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WESTERN CANADA AND THE FREE TRADE AGREEMENT

*Edward J. (Ted) Chambers
Director Western Centre for Economic Reserch*

Faculty of Business

University of Alberta

BACKGROUND

In a pure free trade arrangement all producers and customers within the free trade area acquire unimpeded access to each other. The benefits of a free trade agreement are both "static" and "dynamic". The underlying static benefits of trade liberalization arise from economic efficiencies that increase levels of per capita income for all participating countries. This is to be achieved through more and better opportunities for the exploitation of comparative advantages. Without the impediment of discriminatory tariff and nontariff barriers against foreign suppliers, low cost, most efficient producers should be able to capture increased market shares within the free trade region. Increased use of the most efficient sources of production and supply means fewer and/or less costly inputs to satisfy demand, and larger profit margins. The combination of larger profits and lower prices contribute to higher levels of real economic prosperity for the society as a whole.

However, as the most efficient, low cost producers garner increasing volumes of business through better market access, some existing, and comparatively inefficient producers, must either improve their performance, or fall by the wayside. Hence, the move to a free trade arrangement entails some transitional restructuring of industry with accompanying dislocation of labour. At the macro level, the same products are produced as before, but in some sectors

commodities formerly produced domestically are replaced by cross border trade. More and more product and service demands are satisfied by export and import trade rather than by domestically sourced production. This is an example of what is called "trade creation".

In addition to trade creation, there can also occur in a free trade zone what is known as "trade diversion". Trade diversion is when trade continues at existing levels and volumes, but when the third country trading partner is replaced by a partner located in the new free trade zone. For instance, with tariffs now removed on Canadian exports of product x to the United States, Canadian suppliers may now have an advantage over third country suppliers in the American market despite the fact that their production costs may be higher. Thus, the free trade agreement bestows advantages to Canadian suppliers in the form of new export business.

The "dynamic" benefits from a free trade agreement involve changes in investment patterns, in capital formation, in learning by doing. To meet better the demands of a larger market, economies of scale and scope can be exploited. Moreover, new physical capital will incorporate the latest technology contributing further to increased efficiency and productivity. There are direct relationships between investment, learning by doing, and productivity.

SOME SPECIFICS OF THE CANADA-UNITED STATES FREE TRADE AGREEMENT

Tariffs: Within the FTA itself, Chapter Four states how tariffs are to be eliminated. Four categories of tariff treatment on goods (A, B, C, and D) were identified.

Unfortunately the classification of traded items into one of four tariff categories can be complex. For example, in the United States tariff schedule under HS 44 is sub-category 4418 "Builders' joinery and carpentry of wood, including cellular wood panels and assembled parquet panels; shingles and shakes". It is necessary to go even further into detail (to the 6 digit level) to identify how specific

items in Category 44 will be affected under the FTA. Items within HS 44 carry tariff rates from 0 to 7.5%. The overall impact will be a weighted average of individual results. The result is that it is very difficult to say how great an impact tariff relief will have for some large two digit HS sector of Western Canadian-United States trade.

Individual gains and losses in specific trade areas can offset each other within larger aggregated categories. The total dollar value of bilateral trade may not have changed significantly, but economic rationalization in given market segments may nevertheless be underway. Canadian trade in either direction, imports or exports, would grow fastest if the "greatest" tariff relief were to occur most quickly on high volume and high value trade. Conversely, to minimize and/or delay the transitional difficulties of adapting to the FTA, the "greatest" tariff relief should occur in low

volume trade items where neither country has a significant comparative advantage

Non-tariff barriers: Formal tariffs are not the only barriers to overcome in order to achieve bilateral free trade. Non-tariff barriers are very effective trade inhibitors. Technical standards and administrative procedures are significant methods of erecting obstacles to trade. These include health, safety and environmental regulations; consumer protection laws; protection in the name of national security. Frequently in these instances, what is agreed to in principle is subject to vagary in application.

THE FTA EXPERIENCE FROM 1988-91

Predictions of success, of general economic growth and enhanced prosperity, and of improved employment opportunities for Canadians resulting from passage of the FTA have thus far not been realized. However, whether the shortfall can be attributed to the FTA is very doubtful. While critics point to the fact that difficulties in the economy followed slightly more than a year after passage of the FTA, economics is not a discipline in which the influence of one set of conditions on another can be controlled as in a scientific laboratory so as to permit isolation and measurement of the effects of some new element. The impact of the FTA on the economy has been clouded by the intensive pursuit of a high interest rate monetary policy, by the effect of that policy on the exchange rate, by a protracted recession, by the introduction of the GST in the midst of a recession, and by overriding political/constitutional uncertainty in the aftermath of the rejection of the Meech Lake Accord. For example, in no industry are the effects of the North American recession more evident than in HS classes 44 (sawn lumber) and 47 (pulp of wood). In these two classes Western Canadian shipments to the U. S. market declined by some \$700 million between 1988 and 1991, and the British Columbia proportion of that fall amounted to \$550 million. Further, in metal shipments to the U. S. market (HS 74 to 79), all of which are very sensitive changes in the cyclically sensitive durable goods industries, 1991

exports from British Columbia were some \$244 million less than they were in 1988.

Studies by the Western Centre for Economic Research at the University of Alberta show that the combination of changes in commodity prices and the real effective exchange rate have a significant impact not only on the value of exports from Western Canada but also on the volume of employment in the region as a whole. Empirical analysis based on the 1975-91 period indicate that a combination of 1% percent rise in the real effective exchange rate and a 1% fall in a trade weighted index of real commodity prices for Western Canada bring about over a nine month period a 0.4% decline in employment in the region as a whole. Nominal commodity prices have a significant influence on the value of exports from this region because of the heavy dependence on commodity grade resource exports. Between the first quarter of 1988 and mid-1991 metals, forest products, energy and agricultural prices all experienced significant cyclical swings, rising sharply and then falling equally sharply. Further, over the same period the Western Centre index of real effective exchange rates (for a currency basket of 20 countries and 12 commodities) appreciated by 12%. The index of nominal rates appreciated by just over 10%. To reiterate an appreciating exchange rate, declining commodity prices, a North American recession which spread to Europe and Japan in 1991 thus depressing export

demand, and a domestic constitutional crisis all co-existed in greater or lesser degree with the first three years of the FTA.

The result is that unequivocal interpretation of the effects of the FTA based

upon the evidence of the 1989-91 period is most difficult, if not impossible.

AGGREGATIVE EXPORT EXPERIENCE 1988-1991

Table 1

Rate of Growth in the Value of Total Western Province Exports , to the United States and to the Rest of the World, 1988-91

Provincial Export destination	% growth 1988-91
Alberta to non-U. S.	3.15
Alberta to the U. S.	8.47
Alberta Total exports	6.93
British Columbia to non-U. S.	-5.01
British Columbia to the U. S.	-3.88
British Columbia Total exports	-4.53
Saskatchewan to non-U. S.	-6.38
Saskatchewan to the U. S.	5.50
Saskatchewan Total exports	-1.86
Manitoba to non-U. S.	0.74
Manitoba to the U. S.	2.80
Manitoba Total exports	1.97
Western Canada to non-U. S.	-3.00
Western Canada to the U. S.	3.53
Western Canada Total exports	0.53

Source: Western Centre for Economic Research

Table 1 provides an highly aggregative evaluation of Western Canadian exports for the region and each of province to U.S. destinations compared to the annualized rate of growth of shipments to the American market, and to total exports. The years chosen are 1988 and 1991. Thus we are examining the behaviour of aggregate exports from the last year of the pre-FTA years and comparing it with export performance in the third year of the FTA. The choice of 1988 is not simply because it is the last year before the Agreement but also because it is the only Western Centre for Economic Research
Information Bulletin #10/January 1993

pre-FTA year for which a HS Code classification is available, and therefore permits the more detailed analysis at the two-digit level reported below. 1991 is to be preferred to earlier years because of the greater time for business to adjust to the Agreement. Analyses based on a beginning and end year always require a cautious interpretation, particularly when exports - even major ones - from the Western provinces are known for substantial variability as previously suggested.

