

**TDMs No.** 20313 - 05

**P18: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a) WITH  
AVERAGE SEVERITY GRADES[b]**

**Date Report Requested:** 01/15/2010

**Test Type:** CHRONIC

Acrylamide

**Time Report Requested:** 14:38:46

**Route:** DOSED WATER

**CAS Number:** 79-06-1

**First Dose M/F:** 05/23/05 / 05/23/05

**Species/Strain:** RATS/F 344/NCTR

**Lab:** NCTR

**C Number:** C20313  
**Lock Date:** 01/14/2010  
**Cage Range:** ALL  
**Date Range:** ALL  
**Reasons For Removal:** ALL  
**Removal Date Range:** ALL  
**Treatment Groups:** Include ALL  
**Study Gender:** Both  
**TDMSE Version:** 2.2.0

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FISCHER 344 RATS-NCTR RATS MALE	0.70 ACRYL	0.35 ACRYL	0.175 ACRYL	0.0875 ACRYL	CONTROL WATER
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**Disposition Summary**

Animals Initially In Study	48	48	48	48	48
Early Deaths					
Moribund Sacrifice	27	23	20	20	18
Natural Death	4		2	4	6
Survivors					
Moribund Sacrifice	7	7	7	9	5
Natural Death	1	2		1	2
Terminal Sacrifice	9	16	19	14	17
Animals Examined Microscopically	48	48	48	48	48

ALIMENTARY SYSTEM

Intestine Large, Cecum	(47)	(48)	(47)	(48)	(45)
Dilatation		1			
Inflammation	1 [4.0]				
Ulcer	1 [3.0]				
Lymphoid Tissue, Hyperplasia		3 [2.0]			
Intestine Large, Colon	(48)	(48)	(47)	(47)	(45)
Lymphoid Tissue, Hyperplasia		1 [2.0]	2 [2.5]		
Intestine Small, Duodenum	(48)	(48)	(47)	(48)	(45)
Mucosa, Hyperplasia		1 [3.0]			
Intestine Small, Ileum	(47)	(48)	(47)	(47)	(44)
Lymphoid Tissue, Hyperplasia		3 [2.7]	2 [2.5]	1 [3.0]	2 [3.0]
Intestine Small, Jejunum	(45)	(48)	(46)	(46)	(43)
Inflammation	1 [3.0]		1 [2.0]		
Ulcer	1 [3.0]				
Lymphoid Tissue, Hyperplasia		2 [2.5]	1 [2.0]		
Liver	(48)	(48)	(48)	(48)	(48)
Angiectasis		1 [3.0]	1 [2.0]		3 [2.3]
Basophilic Focus					1
Basophilic Focus, Multiple	1	1			2
Cyst	1		1		
Degeneration, Cystic	11 [2.2]	6 [2.2]	7 [1.9]	4 [1.8]	5 [2.0]
Eosinophilic Focus	3	5	1	1	2

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Eosinophilic Focus, Multiple	1	1		1	
Granuloma	4 [1.8]	4 [1.8]	6 [1.5]	5 [1.4]	7 [1.4]
Hematopoietic Cell Proliferation	1 [2.0]	1 [1.0]	2 [2.0]	3 [2.3]	1 [2.0]
Hepatodiaphragmatic Nodule	2	1	1	1	
Infiltration Cellular, Lymphocyte	1 [1.0]			1 [1.0]	
Necrosis, Coagulative	2 [1.5]		1 [3.0]		
Pigmentation		1 [3.0]			
Regeneration		1 [4.0]			
Thrombosis		1 [2.0]			
Vacuolization Cytoplasmic	2 [2.0]	10 [2.8]	10 [2.6]	6 [3.0]	11 [2.1]
Bile Duct, Hyperplasia	21 [2.0]	17 [1.8]	21 [2.0]	19 [1.7]	16 [1.8]
Caudate Lobe, Developmental Malformation			1		1
Centrilobular, Degeneration			1 [2.0]		
Centrilobular, Necrosis	1 [2.0]	2 [2.0]		1 [3.0]	3 [2.7]
Hepatocyte, Hyperplasia	1 [3.0]			2 [3.0]	1 [4.0]
Left Lateral Lobe, Developmental Malformation	1	2	2		3
Median Lobe, Developmental Malformation		1			
Oval Cell, Hyperplasia		1 [3.0]		1 [4.0]	
Right Lateral Lobe, Developmental Malformation	1	2			2
Mesentery	(4)	(7)	(7)	(4)	(2)
Accessory Spleen		1			1
Polyarteritis			1 [2.0]		
Fat, Necrosis	3 [2.7]	5 [2.8]	7 [2.6]	3 [3.3]	
Oral Mucosa	(3)	(6)	(2)	(0)	(0)
Hyperplasia	2 [2.0]	2 [3.0]			
Pancreas	(48)	(48)	(48)	(48)	(46)
Accessory Spleen			1		
Infiltration Cellular, Lymphocyte				1 [1.0]	
Inflammation	1 [2.0]				
Polyarteritis	1 [2.0]	1 [2.0]	1 [2.0]	3 [2.3]	2 [3.5]
Acinar Cell, Atrophy	9 [1.7]	14 [1.7]	15 [2.0]	15 [2.0]	17 [1.9]
Acinar Cell, Hyperplasia			1 [2.0]		
Mesothelium, Hyperplasia	1 [2.0]				
Salivary Glands	(48)	(48)	(48)	(48)	(48)
Infiltration Cellular, Plasma Cell					1 [3.0]

