

Oregon State University Veterinary Diagnostic Laboratory
Annual Report

Fiscal Year July 1, 2009 to June 30, 2010

College of Veterinary Medicine
Oregon State University
Corvallis, Oregon

Demographics, 2009-2010

Total accessions: 13,768

Total accessions from Oregon: 12,713

Oregon accessions by county:

Baker	81	Lake	77
Benton	2,545	Lane	1,367
Clackamas	360	Lincoln	589
Clatsop	193	Linn	1,076
Columbia	80	Malheur	18
Coos	537	Marion	786
Crook	54	Morrow	561
Curry	90	Multnomah	397
Deschutes	369	Polk	331
Douglas	642	Sherman	0
Gilliam	4	Tillamook	155
Grant	19	Umatilla	235
Harney	28	Union	66
Hood River	355	Wallowa	18
Jackson	497	Wasco	23
Jefferson	36	Washington	345
Josephine	296	Wheeler	69
Klamath	129	Yamhill	285

Total accessions from outside Oregon: 1,055

Accessions by species:

Amphibians	6	Fish	64
Avian	424	Invertebrates	135
Bovine/beef	327	Mammal/other	621
Bovine/dairy	446	Misc/Research	38
Bovine/other	39	Non-animal	105
Camelid	1,517	Other	0
Canine	6,054	Ovine	205
Caprine	302	Porcine	47
Equine	1,965	Reptile	18
Feline	1,455		

Bacteriology/Parasitology Section, 2009-2010

Cultures

Bacterial (aerobic, anaerobic, Campylobacter)	7,028
Bulk tank milk	57
Fungal	217
Mycoplasma	668
Antibiotic sensitivity (Kirby-Bauer)	<u>1,193</u>
Total cultures	9,163

Parasitology

Trichomonas culture	192
Baermann	33
Routine float	502
Sedimentation	66
Sugar centrifugation	1,363
Haemonchus ID	59
Cryptosporidium exam (stain)	129
Fecal wet mount	72
Giardia exam (wet mount and FA)	60
Other	<u>14</u>
Total parasitology tests	2,490

Serology

Leptospira serotyping	2,355
Other serotyping	29
Brucella ovis	227
Neospora	135
Toxoplasma	122
Immunoglobulin concentrations	135
Heartworm	17
Brucella canis	<u>41</u>
Total serology tests	3,061

Other tests

Leptospira FA	9
Clostridia FA	12
Clostridium toxin	14
Chlamydia (Gimenez and ELISA)	17
Gram and other stains	<u>39</u>
Total other tests	91

Total Bacteriology Section Tests

14,805

Clinical Pathology Section, 2009-2010

Hematology	2,647
Chemistry Panels	2,513
Cytology	1,533
Endocrinology	513
Urinalysis	846
Hemostasis	171
Other*	<u>439</u>

Total Clinical Pathology Section Tests **8,662**

*Bile acids, amylase, lipase, discrete analytes and electrolytes, IgG, occult blood, sperm count, non-esterified fatty acids, β -hydroxybutyrate, cross match

Histopathology Section, 2009-2010

Total histologic slides prepared for each category

H&E

Biopsy	6,334
Necropsy	4,729
Muscle biopsies*	48
Research	<u>1,549</u>
Total	12,660

Special stains

Diagnostic	2,227
Research	<u>151</u>
Total	2,378

Unstained slides

Billed	369
Internal controls	<u>1,801</u>
Total	2,170

Frozen sections

Diagnostic	1
Research	<u>315</u>
Total	316

Immunohistochemistry

Diagnostic	151
Other/Research	<u>514</u>
Total	665

Other**

445

Total Histology Slides

18,634

*Equine muscle biopsy service

**Teaching, conferences, collections, consultations

Molecular Diagnostics Section, 2009-2010

PCR

Avian influenza virus	3,257
Bovine viral diarrhea virus	705
Mycoplasma haemolama	670
St. Louis encephalitis virus	4,180
West Nile virus	4,274
Infectious bovine rhinotracheitis virus	122
Leptospira	220
Other	<u>345</u>
Total PCR tests	13,773

Pathology Section, 2009-2010

Necropsy examinations by species

Avian	100
Bovine/beef	75
Bovine/dairy	38
Bovine/other	7
Camelid	52
Canine	128
Caprine	48
Equine	77
Feline	55
Fish	10
Mammal/Other*	61
Ovine	37
Porcine	7
Reptile and amphibian	<u>3</u>
Total necropsies	698

*Free-roaming and captive herbivorous, omnivorous, and carnivorous mammals

Total abortion screens: 94

Carcass disposals: 138

Virology Section, 2009-2010

ELISA Antigen Detection	2,218
Serology	3,245
Virus Isolations	130
Viral Immunohistochemistry	78
EM Examinations	156
Fluorescent Antibody Tests	<u>307</u>
Total Virology Section Tests	6,134