

Experiment Number: 92005-02
Test Type: 90-DAY
Species/Strain: Mouse/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: Methyl vinyl ketone
CAS Number: 78-94-4

Date Report Requested: 10/19/2014
Time Report Requested: 22:44:04
First Dose M/F: NA / NA
Lab: NIEHS

C Number:	C92005
Lock Date:	Not Entered.
Cage Range:	All
Date Range:	All
Reasons For Removal:	All
Removal Date Range:	All
Treatment Groups:	All
Study Gender:	Both
PWG Approval Date	NONE

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SUMMARY OF STATISTICALLY SIGNIFICANT ($P \leq .05$) RESULTS IN THE ANALYSIS OF METHYL VINYL KETONE

MALE MOUSE

Organ

Nose: Respirat Epith

FEMALE MOUSE

Organ

Nose: Respirat Epith

Morphology

Metaplasia

Morphology

Metaplasia

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)
 LAST REMOVAL AT 14286 WEEKS**

DOSE	MALE			
	0PPM	0.5PPM	1PPM	2PPM
Epididymis: Perivascular Inflammation Chronic				
LESION RATES				
OVERALL(a)	0/9 (0%)	0/0 (0%)	0/0 (0%)	1/10 (10%)
POLY-3 RATE (b)	0/9.00	0/0.00	0/0.00	1/10.00
POLY-3 PERCENT (g)	0%	0%	0%	10%
TERMINAL (d)	0/9 (0%)	0/0 (0%)	0/0 (0%)	1/10 (10%)
FIRST INCIDENCE	---	---	---	93(T)
STATISTICAL TESTS				
POLY 3	(e)	(e)	(e)	P=0.521
POLY 1.5	(e)	(e)	(e)	P=0.521
POLY 6	(e)	(e)	(e)	P=0.521
COCH-ARM / FISHERS	P=0.323	(e)	(e)	P=0.526
MAX-ISO-POLY-3	(e)	(e)	(e)	P=0.179
HISTCONT SAME RTE				
HISTCONT ALL RTES				
CURR VS HC SAME RTE				
CURR VS HC ALL RTES				

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)
 LAST REMOVAL AT 14286 WEEKS**

DOSE	MALE			
	0PPM	0.5PPM	1PPM	2PPM
Kidney				
Atrophy				
LESION RATES				
OVERALL(a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	1/10 (10%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	1/10.00
POLY-3 PERCENT (g)	0%	0%	0%	10%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	1/10 (10%)
FIRST INCIDENCE	---	---	---	93(T)
STATISTICAL TESTS				
POLY 3	(e)	(e)	(e)	P=0.500
POLY 1.5	(e)	(e)	(e)	P=0.500
POLY 6	(e)	(e)	(e)	P=0.500
COCH-ARM / FISHERS	P=0.304	(e)	(e)	P=0.500
MAX-ISO-POLY-3	(e)	(e)	(e)	P=0.159
HISTCONT SAME RTE				
HISTCONT ALL RTEs				
CURR VS HC SAME RTE				
CURR VS HC ALL RTEs				

Experiment Number: 92005-02
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 Species/Strain: Mouse/B6C3F1

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)
 LAST REMOVAL AT 14286 WEEKS**

DOSE	OPPM	MALE		
		0.5PPM	1PPM	2PPM
Kidney				
Nephropathy				
LESION RATES				
OVERALL(a)	1/10 (10%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	1/10.00	0/0.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	10%	0%	0%	0%
TERMINAL (d)	1/10 (10%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
FIRST INCIDENCE	93(T)	---	---	---
STATISTICAL TESTS				
POLY 3	(e)	(e)	(e)	P=0.500N
POLY 1.5	(e)	(e)	(e)	P=0.500N
POLY 6	(e)	(e)	(e)	P=0.500N
COCH-ARM / FISHERS	P=0.304N	(e)	(e)	P=0.500N
MAX-ISO-POLY-3	(e)	(e)	(e)	P=0.159N
HISTCONT SAME RTE				
HISTCONT ALL RTES				
CURR VS HC SAME RTE				
CURR VS HC ALL RTES				