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FISCHER 344 RATS-NCTR RATS MALE	0.70 ACRYL	0.35 ACRYL	0.175 ACRYL	0.0875 ACRYL	CONTROL WATER
Stomach, Forestomach	(48)	(48)	(47)	(48)	(47)
Edema	2 [3.5]	1 [4.0]	3 [3.3]	3 [3.0]	3 [2.7]
Hyperplasia	4 [2.3]	2 [3.0]	4 [3.0]	6 [2.5]	2 [2.0]
Inflammation	1 [3.0]	4 [3.0]	2 [3.5]	3 [3.0]	
Ulcer		4 [3.5]	4 [3.0]	3 [2.7]	
Stomach, Glandular	(48)	(48)	(47)	(48)	(47)
Amyloid Deposition		1 [2.0]			
Edema				2 [3.5]	1 [3.0]
Erosion				1 [2.0]	
Hemorrhage		1 [2.0]			
Inflammation		1 [2.0]	2 [2.5]	2 [2.5]	
Ulcer				1 [2.0]	
Tongue	(1)	(2)	(0)	(1)	(3)
Hyperplasia					1 [4.0]

## CARDIOVASCULAR SYSTEM

Blood Vessel	(48)	(48)	(48)	(48)	(48)
Heart	(48)	(48)	(48)	(48)	(48)
Cardiomyopathy	38 [2.1]	38 [2.0]	36 [2.0]	37 [2.0]	37 [2.2]
Dilatation		1 [4.0]	1 [2.0]		
Infarct					1
Inflammation	1 [2.0]				
Atrium, Thrombosis	10	11	8	13	13
Myocardium, Hypertrophy		1 [2.0]			

## ENDOCRINE SYSTEM

Adrenal Cortex	(48)	(48)	(48)	(48)	(48)
Accessory Adrenal Cortical Nodule	1				
Angiectasis	3 [1.7]	1 [3.0]	5 [1.6]	3 [2.0]	5 [2.0]
Atrophy	2 [3.0]				1 [3.0]
Hyperplasia, Focal		2 [2.0]		2 [1.5]	5 [2.2]
Hypertrophy, Focal	8 [2.1]	6 [2.3]	8 [1.9]	3 [2.0]	4 [2.5]
Necrosis, Coagulative				1 [4.0]	

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Thrombosis		1 [2.0]			
Vacuolization Cytoplasmic	13 [2.1]	11 [2.2]	12 [2.3]	16 [2.4]	12 [2.6]
Adrenal Medulla	(47)	(48)	(47)	(48)	(48)
Angiectasis	2 [2.0]	2 [2.5]	4 [1.5]	3 [1.7]	1 [2.0]
Hyperplasia, Focal	5 [2.0]	2 [2.0]	4 [2.5]	7 [3.0]	6 [2.0]
Islets, Pancreatic	(48)	(48)	(48)	(48)	(46)
Hyperplasia		1 [3.0]			
Parathyroid Gland	(44)	(47)	(47)	(48)	(46)
Atrophy	1 [2.0]				
Cyst				1	
Hyperplasia, Focal					1 [4.0]
Pituitary Gland	(47)	(48)	(47)	(48)	(48)
Angiectasis	2 [2.0]	1 [2.0]	1 [2.0]		2 [2.0]
Pigmentation		1 [2.0]			
Thrombosis			1 [4.0]		
Pars Distalis, Cyst	2		3		6
Pars Distalis, Hyperplasia	3 [2.0]	2 [3.0]	2 [3.0]	1 [2.0]	5 [2.0]
Pars Intermedia, Cyst		2		1	
Thyroid Gland	(48)	(48)	(47)	(48)	(47)
C-cell, Hyperplasia	5 [2.2]	4 [1.5]	2 [1.5]	4 [1.8]	3 [2.0]
Follicle, Cyst	2	2	3	2	1
Follicular Cell, Hyperplasia	3 [2.0]			2 [1.0]	

## GENERAL BODY SYSTEM

Peritoneum	(2)	(0)	(0)	(0)	(0)
Tissue NOS	(1)	(1)	(1)	(1)	(0)
Fat, Necrosis		1 [2.0]			
Fat, Scrotal, Necrosis	1 [3.0]				

## GENITAL SYSTEM

Epididymis	(48)	(48)	(48)	(48)	(48)
Atrophy		1 [3.0]	2 [2.0]	1 [3.0]	
Exfoliated Germ Cell	24 [2.5]	26 [2.3]	23 [2.1]	19 [2.7]	24 [2.8]

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Granuloma Sperm					1 [2.0]
Hypospermia	24 [3.5]	29 [3.4]	30 [3.4]	32 [3.8]	31 [3.8]
Fat, Necrosis				1 [3.0]	
Mesothelium, Hyperplasia					2 [1.0]
Serosa, Cyst			1		
Penis	(1)	(1)	(0)	(0)	(1)
Inflammation					1 [3.0]
Preputial Gland	(48)	(48)	(48)	(47)	(48)
Atrophy			1 [2.0]	1 [2.0]	
Inflammation	35 [2.5]	34 [2.6]	32 [2.6]	38 [2.7]	35 [2.5]
Duct, Ectasia	10 [2.4]	14 [2.7]	11 [2.6]	6 [2.8]	4 [2.5]
Glandular, Hyperplasia		1 [2.0]	1 [3.0]		1 [3.0]
Prostate	(48)	(48)	(48)	(48)	(47)
Atrophy				1 [3.0]	
Inflammation	25 [2.3]	32 [2.2]	28 [2.1]	29 [2.3]	25 [2.2]
Seminal Vesicle	(48)	(48)	(47)	(48)	(48)
Atrophy	9 [2.0]	9 [2.0]	9 [2.0]	12 [2.3]	6 [2.2]
Decreased Secretory Fluid	1 [3.0]	1 [4.0]	5 [2.6]	6 [2.5]	3 [4.0]
Lumen, Distended			1 [3.0]		
Testes	(48)	(48)	(48)	(48)	(48)
Granuloma Sperm				1	
Mineralization				1 [2.0]	1 [2.0]
Polyarteritis	1 [3.0]		1 [2.0]		1 [2.0]
Interstitial Cell, Hyperplasia	3 [2.0]	3 [3.0]	2 [1.5]	6 [2.0]	6 [1.7]
Seminiferous Tubule, Atrophy	16 [3.2]	13 [3.2]	15 [3.4]	21 [3.6]	13 [3.4]