These results indicate that for the region as a whole the value of total exports rose over the period at an annualized rate of about 0.5%. Shipments to non-U. S. markets declined at an annual rate of 3.0% while the value of shipments to the American market rose annually at a rate of about 3.5%. This is suggestive of considerable realignment of trade flows.

For Alberta the value of exports increased in total and to both the U. S. and other markets. Similarly Manitoba's total exports increased, though at a lower rate than those of Alberta, and the growth was apparent in shipments to both the U. S. and to the rest of the world, though in the latter markets the rate was very slight. In the case of British Columbia the decline in the value of total exports was recorded both in shipments to the U. S. and the rest of the world, but there was a lower rate of decline in shipments to the American market. Saskatchewan's exports decreased in total but increased to the American market. Shifting spatial markets are apparent in the

case of British Columbia and Saskatchewan, while both trade increase and shifting spatial markets are evident for Alberta and Manitoba. Whether these trends continue as the economic environment evolves warrants close monitoring.

Appendix 1 contains the value of total exports, exports to the American market, and exports to the rest of the world for Alberta and the other western provinces in the 1988-91 period at the two digit HS categories, 01 to 99. The appendix also contains shipments to the U.S. as a market share of total shipments for the respective years for each of these categories.

Table 2 extracts from the Appendix selected value and market share data for each of the provinces that round out the growth figures presented in Table 1 above. The table serves as a point of departure for an examination of each HS two digit category.

Table 2
Comparison of Total Export Shipments from the Four Western Provinces, and Shares to the U.S. Market, 1988 and 1991
(export values in \$millions)

Province	1988 total Exports	1991 total Exports	Export growth 1988-91	1988 US Mkt Share	1991 US Mkt Share
Alberta	\$13,008.7	\$16,017.6	\$3,008.9	.695	.728
ex HS 10	4,883.6	5,426.1	542.5	.768	.786
B. C.	17,419.2	15,207.2	-2,211.9	.427	.435
ex HS 10 & 26	16,349.6	14,327.9	-2021.8	.454	.461
Manitoba	2,916.3	3055.4	139.1	.582	.604
ex HS 10	2,249.9	2,278.0	28.0	.743	.800
Saskatchewan	5,766.7	5,453.1	-313.7	.339	.423
ex HS 10	2,890.0	3,210.0	986.6	.653	.693

Source: Western Centre for Economic Research

For each province exports in 1988 and 1991 together with dollar growth in the interval, and U.S. shipment shares are reported. In addition, for each of the provinces similar information is reported net of selected HS categories which permits another view of what happened to the respective provincial export bases during the period. The categories and the criteria for exclusion are: (a) HS 10 (cereals) which are commodities shipped overwhelmingly to other than American markets, and whose quantities, at least in the case of the three prairie provinces are relatively large, but also quite volatile because of variance in supply;

(b) HS 26 (ores and concentrates) in the case of British Columbia which are almost

entirely marketed outside the U. S. American market shares for aggregate exports display substantial provincial variation from a high of .728 in the case of Alberta in 1991, to a low of .339 for Saskatchewan in 1988. In every instance, however, the importance of the American markets for exports in the aggregate increased during the period. For exports net of the exclusions, the U. S. market increased in importance for all provinces, and that market is absolutely dominant for the three prairie provinces, accounting for from \$70-80 of every \$100 of non HS 10 exports. Appendix 1, of course, allows the reader to combine HS categories in any manner desired in order to assess export performance.

COMMODITY EXPORTS TO THE AMERICAN MARKET BY TWO-DIGIT HS CODE: ALBERTA AND THE OTHER WESTERN PROVINCES

Over the 1988-91 period the numbers of HS categories (with shipment of \$10 million or greater in 1991) showing an increase in exports values were 30, 22, 16, and 10 respectively for Alberta, British Columbia, Manitoba, and Saskatchewan. Column (2) where American market shares were very close to 1.0 include [01] (live animals)

for all provinces, and [27] (mineral fuels) for the three prairie provinces. The number of categories in column (3) are 14, 9, 4 and 1 for the respective provinces. To repeat these are HS classes where the U. S. market share was less than .96 in both years.

Table 3
HS Categories in Each Province Showing an Increase in Export Shipments Between 1988 and 1991, and Those Recording an Increase in the U.S. Market Share

Province	HS Categories Recording an Increase in Export Values (1)	HS Categories with U.S. 1988 Market Share of at least 96% (2)	HS Categories with U.S. 1988 Market Share less than 96% (3)
Alberta	01, 02, 04, 05, 07, 10, 11, 16, 22, 23, 27, 28, 31, 38, 41, 44, 47, 48, 55, 71, 75, 76, 81, 84, 85, 88, 90, 94, 98, 99 [Total = 30]	01, 48	05, 07, 10, 16, 22, 23, 27, 31, 38, 71, 75, 76, 98, 99 [Total =14]
British Columbia	01,03, 09, 10, 19, 20, 22, 27, 28, 29, 61, 62, 72, 73, 82, 85, 90, 94, 97, 98, 99,28, [Total = 22]	01, 99	03, 19, 20, 22, 75, 82, 90, 97, 98 [Total =9]
Manitoba	01, 10, 11, 23, 26, 27, 28, 41, 44, 49, 74, 75, 79, 85, 88, 98 [Total = 16]	01, 27, 88	28, 44, 75, 79 [Total = 4]
Saskatchewan	01, 07, 11, 23, 27, 28, 44, 48, 73, 99 [Total = 10]	01, 21, 27, 44, 51, 76	28 [Total = 1]

Source: Western Centre for Economic Research

Table 4
Dollar Value of Those HS Categories Showing Increased Export Values in 1991 over 1988, and
their Relation to American Market Shares
(values in millions of \$)

	Alberta	B.C.	Manitoba	Sask	West Canada
Value of HS Cats with an increase in exports	\$3,656.7	\$470.7	\$562.9	\$579.2	\$5269.5
Value of increase where US mkt share > .96	184.5	21.4	212.5	184.5	602.9
Value of increase in cases where US mkt share rose	2,761.9*	142.2	140.9	0.1	3045.1

*includes an increase of \$2,443.3 million in oil and gas shipments to the US market.
Source: Western Centre for Economic Research

In Table 4 values are attached to columns (2), (3), and (4) of Table 3 for each of the provinces and for Western Canada as a whole.

Table 4 indicates that for the region as a whole some 69% of HS classes displaying increases in exports represented situations where the U.S. was already the dominant customer, or where the market share of shipments to the U.S. displayed an increase. It should also be noted that of this increase approximately \$277 million represented incremental shipments of live animals and \$2,764 million recorded added shipments of oil and natural gas. Together these represent just under three-fifths (58%) of the increase for the region as a whole in expanding HS categories.

There is substantial variation for individual provinces in positive incremental export dollar values for shipments to the US market. These range from more than 80% in

the case of Alberta to substantially less than 50% for British Columbia and Manitoba.

What is evident from the dollar values is that Alberta numbers, particularly in energy industry exports, are so large that they dominate those of the other provinces and strongly influence the numbers for Western Canada as a unit. For example, the Energy Resources Conservation board reports that the volume of Alberta shipments of crude oil to the American market increased by just under 10% between 1988 and 1991 while total deliveries (domestic and foreign) declined by 5%. During the same period the \$price per cubic metre rose by 22%. In the case of natural gas, deliveries to the American market rose by 20% in volume, accounting for the entire increase in natural gas shipments to all markets. During the same period average delivery price fell by 12%.

CONCLUSION

The preceding analyses have heavily utilized export data by two digit HS Code for the years 1988 and 1991, and the
*Western Centre for Economic Research
Information Bulletin #10/January 1993*

rationale for this choice has been indicated. However, no matter what data are emphasized or what approach

employed, only a preliminary and tentative analysis of the impact of the FTA on Western Canada and each of the provinces is possible at this time. Over the coming years the FTA impact will be more permanent and observable, and as the transitions induced by the Agreement occur it is essential that their impacts be monitored on a regular basis.