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)
 LAST REMOVAL AT 14286 WEEKS**

DOSE	MALE			
	0PPM	0.5PPM	1PPM	2PPM
Larynx				
Inflammation Chronic				
LESION RATES				
OVERALL(a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	---	---
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)
HISTCONT SAME RTE				
HISTCONT ALL RTES				
CURR VS HC SAME RTE				
CURR VS HC ALL RTES				

Experiment Number: 92005-02
 Test Type: 90-DAY
 Species/Strain: Mouse/B6C3F1

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)
 LAST REMOVAL AT 14286 WEEKS**

DOSE	MALE			
	0PPM	0.5PPM	1PPM	2PPM
Liver				
Inflammation Chronic				
LESION RATES				
OVERALL(a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	---	---
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)
HISTCONT SAME RTE				
HISTCONT ALL RTES				
CURR VS HC SAME RTE				
CURR VS HC ALL RTES				

Experiment Number: 92005-02
 Test Type: 90-DAY
 Species/Strain: Mouse/B6C3F1

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 Lab: NIEHS

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)
 LAST REMOVAL AT 14286 WEEKS**

DOSE	MALE			
	0PPM	0.5PPM	1PPM	2PPM
Lung: Artery				
Mineralization				
LESION RATES				
OVERALL(a)	1/10 (10%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	1/10.00	0/0.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	10%	0%	0%	0%
TERMINAL (d)	1/10 (10%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
FIRST INCIDENCE	93(T)	---	---	---
STATISTICAL TESTS				
POLY 3	(e)	(e)	(e)	P=0.500N
POLY 1.5	(e)	(e)	(e)	P=0.500N
POLY 6	(e)	(e)	(e)	P=0.500N
COCH-ARM / FISHERS	P=0.304N	(e)	(e)	P=0.500N
MAX-ISO-POLY-3	(e)	(e)	(e)	P=0.159N
HISTCONT SAME RTE				
HISTCONT ALL RTES				
CURR VS HC SAME RTE				
CURR VS HC ALL RTES				

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 Species/Strain: Mouse/B6C3F1

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)
 LAST REMOVAL AT 14286 WEEKS**

DOSE	MALE			
	0PPM	0.5PPM	1PPM	2PPM
Nose				
Inflammation Chronic				
LESION RATES				
OVERALL(a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	---	---
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)
HISTCONT SAME RTE				
HISTCONT ALL RTES				
CURR VS HC SAME RTE				
CURR VS HC ALL RTES				

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 Species/Strain: Mouse/B6C3F1

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)
 LAST REMOVAL AT 14286 WEEKS**

DOSE	MALE			
	0PPM	0.5PPM	1PPM	2PPM
Nose: Respirat Epith Metaplasia				
LESION RATES				
OVERALL(a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	8/10 (80%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	8/10.00
POLY-3 PERCENT (g)	0%	0%	0%	80%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	8/10 (80%)
FIRST INCIDENCE	---	---	---	93(T)
STATISTICAL TESTS				
POLY 3	P=0.000**	(e)	(e)	P=0.000**
POLY 1.5	P=0.000**	(e)	(e)	P=0.000**
POLY 6	P=0.000**	(e)	(e)	P=0.000**
COCH-ARM / FISHERS	P=0.000**	(e)	(e)	P=0.000**
MAX-ISO-POLY-3	P=0.000**	(e)	(e)	P=0.000**
HISTCONT SAME RTE				
HISTCONT ALL RTES				
CURR VS HC SAME RTE				
CURR VS HC ALL RTES				

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 LAST REMOVAL AT 14286 WEEKS**

