soft drinks. Against the unmeasured residue of foods, was to from food purchasos for regular use would 10 cru an offset of unknown value. Inferences from these data aro affected by the fact that they are in the form of averages for many families. This favours a balarso betweon foods used from stocks on hand at the beginning of the week, and purchases left over at the end of the week, and hence average purchases may be expected to be approximately oqual to foods used for consumption. However, satisfactory averagos from a nutritional point of view for a large group of familics may hido conditions of malnutrition for consíderable numbers of families and individuals, Averages of this type are influenced by the purchases of families who buy more than optimum nutritive requirements.


## QUN RIBUTIONS OF PRINCIPAL FOOD PURCHASES TO NUMRITIVE VALUES

The pincipal food grouns comprising regular food purchases are here discussed in relation to their dietotic value, Averages of purchases in all three survey periods form the lasis of calculations made. In addition, the proportions of total food expenditure for various food groups are noted to indicate the relative expensiveness of each as a source $\mathrm{D}^{2}$ different nutritive ralues. However, the question of costs is considered more iully in the thisd section.

Meats - Meat produc's accounted for about 20 per cent of the cost of tho average family's wockly food purchases. The chief nutritive elements obtained from this source were protein, iron and phosphorus. Erotein from meat products amounted to 28 per cent of the total recoived from all sources, while the iron content comprised almost 25 per cont of all iron received. Meats provided 19 per cent of the total phosphorus in regular food purchases, 12 per cent of the caloric content and 2 pei cons of the calcium.

Figy. .. Purchases of fresh. ciad, and canned fish formed a small proportion of family food purchesos, amounting to only 2 per cent of all expenditures for regular use, Nutritive values availablo faom this source were corrospondingly low, being less than 4 per cent of 0.17 proteins 3 per cent of phosphorus, and less than one per cent of calories, fron and calcium.

Da,iry Products - The average weekly outlay for dairy products comprised moro than onerfourth of all food purchases, the highest cost shown for any of the commodity groups. Dairy ymoducts mero an exceodingly rich source of calcium, supplying over 70 per cont of the tutal quantity purchascd. Almost nine-tenths of this amount was obtained from milk, and most of the remainder from cheese. Dairy products also containcd onethird of all phosphorus, onc-forxth of calories, and almost onc-fifth of the protein supply. A comparativoly low iron content was shown for this group. Which provided only 8 per cent of the iron obtained from all rogular food purchasos.

Fggs - Purchasos of egge formed 5 per cent of family food costs. Tho quantities purchasod by survoy familics provided 8 por cent of thoir iron, 6 per cent of phosphorus, and 5 per cent of protoin. They furnished only a small proportion of calorios and calcium, aporoximately 2 per cent of the total in each case。

Coreal Products - Cereals formed one of the most inexpensive sources of nutritive requirerents. This group accounted for 18 per cent of all food expenditures, yet provided much higher proportions of nutritive constituents, with the exception of calcium. Cereal froducts provided the principal sources of calories, protein, and iron. They furnished over 30 per cent of the total caloric content of food purchases, almost 35 per cent of all protein, and 25 per cent of iron and phosphorus. in addition this group supplied 11 per cent of ail calcium.

Sufar Products - Leas then 6 per cent of femily food outlay was expended for sugar products, which contained about 14 per cent of total calories available. Moro than 6 per cent of all iron was derivod from the samo source, but only 3 per cent of calcium. and less than 1 por cent of protein and phosphorus.

Vogetabies - Vegetables formed 9 per cent of the weekly cost of foods, but supplied 23 per cent of all iron, and 12 per cent of phosphorus. In addition this group also provided 8 per cont of all protein, and 7 per cent cach of calcium and cajories. As already noted, no attempt wes made $\ddagger 0$ estimate the viterain content of vegetable purchases.

Fruits - Purchases of fruits appeared expensive to wage earner families in relation to the proportion of total food values obtained. However, fruits are an important source of vitamins, vitanin $C$ in particular being characteristic of citrus and other fruits. This group accouzted for about 8 per cent of food costs, and provided 4 per cent of iror, 3 per cent of caiories and calcium, 2 per cent of phosphorus and 1 per cent of protein.