The Western Canadian economy is highly trade dependent, and the region as a whole, as well as each of the provincial economies, is in a period of transition, adapting to the new reality of the free trade environment. Any evaluation of the FTA in present circumstances is clouded by other conditions including the volatility in commodity prices, the North American recession, and exchange rate movements affecting not simply the US/Canadian

dollar rate but the effective exchange rate index for the region as a whole. We simply require a longer time horizon to evaluate the longer term structural changes induced by the FTA.

We can say that certain things have started to occur. Western Canadian trade has increased more (or decreased less) with the U.S. than with rest of the world markets. Yet monitoring new information as it becomes available is essential in assessing the degree to which this trend will continue, what the dynamics of this change may be, how Mexican participation in NAFTA will affect Western Canadian opportunities, and the extent to which a sustained cyclical recovery in North America and elsewhere will subsequently either reinforce, or alternatively, counter the events of the 1988-91 period.

Alberta Exports and MarketShares 1988 and 1991

Category	HS	88 Exs Total	91 Exs Total	88 Exs USA	91 Exs USA	88 Ex ROW	91 Exs ROW	Total Ex Growth	US Share year 88	US Share Year 91
Live Animals	1	281,772	319,391	277,278	318,931	4,494	460	37,619	0.984	0.999
Meat & Edible Offal	2	158,935	220,561	107,948	176,496	50,987	44,065	61,626	0.679	0.800
Fish and Shellfish	3	2,850	344	1,233	115	1,617	229	-2,506	0.433	0.334
Dairy products; eggs; honey	4	3,978	10,681	3,478	4,690	500	5,991	6,703	0.874	0.439
Products of animal origin nes	5	5,008	7,160	1,893	3,523	3,115	3,637	2,152	0.378	0.492
Live tree and plant; bulb; root; flower	6	375	42	375	36		6	-333	1.000	0.857
Edible vegetables; roots; tubers	7	15,187	16,888	2,616	11,861	12,571	5,027	1,701	0.172	0.702
Edible fruit and nuts	8	142	27	20	27	122		-115	0.141	1.000
Coffee, tea	9		8				8			
Cereals	10	1,250,805	1,264,856	60,581	64,405	1,190,224	1,200,451	14,051	0.048	0.051
Prod mill ind; malt; starches; gluten	11	34,481	58,102	2,462	2,370	32,019	55,732	23,621	0.071	0.041
Oil seed, misc. grain, seed, fruit	12	295,554	266,820	26,005	19,008	269,549	247,812	-28,734	0.088	0.071
Lac; gums, resins, veg saps	13	20				20		-20		
Vegetable plaiting materials	14	14		14				-14	1.000	
Animal/vegetable fats, oils	15	67,420	62,156	29,830	55,864	37,590	6,292	-5,264	0.442	0.899
Prep meat, fish, molluscs	16	2,088	11,707	1,758	9,965	330	1,742	9,619	0.842	0.851
Sugars and sugar confectionery	17	109	32	97	31	12	1	-77	0.890	0.969
Cocoa and cocoa preparations	18									
Prep of cereal, flour, starch, /milk	19	3,408	2,746	2,057	1,200	1,351	1,546	-662	0.604	0.437
Prep of fruits, nuts	20	811	719	364	227	447	492	-92	0.449	0.316
Misc edible preparations	21	991	4,347	907	2,827	84	1,520	3,356	0.915	0.650
Beverages, spirits, vinegar	22	20,763	39,072	17,964	36,148	2,799	2,924	18,309	0.865	0.925
Residues and wastes from food ind	23	10,877	25,625	4,809	17,061	6,068	8,564	14,748	0.442	0.666
Tobacco and manuf tobacco subtit	24	13		13				-13	1.000	
Salt; sulphur; earth and stone; plaster	25	803,257	563,191	105,894	174,963	697,363	388,228	-240,066	0.132	0.311
Ores, slag, and ash	26	666	7,832	666	822		7,010	7,166	1.000	0.105
Mineral fuels, oils, prod of distillates	27	6,874,246	9,326,599	6,392,124	8,836,362	482,122	490,237	2,452,353	0.930	0.947
Inorg chemicals; comp prec metals; rad el	28	94,313	108,697	84,146	93,198	10,167	15,499	14,384	0.892	0.857
Organic chemicals	29	892,390	641,080	402,063	229,547	490,327	411,533	-251,310	0.451	0.358

Alberta Exports and MarketShares 1988 and 1991

Category	HS	88 Exs Total	91 Exs Total	88 Exs USA	91 Exs USA	88 Ex ROW	91 Exs ROW	Total Ex Growth	US Share year 88	US Share Year 91
Pharmaceutical products	30	2,016	4,950	478	3,581	1,538	1,369	2,934	0.237	0.723
Fertilizers	31	195,586	218,828	121,730	165,815	73,856	53,013	23,242	0.622	0.758
Tanning/dyeing extract; derivatives	32	393	92	390	46	3	46	-301	0.992	0.500
Essential oils and resin; cosm/toilet prep	33	111	2,049	7	874	104	1,175	1,938	0.063	0.427
Soap, waling prep; surface agents	34	352	559	331	513	21	46	207	0.940	0.918
Albuminoidal subs; mod starches; glues	35	84	289	82	106	2	183	205	0.976	0.367
Explosives; matches	36	325	178	182	62	143	116	-147	0.560	0.348
Photographic, cinematic goods	37	719	1,186	504	1,143	215	43	467	0.701	0.964
Misc chemical products	38	7,621	19,807	3,887	14,731	3,734	5,076	12,186	0.510	0.744
Plastics and articles thereof	39	621,578	524,487	383,873	308,122	237,705	216,365	-97,091	0.618	0.587
Rubber and articles thereof	40	5,566	1,369	5,172	1,128	394	241	-4,197	0.929	0.824
Raw hides and skins, leather	41	39,097	67,309	14,951	9,901	24,146	57,408	28,212	0.382	0.147
Articles of leather; saddlery; luggage	42	682	337	213	116	469	221	-345	0.312	0.344
Furskins and artificial fur	43	616	269	228	184	388	85	-347	0.370	0.684
Wood and articles of wood; charcoal	44	229,016	239,005	211,710	200,288	17,306	38,717	9,989	0.924	0.838
Cork and articles of cork	45									
Manufactures of straw	46									
Pulp of wood; cellulosic mat; waste	47	385,458	454,089	365,858	265,527	19,600	188,562	68,631	0.949	0.585
Paper and paperboard	48	7,906	14,843	7,657	14,701	249	142	6,937	0.969	0.990
Printed books, newspapers, pictures	49	28,057	5,023	27,588	3,898	469	1,125	-23,034	0.983	0.776
Silk	50	2	2	2				-2	1.000	1.000
Wool, animal hair, yarn and fabric	51	98	113	98	113			15	1.000	1.000
Cotton	52	15	12	13	12	2	-3		0.867	1.000
Other veg textile fibres; paper yarn	53	346	15	277	15	69		-331	0.801	1.000
Man-made filaments	54	125	21	121	20	4	1	-104	0.968	0.952
Man-made staple fibres	55	51,499	79,530	818	154	50,681	79,376	28,031	0.016	0.002
Wadding, felt, twine, cordage	56	27	88	16	55	11	33	61	0.593	0.625
Carpets and textile floor coverings	57	323	84	98	2	225	82	-239	0.303	0.024
special woven fabrics; lace; tapestries	58	29	21	7	19	22	2	-8	0.241	0.905
Impreg; coated, cover/laminated tex fabr	59	588	47	499	18	89	29	-541	0.849	0.383
Knitted or crocheted fabrics	60	7	17	7	17			10	1.000	1.000
Art of apparel, clothing access, knitted	61	1,177	479	1,106	362	71	117	-698	0.940	0.756