HEMATOPOIETIC SYSTEM

Bone Marrow	(48)	(48)	(48)	(48)	(47)
Atrophy	4 [3.3]	2 [2.5]	5 [3.0]	4 [3.0]	2 [3.0]
Hyperplasia	3 [2.7]	1 [3.0]	2 [2.5]	3 [2.0]	3 [3.0]
Myeloid Cell, Hyperplasia	1 [2.0]				
Lymph Node	(24)	(21)	(22)	(17)	(19)
Degeneration, Cystic	1 [3.0]				
Hyperplasia, Lymphoid				1 [2.0]	

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Inflammation	1 [3.0]				
Axillary, Hemorrhage				1 [2.0]	
Axillary, Hyperplasia, Lymphoid					2 [2.5]
Deep Cervical, Degeneration, Cystic			1 [3.0]		
Inguinal, Degeneration, Cystic					2 [2.5]
Inguinal, Hyperplasia, Lymphoid					1 [3.0]
Inguinal, Infiltration Cellular, Plasma Cell					1 [3.0]
Lumbar, Degeneration, Cystic			2 [3.5]	2 [3.0]	3 [2.3]
Lumbar, Hyperplasia, Lymphoid	1 [2.0]				1 [3.0]
Lumbar, Infiltration Cellular, Plasma Cell					2 [3.0]
Lumbar, Medulla, Sinus, Dilatation		1 [2.0]			
Mediastinal, Degeneration, Cystic		3 [2.3]	1 [3.0]	1 [3.0]	
Mediastinal, Hemorrhage		1 [2.0]	1 [2.0]	1 [2.0]	1 [3.0]
Mediastinal, Hyperplasia, Lymphoid	1 [2.0]				1 [2.0]
Mediastinal, Infiltration Cellular, Mast Cell	1 [3.0]				
Mediastinal, Medulla, Sinus, Dilatation	1 [4.0]	1 [2.0]			
Medulla, Pancreatic, Sinus, Dilatation		2 [3.0]		1 [3.0]	
Medulla, Renal, Sinus, Dilatation	1 [4.0]		1 [2.0]		
Pancreatic, Degeneration, Cystic			1 [2.0]		
Pancreatic, Hemorrhage					1 [3.0]
Pancreatic, Hyperplasia, Lymphoid	1 [2.0]		1 [2.0]	1 [2.0]	1 [3.0]
Renal, Degeneration, Cystic	3 [3.7]	4 [3.5]	5 [3.2]	1 [3.0]	3 [3.7]
Renal, Hemorrhage		1 [2.0]			
Renal, Hyperplasia, Lymphoid			2 [2.0]	1 [2.0]	
Lymph Node, Mandibular	(48)	(48)	(48)	(46)	(48)
Degeneration, Cystic	12 [2.3]	12 [2.6]	11 [2.6]	7 [2.6]	7 [2.0]
Hemorrhage		1 [3.0]	1 [2.0]	1 [3.0]	1 [2.0]
Hyperplasia, Lymphoid	2 [2.0]	6 [2.5]	1 [2.0]	1 [2.0]	5 [2.2]
Infiltration Cellular, Plasma Cell	18 [2.5]	6 [3.0]	12 [2.8]	10 [2.3]	9 [2.4]
Inflammation		1 [2.0]			
Lymph Node, Mesenteric	(48)	(48)	(48)	(47)	(47)
Degeneration, Cystic	5 [3.2]	4 [2.3]	2 [2.5]	2 [4.0]	3 [2.3]
Hemorrhage	3 [2.0]	3 [2.3]		1 [2.0]	1 [2.0]
Hyperplasia, Lymphoid	4 [2.0]		1 [2.0]	2 [2.0]	2 [2.5]
Infiltration Cellular, Plasma Cell		1 [3.0]			
Medulla, Sinus, Dilatation		1 [3.0]		1 [2.0]	1 [3.0]

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Spleen	(48)	(48)	(47)	(48)	(48)
Accessory Spleen	2	4		2	
Congestion			1 [3.0]		
Developmental Malformation			1		
Hematopoietic Cell Proliferation		1 [3.0]	4 [2.3]	3 [3.7]	3 [2.3]
Hyperplasia, Lymphoid			1 [2.0]	1 [2.0]	
Infarct	9	10	11	10	4
Pigmentation	1 [2.0]	3 [2.7]	4 [2.8]	3 [2.3]	3 [2.7]
Capsule, Hematocyst		1			
Red Pulp, Atrophy	4 [2.5]	3 [3.0]	2 [2.5]	1 [3.0]	1 [4.0]
Thymus	(47)	(48)	(46)	(47)	(45)
Atrophy	43 [2.3]	35 [2.3]	40 [2.2]	41 [2.3]	40 [2.4]
Cyst	1	1			1

