US ERA ARCHIVE DOCUMENT

190891,190892 RECORD NO.

109303. SHAUGHNESSY NO. REVIEW NO.

## EE BRANCH REVIEW

DATE: IN	03-09-87	OUT	04-08-87	
FILE OR REG. NO. 352-485,352-486				
PETITION OR EXP. PERI				
DATE OF SUBMISSION		0	3/02/87	and the second s
DATE RECEIVED BY HED				
RD REQUESTED COMPLET	ION DATE	. 0	4/06/87	
EEB ESTIMATED COMPLETION DATE			4/06/87	·
RD ACTION CODE/TYPE OF REVIEW 192				
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TYPE PRODUCT(S): I, D, H, F, N, R, S Pyrethroid				
DATA ACCESSION NO(S)	, market and the second of the	· · · · · · · · · · · · · · · · · · ·		
PRODUCT MANAGER NO. G. LaRocca(15)				
PRODUCT NAME(S) Asana(Pydrin)Insecticide				
			fenvalerate]	
COMPANY NAMEE.I.duPont deNemours & Company				
SUBMISSION PURPOSE	Mesocosm pr	otocol	review for Asan	a
(esfenvalerate)				
SHAUGHNESSY NO.	CHEMICA	L & FO	RMULATION	% A.I.
109301 /109303 fenvalerate, esfenvalerate				·
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## UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. 20460

OFFICE OF
PESTICIDES AND TOXIC SUBSTANCES

APR 1 3 1987

MEMORANDUM

TO:

George LaRocca, PM (15)

Registration Division (TS-767)

FROM:

Leslie W. Touart, Fisheries Biologist

Section 1

THRU:

Raymond Matheny, Head

Section 1

THRU:

Michael Slimak, Chief

EEB/HED (TS-769)

SUBJECT:

Mesocosm protocol to support "Asana" and "Pydrin"

(EPA Reg. Nos. 352-485, 352-486)

A formal review was not given to the protocol submitted as it lacked pertinent descriptions of intended treatment methods and rates. This information must be present for final acceptance of a protocol. The protocol was reviewed for consistency with EEB's draft guidance document for conducting mesocosm tests and was determined to be quite consistent. The following points will bear consideration in submittal of a final protocol and ultimate conduct of the study:

- 1) The ponds should develop a natural fauna and flora consistent with aquatic systems in the general area of the test, deficiencies noted during the acclimation phase should be rectified by addition of appropriate organisms in the treatment phase of the test;
- 2) Bottom sampling with Ekman dredge during the acclimation phase should be scrutinized for possible disruptions to benthic biota;
- Fertilization must be closely monitored to ensure that eutrophic conditions will be averted in the treatment phase;

- 4) Determinations of treatment rates should make use of available models (i.e., SWRRB, Holst Drift, etc.) and experiential data to arrive at a typical value which will represent all (or at least the predominant) registrations of Asana (Pydrin);
- 5) High and low treatment levels should be based on the range of expected exposures from minimal to worst case situations, if 10(x) and 1/10(x) are adequate to span the range fine, otherwise different multiples should be considered;
- 6) Any modifications in the treatment phase methods warranted from observations made in the acclimation phase should be made in consultation with EEB staff.

The protocol has been evaluated and is considered acceptable contingent on agreement of treatment methods and rates.