Alberta Exports and MarketShares 1988 and 1991

Category	HS	88 Exs Total	91 Exs Total	88 Exs USA	91 Exs USA	88 Ex ROW	91 Exs ROW	Total Ex Growth	US Share year 88	US Share Year 91
Atr of apparel, clothing access not knitted	62	599	1,673	495	1,071	104	602	1,074	0.826	0.640
Other made up text art; sets	63	1,393	666	694	345	699	321	-727	0.498	0.518
Footwear; gaiters	64	284	25	43	11	241	14	-259	0.151	0.440
Headgear and parts thereof	65	2,730	586	2,663	532	67	54	-2,144	0.975	0.908
Umbrellas, walking sticks, whips, etc	66		81		81			81		1.000
Prep feathers and down; artif flowers	67									
Art of stone, plaster, cement, mica	68	3,027	5,647	2,669	5,284	358	363	2,620	0.882	0.936
Ceramic products	69	1,058	1,052	669	904	389	148	-6	0.632	0.859
Glass and glassware	70	3,852	940	3,667	776	185	164	-2,912	0.952	0.826
Natural/cultured pearls, prec stones met	71	1,732	18,704	1,326	16,840	406	1,864	16,972	0.766	0.900
Iron and steel	72	2,875	4,222	1,906	3,652	969	570	1,347	0.663	0.865
Articles of iron and steel	73	51,256	49,262	44,431	34,194	6,825	15,068	-1,994	0.867	0.694
Copper and articles thereof	74	3,562	5,842	3,494	4,571	68	1,271	2,280	0.981	0.782
Nickel and articles thereof	75	20,794	43,176	9,003	32,604	11,791	10,572	22,382	0.433	0.755
Aluminum and articles thereof	76	18,229	28,467	14,198	25,861	4,031	2,606	10,238	0.779	0.908
Lead and articles thereof	78	197	131	197	131			-66	1.000	1.000
Zinc and articles thereof	79	762	164	762	164			-598	1.000	1.000
Tin and articles thereof	80	182	20	182	20			-162	1.000	1.000
Other base metals articles thereof	81	6,559	15,352	1,169	4,516	5,390	10,836	8,793	0.178	0.294
Tool, implement, cutlery	82	5,589	2,991	3,720	1,877	1,869	1,114	-2,598	0.666	0.628
Misc articles of base metals	83	591	317	509	225	82	92	-274	0.861	0.710
Machinery, boilers, mech appl, engines	84	172,338	219,815	94,113	98,756	78,225	121,059	47,477	0.546	0.449
Elec mchy equip parts; sound recorders	85	113,467	247,223	73,639	155,722	39,828	91,501	133,756	0.649	0.630
Railw/frames loco, rolling stock, parts	86	494	356	264	356	230		-138	0.534	1.000
Vehicles o/t railw/tramw roll stock, prts	87	42,194	31,082	29,646	19,570	12,548	11,512	-11,112	0.703	0.630
Aircraft, spacecraft, parts	88	18,948	386,727	7,339	15,298	11,609	371,429	367,779	0.387	0.040
Ships, boats, floating structures	89	753	8,806	316	286	437	8,520	8,053	0.420	0.032
Optical, photo, cine, meas, precision	90	34,049	69,891	13,780	26,313	20,269	43,578	35,842	0.405	0.376
Clocks and watches, parts	91	12	19	4	19	8		7	0.333	1.000
Musical instruments, parts	92	353	37	352	5	1	32	-316	0.997	0.135
Arms and ammun, parts	93	1,147	528	1,145	451	2	77	-619	0.998	0.854
Furniture, bedding	94	33,417	48,748	27,840	33,759	5,577	14,989	15,331	0.833	0.693

Alberta Exports and MarketShares 1988 and 1991

Category	HS 88 Exs Total	91 Exs Total	88 Exs USA	91 Exs USA	88 Exs ROW	91 Exs ROW	Total Ex Growth	US Share year 88	US Share Year 91
Toys, games, sports requisites, parts	95 1,785	1,920	1,305	1,651	480	269	135	0.731	0.860
Misc manufactured articles	96 263	407	126	76	137	331	144	0.479	0.187
Works of art, collectors pieces	97 2,700	3,349	1,531	1,375	1,169	1,974	649	0.567	0.411
Special classif. provisions	98 24,641	41,703	10,715	15,724	13,926	25,979	17,062	0.435	0.377
Special transaction-trade	99 36,977	183,893	16,530	106,929	20,447	76,964	146,916	0.447	0.581
Total	13,008,701	16,017,601	9,044,940	11,661,149	3,963,761	4,356,452	3,008,900	0.695	0.728
Total excluding HS 27	6,134,455	6,691,002	2,652,816	2,824,787	3,481,639	3,866,215	556,547	0.432	0.422
Total excluding HS 10	11,757,896	14,752,745	8,984,359	11,596,744	2,773,537	3,156,001	2,994,849	0.764	0.786
Total excluding HS 10 and 27	4,883,650	5,426,146	2,592,235	2,760,382	2,291,415	2,665,764	542,496	0.531	0.509
Total HS Cats increased exports							3,656,662		
Increased ex HS 01,99							184,535		
Increased ex HS 05,07,10,16,22,23,27,31, 38,71,75,76,98,99							2,761,931		

British Columbia Exports and Market Shares 1988 and 1991

Category	HS	88 Exs		91 Exs		88 Exs		91 Exs		88 Ex		91 Exs		Total Ex		US Share	
		Total	Total	Total	USA	Total	USA	Total	USA	Total	ROW	Total	ROW	Growth	Year 88	Year 88	Year 91
Live Animals	1	27,526	39,766	27,256	39,699	270	67	12,240	0.990	0.998							
Meat & Edible Offal	2	35,178	17,129	21,907	12,048	13,271	5,081	-18,049	0.623	0.703							
Fish and Shellfish	3	570,403	577,283	140,426	224,705	429,977	352,578	6,880	0.246	0.389							
Dairy products; eggs; honey	4	2,391	6,122	957	238	1,434	5,884	3,731	0.400	0.039							
Products of animal origin nes	5	7,581	4,709	5,929	3,604	1,652	1,105	-2,872	0.782	0.765							
Live tree and plant; bulb; root; flowers	6	6,219	10,282	5,409	8,572	810	1,710	4,063	0.870	0.834							
Edible vegetables; roots; tubers	7	55,321	26,174	10,640	13,942	44,681	12,232	-29,147	0.192	0.533							
Edible fruit and nuts	8	68,161	55,308	52,244	38,483	15,917	16,825	-12,853	0.766	0.696							
Coffee, tea	9	7,082	1,251	6,881	1,206	201	45	-5,831	0.972	0.964							
Cereals	10	34,790	35,248	6,037	2,928	28,753	32,320	458	0.174	0.083							
Prod mill ind; malt; starches; gluten	11	14,177	11,736	872	105	13,305	11,631	-2,441	0.062	0.009							
Oil seed, misc. grain, seed, fruit	12	124,188	25,538	18,671	2,173	105,517	23,365	-98,650	0.150	0.085							
Lac; gums, resins, veg saps	13	266	10	260	10	6		-256	0.977	1.000							
Vegetable plaiting materials	14	192		192				-192	1.000								
Animal/vegetable fats, oils	15	71,997	28,948	4,905	722	67,092	28,226	-43,049	0.068	0.025							
Prep meat, fish, molluscs	16	138,708	127,980	17,663	13,213	121,045	114,767	-10,728	0.127	0.103							
Sugars and sugar confectionery	17	2,062	7,328	1,262	7,061	800	267	5,266	0.612	0.964							
Cocoa and cocoa preparations	18	2,458	2,433	1,810	1,540	648	893	-25	0.736	0.633							
Prep of cereal, flour, starch, /milk	19	9,225	15,648	7,754	15,077	1,471	571	6,423	0.841	0.964							
Prep of fruits, nuts	20	16,182	22,232	5,091	11,018	11,091	11,214	6,050	0.315	0.496							
Misc edible preparations	21	3,063	1,499	1,974	304	1,089	1,195	-1,564	0.644	0.203							
Beverages, spirits, vinegar	22	27,581	109,935	22,721	107,473	4,860	2,462	82,354	0.824	0.978							
Residues and wastes from food ind	23	76,643	35,696	26,509	30,083	50,134	5,613	-40,947	0.346	0.843							
Tobacco and manuf tobacco substat	24	354	5,500	354	5,500			5,146	1.000	1.000							
Salt; sulphur; earth and stone; plaster	25	181,614	139,664	42,374	59,187	139,240	80,477	-41,950	0.233	0.424							
Ores, slag, and ash	26	1,034,748	844,104	9,481	5,277	1,025,267	838,827	-190,644	0.009	0.006							
Mineral fuels, oils, prod of distillates	27	2,096,434	2,173,140	573,065	586,624	1,523,369	1,586,516	76,706	0.273	0.270							
Inorg chemicals; comp prec metals; rad el	28	54,914	150,573	41,012	64,115	13,902	86,458	95,659	0.747	0.426							
Organic chemicals	29	137,666	160,625	50,668	44,338	86,998	116,287	22,959	0.368	0.276							

