FEB 17 1982

TO: Chief, Ecological Effects Branch
Hazard Evaluation Division

FROM: Dr. Willa Garner III
Chief, Review Section No. 1
Environmental Fate Branch, HED

Attached find environmental fate information and/or EEC(s) requested for:

Chemical: DPX-4189

Product Name: GLEAN

Use Pattern for EEC Calculations: ---------

Date in: 5 Jan. 82

Date out: 17 Feb. 82

EEC/EFP#: 2

TAIS
350 61 #2

17 Feb 1982

GLEAN (DPX-4189)

GLEAN was applied by aerial application to two plots, one in Joes, Colorado, and the second in Lewiston, Idaho. The application information provided was acceptable except for the exclusion of the application height. Because of the unique nature of the product, the spray drift information provided can not be readily used for registration of other products.

The graphs illustrating the quantity of material applied were unacceptable as they did not correctly represent the data that was concurrently given in the accompanying tables. The graphs were redrawn to allow an assessment of the data.

The following information is provided giving the quantity of material that can be found on the ground at various distances up- and downwind of the site of application. Because the wind was 45° off of perpendicular of the direction of application, the distances had to be increased (x1.4) to provide the correct distances/quantity relationship.

| Distances (meters) | Quantity ($ug/m^2$) | | | |
|---|---|---|---|---|
| | Joes CO | | Lewiston ID | |
| Upwind | w/o agent | w/ agent | w/o agent | w/ agent |
| 42 | <0.1 | - | <0.1 | 1.0 |
| 21 | <0.1 | <0.1 | - | - |
| 14 | <0.1 | <0.1 | - | - |
| 7 | - | - | 1.0 | >80 |
| Edge | >80 | 8.0 | - | - |
| Center | >80 | >80 | >80 | >80 |
| Downwind | | | | |
| Edge | 2.0 | 7.0 | >80 | 7.0 |
| 7 | - | - | 8.0 | <0.1 |
| 14 | 45.0 | 5.0 | 6.0 | <0.1 |
| 21 | 12.0 | 2.0 | 2.0 | <0.1 |
| 42 | 4.0 | 1.0 | <0.1 | <0.1 |
| 106 | <0.1 | <0.1 | <0.1 | <0.1 |
| 210 | - | - | <0.1 | <0.1 |
| 420 | <0.1 | <0.1 | <0.1 | <0.1 |

w/ or w/o agent refers to the use or nonuse of Nalco-Trol in the spray.

| Application rates | 1/4 oz/A ($1.75 mg/m^2$) | 1/4 oz/A ($1.75 mg/m^2$) | 1 oz/A ($7.0 mg/m^2$) | 1 oz/A ($7.0 mg/m^2$) |
|---|---|---|---|---|
| Wind (mph) | 8-11 | 8-11 | 1-2 | 8-11 |

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