DOSE	MALE			
	0PPM	0.5PPM	1PPM	2PPM
Testes: Seminif Tub				
Degeneration				
LESION RATES				
OVERALL(a)	1/10 (10%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	1/10.00	0/0.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	10%	0%	0%	0%
TERMINAL (d)	1/10 (10%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
FIRST INCIDENCE	93(T)	---	---	---
STATISTICAL TESTS				
POLY 3	(e)	(e)	(e)	P=0.500N
POLY 1.5	(e)	(e)	(e)	P=0.500N
POLY 6	(e)	(e)	(e)	P=0.500N
COCH-ARM / FISHERS	P=0.304N	(e)	(e)	P=0.500N
MAX-ISO-POLY-3	(e)	(e)	(e)	P=0.159N
HISTCONT SAME RTE				
HISTCONT ALL RTES				
CURR VS HC SAME RTE				
CURR VS HC ALL RTES				

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)
 LAST REMOVAL AT 14286 WEEKS**

DOSE	FEMALE			
	0PPM	0.5PPM	1PPM	2PPM
Kidney Atrophy				
LESION RATES				
OVERALL(a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	---	---
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)
HISTCONT SAME RTE				
HISTCONT ALL RTES				
CURR VS HC SAME RTE				
CURR VS HC ALL RTES				

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 Lab: NIEHS

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)
 LAST REMOVAL AT 14286 WEEKS**

DOSE	FEMALE			
	0PPM	0.5PPM	1PPM	2PPM
Kidney				
Nephropathy				
LESION RATES				
OVERALL(a)	1/10 (10%)	0/0 (0%)	0/0 (0%)	2/10 (20%)
POLY-3 RATE (b)	1/10.00	0/0.00	0/0.00	2/10.00
POLY-3 PERCENT (g)	10%	0%	0%	20%
TERMINAL (d)	1/10 (10%)	0/0 (0%)	0/0 (0%)	2/10 (20%)
FIRST INCIDENCE	94(T)	---	---	94(T)
STATISTICAL TESTS				
POLY 3	(e)	(e)	(e)	P=0.500
POLY 1.5	(e)	(e)	(e)	P=0.500
POLY 6	(e)	(e)	(e)	P=0.500
COCH-ARM / FISHERS	P=0.377	(e)	(e)	P=0.500
MAX-ISO-POLY-3	(e)	(e)	(e)	P=0.274
HISTCONT SAME RTE				
HISTCONT ALL RTES				
CURR VS HC SAME RTE				
CURR VS HC ALL RTES				

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 LAST REMOVAL AT 14286 WEEKS**

DOSE	FEMALE			
	0PPM	0.5PPM	1PPM	2PPM
Larynx				
Inflammation Chronic				
LESION RATES				
OVERALL(a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	1/10 (10%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	1/10.00
POLY-3 PERCENT (g)	0%	0%	0%	10%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	1/10 (10%)
FIRST INCIDENCE	---	---	---	94(T)
STATISTICAL TESTS				
POLY 3	(e)	(e)	(e)	P=0.500
POLY 1.5	(e)	(e)	(e)	P=0.500
POLY 6	(e)	(e)	(e)	P=0.500
COCH-ARM / FISHERS	P=0.304	(e)	(e)	P=0.500
MAX-ISO-POLY-3	(e)	(e)	(e)	P=0.159
HISTCONT SAME RTE				
HISTCONT ALL RTES				
CURR VS HC SAME RTE				
CURR VS HC ALL RTES				

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)
 LAST REMOVAL AT 14286 WEEKS**

DOSE	FEMALE			
	0PPM	0.5PPM	1PPM	2PPM
Liver				
Inflammation Chronic				
LESION RATES				
OVERALL(a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	1/10 (10%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	1/10.00
POLY-3 PERCENT (g)	0%	0%	0%	10%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	1/10 (10%)
FIRST INCIDENCE	---	---	---	94(T)
STATISTICAL TESTS				
POLY 3	(e)	(e)	(e)	P=0.500
POLY 1.5	(e)	(e)	(e)	P=0.500
POLY 6	(e)	(e)	(e)	P=0.500
COCH-ARM / FISHERS	P=0.304	(e)	(e)	P=0.500
MAX-ISO-POLY-3	(e)	(e)	(e)	P=0.159
HISTCONT SAME RTE				
HISTCONT ALL RTES				
CURR VS HC SAME RTE				
CURR VS HC ALL RTES				