British Columbia Exports and Market Shares 1988 and 1991

Category	HS	88 Exs Total	91 Exs Total	88 Exs USA	91 Exs USA	88 Ex ROW	91 Exs ROW	Total Ex Growth	US Share Year 88	US Share Year 91
Pharmaceutical products	30	7,262	2,302	899	791	6,363	1,511	-4,960	0.124	0.344
Fertilizers	31	35,473	21,015	25,324	20,146	10,149	869	-14,458	0.714	0.959
Tanning/dyeing extract; derivatives	32	2,446	2,978	1,527	2,296	919	682	532	0.624	0.771
Essential oils and resin; cosm/toilet prep	33	2,915	2,038	2,334	1,410	581	628	-877	0.801	0.692
Soap, waging prep; surface agents	34	664	3,914	494	3,640	170	274	3,250	0.744	0.930
Albuminoidal subs; mod starches; glues	35	3,501	4,864	446	574	3,055	4,290	1,363	0.127	0.118
Explosives; matches	36	207	39	205	39	2		-168	0.990	1.000
Photographic, cinematic goods	37	1,100	1,976	1,017	1,764	83	212	876	0.925	0.893
Misc chemical products	38	10,372	5,219	8,115	4,171	2,257	1,048	-5,153	0.782	0.799
Plastics and articles thereof	39	49,541	49,359	37,520	42,046	12,021	7,313	-182	0.757	0.852
Rubber and articles thereof	40	12,046	8,732	7,738	3,024	4,308	5,708	-3,314	0.642	0.346
Raw hides and skins, leather	41	39,372	8,287	2,708	3,921	36,664	4,366	-31,085	0.069	0.473
Articles of leather; saddlery; luggage	42	1,706	2,721	1,278	1,531	428	1,190	1,015	0.749	0.563
Furskins and artificial fur	43	15,260	7,929	9,819	3,480	5,441	4,449	-7,331	0.643	0.439
Wood and articles of wood; charcoal	44	4,951,004	4,417,751	2,829,584	2,451,726	2,121,420	1,966,025	-533,253	0.572	0.555
Cork and articles of cork	45	107	2	107	2			-105	1.000	1.000
Manufactures of straw	46	4	19	4	1		18	15	1.000	0.053
Pulp of wood; cellulosic mat; waste	47	3,362,332	2,501,163	776,407	604,163	2,585,925	1,897,000	-861,169	0.231	0.242
Paper and paperboard	48	1,538,080	1,507,985	1,015,018	954,772	523,062	553,213	-30,095	0.660	0.633
Printed books, newspapers, pictures	49	28,680	24,912	26,844	22,160	1,836	2,752	-3,768	0.936	0.890
Silk	50	158	17	146	6	12	11	-141	0.924	0.353
Wool, animal hair, yarn and fabric	51	208	101	43	92	165	9	-107	0.207	0.911
Cotton	52	197	55	92	5	105	50	-142	0.467	0.091
Other veg textile fibres; paper yarn	53	1,745	24	1,720	24	25		-1,721	0.986	1.000
Man-made filaments	54	70	820	29	151	41	669	750	0.414	0.184
Man-made staple fibres	55	3,063	539	431	57	2,632	482	-2,524	0.141	0.106
Wadding, felt, twine, cordage	56	1,742	543	1,734	492	8	51	-1,199	0.995	0.906
Carpets and textile floor coverings	57	319	363	243	106	76	257	44	0.762	0.292
special woven fabrics; lace; tapestries	58	291	92	238	88	53	4	-199	0.818	0.957
Impreg, coated, cover/laminated tex fabr	59	2,692	2,921	1,439	1,514	1,253	1,407	229	0.535	0.518
Knitted or crocheted fabrics	60	3	50		12	3	38	47		0.240
Art of apparel, clothing access, knitted	61	15,215	35,267	13,744	29,982	1,471	5,285	20,052	0.903	0.850

British Columbia Exports and Market Shares 1988 and 1991

Category	HS	88 Exs	91 Exs	88 Exs	91 Exs	88 Ex	91 Exs	Total Ex	US Share	US Share
		Total	Total	USA	USA	ROW	ROW	Growth	Year 88	Year 91
Att of apparel, clothing access not knittex	62	11,686	16,283	11,158	12,737	528	3,546	4,597	0.955	0.782
Other made up text art; sets	63	2,846	7,315	2,527	2,201	319	5,114	4,469	0.888	0.301
Footwear; gaiters	64	498	881	209	442	289	439	383	0.420	0.502
Headgear and parts thereof	65	253	179	146	107	107	72	-74	0.577	0.598
Umbrellas, walking sticks, whips, etc	66	139	47	126	45	13	2	-92	0.906	0.957
Prep feathers and down; artif flowers	67	178	40	130	21	48	19	-138	0.730	0.525
Art of stone, plaster, cement, mica	68	18,298	14,042	16,056	13,390	2,242	652	-4,256	0.877	0.954
Ceramic products	69	5,767	3,479	5,517	1,855	250	1,624	-2,288	0.957	0.533
Glass and glassware	70	33,439	12,103	27,646	11,093	5,793	1,010	-21,336	0.827	0.917
Natural/cultured pearls, prec stones met	71	88,895	52,087	79,978	38,431	8,917	13,656	-36,808	0.900	0.738
Iron and steel	72	77,567	78,211	69,517	70,736	8,050	7,475	644	0.896	0.904
Articles of iron and steel	73	105,055	106,364	97,327	96,221	7,728	10,143	1,309	0.926	0.905
Copper and articles thereof	74	33,146	28,095	23,528	13,143	9,618	14,952	-5,051	0.710	0.468
Nickel and articles thereof	75	1,144	952	423	759	721	193	-192	0.370	0.797
Aluminum and articles thereof	76	593,690	389,436	98,686	66,671	495,004	322,765	-204,254	0.166	0.171
Lead and articles threof	78	104,539	33,261	62,403	21,094	42,136	12,167	-71,278	0.597	0.634
Zinc and articles thereof	79	398,513	215,712	273,021	112,819	125,492	102,893	-182,801	0.685	0.523
Tin and articles thereor	80	102	179	18	93	84	86	77	0.176	0.520
Other base metals articles thereof	81	21,580	6,471	6,264	3,614	15,316	2,857	-15,109	0.290	0.558
Tool, implement, cutlery	82	5,174	10,771	3,462	9,691	1,712	1,080	5,597	0.669	0.900
Misc articles of base metals	83	4,147	9,643	3,812	9,062	335	581	5,496	0.919	0.940
Machinery, boilers, mech appl, engines	84	376,385	321,960	281,165	225,683	95,220	96,277	-54,425	0.747	0.701
Elec mchy equip parts; sound recorders	85	77,929	142,581	54,544	92,381	23,385	50,200	64,652	0.700	0.648
Railw /frams loco, rolling stock, parts	86	6,065	1,701	1,846	1,670	4,219	31	-4,364	0.304	0.982
Vehicles o / t railw /tramw roll stock, prts	87	263,900	166,247	218,635	114,916	45,265	51,331	-97,653	0.828	0.691
Aircraft,spacecraft, parts	88	29,256	25,334	19,415	18,931	9,841	6,403	-3,922	0.664	0.747
Ships, boats, floating structures	89	40,016	21,887	31,845	14,952	8,171	6,935	-18,129	0.796	0.683
Optical, photo, cine, meas, precision	90	44,889	55,963	28,359	40,886	16,530	15,077	11,074	0.632	0.731
Clocks and watches, parts	91	480	186	383	120	97	66	-294	0.798	0.645
Musical instruments, parts	92	1,239	4,454	613	4,151	626	303	3,215	0.495	0.932
Arms and ammun, parts	93	3,556	200	3,516	200	40		-3,356	0.989	1.000
Furniture, bedding	94	53,832	82,725	38,480	43,573	15,352	39,152	28,893	0.715	0.527