## INTEGUMENTARY SYSTEM

Mammary Gland	(44)	(43)	(43)	(44)	(44)
Galactocele	9	11	7	10	3
Inflammation			1 [3.0]		
Lactation	19 [2.3]	23 [2.1]	19 [2.1]	19 [2.0]	17 [2.0]
Alveolus, Hyperplasia	10 [2.2]	14 [1.9]	12 [2.3]	13 [2.1]	11 [2.4]
Skin	(48)	(48)	(48)	(48)	(48)
Abscess	1 [4.0]				
Cyst Epithelial Inclusion	1	2		2	
Inflammation			1 [2.0]	1 [4.0]	
Ulcer				2 [4.0]	
Epidermis, Hyperplasia			1 [2.0]		
Fat, Subcutaneous Tissue, Necrosis	1 [3.0]				1 [3.0]
Subcutaneous Tissue, Metaplasia, Osseous		1 [2.0]			
Tail, Hyperkeratosis	1 [2.0]				

## MUSCULOSKELETAL SYSTEM

Bone	(1)	(1)	(0)	(1)	(1)
Cranium, Fracture	1				

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Vertebra, Fracture		1		1	1
Bone, Femur	(48)	(48)	(48)	(48)	(48)
Fibrous Osteodystrophy				2 [2.5]	1 [3.0]
Skeletal Muscle	(48)	(48)	(48)	(48)	(48)
<b>NERVOUS SYSTEM</b>					
Brain, Brain Stem	(48)	(48)	(48)	(48)	(48)
Gliosis, Focal					1 [1.0]
Hemorrhage		1 [2.0]	1 [1.0]	1 [4.0]	
Hypothalamus, Compression	9 [2.1]	16 [2.4]	13 [2.3]	13 [2.5]	6 [2.3]
Ventricle, Dilatation			1 [2.0]	1 [2.0]	1 [2.0]
Brain, Cerebellum	(48)	(48)	(48)	(48)	(48)
Hemorrhage	1 [2.0]				
Brain, Cerebrum	(48)	(48)	(48)	(48)	(48)
Hemorrhage	1 [1.0]				
Hydrocephalus	1 [2.0]		1 [1.0]	2 [2.0]	
Mineralization					1 [1.0]
Necrosis, Focal				1 [4.0]	
Thrombosis				1 [2.0]	
Perivascular, Infiltration Cellular, Mixed Cell, Focal			1 [1.0]		
Ventricle, Dilatation	1 [2.0]	5 [2.0]	6 [2.0]	5 [2.0]	1 [2.0]
Peripheral Nerve, Sciatic	(48)	(48)	(48)	(48)	(48)
Axon, Degeneration	23 [1.0]	11 [1.0]	7 [1.0]	7 [1.0]	5 [1.0]
Spinal Cord, Cervical	(48)	(48)	(47)	(48)	(47)
Degeneration, Focal	1 [2.0]				
Hemorrhage			1 [1.0]		
Axon, Degeneration	19 [1.0]	22 [1.0]	20 [1.0]	22 [1.0]	20 [1.0]
Nerve, Degeneration			3 [1.0]	1 [1.0]	2 [1.0]
Spinal Cord, Lumbar	(48)	(48)	(47)	(48)	(47)
Cyst					1
Gliosis, Focal				1 [1.0]	
Axon, Degeneration	1 [1.0]	1 [1.0]	5 [1.0]	4 [1.0]	6 [1.0]
Nerve, Degeneration	16 [1.1]	16 [1.0]	20 [1.0]	20 [1.1]	16 [1.1]

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Spinal Cord, Thoracic	(48)	(48)	(47)	(48)	(47)
Hemorrhage, Focal			1 [1.0]		
Axon, Degeneration	21 [1.0]	32 [1.0]	25 [1.0]	18 [1.0]	22 [1.0]
Nerve, Degeneration		2 [1.0]	2 [1.0]	1 [1.0]	4 [1.0]
<b>RESPIRATORY SYSTEM</b>					
Lung	(48)	(48)	(48)	(48)	(48)
Granuloma		1 [2.0]	1 [1.0]		2 [2.0]
Hemorrhage	1 [2.0]				
Inflammation	5 [2.6]	1 [2.0]	2 [2.0]	2 [2.0]	
Alveolar Epithelium, Hyperplasia	4 [2.5]		5 [2.6]	2 [1.5]	1 [2.0]
Alveolus, Infiltration Cellular, Histiocyte	4 [2.0]	6 [1.3]	6 [2.0]	4 [1.5]	6 [1.3]
Nose	(48)	(48)	(48)	(48)	(48)
Fungus				1	1
Inflammation	1 [2.0]	6 [2.3]	8 [1.6]	3 [2.0]	2 [2.5]
Keratin Cyst					1
Trachea	(48)	(48)	(48)	(48)	(48)
Inflammation, Chronic				1 [2.0]	
Epithelium, Hyperplasia				1 [2.0]	
<b>SPECIAL SENSES SYSTEM</b>					
Eye	(45)	(46)	(47)	(47)	(44)
Cataract				1	1
Phthisis Bulbi		1			1
Cornea, Inflammation				1 [2.0]	
Retina, Degeneration	10 [2.0]	2 [3.5]	3 [2.0]	2 [3.0]	2 [2.5]
Sclera, Metaplasia, Osseous	4 [2.0]	1 [2.0]	1 [3.0]	3 [1.7]	8 [2.1]
Harderian Gland	(48)	(48)	(48)	(48)	(48)
Infiltration Cellular, Lymphocyte	9 [1.1]	2 [1.0]	7 [1.0]	8 [1.1]	7 [1.4]
Zymbal's Gland	(1)	(1)	(0)	(2)	(1)

