JUL 20 1973

OHIO AGRICULTURAL RESEARCH AND DEVELOPMENT CENTER
WOOSTER, OHIO

July 17, 1973

Dr. E. Scott Tucker
Research Group Leader
Monsanto Research (T-2-F)
800 Lindbergh Boulevard
St. Louis, Missouri 63166

Dear Scott:

I very much appreciate the information and comments you sent concerning the milks, silages and blank PCB samples. Unfortunately our values do not agree as to absolute concentration, however, the relative concentrations are similar.

Enclosed you will find a table showing the results that we obtained with these samples. Also included in the table (script type) are the values you obtained. From the data you sent I could not determine whether corrections for background and recovery had been made. Could this possibly be a source contributing to a portion of the differences observed? I would appreciate any comments you may have on this data.

If you could schedule some additional samples, I would like to exchange some more milk, human milk and silage samples. We have silage and milk samples which represent a fairly wide range of concentrations. Also, we expect to get some additional human milk samples in the next few weeks. If such an exchange is possible, let me know.

Your comments and reprint on background contamination were very enlightening. I have requested that an oven be purchased to reduce this problem, however, our equipment funds are very short. We are in fairly good shape for the coming year for labor and supplies as a result of a USDA contract. However, there are no equipment funds with this contract. If the oven is not approved by August 1, I will have to seek outside funds for its purchase. I think there is a good chance we will get a Polytron as four members of our department have requested this item.

MONS 094970

I thank you for your assistance and hopefully with some additional sample exchanges we can locate the source of the differences.

Sincerely,

L. B. Willett
Assistant Profassor

Enclosures

cc: W. B. Papageorge

LBW/raj

TABLE 1. Comparative PCB analyses on milk and silage.

Sample	ppm Assayed	Assayed ppm minus background	ppm Method loss	ppm Wet or whole milk basis	% Fat or dry matter	ppm On dry matter or fat bases
Milk (40 PFBT)*	0.054	0.043	0.009[xx]	0.052	3.2	1.625
*(40 PFBT)***				*0.015*	*3.2*	*0.458*
Milk (41 PFBT)	0.078	0.067	0.014	0.081	3.4	2.382
(40 PFBT)				*0.036*	*3.6*	*0.993*
Silage (40 PFS)+	0.354	0.334	0.081[++]	0.415	41.0	1.012
(40 PFS)+	0.415	0.395	0.085	0.481	41.0	1.171
(40 PFS)				*0.315*	*39.9*	*0.788*
Silage (41 PFS)+	0.797	0.777	0.099	0.876	36.0	2.432
(41 PFS)+	0.732	0.712	0.097	0.809	36.0	2.248
(40 PFS)				*0.443*	*38.2*	*1.125*

* Regular Type = OARDC

** *Script Type = Monsanto*

\+ Run in duplicate

x Calculated as ppm Aroclor 1254

++ $^{1}/\text{Loss} = 8.477 + (1.292 \times {}^{1}/\text{Background corrected ppm})$

xx Recovery rate = 82.24%

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