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1920 \text { AND LATER }
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Dominion Statistician - R.H' Coats, B.A., P.S.S., l. R.S.C., Chief, Genoral statistics - S.f. Cudrore, li.f., I.S.S.


#### Abstract

Thore is irequent comand for a survey of production in Caneda that will difforentidto the moro important brenchos and at tho sarnc time give a purviow of the wholc that is froc from ovorlapping. This is somowht difficult to accomplish with cloarnoss, in vicw of tho verying dofinitions that attach to incustrial groups from difforont points of vicw. For cxamplo, brick, tilc, and conont aro froquontly incluciod in "mileral production" as boing the first finished product,s of commorial value ro. sulting from the production process f froquontly, however, thoy are rogarded as "manur"ectures" in viow of the naturo of tho production process, - bouh allocations boing corrcct according to point of viot.


Tho accomparying tablos givo a compruhons'ivo viow of production in Canacia, ard also show various dispositions of the itoms falling under moro than ono catorgory as avovo describod, thus obvinting mistakes in the use of those strtistics ion summery purposes. The tablos show the total valuo of all commoditios producud in Conada during tho year 19:0, with lator data for particular itoms whoro thoso ano avoilable. Tho valuos givon aro as in tiac producors: hends. It is proposed to issuc from time to timo similar statomonts as the produciion ifgures for laten yoers aro proparode Tho data for provious consal youns mill also bo incluaded on a comparative basis in duc coursc.

Dofinition of "production". - The torm
"production" is usoc in this coñocton in its ppular accoptation, i.c., as includiris such procossce as the groifing of crops, extrection of mincrels, copturo of fish, convorsion of wator powor into olcctrical curront, manuracturing. ctc., - in cononic phsasc, the croation of "form utilitics". It dass not ineludo variong. activitios thich ore no loss "rroductivo" in a bronce and strictly conomic sonse, such os (a) transportation, rofri.goration, morchandixing, oicom: which ada to conncditius a mrady worlcod un into form tho furtincer utilitics of "piacc" "timo" and "nosscssion", and (b) porsonal and profossional sorvices: such as thoso of tho tonchor and doctor, which erc not concornod with commoditios at all, but are not. on tliat account any loss usoful to ì civilisod socicty, - roprosentirg, in coonomic lengungo, tho crontion of "scrvico utilitius".

As showing the importanco of these latter activitics, it mey be pointod ont, fon comprrison with the figuros in tho accompanying tabies, that miluny cross carnings in 1920 amcintod to $340,102,104$, stroct railway gross casnings to est 047,216 , and tolophonc and tolompaph oornings to $\langle 14,812,140$, ali of which from a brond point of vicw may bo considarod as "production". It moy bo furthor noted that of $2.823,524$ persons of ago ton yonrs ind over cmployod in 1912 in grinful oscunotions in conoda, 21\%,544 foll under tho hoading of irameportntion, 353,087 under tirado and morcinendisins, nitl, 232 undor domostic, porsonal and professionil scrvice, nid civii and municipel covormment, - a total of 211,863 or oneathird of tho wholo. In othor mords, only about two-thirds oi uscruily and gainfullj cmployod persons aro ongoged in "production" acconcing to tho Licininition adoptod in tho prosont statement. Ne nisht add thoroforo ono-half to tho pros ont totnl ns a rough ostimeto oi the total productive activity of the cannding pooplo
according to the ceonomist's definiticr of production, which approximates to the concopt of nationel income.
"Gross" and "rret" Production. - The valno of products arceshown linder two hoadinms, nomo $y$, "Eross" and "not". "Gross" production roprosents the total viluo of all tho individual comoditios producod under a perticular hooding. "Not" production roproscrits an attompt to eliminete the value of materials consumod in the projnction procoss. The "nct" figurus, it will bo socn, arpone chlufly in tho case of socondery production or manuéactunos, though climimations worc also made in cortain ciscs in the primery or critractive industrios, as, for cxamplo, gocd in tho casc of fiula crops, and fucd in tho casc of form animels. On the othor nerid, such itoms as fortilizors in the caso of ficld crops andaffoncetation or roforestetion in the caso of foresury nire disrocerded as prertalking of the neturo of roplacoment. Tho sost of fuol is not deductod in the casc of manufacturos, doductions of this kind apponring to bo ecrmanc rathor to an inquiry into notiomal inacmas, in which casc deprociation also worid hovo to bo takcm into account. The doductions mace horoin aro strictiy those of motorials which may bo regardocl as mado over into the products rocordod.