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Test Type: CHRONIC

Acrylamide

Time Report Requested: 14:38:46

Route: DOSED WATER

CAS Number: 79-06-1

First Dose M/F: 05/23/05 / 05/23/05

Species/Strain: RATS/F 344/NCTR

Lab: NCTR

FISCHER 344 RATS-NCTR RATS MALE	0.70 ACRYL	0.35 ACRYL	0.175 ACRYL	0.0875 ACRYL	CONTROL WATER
URINARY SYSTEM					
Kidney	(48)	(48)	(48)	(48)	(47)
Accumulation, Hyaline Droplet		1 [4.0]			
Cyst			1	1	1
Hydronephrosis		2 [2.0]		2 [2.0]	1 [2.0]
Infarct				1 [3.0]	
Nephropathy	46 [2.5]	48 [2.6]	47 [2.7]	45 [2.6]	46 [2.7]
Pigmentation		1 [3.0]			
Cortex, Inflammation, Chronic		1 [2.0]		1 [2.0]	
Urethra	(1)	(0)	(1)	(0)	(0)
Bulbourethral Gland, Dilatation			1 [2.0]		
Bulbourethral Gland, Inflammation	1 [4.0]				
Urinary Bladder	(48)	(48)	(48)	(48)	(46)
Calculus Gross Observation				1	
Dilatation	1 [4.0]		2 [2.5]	3 [3.3]	3 [3.3]
Hemorrhage	1 [2.0]				

\*\*\* END OF MALE \*\*\*

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## Disposition Summary

Animals Initially In Study	48	48	48	48	48
Early Deaths					
Moribund Sacrifice	23	14	17	13	8
Natural Death	2	5	2	2	3
Survivors					
Moribund Sacrifice	10	6	7	5	2
Natural Death			1		1
Terminal Sacrifice	13	23	21	28	34
Animals Examined Microscopically	48	48	48	48	48

## ALIMENTARY SYSTEM

Esophagus	(48)	(48)	(48)	(48)	(48)
Inflammation	1 [4.0]				
Intestine Large, Cecum	(47)	(46)	(48)	(48)	(47)
Lymphoid Tissue, Hyperplasia				1 [2.0]	1 [3.0]
Mucosa, Hyperplasia					1 [2.0]
Intestine Large, Colon	(47)	(47)	(48)	(48)	(46)
Diverticulum				1	
Intestine Small, Duodenum	(47)	(46)	(48)	(48)	(48)
Intestine Small, Ileum	(46)	(46)	(48)	(48)	(47)
Lymphoid Tissue, Hyperplasia	1 [4.0]	1 [3.0]	1 [3.0]	2 [2.5]	2 [3.0]
Intestine Small, Jejunum	(46)	(45)	(48)	(48)	(46)
Keratin Cyst	1				
Liver	(48)	(48)	(48)	(48)	(48)
Angiectasis		1 [2.0]	3 [2.0]	2 [2.0]	1 [1.0]
Apoptosis	1				
Basophilic Focus		2	1		1
Basophilic Focus, Multiple	19	23	25	25	29
Degeneration, Cystic	2 [3.5]	2 [2.5]	1 [2.0]		
Eosinophilic Focus	1	7	8	3	7
Eosinophilic Focus, Multiple	3	4	1	2	1
Granuloma	11 [1.7]	18 [1.8]	15 [1.9]	15 [1.9]	18 [1.7]
Hematopoietic Cell Proliferation	5 [2.0]	2 [2.5]	4 [1.0]		1 [3.0]

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Hepatodiaphragmatic Nodule	3	1	2	4	3
Infiltration Cellular, Lymphocyte	3 [1.0]			1 [2.0]	1 [1.0]
Inflammation	1 [2.0]			1 [2.0]	
Necrosis, Coagulative			2 [2.0]		
Regeneration	2 [3.5]			2 [4.0]	1 [4.0]
Tension Lipidosis	1				
Thrombosis			1 [3.0]		
Vacuolization Cytoplasmic	4 [2.5]	3 [3.7]	7 [2.7]	6 [2.0]	7 [1.7]
Bile Duct, Hyperplasia	5 [1.6]	4 [2.0]	4 [1.5]	8 [1.8]	7 [1.1]
Biliary Tract, Cyst					1
Capsule, Fibrosis			1 [1.0]	1 [2.0]	
Centrilobular, Cytoplasmic Alteration	1 [3.0]	1 [3.0]			
Centrilobular, Necrosis	3 [2.0]	1 [2.0]	1 [4.0]	1 [3.0]	2 [3.0]
Hepatocyte, Hyperplasia	3 [2.7]		1 [3.0]		
Left Lateral Lobe, Developmental Malformation	2	6	4	10	9
Median Lobe, Developmental Malformation		1		1	1
Oval Cell, Hyperplasia	1 [3.0]				
Right Lateral Lobe, Developmental Malformation	1			1	1
Mesentery	(5)	(4)	(10)	(9)	(7)
Accessory Spleen			1		
Fat, Necrosis	4 [3.3]	4 [3.3]	6 [3.0]	9 [2.7]	5 [2.6]
Oral Mucosa	(7)	(3)	(2)	(2)	(0)
Hyperplasia	2 [2.5]	1 [2.0]			
Pancreas	(48)	(47)	(48)	(48)	(48)
Accessory Spleen		1			1
Infiltration Cellular, Lymphocyte					1 [3.0]
Inflammation	2 [2.0]				
Polyarteritis				1 [4.0]	
Acinar Cell, Atrophy	8 [1.6]	6 [1.7]	10 [1.5]	16 [1.7]	20 [1.7]
Salivary Glands	(48)	(48)	(48)	(48)	(48)
Stomach, Forestomach	(48)	(48)	(48)	(48)	(48)
Edema	1 [3.0]	1 [3.0]		2 [3.0]	1 [3.0]
Hyperplasia	2 [2.5]	3 [2.3]	1 [3.0]	3 [2.0]	1 [2.0]
Inflammation	1 [3.0]		2 [3.0]		1 [2.0]
Ulcer	2 [3.0]	1 [3.0]	1 [3.0]	1 [2.0]	