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Nutritive Values 0 otained from Feekly Furchases of Specified Food Groups (Expressed as Percentage of Specified Nutritive Requirements Obtained)
(Average of 3 Seasons)

| Commodity <br> Group | - Percontage of Total <br> - Weekly Food <br> - Costs for <br> : Regular Uso: | Calorics | Protein | Iron | Calcium | : Phosphorus |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Meats ........... | 20.7 | 12.4 | 27.5 | 24.7 | 2.2 | 18.6 |
| Fish ............ | 2.1 | 0.8 | 3.5 | 0.9 | 0.4 | 2.5 |
| Dairy Products . | 26.7 | 25.0 | 19.5 | 7.6 | 71.6 | 32.8 |
| Eggs ............ | 5.3 | 1.7 | 4.9 | 7.7 | 2.5 | 5.6 |
| Coreal Products. | 17.7 | 31.1 | 34.5 | 24.8 | 10.9 | 25.0 |
| Sugar Producto .. | 5.5 | 13.6 | 0.5 | 6.1 | 3.1 | 0.4 |
| Vegetablos ...... | 8.7 | 7.3 | 8.3 | 23.3 | 6.6 | 12.4 |
| Fruits .......... | 7.9 | 2.9 | 1.0 | 4.6 | 2.5 | 1.9 |
| Fats \& Oils ..... | 1.4 | 4.9 | 1. | . | 2.5 | 1.9 |
| Miscollancousx... | 4.0 | 0.3 | 0.3 | 0.3 | 0.2 | 0.8 |
| Total ...... | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |

x Includes tea, coffee, salt, popper, and other items, most of which have no appreciable
food values.

## FOOD PURCHASES IN RETIATION TO THE CANADIAN DIETARY STANDARD

Nutritive values of weekly food purchases of Canadian urban wagemearner families were computed at different seasons of the year, and also at progressive levels of family income por porson for the october-November 1938 period. The available supply of principal nutritive requirements including calories, protein, calcium, etc., was calculated from tho quantities of foods purchased by the survey families for regular use. As noted in the introduction, fooc consumption was affected also by foods purchased and eaten out of tho homo, homo gardan produce, gifts, etc. Nutritive values of food purchases wero compared with the intake requirements as outlined in the Conadian Dietary Standard established by the Canadian Council on Nutrition.

In general, results showed that a closer approach to nutritional adequacy could be obtained from February food pirchases than from those in October or june. Differences were small, however, and of doubtful significance. The favourable showing of February 1939 over October 1938 may have been influenced by a fall of approximately 3 per cent in the lovel of retail food prices between these dates. It is also possible that the October survey mey have stmulated interest in the problem of nutrition and thereby influenced the results lader obtained. However, this was not apparent in any appreciable increase in the purchases of such foods as milk or tomato juice. Further, the February increaso in calorios was just as large as for iron or calcium, but such would not have been the case if purchases had been influenced by an offort to improve the belence between these dietotic neods. The October calory supply was adoquate in aggrogate, Whereas that for iron and calcium was not.

Calories - Fond purchases of the average wage-earner family appeared to supply sufficient calories for an adequate diet. The caloric value of food purchases by survey families affordod a daily avorage of 2,468 calories per person regardless of age or sex. By converting survey family age distributions into man value units on the basis of the Canadian Dietary Standard scale of values, it was found that food purchases provided a daily average of $2,9 ? 2$ calories per slen value. This calculation was based on the Standard's requirement of 2,800 calories par day for an adult male employed in "light manual work". Occupations of survey family heads approached this category more closely than any other. On this besis, the caloric velue of foods purchased by these families was 4 per cent above the requirements set by the Canadian Standard. However, it ahould be noted that any appraisal of the typo of work done by the femily head is arbitrary in character, and the differences in caloric requirements for males engaged in "moderate", "hard", and "very hard" labour would lead to noticeable changes in the foregoing percentage comparison with Standard requiroments.

Protein - The Canadian Dietary Standard calls for 84.0 grams of protein per day for men engaged in light manval work. The protein content of foods purchased by wageearner families allowed 84.5 groms daily per man value, indicating a sufficient availablo supply, if the assumption noted above concerning tjpe of work done by male wago-earners was correct. However, as shown in a later section, protein per man value available at

progressive incore levels differed, and a noticcable protein deficioncy ras apjaient in the lower incone ranges, with an oversupply available at higher income levels.