British Columbia Exports and Market Shares 1988 and 1991

Category	HS 88 Exs Total	91 Exs Total	88 Exs USA	91 Exs USA	88 Exs ROW	91 Exs ROW	Total Ex Growth	US Share Year 88	US Share Year 91
Toys, games, sports requisites, parts	95 15,273	11,078	12,979	7,642	2,294	3,436	-4,195	0.850	0.690
Misc manufactured articles	96 1,048	600	746	414	302	186	-448	0.712	0.690
Works of art, collectors pieces	97 10,033	11,266	6,016	8,617	4,017	2,649	1,233	0.600	0.765
Special classif. provisions	98 23,661	46,451	12,873	26,836	10,788	19,615	22,790	0.544	0.578
Special transaction-trade	99 70,043	79,177	67,714	76,368	2,329	2,809	9,134	0.967	0.965
Totals	17,419,160	15,207,219	7,432,654	6,614,996	9,986,506	8,592,223	-2,211,941	0.427	0.435
Totals excluding HS10, 26,	16,349,622	14,327,867	7,417,136	6,606,791	8,932,486	7,721,076	-2,021,755	0.454	0.461
Total HS Cats increased exports									
Increased ex HS 01,99							470,724		
Increased ex 03,19,20,22,75,82,90,97,98							21,374		
							142,209		

Manitoba Exports and Market Shares 1988 and 1991

Category	HS	88 Exs Total	91 Exs Total	88 Exs USA	91 Exs USA	88 Ex ROW	91 Ex ROW	Total Ex Growth	US Share Year 1988	US Share Year 1991
Live Animals	1	93,313	178,962	93,109	178,850	204	112	85,649	0.998	0.999
Meat & Edible Offal	2	72,907	40,162	63,207	23,505	9,700	16,657	-32,745	0.867	0.585
Fish and Shellfish	3	48,786	46,841	29,497	30,193	19,289	16,648	-1,945	0.605	0.645
Dairy products; eggs; honey	4	11,739	11,502	4,377	5,368	7,362	6,134	-237	0.373	0.467
Products of animal origin nes	5	2,394	2,036	1,812	1,004	582	1,032	-358	0.757	0.493
Live tree and plant; bulb; root; flower	6	54	56	54	56			2	1.000	1.000
Edible vegetables; roots; tubers	7	52,559	49,760	4,871	8,913	47,688	40,847	-2,799	0.093	0.179
Edible fruit and nuts	8	172	2	121	2	51		-170	0.703	1.000
Coffee, tea	9	111	517	111	517			406	1.000	1.000
Cereals	10	666,326	777,412	25,407	24,183	640,919	753,229	111,086	0.038	0.031
Prod mill ind; malt; starches; gluten	11	8,623	14,234	4,911	3,389	3,712	10,845	5,611	0.570	0.238
Oil seed, misc. grain, seed, fruit	12	237,684	158,350	50,428	44,935	187,256	113,415	-79,334	0.212	0.284
Lac; gums, resins, veg saps	13									
Vegetable plaiting materials	14									
Animal/vegetable fats, oils	15	81,272	76,889	46,376	68,575	34,896	8,314	-4,383	0.571	0.892
Prep meat, fish, molluscs	16	212	534	56	255	156	279	322	0.264	0.478
Sugars and sugar confectionery	17	3,972	2,598	3,696	2,589	276	9	-1,374	0.931	0.997
Cocoa and cocoa preparations	18	30		30				-30	1.000	
Prep of cereal, flour, starch,/milk	19	965	703	909	666	56	37	-262	0.942	0.947
Prep of fruits, nuts	20	12,008	1,163	3,090	534	8,918	629	-10,845	0.257	0.459
Misc edible preparations	21	1,035	834	988	808	47	26	-201	0.955	0.969
Beverages, spirits, vinegar	22	7,386	707	7,145	707	241		-6,679	0.967	1.000
Residues and wastes from food ind	23	15,939	28,457	13,312	23,124	2,627	5,333	12,518	0.835	0.813
Tobacco and manuf tobacco substit	24		161		161			161	1.000	1.000
Salt; sulphur; earth and stone; plaster	25	15,917	5,469	5,093	3,776	10,824	1,693	-10,448	0.320	0.690
Ores, slag, and ash	26	2,587	10,241	1,716	6,211	871	4,030	7,654	0.663	0.606
Mineral fuels, oils, prod of distillates	27	111,046	203,837	111,017	203,829	29	8	92,791	1.000	1.000
Inorg chemicals; comp prec metals; rad el	28	17,237	38,736	9,191	29,543	8,046	9,193	21,499	0.533	0.763
Organic chemicals	29	1,337	424	1,119	401	218	23	-913	0.837	0.946
Pharmaceutical products	30	396	357	93	52	303	305	-39	0.235	0.146
Fertilizers	31	29,374	20,356	25,126	20,302	4,248	54	-9,018	0.855	0.997
Tanning/dyeing extract; derivatives	32	769	637	758	600	11	37	-132	0.986	0.942
Essential oils and resin; cosm/toilet prep	33	103	715	103	610		105	612	1.000	0.853
Soap, wating prep; surface agents	34	223	856	203	617	20	239	633	0.910	0.721
Aluminoid subs; mod starches; glues	35	2,947	6,348	273	710	2,674	5,638	3,401	0.093	0.112
Explosives; matches	36		5				5	5		
Photographic, cinematic goods	37	172	64	172	47		17	-108	1.000	0.734