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Stomach, Glandular	(48)	(48)	(48)	(48)	(48)
Edema			1 [4.0]		
Hemorrhage	1 [2.0]				
Inflammation	1 [2.0]		1 [2.0]		
Tongue	(3)	(1)	(0)	(0)	(0)
Hyperplasia	1 [2.0]				

## CARDIOVASCULAR SYSTEM

Heart	(48)	(48)	(48)	(48)	(48)
Cardiomyopathy	30 [2.0]	37 [1.7]	26 [1.8]	42 [1.8]	35 [1.9]
Infiltration Cellular, Lymphocyte					1 [1.0]
Inflammation	1 [3.0]				
Mineralization					1 [2.0]
Atrium, Thrombosis	3	1			3
Myocardium, Hyperplasia	1 [4.0]				

## ENDOCRINE SYSTEM

Adrenal Cortex	(48)	(48)	(48)	(48)	(48)
Accessory Adrenal Cortical Nodule	1				1
Angiectasis	20 [2.1]	23 [2.1]	29 [2.2]	26 [2.2]	37 [2.3]
Atrophy				1 [4.0]	1 [3.0]
Hematopoietic Cell Proliferation					1 [3.0]
Hyperplasia, Focal	2 [2.0]	1 [2.0]	2 [1.5]	1 [2.0]	
Hypertrophy, Focal	10 [2.5]	4 [2.3]	5 [2.6]	5 [2.4]	4 [2.0]
Infarct				1 [2.0]	
Thrombosis	1 [3.0]				
Vacuolization Cytoplasmic	9 [2.6]	5 [2.6]	5 [3.2]	5 [2.6]	2 [3.5]
Adrenal Medulla	(48)	(47)	(48)	(48)	(48)
Angiectasis		1 [2.0]	1 [1.0]		1 [2.0]
Hyperplasia, Focal	1 [2.0]	1 [2.0]	1 [3.0]		3 [1.7]
Hypertrophy, Focal				1 [2.0]	
Islets, Pancreatic	(48)	(47)	(48)	(48)	(48)
Parathyroid Gland	(46)	(46)	(45)	(47)	(47)

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Pituitary Gland	(48)	(48)	(47)	(48)	(48)
Angiectasis		2 [2.5]	2 [2.0]		1 [3.0]
Pars Distalis, Cyst	4	1	2	2	2
Pars Distalis, Hyperplasia	4 [2.3]	4 [3.3]	1 [4.0]	8 [2.8]	4 [3.5]
Pars Intermedia, Cyst			1	1	
Pars Nervosa, Cyst					1
Thyroid Gland	(47)	(48)	(48)	(48)	(48)
C-cell, Hyperplasia	6 [2.3]	6 [1.5]	5 [1.8]	4 [1.5]	15 [1.6]
Follicle, Cyst	1	1		1	
Follicular Cell, Hyperplasia	2 [2.5]	1 [3.0]			

## GENERAL BODY SYSTEM

Tissue NOS	(1)	(0)	(1)	(0)	(0)
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## GENITAL SYSTEM

Clitoral Gland	(47)	(48)	(47)	(48)	(48)
Hyperplasia	1 [2.0]	1 [3.0]			
Inflammation	22 [2.3]	28 [2.3]	22 [2.4]	24 [2.2]	29 [2.4]
Duct, Ectasia	16 [2.9]	10 [2.9]	9 [2.4]	10 [2.5]	12 [2.6]
Ovary	(48)	(48)	(48)	(48)	(48)
Atrophy	43 [2.6]	44 [2.8]	43 [2.5]	41 [2.3]	38 [2.4]
Cyst	5	3	3	5	4
Infiltration Cellular, Histiocyte					1 [3.0]
Infiltration Cellular, Lymphocyte					1 [3.0]
Uterus	(48)	(48)	(48)	(48)	(48)
Angiectasis			1 [3.0]		
Inflammation		2 [1.5]		1 [2.0]	1 [2.0]
Prolapse		1			
Thrombosis					1
Bilateral, Horn, Dilatation				1 [4.0]	
Cervix, Mucocyte, Metaplasia	1 [3.0]		1 [4.0]		
Cervix, Muscularis, Hypertrophy				1 [3.0]	
Endometrial Glands, Hyperplasia			1 [2.0]	2 [2.5]	

