

Order Paper Questions

Mr. R. R. Atkinson Saskatoon, Saskatchewan	Mr. Lorne E. Parker Ste. Agathe, Manitoba
Mr. Henry A. Dechant Fairview, Alberta	Mr. Orville M. Reber Burdett, Alberta
Mr. Kenneth D. Galloway Fort Saskatchewan, Alberta	Mr. Avery K. Sahl Mossbank, Saskatchewan
Mr. Michael G. W. Halyk Melville, Saskatchewan	Mr. Ted Strain North Battleford, Saskatchewan
Mr. Clarence A. Hookenson Kisbey, Saskatchewan	Mr. E. K. Turner Regina, Saskatchewan
Mr. Donn Mitchell Douglas, Manitoba	

2. Fifteen of the 17 meetings held by the current advisory committee since January, 1979, to May 27, 1980, were held in the Wheat Board offices in Winnipeg. One meeting of the advisory committee was held in Prince Rupert and a joint meeting of the advisory committees of the Wheat Board and the Canadian Livestock Feed Board was held in Montreal, at which four members of the Wheat Board's Advisory Committee were present.

(a) and (b) For each member, up to and including the May 27th meeting, costs have been incurred as follows:

	Expenses	Per diem allowance (committee meetings)
R. R. Atkinson	\$4,701.54	\$1,600
H. A. Dechant	6,497.48	1,400
K. D. Galloway	5,137.95	1,700
M. G. W. Halyk	5,830.76	1,600
C. A. Hookenson	4,350.11	1,600
Donn Mitchell	1,902.10	1,500
L. E. Parker	828.87	1,500
O. M. Reber	7,270.75	1,600
A. K. Sahl	3,902.30	1,400
Ted Strain	5,007.52	1,600
E. K. Turner	2,481.35	1,200
	\$47,910.73	\$16,700

In addition to the above, within guidelines established by the advisory committee in November, 1976, and in accordance with Order-in-Council P.C. 1977-101 of January 20, 1977, members of the advisory committee are provided with an allowance of up to \$1,800 per crop year to cover expenses in

their districts attributable to their position on the advisory committee. These expenses include, but are not limited to, expenses incurred in attending meetings within a member's district on behalf of the advisory committee. During the 17-month period from January, 1979, to May 30, 1980, the expenses claimed under this provision by all members of the advisory committee amounted to a total of \$11,893.86.

3. Sixteen formal meetings of the current advisory committee, and one joint meeting of the advisory committee (represented by four of its members) with the Canadian Livestock Feed Board Advisory Committee were held during the period January 1, 1979, to May 27, 1980.

4. (a) and (b) No member of the advisory committee has travelled outside Canada on committee or Wheat Board business. In addition to the travel to and from Winnipeg to attend the regular committee meetings, four members of the committee represented it at the April, 1979, joint meeting at Montreal as indicated in part (2) above. These four members, with their individual expenses, are listed below:

R. R. Atkinson	\$346.50	D. Mitchell	\$254.00
K.D. Galloway	\$418.88	T. Strain	\$438.00

These expenses and the costs of the advisory committee's meeting in Prince Rupert in June, 1979, are included in totals listed in part (2) above.

DR. FRED KUMMEROW—LARGE DOSES OF VITAMIN D—
VASCULAR DISEASES

Question No. 1,337—**Mr. Cossitt:**

Is the Department of National Health and Welfare aware of the opinions held by certain American authorities on vitamins, including Dr. Fred Kummerow, professor of food chemistry at the University of Illinois, to the effect that vitamin D in more than average doses is more dangerous in vascular diseases than cholesterol and, if so (a) has the department investigated this opinion and, if so, what was the result (b) is the department aware of any investigations in Canada or elsewhere that would substantiate such an opinion and, if so, what are all the details?

Mr. Doug Frith (Parliamentary Secretary to Minister of National Health and Welfare): The department is aware that Dr. Fred Kummerow and others have speculated that long-term high intakes of vitamin D may increase the risk of cardiovascular disease. It has been known for many years that very large doses of vitamin D can be harmful and can produce arteriosclerosis in experimental animals when fed over a long period of time. In recent experiments, Doctor Kummerow confirmed that huge doses of vitamin D can cause degeneration of artery tissue in young pigs. These observations plus the high levels of vitamin D in animal tissues and the widespread fortification of foods with vitamin D in the United States have led him to suggest that the levels of vitamin D in the American food supply may be a risk factor in cardiovascular disease.

(a) and (b) The department is carrying out analyses of the vitamin D content of Canadian foods, but as far as is known no studies have been carried out in Canada to investigate specifi-