174277 RECORD NO.

109702 SHAUGHNESSEY NO.

REVIEW NO.

EEB REVIEW

DATE: I	N5-30-86	OUT 18 JUN 198	6
FILE OR REG. NO		10182-645	· · · · · · · · · · · · · · · · · · ·
PETITION OR EXP. NO	0.		and the second s
DATE OF SUBMISSION		5-20-86	juan ugungungan menjalah palah dalah dalah dalah dan dan dan dan dan dalah dalah dalah dan dan dan dan dalah d
DATE RECEIVED BY H	ED	5-28-86	
RD REQUESTED COMPL	ETION DATE _	6-30-86	
EEB ESTIMATED COMP	LETION DATE	6-30-86	
RD ACTION CODE/TYPE OF REVIEW 117			
TYPE PRODUCT(S) :	I, D, H, F,	N, R, S Synthetic	Pyrethroid
DATA ACCESSION NO(s).	<u>**</u>	
PRODUCT MANAGER NO	. G. L	aRocca (15)	
PRODUCT NAME(S) Cypermethrin			
COMPANY NAME	ICI	Americas, Inc.	
SUBMISSION PURPOSE Submission of honeybee (toxicity of residues			
on foliage) protocol for review in response			
to Data Call-In Notice of 10-25-85.			
SHAUGHNESSEY NO.	CHEMICAL, & FORMULATION % A.I.		
109702	Cypermethrin		

MEMORANDUM

SUBJECT: Review of protocol for toxicity testing on honey bees

FROM: Allen W. Vaughan, Entomologist

Ecological Effects Branch'

Hazard Evaluation Division (TS-769-C)

THRU: Norman J. Cook, Head-Section 2

Ecological Effects Branch

Hazard Evaluation Division (TS-769-C)

THRU: Michael W. Slimak, Chief

Ecological Effects Branch

Hazard Evaluation Division (TS-769-C)

TO: George LaRocca, PMT-15

Insecticide/Rodenticide Branch Registration Division (TS-767-C)

The Ecological Effects Branch (EEB) has reviewed the attached protocol for testing the toxicity of foliar residues to honey bees. As the submitted protocol is based on the methods developed at washington State University, it is in line with what EEB considers as standard methodology. In order to enhance the quality of the study, however, we would recommend the following:

- As it stands, samples will be harvested at 3 and 24 hours posttreatment. Addition of one more weathering interval (e.g., 8 nours posttreatment) is advisable, as this would more clearly show any decrease in residual toxicity over time. Also, if the chemical is still causing substantial mortality (e.g., >50%) 24 hours posttreatment, it may be advisable to extend the test to include bee exposure to 36- or 48-hour old residues.
- Under Experimental Procedure, Sec. 5.6, Observations, the protocol indicates that mortality will be assessed at 3 or 24 hours after exposure began. Mortality should be evaluated after 24 hours of bee exposure to treated foliage, regardless of the weathering period.

- Weather conditions during and after application should be reported.
- The test should be replicated over time to reduce variability due to weather conditions.

If the registrant has any questions about this memo, we would be happy to discuss this matter further.

Attachment