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Endometrium, Hyperplasia, Cystic Horn, Dilatation	12 [1.8]	15 [1.9]	8 [2.1]	10 [1.8]	8 [2.3]
Vagina Dilatation	1 [3.0]		1 [2.0]	1 [2.0]	2 [2.5]
Inflammation	(5)	(4)	(1)	(4)	(1)
Mucocyte, Metaplasia	1				
		2 [2.0]		1 [2.0]	
	3 [3.0]	2 [3.5]	1 [3.0]	4 [3.3]	1 [3.0]
<b>HEMATOPOIETIC SYSTEM</b>					
Bone Marrow	(48)	(47)	(48)	(48)	(48)
Atrophy	3 [2.3]	1 [4.0]	3 [1.7]	4 [2.8]	3 [2.7]
Hyperplasia	3 [2.3]	2 [2.5]	1 [3.0]	1 [2.0]	
Thrombosis			1		
Myeloid Cell, Hyperplasia	1 [2.0]	1 [2.0]			
Lymph Node	(9)	(6)	(10)	(9)	(7)
Degeneration, Cystic		1 [2.0]			
Axillary, Infiltration Cellular, Plasma Cell	1 [3.0]				
Iliac, Degeneration, Cystic	1 [4.0]				
Lumbar, Degeneration, Cystic	1 [4.0]			2 [2.5]	
Lumbar, Medulla, Sinus, Dilatation	1 [3.0]				
Mediastinal, Hemorrhage	1 [3.0]				
Mediastinal, Hyperplasia, Lymphoid	1 [3.0]		1 [2.0]		
Mediastinal, Inflammation		1 [3.0]			
Mediastinal, Pigmentation	1 [3.0]				1 [3.0]
Mediastinal, Medulla, Sinus, Dilatation	1 [3.0]			1 [3.0]	
Medulla, Pancreatic, Sinus, Dilatation					1 [3.0]
Pancreatic, Necrosis	1 [3.0]				
Renal, Degeneration, Cystic	1 [2.0]				
Renal, Hemorrhage			1 [2.0]	1 [2.0]	1 [2.0]
Renal, Hyperplasia, Lymphoid	1 [3.0]			1 [2.0]	1 [3.0]
Lymph Node, Mandibular	(48)	(48)	(48)	(48)	(48)
Atrophy, Lymphocyte					1 [3.0]
Degeneration, Cystic	4 [1.8]	2 [2.0]	5 [1.8]	6 [1.8]	7 [1.9]
Hyperplasia, Lymphoid	1 [2.0]		2 [2.0]		1 [2.0]
Infiltration Cellular, Plasma Cell	8 [2.3]	6 [2.7]	2 [2.0]	7 [2.4]	4 [3.0]

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Medulla, Sinus, Dilatation	1 [2.0]				1 [2.0]
Lymph Node, Mesenteric	(48)	(47)	(48)	(47)	(48)
Degeneration, Cystic	1 [4.0]	3 [3.3]	1 [1.0]		
Hemorrhage	1 [2.0]		1 [2.0]	1 [3.0]	1 [2.0]
Hyperplasia, Lymphoid		1 [2.0]	1 [2.0]	1 [2.0]	2 [2.0]
Infiltration Cellular, Histiocyte				1 [3.0]	
Infiltration Cellular, Mast Cell				1 [2.0]	
Lymphocyte, Atrophy	1 [3.0]			2 [3.5]	1 [4.0]
Medulla, Sinus, Dilatation			1 [3.0]		
Spleen	(48)	(48)	(48)	(48)	(48)
Accessory Spleen			1		
Hematopoietic Cell Proliferation	15 [3.0]	7 [3.0]	7 [2.7]	10 [2.4]	8 [2.9]
Hyperplasia, Lymphoid					1 [3.0]
Infarct	3				
Pigmentation	5 [2.4]	6 [2.2]	4 [2.3]	6 [2.2]	3 [2.3]
Capsule, Proliferation Connective Tissue		1 [3.0]			
Red Pulp, Atrophy	1 [3.0]	2 [2.0]	1 [2.0]	1 [2.0]	1 [3.0]
Red Pulp, Hyperplasia		2 [2.5]			
Thymus	(46)	(45)	(45)	(47)	(47)
Atrophy	40 [2.2]	39 [2.2]	40 [2.2]	44 [2.2]	44 [2.2]
Cyst	1	1	3	1	4
Hemorrhage					1 [2.0]
Infiltration Cellular, Polymorphonuclear				1 [4.0]	

## INTEGUMENTARY SYSTEM

Mammary Gland	(48)	(47)	(46)	(48)	(48)
Galactocele	6	2	5	9	6
Inflammation	1 [3.0]		1 [3.0]		
Lactation	23 [2.0]	22 [2.0]	27 [2.3]	30 [2.3]	23 [1.9]
Alveolus, Hyperplasia	26 [2.5]	29 [2.4]	33 [2.4]	37 [2.2]	37 [2.2]
Skin	(48)	(48)	(48)	(48)	(48)
Fibrosis			1 [3.0]		
Inflammation		1 [4.0]	3 [2.3]	2 [2.5]	1 [3.0]
Ulcer		1 [4.0]	1 [2.0]		2 [2.5]

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Epidermis, Hyperplasia		1 [2.0]			1 [2.0]
Epidermis, Necrosis				2 [2.0]	
Tail, Hyperkeratosis					1 [4.0]

## MUSCULOSKELETAL SYSTEM

Bone	(1)	(0)	(0)	(0)	(0)
Bone, Femur	(48)	(48)	(48)	(48)	(48)
Fibrous Osteodystrophy					1 [2.0]
Osteopetrosis	3 [3.0]	6 [3.0]	2 [3.0]	2 [3.5]	5 [3.0]
Skeletal Muscle	(48)	(48)	(48)	(48)	(48)