Survey data indicated that of the 84.5 grams of protein per nan value available daily, 38 grams or almost $2 / 5$ of the total came from animal sources including meats, fish, dairy products and eggs. This fraction was slightly in excess of the $1 / 3$ prescribed by the Canadian Dietary Standard ( 28 grams in this instance).

Iron - The diets of survey families appeared to be slightly deficient in the amount of iron supplied from their regular food purchases. For the everage family, the iron content of food purchases amounted to 9.5 milligrams per man value or 95 per cent of the requirements shown by the Canadian Dietary Standard.

Calcium - The most pronounced deficiency in food values was in the calcium available to survey families. Only among families at high income levels was the supply of calcium found to be adequato, For the averago family, however, the calcium cuntent of foods purchasod was 87 per cont of the Canadian Dietary Standard. It amounted to 0.52 grams per man value daily, as against a computed requirement of 0.60 grams per man value for these familios.

Applying the Dietary Standard of milk consumption requirements to the age and sex distribution of survey families, it was found that 0.35 grams of calcium per man value should be supplied from this source daily. The amount shown as being provided from milk purchases was somewhat lowor, averaging 0.24 grams per man value, or about 70 per cent of the standard. Average milk purchases of survey families amounted to 0.34 pints per man value daily, while Dietary Standard requirement for these families was 0.50 pints. The average purchase per person amounted to 0.65 pints per day.

## Seasonal Variation in Food Purchases in Relation to the Dietary Standard.

The natritive value of wage-earner family food purchases was greatest during the winter survey period in February, and least during that in October. However, variations were not large, and the nutritive value of family food purchasos expressed as a percontage of Stendard requirements did not vary more than 5 per cont botwoon tho soasons considered. Theso porcontages aro shown in the following table, along with the averages already noted for the three periods combined.
$\frac{\text { Nutritive Values of Family Food Purchases in Relation to Intake Requirements }}{\text { of }}$
Nutritive Contents as a Percentage of Standard Requirements

| Seasons | $\begin{aligned} & \text { October } \\ & 1938 \end{aligned}$ |  | $\begin{gathered} \text { February } \\ 1939 \end{gathered}$ |  | $\begin{aligned} & \text { June } \\ & 1939 \end{aligned}$ |  | Average |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Calories | 101.7 |  | 105.6 |  | 104.7 |  | 104.0 |
| Protein | 98.8 |  | 102.5 |  | 100.4 |  | 100.6 |
| Ir on | 93.8 |  | 98.1 |  | 94.1 |  | 95.3 |
| Calcium | 84.7 |  | 89.3 |  | 87.8 |  | 87.2 |

## Income and Food Purchases in Relation to the Dietary Standard

Families with annual incomes between $\$ 100$ and $\$ 199$ per person showed deficiencies in all nutritive requirements when compared with the Canadian Dietary Standard. These ranged from an 8 per cent deficiency in calories, to one of 36 per cent in calcium. As incomes moved higher, there was a consistent improvement in nutritive values obtained. Families with incomes ranging between $\$ 200$ and $\$ 299$ per person received an adequate supply of calorics and were oniy 2 per cont deficient in protoin. Hovever, there was still a noticcabla deficiency of calcium, and to a lesser extent, of iron. At the \$300-\$399 incomo level, familics were receiving sufficient amounts of all nutritive roquirements, with the exception of calcium which showed 14 per cent below Standard requirements. Families from the $\$ 400-\$ 1 / 99$ income per person group upwards obtained satisfactory nutritive content of all types, and at the $\$ 600$ and over income level were receiving 17 per cent over the standard for protein, 16 per cent for iron, and 11 per cent each for calcium and calories.

Nutritive Talue of Family Food Furchases in Relation to Feruivemgate of the Canadian Dietary Standard at Progressive Levels of Income per Person
(October-November, 1938)
(Food Value Content Expressed as Percentage of Standard Requirements)

| Income <br> per Person | $\vdots$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |

It will be noted from this table that the greatest increase was that experienced in the calcium content of wage-earner family food purckases, and the least. that in the caloric content. Increased consumption of milk by families at higher incomo levels explains in part this pronounced advance in calcium supply. Howevor, in no income group did the amount of milk purchases reach the Canadian Diotary Standard. For families with incomes botreen $\$ 100-199$ por person, milk purchases amounted to only 49 por cen' of the Standard's requirements. Those with incomes of $\$ 600$ and upwards showed a more satisfactory supply of 93 per cent of the Standard.