For purposes of ordinary cconomic discussion, tho not figures should bo usod in proforonce to tho gross, in viow of tho largo amount of duplication thich tho lattor incluces boccusc of tho nocossity of making the individunl itoms solf-contrined.

## Interpretation of Itcms

Tho primery industinos of acriculture, fishings forustry, mininc, ctc, aro soparated in tinis staternent fron the socondryy or manufactiving procoss. Tho close assocfation botwoon tho tho at points and tinc ovorlappings thotawo ant to occur hove alrcray boci pointed out, As furthor oxplaining tho procoduno that hes boon followod in drawing up table 2, the following nowos are appondod:

Arriculture, - Dairy inctorios are itomized under animel hū ounty. Farm duiry products (cross) includc the milk consumod wholo and sold to diney fectorios, and buttor, otc., madc on tho farm.

Porcstry. - Under the hoad of "Forostry" an attempt is made to show the oxtcht of operations in the woods, on the products of round or u nmanufecturod timbor, is distinguishod from tho product of nilling oporetions, the igtiter being limitod to the making of firet products sucin is lumber, lath, shinglos, rulp and cooporige stock,

Fur Production. - It will bo noted thet tho concrel itcn of fur prouncion is linitod to uild Ife production. To obtain a total of the poltrios produced in canndo it rilli bo nocossany to add tho rild IIfo output to thet of the production of poits on fun farms,
all itoms are ifnorzt production - Ondor ninorni production so the the rondor my noto tho czent ozetont of everlnpping in current concoptions as botwoon "minoral proctuction" on the one hand and "mmufectures" on the othor, Tho Burcaus Erosents tho dotailed statistics of those rroups (tho chics of which aro ancjuans. birick, ocmont, lime, otc.) In its roports on minomi production, sinco thoir product as above st tod is tho first to which a comoreinl valuo is ordinerily assignod.

Total ionufactures. - Tho fimure siven for the honding is acomenonsirg ono, lineluning tho sevoral itwis listuc ith tino extractive induesth:s rove, thourh alao frcquently rogordod as "manufactupos", normiy, deiry
factorics, fish conning, and curiing, sammils, pulp mills, shipuilding and certain mineral madutrisa. ©im duplication of tinase itons is climinated from itona "manufactures n.e.s." rand thererom from the grand totai.

Ianufectures, n.o.s. - mixatimures given for mrnufactures, no.bo is exelusivo of all itoms elsethore displayed in trblo क thot are frocuent?y includod under tinis huadins: honco is is obvious that tho rend total is equivaicht to ain amount obtainod ly adeurg tho voluos for manufacturos, noe.s., ench ion the otion oigit divisions.

