Received from
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Northwestern Study
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Notes on Defining Exposure
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These are the decisions regarding the definition of exposure, derived from discussion with Dan Hryhorczuk.

1) An individual is defined as having worked in a department (either exposure or exclusionary) if they have worked in that department for at least three days.

2) Departments indicating exposure are 236, 237, 268, and 821.

3) Departments indicating exclusion are 226 (after 11/27/32), 246, 233, 224, 273, 239, 262, 218, 333, 811, 899, 313, 508, 861. A job class of 89 also indicates exclusion.

4) An individual is excluded from the study if:

He/she worked less than three days at the Krummrich plant	OR	He/she was a co-op worker or a salaried exposed worker or died before 12/31/85.	OR	He/she is not on the chloracne indicator list. AND He/she never worked at least three days in an exposure department. AND He/she worked at least three days in an exclusionary department.

5) An individual is defined as "exposed" if:

He/she worked at least three days in one of the exposure departments.	OR	He/she is on the chloracne indicator list.

6) An individual is defined as "non-exposed" if:

He/she worked at least three days at the Krummrich plant.
AND
He/she is not on the chloracne indicator list.
AND
He/she is not a co-op or a salaried exposed worker.
AND
He/she was alive as of 12/31/85.
AND
He/she never worked in one of the exposure or exclusionary departments for at least three days.

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7) If an individual's work record says department 236 and the job title contains the characters '237', then the work is counted toward department 237.

8) Any work in department 236 after 8/28/78 is counted toward department 237.

9) There is a minor inconsistency in the start and end dates for a job. In most cases, the ending date of a job is the same date as the starting date of the following job. It is impossible to know to which job that transition day belongs. As a compromise, we compute the number of days on the job as (EndDate - StartDate) +.5 .

10) If the job's starting date is before 1/1/82 OR the job does not have a job class of 89, then the number of days on the job is multiplied by the Time field, which indicates the percentage of full-time (e.g. 100 = full time, 50 = half time, 25 = quarter time ...)

11) If the job's starting date is after 1/1/82 AND the job has a job class of 89, then the number of days is computed by multiplying the Time field by 7/40, the ratio indicating 40 hours of work equals 1 week on the job. In this case the Time field indicates the number of hours in the department.

12) The sequence numbers of the coop workers are:
0426 0695 1452 0936 0985 1101 1237

13) Individuals were determined to be salaried exposed workers from visually inspecting a) work records supplied by Monsanto and b) the subject's accounting of his/her work history in the Krummrich employment questionnaire. The sequence numbers of these workers are:
1542 0414 1317 0761

14) The individual with the sequence number 1155 was found to have died before 12/31/85.

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15) Dan Hryhorczuk determined which workers were placed on the chloracne indicator list. He made these judgements by inspecting a) Monsanto's chloracne registry, b) Monsanto's medical records, c) work records provided by Monsanto, and d) NIOSH's chloracne diagnoses. The sequence numbers of the workers placed on the list are:

0027	0050	0056	0081	0092	0103	0117	0133
0134	0136	0146	0166	0168	0174	0176	0221
0240	0249	0252	0257	0267	0270	0272	0287
0312	0329	0330	0334	0336	0345	0350	0355
0372	0397	0410	0417	0451	0458	0504	0516
0530	0537	0538	0547	0553	0585	0601	0604
0627	0678	0701	0720	0724	0768	0781	0793
0809	0818	0835	0856	0870	0881	0947	0960
0974	0984	1015	1032	1042	1082	1087	1106
1128	1136	1143	1157	1202	1203	1206	1221
1241	1244	1250	1277	1285	1296	1301	1302
1316	1331	1350	1352	1378	1391	1399	1410
1425	1431	1432	1436	1453	1475	1488	1492
1538	1542	1554	1567	1573			

Daniel Hryhorczuk

Date

Other dispositions pertaining to chloracne registry:

989 faith to N, no chloracne on NIOSH, no report of chloracne, no report of exposure dept. no report of maintenance

1018 exclusionary dept., exclude

1393 deceased

1497 exclude, no work records available

979 exclude, exclusionary dept.

1573 exclude, exclusionary dept.

298 exclude, exclusionary dept.

660 exclude, exclusionary dept.

678 moved to E because chloracne identified on plant medical records

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