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 LAST REMOVAL AT 14286 WEEKS**

DOSE	FEMALE			
	0PPM	0.5PPM	1PPM	2PPM
Lung: Artery				
Mineralization				
LESION RATES				
OVERALL(a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	---	---
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)
HISTCONT SAME RTE				
HISTCONT ALL RTES				
CURR VS HC SAME RTE				
CURR VS HC ALL RTES				

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 Lab: NIEHS

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 LAST REMOVAL AT 14286 WEEKS**

DOSE	FEMALE			
	0PPM	0.5PPM	1PPM	2PPM
Nose				
Inflammation Chronic				
LESION RATES				
OVERALL(a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	1/10 (10%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	1/10.00
POLY-3 PERCENT (g)	0%	0%	0%	10%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	1/10 (10%)
FIRST INCIDENCE	---	---	---	94(T)
STATISTICAL TESTS				
POLY 3	P=0.199	(e)	(e)	P=0.500
POLY 1.5	P=0.199	(e)	(e)	P=0.500
POLY 6	P=0.199	(e)	(e)	P=0.500
COCH-ARM / FISHERS	P=0.196	(e)	(e)	P=0.500
MAX-ISO-POLY-3	P=0.125	(e)	(e)	P=0.159
HISTCONT SAME RTE				
HISTCONT ALL RTES				
CURR VS HC SAME RTE				
CURR VS HC ALL RTES				

Experiment Number: 92005-02
 Test Type: 90-DAY
 Species/Strain: Mouse/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: Methyl vinyl ketone
 CAS Number: 78-94-4

Date Report Requested: 10/19/2014
 Time Report Requested: 22:44:04
 First Dose M/F: NA / NA
 Lab: NIEHS

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)
 LAST REMOVAL AT 14286 WEEKS**

DOSE	FEMALE			
	0PPM	0.5PPM	1PPM	2PPM
Nose: Respirat Epith Metaplasia				
LESION RATES				
OVERALL(a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	7/10 (70%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	7/10.00
POLY-3 PERCENT (g)	0%	0%	0%	70%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	7/10 (70%)
FIRST INCIDENCE	---	---	---	94(T)
STATISTICAL TESTS				
POLY 3	P=0.000**	(e)	(e)	P=0.000**
POLY 1.5	P=0.000**	(e)	(e)	P=0.000**
POLY 6	P=0.000**	(e)	(e)	P=0.000**
COCH-ARM / FISHERS	P=0.000**	(e)	(e)	P=0.002**
MAX-ISO-POLY-3	P=0.000**	(e)	(e)	P=0.000**
HISTCONT SAME RTE				
HISTCONT ALL RTEs				
CURR VS HC SAME RTE				
CURR VS HC ALL RTEs				

Experiment Number: 92005-02

Test Type: 90-DAY

Species/Strain: Mouse/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: Methyl vinyl ketone

CAS Number: 78-94-4

Date Report Requested: 10/19/2014

Time Report Requested: 22:44:04

First Dose M/F: NA / NA

Lab: NIEHS

LEGEND

- (a) Number of tumor-bearing animals/number of animals examined at site.
 - (b) Number of tumor-bearing animals/Poly-3 number
 - (d) Observed incidence at terminal kill.
 - (e) Value of statistic cannot be computed.
 - (f) Beneath the control incidence are the P-values associated with the trend test. Beneath the dosed group incidence are the P-values corresponding to pairwise comparisons between the controls and that dosed group.
 - (g) Poly-3 adjusted lifetime tumor incidence.
 - (n) No statistics are calculated if all dose groups have fewer than two tumors.
 - (I) Interim sacrifice
 - (T) Terminal sacrifice
 - # Tumor rates based on numbers of animals necropsied.
 - * To the right of any statistical result, indicates significance at ($P \leq 0.05$).
 - ** To the right of any statistical result, indicates significance at ($P \leq 0.01$).
 - N Indicates a negative trend for all tests
- The Cochran-Armitage and Fishers exact tests compare directly the overall incidence rates.

**** END OF REPORT ****