Analysis of meblos.
Roforring to mahle i, it will be ouscrvoc. thet marufactures outs fripoci agriculturo ns tho chiof vonIth procurine incustry, tino not output of monuracturos in 1920 being neerly il, 559,000,000 as cuntrastod with a total of $\$ 1,520,0 C 0, j 00$ for agriculture. hen tho cost of materiols is adici to the not sutprit, the lead of manuracturing is ourious Iy much groator, the pratis boing 3,676,000,000 to 3,023,000,000. Confinizg the and Iysis to not procuction, Porestim conuributed 11 per cent of the total oitiput of 23,682,000, D0 as comparca with il por coni for agriculture. Hineral proluction followed ith a value oranout 5.8 per cont of the not outpui. (Tablea5). Constraction is creciitur with a met procuciion of 136,000,000 or 3.7 per cent. Other inductries, cacis crocited ith less than 2 por cent of tho iational production; wcre the generation of olectifc potor, custom and pepais lorit, fishories and krapping , wich contributer to tine value of production during 1920 in the orden namad.
ramfactures, construction and repair shops such as farages, blactanithing and steam landries are rogarded as occoziary jicduction, hich maj be contrastod with the extrective or pritery incustrias. Deducting the hot vaiue of the products mado by mamuacturing estabishrents consely associaiec with tia priary ixustries, a JaIue of about $1,957,000,000$ romeins is the product of the stirictij extractite procossos. This conparus vith S7, $104,000,000$ the net value of secondary mocuction after uji dupicaticn has beun olinnatec. In other vores, the combina extractivo ixunstries czicoecoc. in not output tho socondary indue unies by $555,000,000$.

Tho production of the primery industries
duent 1921 aro shorm in Tabis I ior comparat ive purposes. Vioned Irom the s tandpoint of values, the extractive inuustinics suffered a decline of about 28 per cont. The recession, ho ever, was hore apparent then ral, Joing more thai accounted for by the rall in the pico level of rats or partly menvextuind soocs. The extent of the crop in prices
 as a base equalins 100, indu: nubers for the value of production and for holesala prices vorn computed for 1021. The inder nuriocr of the talue of pocacts in 1921 was 71.86 and the indox nuwer reprosontins wholosele prices of rati or parify manufacturce corevolities 0.5 35.55. If the former number is airiced by the lat;or the resutint quotiont is 109.6, or othomiso oxpenssol, the voluan of products in 1927 ercecaci that in 1920 by 9.6 pur cont.
: itin referonce to the prorincial statistics givon in Tablos 3 , $=$ and 5 , tine 10170 ins analysis relates ciniefly wo the not procuctich in 1920, tho latest yoar for which complote ceta are aveilaicic. The proeninence of Cnitafo as the most procuctive province is distinctly shom in rable 3. The conperison points to a production of about 38 per cont on tho cinacien total of $5,682,000,000$. Cuevoc holc soconc place uith 20.2 pr cont, and the throo Hestorm powincos of sasicatcherar, 1 bertic end British celurina follo 7od ith penconteces 0 7.3, 7.2 and 6.2 respectively. Tho turl knom agricuitural resowices of

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-2
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Manitonbe enabled the provirice to coniribute 5.7 per cent of the net output for 1920 .

A series of percentages designea to ghow the relative importance to each ppovince of tie several. productive industries is given in Tab?e 5. To facintato comarison the percentage of the net output of manuractures to tho not production of all industrics has also been comprated.

Nova Scotia ras depondont almost cqually on agricultiuc and manuracturing. The contribution of agriculturc vas 32.9 por cont as comperod vith 2 porcontago of 23.3 for manufacturos 12.6 .5 . The porcentago for the Holo of the manufacturcd prodnct vas 51.9. The mining incustry was eiso important with a production of 18.4 pcr cont. Agriculturc, including fur-faming, coitributod 81 per cont of the not output or Frincc Furard Island. Farming was tho chicf industry of No: Bruistiols and lunbering was a close second, the pespective contributions boing 40.6 and 35.4 per cont. Tho placc of the tholo of manufac tures was repoesentod by a porcontaçe of 31. 4 , whilo mamuiacturos, n.e.s. Was vaived at 13.3 pei coni. Tice income corived. from man ufacturing in auboc was greater than that from any othor incustry. The portion asico fron tho output of ostablisimonts associatud vith tho crotractivo inaustrios was cquivalont to 37.6 por cent, whilo the net output of tho cntiro manuracturing process roforred to the same basc mas 43.7 pmi cont. Farring held second place vith a production of 36.3 per cont and forustrur vith an output of $14 . \leq p u r$ cont occupiod third ranlin this comection. A similar ondor obtainod in uho provinue of ontario, tio procminonce of manufacturing buing nore merized than in the sister province of Quebuc. The pecontare for agiiculturo and forestry were 30.7 and 8.1 rospoctively ilinins Fa as credited with an output of 4.8 pu cent and construction followed with a procuction of 3.7 pcs cort.