## NERVOUS SYSTEM

Brain, Brain Stem	(48)	(48)	(48)	(48)	(48)
Gliosis, Focal					1 [1.0]
Hemorrhage			1 [3.0]		
Infiltration Cellular, Mononuclear Cell		1 [1.0]			
Hypothalamus, Compression	8 [2.4]	8 [2.1]	10 [2.1]	13 [2.5]	10 [2.2]
Brain, Cerebellum	(48)	(48)	(48)	(48)	(48)
Brain, Cerebrum	(48)	(48)	(48)	(48)	(48)
Compression	1 [2.0]				
Gliosis, Focal	1 [2.0]			1 [2.0]	
Ventricle, Dilatation	2 [2.0]	1 [2.0]		2 [2.0]	1 [2.0]
Peripheral Nerve, Sciatic	(48)	(48)	(48)	(48)	(48)
Axon, Degeneration	19 [1.0]	4 [1.0]	1 [1.0]	3 [1.0]	4 [1.0]
Spinal Cord	(0)	(1)	(0)	(0)	(0)
Keratin Cyst		1			
Spinal Cord, Cervical	(48)	(48)	(48)	(48)	(48)
Cyst	1				
Gliosis, Focal	1 [2.0]				
Hemorrhage		2 [2.0]			
Axon, Degeneration	10 [1.0]	16 [1.0]	15 [1.0]	18 [1.0]	22 [1.0]
Nerve, Degeneration		1 [1.0]			2 [1.0]
Spinal Cord, Lumbar	(48)	(48)	(48)	(48)	(48)

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**FISCHER 344 RATS-NCTR RATS FEMALE                      0.70 ACRYL                      0.35 ACRYL                      0.175 ACRYL                      0.0875 ACRYL                      CONTROL WATER**

Gliosis, Focal	2 [2.0]		1 [1.0]		
Axon, Degeneration	2 [1.0]	1 [1.0]	4 [1.0]	2 [1.0]	1 [1.0]
Nerve, Degeneration	15 [1.0]	16 [1.0]	17 [1.1]	21 [1.1]	16 [1.1]
Spinal Cord, Thoracic	(48)	(48)	(48)	(48)	(48)
Gliosis, Focal	1 [1.0]				
Axon, Degeneration	16 [1.0]	15 [1.0]	20 [1.0]	22 [1.0]	18 [1.0]
Nerve, Degeneration	1 [1.0]			1 [1.0]	1 [1.0]

**RESPIRATORY SYSTEM**

Lung	(48)	(48)	(48)	(48)	(48)
Foreign Body		1			
Granuloma	4 [2.0]	4 [2.0]	9 [1.8]	5 [1.8]	6 [1.3]
Inflammation	4 [1.8]	3 [2.0]	4 [2.0]	1 [2.0]	1 [2.0]
Alveolar Epithelium, Hyperplasia	2 [3.0]	1 [4.0]			1 [2.0]
Alveolus, Infiltration Cellular, Histiocyte	8 [1.6]	10 [1.6]	10 [1.5]	7 [1.7]	13 [1.8]
Nose	(48)	(48)	(48)	(48)	(47)
Foreign Body		2 [2.5]			
Fungus	1				
Inflammation	8 [1.9]	8 [2.5]	7 [1.6]	6 [1.8]	5 [2.2]
Osteopetrosis	2 [3.0]	4 [2.3]	1 [3.0]	2 [3.0]	3 [2.3]

**SPECIAL SENSES SYSTEM**

Eye	(46)	(45)	(47)	(48)	(45)
Cataract	1	1	3	2	
Phthisis Bulbi		1	1		
Retina, Degeneration	23 [2.1]	21 [1.8]	16 [2.2]	16 [1.7]	14 [1.6]
Sclera, Metaplasia, Osseous	1 [2.0]		1 [2.0]		2 [2.0]
Harderian Gland	(48)	(48)	(48)	(48)	(48)
Atrophy				1 [2.0]	1 [3.0]
Infiltration Cellular, Lymphocyte	17 [1.4]	17 [1.5]	17 [1.4]	17 [1.2]	14 [1.0]
Inflammation	1 [2.0]	1 [2.0]		1 [2.0]	1 [1.0]
Lacrimal Gland	(1)	(0)	(1)	(1)	(0)
Metaplasia			1 [2.0]	1 [2.0]	

a - Number of animals examined microscopically at site and number of animals with lesion

b-Average severity grade(1-minimal;2-mild;3-moderate;4-marked)

Test Type: CHRONIC

Acrylamide

Time Report Requested: 14:38:46

Route: DOSED WATER

CAS Number: 79-06-1

First Dose M/F: 05/23/05 / 05/23/05

Species/Strain: RATS/F 344/NCTR

Lab: NCTR

FISCHER 344 RATS-NCTR RATS FEMALE	0.70 ACRYL	0.35 ACRYL	0.175 ACRYL	0.0875 ACRYL	CONTROL WATER
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Zymbal's Gland Hyperplasia	(3) 1 [3.0]	(0)	(0)	(1)	(0)
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## URINARY SYSTEM

Kidney	(48)	(48)	(48)	(48)	(48)
Accumulation, Hyaline Droplet		1 [3.0]			
Cyst	2				
Hydronephrosis	1 [2.0]			1 [2.0]	
Infarct				1 [2.0]	
Infiltration Cellular, Lymphocyte				1 [2.0]	
Mineralization	24 [1.5]	24 [1.8]	22 [1.7]	21 [1.8]	21 [1.8]
Nephropathy	26 [1.7]	33 [1.7]	32 [1.8]	34 [2.1]	44 [1.8]
Pigmentation		2 [3.0]			
Cortex, Inflammation, Chronic		1 [2.0]			
Renal Tubule, Necrosis			1 [3.0]		
Urinary Bladder	(47)	(48)	(48)	(48)	(48)
Dilatation	1 [4.0]	3 [3.0]		1 [4.0]	1 [3.0]
Infiltration Cellular, Lymphocyte	1 [1.0]		1 [1.0]		2 [1.0]

\*\*\* END OF REPORT \*\*\*

a - Number of animals examined microscopically at site and number of animals with lesion

b-Average severity grade(1-minimal;2-mild;3-moderate;4-marked)