Manitoba Exports and Market Shares 1988 and 1991

Category	HS	88 Exs Total	91 Exs Total	88 Exs USA	91 Exs USA	88 Ex ROW	91 Ex ROW	Total Ex Growth	US Share Year 1988	US Share Year 1991
Misc chemical products	38	1,616	71	1,543	70	73	1	-1,545	0.955	0.986
Plastics and articles thereof	39	50,594	43,006	47,039	41,258	3,555	1,748	-7,588	0.930	0.959
Rubber and articles thereof	40	1,603	1,042	1,440	971	163	71	-561	0.898	0.932
Raw hides and skins, leather	41	9,233	20,137	6,820	13,869	2,413	6,268	10,904	0.739	0.689
Articles of leather; saddlery; luggage	42	4,830	1,825	4,639	1,726	191	99	-3,005	0.960	0.946
Furskins and artificial fur	43	6,878	3,334	6,208	3,065	670	269	-3,544	0.903	0.919
Wood and articles of wood; charcoal	44	51,904	65,827	4,763	64,680	47,141	1,147	13,923	0.092	0.983
Cork and articles of cork	45									
Manufactures of straw	46									
Pulp of wood; cellulosic mat; waste	47	10,333	2,082	9,901	2,082	432		-8,251	0.958	1.000
Paper and paperboard	48	108,778	96,506	104,581	87,476	4,197	9,030	-12,272	0.961	0.906
Printed books, newspapers, pictures	49	14,098	14,281	11,163	10,765	2,935	3,516	183	0.792	0.754
Silk	50									
Wool, animal hair, yarn and fabric	51	363	12	360	12	3	3	-351	0.992	1.000
Cotton	52	78	39	68	34	10	5	-39	0.872	0.872
Other veg textile fibres; paper yarn	53	20,791	15,163	20,733	15,157	58	6	-5,628	0.997	1.000
Man-made filaments	54	650	1,386	547	1,386	103	8	736	0.842	1.000
Man-made staple fibres	55	701	40	701	32		8	-661	1.000	0.800
Wadding, felt, twine, cordage	56	4,567	176	4,558	167	9	9	-4,391	0.998	0.949
Carpets and textile floor coverings	57	76	6	62	3	14	3	-70	0.816	0.500
special woven fabrics; lace; tapestries	58	172	65	147	62	25	3	-107	0.855	0.954
Impreg, coated, cover/laminated tex fabr	59	626	51	622	49	4	2	-575	0.994	0.961
Knitted or crocheted fabrics	60	537	51	533	32	4	19	-486	0.993	0.627
Art of apparel, clothing access, knitted	61	4,810	1,798	4,627	1,581	183	217	-3,012	0.962	0.879
Art of apparel, clothing access not knitted	62	9,423	6,703	9,162	6,671	261	32	-2,720	0.972	0.995
Other made up text art; sets	63	1,269	715	1,161	452	108	263	-554	0.915	0.632
Footwear; gaiters	64	134	97	108	37	26	60	-37	0.806	0.381
Headgear and parts thereof	65	87	100	87	88		12	13	1.000	0.880
Umbrellas, walking sticks, whips, etc	66	52	33	7	33	45		-19	0.135	1.000
Prep feathers and down; artif flowers	67									
Art of stone, plaster, cement, mica	68	3,479	2,904	3,327	2,803	152	101	-575	0.956	0.965
Ceramic products	69	199	132	199	129		3	-67	1.000	0.977
Glass and glassware	70	2,001	1,327	2,001	1,310		17	-674	1.000	0.987
Natural/cultured pearls, prec stones metal	71	3,469	1,793	3,075	1,739	394	54	-1,676	0.886	0.970
Iron and steel	72	40,310	34,700	38,646	34,143	1,664	557	-5,610	0.959	0.984
Articles of iron and steel	73	13,702	12,271	12,272	10,766	1,430	1,505	-1,431	0.896	0.877
Copper and articles thereof	74	5,047	16,417	4,627	6,536	420	9,881	11,370	0.917	0.398
Nickel and articles thereof	75	579	66,664	484	66,124	95	540	66,085	0.836	0.992
Aluminium and articles thereof	76	15,563	9,904	15,004	9,606	559	298	-5,659	0.964	0.970
Lead and articles thereof	78	263	110	194	110	69		-153	0.738	1.000

Manitoba Exports and Market Shares 1988 and 1991

Category	HS	88 Exs Total	91 Exs Total	88 Exs USA	91 Exs USA	88 Ex ROW	91 Ex ROW	Total Ex Growth	US Share Year 1988	US Share Year 1991
Zinc and articles thereof	79	3,326	42,681	2,886	40,731	440	1,950	39,355	0.868	0.954
Tin and articles thereof	80		4		4			4		1.000
Other base metals articles thereof	81	242	1,653	242	739		914	1,411	1.000	0.447
Tool, implement, cutlery	82	2,321	1,083	2,106	954	215	129	-1,238	0.907	0.881
Misc articles of base metals	83	1,020	844	883	787	137	57	-176	0.866	0.932
Machinery, boilers, mech appl, engines	84	359,297	244,645	317,592	226,910	41,705	17,735	-114,652	0.884	0.928
Elec mchy equip parts; sound recorders	85	63,062	108,410	59,467	105,765	3,595	2,645	45,348	0.943	0.976
Railw/frames loco, rolling stock, parts	86	18,101	17,469	17,751	17,469	350		-632	0.981	1.000
Vehicles o/t railw/tramw roll stock, prts	87	196,459	183,529	188,871	180,684	7,588	2,845	-12,930	0.961	0.984
Aircraft, spacecraft, parts	88	88,717	122,797	85,811	119,315	2,906	3,482	34,080	0.967	0.972
Ships, boats, floating structures	89	2,535	80	2,535	48		32	-2,455	1.000	0.600
Optical, photo, cine, meas, precision	90	3,528	5,147	3,115	4,140	413	1,007	1,619	0.883	0.804
Clocks and watches, parts	91	63	4	53	4	10		-59	0.841	1.000
Musical instruments, parts	92	40	39	40	14		25	-1	1.000	0.359
Arms and ammun, parts	93	2,480	1,075	1,806	498	674	577	-1,405	0.728	0.463
Furniture, bedding	94	32,732	31,828	32,108	31,397	624	431	-904	0.981	0.986
Toys, games, sports requisites, parts	95	1,092	1,089	474	472	618	617	-3	0.434	0.433
Misc manufactured articles	96	993	212	918	19	75	193	-781	0.924	0.090
Works of art, collectors pieces	97	1,107	1,151	950	853	157	298	44	0.858	0.741
Special classif. provisions	98	23,801	28,678	17,268	24,418	6,533	4,260	4,877	0.726	0.851
Special transaction-trade	99	226,945	162,279	133,092	20,870	93,853	141,409	-64,666	0.586	0.129
Totals		2,916,271	3,055,390	1,697,748	1,846,147	1,218,523	1,209,243	139,119	0.582	0.604
Totals excluding HS10		2,249,945	2,277,978	1,672,341	1,821,964	577,604	456,014	28,033	0.743	0.800
Total HS Cats increased exports								562,933		
Increased exports HS 01,27,88								212,520		
Increased exports HS 28,44,75,79								140,862		

Saskatchewan Exports and Market Shares 1988 and 1981

Category	HS 88 Exs Total	91 Exs Total	88 Exs US	91 Exs US	88 Ex ROW	91 Exs ROW	Total Ex Growth	US Mkt Sh Year 88	US Mkt Share Year 1991
Live Animals	1 45,203	138,715	44,518	138,492	685	223	93,512	0.985	0.998
Meat & Edible Offal	2 57,063	25,729	53,258	21,747	3,805	3,982	-31,334	0.933	0.845
Fish and Shellfish	3 450	166	114	156	336	10	-284	0.253	0.940
Dairy products; eggs; honey	4 1,608	6,586	572	790	1,036	5,796	4,978	0.356	0.120
Products of animal origin nes	5 50	197	43	137	7	60	147	0.860	0.695
Live tree and plant; bulb; root; flower	6 4	46	4	46			42	1.000	1.000
Edible vegetables; roots; tubers	7 14,965	84,574	2,179	2,721	12,786	81,853	69,609	0.146	0.032
Edible fruit and nuts	8 60	18	57		3	18	-42	0.950	
Coffee, tea	9	14		13		1	14		0.929
Cereals	10 2,876,725	2,243,047	67,514	80,894	2,809,211	2,162,153	-633,678	0.023	0.036
Prod mill ind; malt; starches; gluten	11 9,595	22,696	3,981	3,357	5,614	19,339	13,101	0.415	0.148
Oil seed, misc. grain, seed, fruit	12 337,443	333,238	21,680	23,385	315,763	309,853	-4,205	0.064	0.070
Lac; gums, resins, veg saps	13 113		113				-113	1.000	
Vegetable plaiting materials	14								
Animal/vegetable fats, oils	15 11,597	2,460	3,182	1,352	8,415	1,108	-9,137	0.274	0.550
Prep meat, fish, molluscs	16 6,186	8,623	6,160	8,578	26	45	2,437	0.996	0.995
Sugars and sugar confectionery	17	7				7			
Cocoa and cocoa preparations	18								
Prep of cereal, flour, starch,/milk	19 1,855	817	83	93	1,772	724	-1,038	0.045	0.114
Prep of fruits, nuts	20 32	196	14	179	18	17	164	0.438	0.913
Misc edible preparations	21 148	1,412	143	60	5	1,352	1,264	0.966	0.042
Beverages, spirits, vinegar	22 199	990	199	914		76	791	1.000	0.923
Residues and wastes from food ind	23 3,338	30,661	697	1,081	2,641	29,580	27,323	0.209	0.035
Tobacco and manuf tobacco substit	24 2	4	2	4			2	1.000	1.000
Salt; sulphur; earth and stone; plaster	25 2,395	2,486	2,249	2,486	146		91	0.939	1.000
Ores, slag, and ash	26 1,396	68	1,391	68	5		-1,328	0.996	1.000
Mineral fuels, oils, prod of distillates	27 728,597	942,815	728,585	942,815	12		214,218	1.000	1.000
Inorg chemicals; comp prec metals; rad el	28 78,108	117,901	71,845	116,429	6,263	1,472	39,793	0.920	0.988
Organic chemicals	29 5,749	645	5,749	280		365	-5,104	1.000	0.434