Nearly 87 por ccnt of the output of Saskatchowan is derived from ferming, and the records of ifenitoba and Alborva aire 60 rerncert anã 72.5 per coint respectively. ifanufacturing held second plece in lisnitoba and mining in Alberta, the mineral production of kiberta consjsting chiofly of coal miniig formud. 12.7 per cent of the not output of the province.

Lumbering constitutod the chiof industry of British columbia, although manufcc turins, agriculturo and mining vere al so of importance, indicating the vorsatility of the resources of the mestern movince. Neerly 38 per cont was contributod Dy the Irmor industry, whilo farming and minine contostod for third placo vith porcontegus of 27.8 and 13.2 rospectively.

The chiof industry of tho Yukon district was mining witl an cutput o: 43.5 por cont. The contrjivution of tarppisicy ontored as $4 \lambda .1$ per cont inclunos tho output of tho Torthivost Torritorios.

Table I. $\epsilon$ Summamy by Inतuatries of the Value of Productianain Qanaca avring Io,20 anc 1021

(aj the iter "manufactures" includes dzixy factories, savmills, pulpmills, fish canning and curing, shipouilding
 anounink to a floss of tha, $5 \frac{1}{3}, 0,5$ and a net oi $354,093,52 i$ is eliminatea from the frund total.

Table 2.- Detaizec Stutanent of the Vilue of poduction in Canada curing 1320, Inc?udiaf Defiritions of Group Iters.

| Classificution. |  |  |
| :---: | :---: | :---: |
| Friculturu - Iisle oruns <br> Iruits unc verctablos <br> ilaple prociucts <br> Tobasucc |  |  |
| Totiel ficia husouncry |  |  |
| $\begin{aligned} & \text { Iive stoc:- } \\ & \text { iool } \end{aligned}$ | $\begin{array}{r} 143.955,000 \\ 5,280,000 \end{array}$ | $\begin{array}{r} 145,935,000 \\ 5,280,000 \end{array}$ |
| Dixy owite: <br> Whole aitiv used as much <br> Míar so-d to İectories <br> Dainy foctories <br> Poulimy and esss | $\begin{array}{r} , 56,250,000 \\ 57,750,502 \\ 17,550.710 \\ 146,3,46,431 \\ 45,000,000 \end{array}$ | $\begin{array}{r} 56,250,000 \\ 57,750,502 \\ 110.550,718 \\ 32,785,775 \\ 4.5,000,000 \end{array}$ |
| $\begin{aligned} & \text { Fur irrmial - } \\ & \text { Pats } \\ & \text { Aninals } \end{aligned}$ | $\begin{array}{r} 397,705 \\ 250,071 \\ \hline \end{array}$ | $\begin{array}{r} 387,705 \\ 755 ; 071 \\ \hline \end{array}$ |
| Fotal arimai husbondry | $560,25,494$ | 91,211, 775 (a) |
| Total Agricultural production | 2,000,200,474 | 1,519,842,776 |
| Sorestrur - <br> Logs for lumber <br> Iulp Yood <br> Railway tius <br> All other iorese mrodrets | $\begin{aligned} & 9,57,134 \\ & 15,13,, 660 \\ & 45,40,43 \\ & 42,587 \end{aligned}$ | $\begin{aligned} & 9,527,134 \\ & 167,185,060 \\ & 10,405,473 \\ & 45,849,787 \end{aligned}$ |
| Total forcstry oparations Saw: 2njil productis 2ulp will products | $\begin{aligned} & 211,965,454 \\ & 122,24,189 \\ & 141,552,862 \end{aligned}$ | $\begin{array}{r} 221,955,454 \\ \hline 100,718,055 \\ 95,247,973 \end{array}$ |
| Total milling onerations | $553,758,051$ | 195,866,028 |
| Iotal foiestriu production | $5+5,765,505$ | 403,831,482 |
| Pisheries - <br> Fish sold froch by fisherimet <br> Sales to canning and curine stahlisiments <br> Fish donestically cured <br> Fish camine and curins | $\begin{aligned} & 12,5,26,809 \\ & 14,347,589 \\ & 5,414,833 \\ & 30,000,147 \end{aligned}$ | $\begin{aligned} & 12,926,809 \\ & 14,347,089 \\ & 5,414,383 \\ & 16,553,058 \\ & \hline \end{aligned}$ |
| Total fishorios production | $65.588,28$ | 49,241,359 |
| Trappine - <br> Fur prociuction (wiフa Iife) | 20.999,300 | 20,999,300 |