## Calcium Obtained from Milk Purchases ${ }^{\mathrm{X}}$ in Relation to Canadian <br> Dietary Standard Requirements <br> (According to Income per Person)



Calcium from
milk as percent-
age of standard
requirements ...
$49.3 \quad 64.6$
68.3
80.6
88.6
93.1
x This does not include condensed and powdered milk, or fresh cream.

## ECONOMY OF URBAN TAGE-EARIVER FAMILY FOOD PURCHASES

A further aspect of the relationship betreen food costs and food values, is that concornod with the oconomy of purchases at different scasons of the year, and among families in different income positions. To gain some idea of such rolationships, the mutritive values dorivod from principal food groups woro exeminod in relation to the actual outlay expended to obtain them. This made possible a comparison of the units of different nutritive requirements received per dollar expenditure upon the various food groups.

Results of this comoarison indicated that nutritive value obtained per dollar oxponditure was greatest during the survey woek in February, and least during that in June. Also it was shown that families at lower income levols recoived moro food value per dollar of food purchases than those in the higher income groups, although as already shown, nutritive deficienctes apparently were most frequent at lower income levols. Differences at the three seasons of the year were not pronounced. Survey families received approximately 9,900 calories per dollar of expendituro in October, 10,100 in February and 9,800 in June. A similar relationship was noted for protein, iron, calcium and phosphorus.
$\frac{\text { Average Nutritive Values Recoived per Dollar of Food Expenditure }}{\text { According to Seasons }}$

|  | October | February | June | Avorage |
| :---: | :---: | :---: | :---: | :---: |
| Calories | 9,940 | 10,140 | 9,830 | 9,970 |
| Protein (Gr.) ..... | 299 | 305 | 292 | 299 |
| Iron (Mgm.) ....... | 50 | 51 | 48 | 50 |
| Calcium (Gr.) ..... | 2.9 | 3.0 | 2.9 | 2.9 |
| Phosphorus (Gr.) .. | 4.9 | 5.0 | 4.7 | 4.9 |

Difforoncos among familios at progrossivo levcls of incomo per porson wore more appreciable. Those with incomes betwean $\$ 100$ and $\$ 199$ per person obtained an average of 11,800 calories per dollar of food expenditure. This amount dropped steadily to 8,400 calories for families with incomes ranging from $\$ 600$ per person uprards. Similar trends were obsorved for other food constituents. For example, the amount of protein obtained in food purchases by families in the $\$ 100-\$ 199$ group averaged 340 grams. This was reduced to 268 grams and 273 grams respectively, for those with incomes betweon $\$ 500$ and $\$ 599$ per porson and $\$ 600+$ per person (quantities per dollar of expenditure in

Average Nutritivo Values Recoived per Dollar of Food Expenditure
at Progressive Income per ?erson Levels

| Income per Person | \$100-199 | \$200-299 | \$300-399 | \$400-499 | \$500-599 | \$600+ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Calories ....... | 11,81.0 | 10,710 | 9.720 | 8,990 | 8.700 | 8,420 |
| Protein (Gr.)... | 340 | 317 | 301 | 275 | . 268 | $273$ |
| Iron (MEm.) .... | 57 | 53 | 50 | 47 | 45 | 273 46 |
| Celcium (Gr.) | 3.2 | 3.1 | 2.8 | 2.7 | 2.6 | 2.7 |
| Phosphorus (Gr.) | 5.3 | 4.8 | 4.8 | 4.5 | 4.3 | 4.5 |

The following is a brief summary of the relative nutritive values obtained from each of the principal food groups per doilar of food expenditure.