Saskatchewan Exports and Market Shares 1988 and 1991

Category	HS 88 Exs	91 Exs	88 Exs	91 Exs	88 Ex	91 Exs	Total Ex	US Mkt Sh	US Mkt Share
	Total	Total	US	US	ROW	ROW	Growth	Year 88	Year 1991
Pharmaceutical products	30	154	230	29	13	125	217	76	0.188
Fertilizers	31	1,168,671	1,064,595	618,920	607,655	549,751	456,940	-104,076	0.530
Tanning/dyeing extract; derivatives	32	379	52	333	52	46	-327	0.879	1.000
Essential oils and resin; cosm/toilet prep	33	1	4	1	1	3	3	1.000	0.250
Soap, waging prep; surface agents	34	129	31	88	23	41	8	0.682	0.742
Albuminoidal subs; mod starches; glues	35		32		32		32		1.000
Explosives; matches	36	35		35			-35	1.000	
Photographic, cinematic goods	37		12		12		12		1.000
Misc chemical products	38	11,144	10,309	11,106	10,277	38	32	-835	0.997
Plastics and articles thereof	39	4,737	3,240	4,219	3,104	518	136	-1,497	0.891
Rubber and articles thereof	40	333	335	110	253	223	82	2	0.330
Raw hides and skins, leather	41	1,183	3,554	1,183	3,437		117	2,371	0.967
Articles of leather; saddlery; luggage	42	73	28	73	24		4	-45	0.857
Furskins and artificial fur	43	51	2	24	2	27		-49	1.000
Wood and articles of wood; charcoal	44	24,067	24,652	23,849	24,408	218	244	585	0.990
Cork and articles of cork	45	26		26				-26	1.000
Manufactures of straw	46		1		1			1	1.000
Pulp of wood; cellulosic mat; waste	47	176,185	99,640	95,718	46,101	80,467	53,539	-76,545	0.463
Paper and paperboard	48	19,194	73,263	19,088	70,963	106	2,300	54,069	0.969
Printed books, newspapers, pictures	49	1,963	4,160	1,862	4,094	101	66	2,197	0.984
Silk	50								
Wool, animal hair, yarn and fabric	51		1		1			1	1.000
Cotton	52								
Other veg textile fibres; paper yarn	53	4,271	1,271	2,967	1,261	1,304	10	-3,000	0.992
Man-made filaments	54								
Man-made staple fibres	55								
Wadding, felt, twine, cordage	56		1		1			1	1.000
Carpets and textile floor coverings	57								
special woven fabrics; lace; tapestries	58	14		14				-14	1.000
Impreg, coated, cover/laminated tex fabr	59	3	28		22	3	6	25	0.786
Knitted or crocheted fabrics	60								
Art of apparel, clothing access, knitted	61		7		7			7	1.000

Category

Category	HS 88 Exs	91 Exs	88 Exs	91 Exs	88 Ex	91 Exs	Total Ex Growth	US Mkt Sh Year 88	US Mkt Sh Year 1991
	Total	Total	US	US	ROW	ROW			
Atr of apparel, clothing access not knitted	62	33	5	33	3		-28	1.000	0.600
Other made up text art; sets	63	27	49	27	12		22	1.000	0.245
Footwear; gaiters	64	26	22	22	21	4	-4	0.846	0.955
Headgear and parts thereof	65	1	4	1	4		3	1.000	1.000
Umbrellas, walking sticks, whips, etc	66								
Prep feathers and down; artif flowers	67								
Art ofstone, plaster, cement, mica	68	99	9	86	9	13	-90	0.869	1.000
Ceramic products	69	75	387	75	384		3	1.000	0.992
Glass and glassware	70	988	187	988	187		-801	1.000	1.000
Natural/cultured pearls, prec stones meta	71	274	266	110	266	164	-8	0.401	1.000
Iron and steel	72	58,966	35,759	58,717	35,759	249	-23,207	0.996	1.000
Articles of iron and steel	73	5,883	52,152	5,651	52,124	232	46,269	0.961	0.999
Copper and articles thereof	74	197	428	192	397	5	231	0.975	0.928
Nickel and articles thereof	75	2,302	4,651	1,129	4,589	1,173	2,349	0.490	0.987
Aluminum and articles thereof	76	1,106	1,389	1,098	1,389	8	283	0.993	1.000
Lead and articles threof	78								
Zinc and articles thereof	79	44	23	44	23		-21	1.000	1.000
Tin and articles thereor	80	9				9	-9		
Other base metals articles thereof	81	186	26	61	26	125	-160	0.328	1.000
Tool, implement, cutlery	82	482	35	215	25	267	-447	0.446	0.714
Misc articles of base metals	83	43	51	26	51	17	8	0.605	1.000
Machinery, boilers, mech appl, engines	84	52,724	48,835	47,564	44,714	5,160	-3,889	0.902	0.916
Elec mchy equip parts; sound recorders	85	22,170	19,232	20,687	14,508	1,483	-2,938	0.933	0.754
Railw/ftrams loco, rolling stock, parts	86	129	19	129	19		-110	1.000	1.000
Vehicles o/t railw/tramw roll stock, prts	87	12,293	4,156	12,128	4,024	165	-8,137	0.987	0.968
Aircraft,spacecraft, parts	88	691	222	117	184	574	-469	0.169	0.829
Ships, boats, floating structures	89		18		18		18		1.000
Optical,photo, cine, meas, precision	90	3,678	3,665	2,764	1,334	914	-13	0.751	0.364
Clocks and watches, parts	91	72		68		4	-72	0.944	
Musical instruments, parts	92		5		5		5		1.000
Arms and ammun, parts	93								
Furniture, bedding	94	970	184	563	153	407	-786	0.580	0.832

Saskatchewan Exports and Market Shares 1988 and 1991

Category	HS 88 Exs	91 Exs	88 Exs	91 Exs	US	88 Ex	91 Exs	US	88 Ex	91 Exs	Total Ex	US Mkt Sh	US Mkt Share
	Total	Total	US	US	US	US	US	US	US	US	Growth	Year 88	Year 1991
Toys, games, sports requisites, parts	95 187	105	150	89	37	16	-82	0.802	0.848				
Misc manufactured articles	96 7	67	3	67	4	60	0.429	1.000					
Works of art, collectors pieces	97 235	881	152	838	83	43	646	0.647	0.951				
Special classif. provisions	98 1,594	4,219	1,179	4,115	415	104	2,625	0.740	0.975				
Special transaction-trade	99 5,764	26,487	5,744	21,139	20	5,348	20,723	0.997	0.798				
Totals	5,766,749	5,453,097	1,953,700	2,304,297	3,813,049	3,148,800	-313,652	0.339	0.423				
Total excluding HS 10	2,890,024	3,210,050	1,886,186	2,223,403	1,003,838	986,647	320,026	0.653	0.693				
Total HS Cats increased exports													
Increased exports HS 01,27,44,51,76													
Increased exports HS 28													