(a) Cost of feod is loduded wron the gross for aninal husbardry.
-7-
Piebla 2. - Ietailec statement of the Velus of Prociuction in varada curing 1320, Incluaing Defiritions of croup

Items - (Cor.)


The anount of duplicat ion is deduotod an ane ting the onputat,ion of the shaus cocai.

FakIe 3.- Sumary by Provinces of the Vaiue of Production of Cenaüa ig2C.


Table 4.- Value of Produntion in Conada during 19?0 Distributea Dy Provinces and Industrial Divisions.

(a) The totals for mancactures involve the following dunisoatsd emonts mition were dedretod in computing the Erund total for each province.-

The durlicistion arises from including in two places a nuriber of industries minch mey be reganded either as extractive ox as manfaciurins prooesses. Shilbuilding has been inciudo urder construction as woll as manufacturing.

Tablc 4．－Value of Prodiction in Carada curinc 1920 distributed jy Erovirces and industrią Divisions．（eon．）


FabIe 4．－Velue of Producion in Canaca during ig20 distributed ky Irovinces aná Industivial Divisions．（Gon）．

|  | Ontario |  | Lanitona |  |
| :---: | :---: | :---: | :---: | :---: |
|  | 19.053 | $\mathrm{Ne+}$ | Cross | Iet |
| Agrieulture | $672,180,071$ |  | 115， 137,327 | 126，323，000 |
| Torestry | 250，310，407 |  | 5，572，759 | 4，316，26\％ |
| Tis＇re＝ie3 | こ，336，412， | 3， 355.12 | 1． 260.409 ！ | $1,240,6)$ ； |
| Frapping | 6，407，1701 | 5.407 .270 | 5，123，127 | 3，2＜0，1？ |
| witning | 81，715，803 | $65,907,538$ | $4,223,461$ | 4，22，4 1 |
| Hこectrijc power | 20，303，221 | $30.80,221$ | 2，715．725 | 2，795，726 |
| Corstruction． | $78.55 \div .504$ | 57，666，001 | İ，972，113 | 7.445 .723 |
| Custom end repair | 42．125．405 | $26.468,2-2$ | 8，140，882 | 5， $1 \div 7,12$ ， |
| Farufictures（a） | $\underline{1,304,245,165 i}$ | 800， 078 m 235 | 154，735， 243 | $62,406,63:$ |
| CRAID TCIE（a） | 2，723，133，265 | ．397．556．057 | 347，451，2531 | 210，609，663． |

（a）Tle to゙als for mnnfacuures invoive tine following dup？icatior aiounts vinich wepe deducted in comuting the crama total for cach provinic．
$\operatorname{rrse}$


The dubijcation zises from including in two places a muber of indistries whic？may be regerdea either as extrective or as nanut゙icturing poocesses．Skipuilding has been included under construction as wil as manufacturing．