Calories - Fats and oils provided the most abundent source of calories per dollar of food purchases. Approximately 30,100 celories were received from this source for each doller of oxpendituro. The most exumsive source of calories appeared to be egge, followed closely by fruits and fish. Per iollar of purchases, only 3,200 calories were obtained from eggs, 3,600 from fruits, and 3,800 from fish. Sugar products and cereals ranked next to fats and oils in providing calories, and supplied 24,200 and 17.500 per dollar of food expen: wro zespectively.
protein - Cereal products provided the richest source of protein in relation to cost. These wore followed closely by fish and meats, in that order. A total of 582 grams of protein wore provided from each dollar purchase of coreal products, 501 grams from fish, and 407 grams from meats. Vegetables, oggs, and dairy products averaged somowhat lower, supplying 284, 283, and 217 grams per dollar of cost respectively. As already noted, very little protein value was obtained from sugar products and fruita. The latter supplied only 37 grams of protein per dollar of expenditure, and the former, 28 grams.

Iron - Vegetable products contained almost twice the amount of iron per dollar as that supplied by the next cheapest source, eggs. An average of 132 mgms . of iron was provided from an average dollar purchase of vegetables. Eggs, cercal products, meats, and sugar products, showed very similar averages of $75 \mathrm{mgms} ., 69 \mathrm{mgms} .63 \mathrm{mgms} .54$ mgms. respectivoly. Fruits, fish and dairy products were mar e expensive sources of iron, and dollar expenditures in these groups provided small rospective amounts of 29 mgms., 20 mgms., and 14 mgms.

Calcium - Dairy products proved by far the most satisfactory source of calcium in relation to family food costs. For each dollar of food expenditure in this group families obtained an average of 7.9 grams of celcium. Vegetables supplied a smaller amount of 2.3 grams, and this group was followed in turn, by cereals with an average of 1.8 grams., sugar products 1.7 grams., eggs 1.5 grams, and fruits 1.0 grams. Meats and fish each provided less than one gram of celcium per dollar of expenditure.

Phosphorus - All food groups, with the exception of fruits and sugars, appeared to give a substantial amount of phosphorus per dollar of food outlay. These ranged from 6.9 grams and 6.8 gams for vegetables and cereal products respectively, to 4.5 grams for meats. Fruits providod 102 grams of phosphorus per dollar, and sugar products only 0.3 grans.

Food Values por Dollar of Expenditure on Spocifiod Food Groups (Avorage of 3 Scasons)

| Food Group | Caluries | Protein (Gr.) | $\begin{gathered} \text { Iron } \\ \text { (mgms.) } \end{gathered}$ | Celcium (Gr.) | Phosphorus (Gr.) |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Meats ........... | 6,110 | 407 | 61 | 0.3 | 4.5 |
| Fish ............ | 3,770 | 501 | 20 | 0.6 | 5.8 |
| Dairy Producta... | 9,270 | 217 | 14 | 7.9 | 5.9 |
| Iggs ............. | 3,210 | 283 | 75 | 1.5 | 5.3 |
| Cereal Products.. | 17,520 | 582 | 69 | 1.8 | 6.8 |
| Sugar Products .. | 24,210 | 28 | 54 | 1.7 | 0.3 |
| Vegetables ...... | 8,410 | 284 | 132 | 2.3 | 6.9 |
| Fruits ......... | 3,640 | 37 | - 29 | 1.0 | 1.2 |
| Fats and Oils... | 30,430 | - | - | 1.0 | 1.2 |
| Average ..... | 9.970 | 300 | 50 | 2.9 | 4.9 |

Chart 4

CALORIES OBTAINED PER $\$ 1.00$ OF WEEKLY FOOD PURCHASES WAGE-EARNER FAMILIES


CALORIES OBTAINED PER \$1.00 EXPENDITURE ON SPECIFIED FOOD GROUPS
(Average of the Seasons)


> PROTEIN OBTAINED PER $\$ 1.00$ OF WEEKLY FOOD PURCHASES WAGE-EARNER FAMILIES

GRAMS


PROTEIN OBTAINED PER \$I.00 EXPENDITURE ON SPECIFIED FOOD GROUPS
(Average of the Seasons)
GRAMS


## IRON OBTAINED PER \$ I.O0 OF WEEKLY FOOD PURCHASES <br> WAGE-EARNER FAMILIES

MGMS


## IRON OBTAINED PER \$1.00 EXPENDITURE ON SPECIFIED FOOD GROUPS

 (Average of the Seasons)MGMS.


Chart 7


## Chart 8



PHOSPHORUS OBTAINED PER \$ I.O0 EXPENDITURE ON SPECIFIED FOOD GROUPS
(Average of the Seasons)

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