

US EPA ARCHIVE DOCUMENT

10/24/1989

NOTE TO: Frank Sanders and Jay Ellenberger

SUBJECT: Corrected Carcinogenic Risk Assessment for Oxyfluorfen (Goal)

FROM: J. R. Tomerlin, DRES Staff *JR Tomerlin 10/24/89*

A recent memorandum (J. R. Tomerlin, 10/25/89) calculated carcinogenic risk to oxyfluorfen using a Q_1^* of $1.28 \text{ (mg/kg/day)}^{-1}$. The value of the Q_1^* is actually $0.128 \text{ (mg/kg/day)}^{-1}$. Therefore, all carcinogenic risk estimates in that memo should be divided by 10. The corrected summary table would be as shown below.

Oxyfluorfen Exposure and Risk Estimates

	Overall U.S. Population <u>Exposure</u>	Population <u>Risk Est.</u>	Non-Nurs. <u>Infants</u>	Children <u>Aged 1 - 6</u>
Published Tolerances	0.000903 ^a	1.2×10^{-4}	0.004584	0.002369
Papaya	< 0.000001	4.9×10^{-8}	0	< 0.000001
Taro	0	0	0	0
Persimmons	< 0.000001	2.6×10^{-9}	0	0.000001
Horseradish	< 0.000001	5.1×10^{-10}	0	0
TOTAL	0.000903	1.2×10^{-4}	0.004584	0.002371

^aExposure estimate in mg/kg body weight/day.

The corrected version of the commodity contribution table is shown below.

Commodity Contribution to Estimated Dietary Risk in the Overall U.S. Population

<u>Commodity</u>	<u>Exposure</u>	<u>Carcinogenic Risk Estimate</u>
Soybean Oil	0.000528 ^a	6.8×10^{-5}
Apples	0.000111	1.4×10^{-5}
Cottonseed	0.000080	1.0×10^{-5}
Pears	0.000039	5.1×10^{-6}
Meat	0.000029	3.7×10^{-6}
Corn	0.000025	3.2×10^{-6}
Stone Fruit	0.000018	2.3×10^{-6}

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Commodity Contribution to Estimated Dietary Risk
in the Overall U.S. Population, cont'd

<u>Commodity</u>	<u>Exposure</u>	<u>Carcinogenic Risk Estimate</u>
Banana	0.000016 ^a	2.1 x 10 ⁻⁶
Onions	0.000011	1.5 x 10 ⁻⁶
Grapes	0.000011	1.4 x 10 ⁻⁶
Milk	0.000010	1.4 x 10 ⁻⁶
Poultry	0.000008	1.0 x 10 ⁻⁶
Eggs	0.000005	6.9 x 10 ⁻⁷
Cole Crops	0.000005	6.5 x 10 ⁻⁷
Other ^b	0.000001	1.3 x 10 ⁻⁷
TOTAL	0.000902	1.2 x 10⁻⁴

^aEstimated exposure in mg/kg body weight/day.

^bOther includes: pistachio, avocado, dates, figs, guava, loquats, olives, pomegranates, plantains, kiwi, coffee, artichokes, garlic, shallots, soybeans (other than oil), tree nuts, crabapples, and quinces.

cc: DRES, DEB (Loranger), Caswell #188AA, Jamerson (RD), Kocialski (SACB)