Table 4. －Th ue of Procuction in Cenata turirg 9920 Distributed by Provinces and Thidustiria Divisions ícon．）

| Qas ratcherm |  |  | Aibortac |  |
| :---: | :---: | :---: | :---: | :---: |
|  |  |  | cioss | －10t |
|  <br> Parestry <br> Eisherios <br> Tracping <br> 1．ining <br> zlectric por：or <br> Co．1s truction <br> Custom anc Renair <br> ianuif actures ！a） | 0，459，535 | 1，351，500 | 9，566，384 | $1,826,100$ |
|  | 5，575，二ก2 | $4,556,343$ | 3，065，778 | 3，202，736 |
|  | 296，4 | 235，272 | －29，${ }^{\prime \prime} 8$ | 529，07\％ |
|  | 2，538，779 | 2，333，ri79 | 1，550，20： | 7，550，209 |
|  | 1，307，亿08 | 1，837：$=68$ | $33,566, \pm 50$ | 52，536，456 |
|  | 2， $0 \leq 0,568$ | 2，042，663 | 2，553，5．3rir | 2，653，537 |
|  | $5,455,550$ | ［，258，021 | 4， 146,609 | 2，71？，790 |
|  | 7， $7.66,376$ | ＜，655，263 | 5，295，509 | $4,010,232$ |
|  | 7 | 22，375，226 | 87，069，808 | 30， 3 3，296 |
| （RAL）TOIA U（a） | 54.024574 | 237，312，910 | 576， $520,78 \mathrm{C}$ | 264，571， 30 |

Tabie 1．－Vaive ni Foduction in Canada durine 1980 Distributca by PMorincus anc．Inductial Divisions．（coñ）

|  | Mritsh | $\frac{\text { Colvabia }}{1 \mathrm{Te}}$ | －ukon | $T E^{-}$ |
| :---: | :---: | :---: | :---: | :---: |
| Agiculure | 57，203，3\％0 | 40，831，255 | － | － |
| Powestry | 123，7， $7,00 \mathrm{~m}$ ； | 30，35？，253 | － | － |
| Fisheries | 23， 226,535 | 22，320，261 | 35，100 | 35，100 |
| Tireplpiag | 「57，506 | 737，626 | 1， 424.722 | 2，434，723 |
| Msining | 39， 2 2，720， | 29， 411.723 | 1，576，726 | 1，576，723 |
| zloctric powor | 5，7．3，51－1 | 6，713，014 | 97，550 | 97，563 |
| Donstmution | － $25,4,4,5<4$ | 15，612，655 | 210，035 | 73，645 |
| Custon and repair | $\|27,0.5,009\|$ | 6，219， 425 | 60，970 | 35,560 |
| Manufastures（a） | 202， 205,954 | $76,375,715$ | 119，033 | 73,645 |
|  | 1375，560，738 | 229，133，033 | 3，325，123 | 3，252，525 |

（2）The totgle fon mamufacturing involve the 101 louing duplict ed amounts which ere coructed in computing the grand tot for each province and district：－

$$
\begin{aligned}
& \text { Gross vint } \\
& \text { Seskat crewnan.................... 8,108,692 3,412,398 } \\
& \text { ilberta................................267,177 } 5,934,395 \\
& \text { British Colunbiu............200,405,015 65,974, }=19 \\
& \text { Iuko:............................. 113,033 73,645 }
\end{aligned}
$$

The duplication anises irom incluuing in two places a number of incustries mich mar bo regained eithor as exuractive or as moutfacturing processes．Shipbuildins hes been ineludod wnter construution as Jeli as men u＂acturing．

Table 5. - Percentages of the Value of the thet Production of aach Province of Canadu by lnuustries to tie Fotal Net Output, 1920 .

(a) IncJuries the trappine indistry of the ${ }^{T}$ erthwost merritorios.

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