Small Business Regulatory Review Board Meeting Wednesday, August 15, 2018 10:00 a.m. No. 1 Capitol District Building 250 South Hotel Street, Honolulu, HI Conference Room 436



SMALL BUSINESS REGULATORY REVIEW BOARD

Department of Business, Economic Development & Tourism (DBEDT) No. 1 Capitol District Bldg., 250 South Hotel St. 5th Fl., Honolulu, Hawaii 96813 Mailing Address: P.O. Box 2359, Honolulu, Hawaii 96804 Email: <u>dbedt.sbrrb.info@hawaii.gov</u> Website: dbedt.hawaii.gov/sbrrb Tel 808 586-2594

AGENDA

Wednesday, August 15, 2018 ★ 10:00 a.m. No. 1 Capitol District Building 250 South Hotel Street - Conference Room 436

Call to Order

I.

II. Approval of July 18, 2018 Meeting Minutes

III. New Business

A. Discussion and Action on Proposed New Rules and Regulations for Kauai County Code Section 18-5.3, **Revocable Permits to Vend within County Right-of-Ways**, promulgated by Department of Parks and Recreation / County of Kauai – Discussion Leader – Will Lydgate

IV. Old Business

- A. Discussion and Action on the Small Business Statement After Public Hearing and Proposed Amendments to Hawaii Administrative Rules (HAR) of Chapter 162, Food Safety Certification Costs Grant Program, promulgated by Department of Agriculture (DOA) – Discussion Leader – Robert Cundiff / Will Lydgate
- B. Discussion and Action on the Small Business Statement After Public Hearing and Proposed Amendments of HAR Title 4 Chapter 71, Plant and Non-Domestic Animal Quarantine, Non-Domestic Animal Import Rules, promulgated by DOA – Discussion Leader – Robert Cundiff / Will Lydgate

V. Administrative Matters

- A. Update on the Board's Upcoming Advocacy Activities and Programs in accordance with the Board's Powers under Section 201M-5, Hawaii Revised Statutes
- VI. Next Meeting: Scheduled for Wednesday, September 19, 2018, at 10:00 a.m., Capitol District Building, Conference Room 436, Honolulu, Hawaii

VII. Adjournment

If you require special assistance or auxiliary aid and/or services to participate in the public hearing process (i.e., sign language, interpreter, wheelchair accessibility, or parking designated for the disabled), please call (808) 586-2399 at least three (3) business days prior to the meeting so arrangements can be made.

David Y. Ige Governor

Luis P. Salaveria DBEDT Director

Members

Anthony Borge Chairperson Oahu

Robert Cundiff Vice Chairperson Oahu

Garth Yamanaka 2nd Vice Chairperson Hawaii

Harris Nakamoto Oahu

Nancy Atmospera-Walch Oahu

Reg Baker Oahu

Mary Albitz Maui

William Lydgate *Kauai*

Director, DBEDT Voting Ex Officio

II. Approval of July 18, 2018 Meeting Minutes

ABSENT MEMBERS:

Reg Baker

Nancy Atmospera-Walch

Small Business Regulatory Review Board

MINUTES OF REGULAR MEETING - Draft July 18, 2018 Conference Room 436 - No. 1 Capitol District Building, Honolulu, Hawaii

I. CALL TO ORDER: Chair Borge called the meeting to order at 10:01 a.m., with a quorum present.

MEMBERS PRESENT:

- Anthony Borge, Chair
- Robert Cundiff, Vice Chair
- Garth Yamanaka, Second Vice Chair
- Harris Nakamoto
- Mary Albitz
- William Lydgate
- Mark Ritchie

STAFF: <u>DBEDT</u> Dori Palcovich Ashleigh Garcia Office of the Attorney General Jennifer Waihee-Polk

II. APPROVAL OF JUNE 20, 2018 MINUTES

Vice Chair Cundiff made a motion to accept the June 20, 2018 minutes, as presented. Ms. Albitz seconded the motion, and the Board members unanimously agreed.

III. NEW BUSINESS

A. <u>Discussion and Action on Proposed Amendments to HAR Title 4 Chapter 86, Petroleum</u> <u>Products Accounting and Inspection, promulgated by Department of Agriculture (DoAg)</u>

Ms. Jeri Kahana, Administrator at DoAg's Quality Assurance Division, explained these rules represent a repeal of the prior HARs and adoption of a new chapter. With the merging of DoAg's Measurements Standard Division, the repeal of the chapter allows for updates. The new chapter consists of mostly housekeeping updates; it does not affect small businesses aside from some of the definition changes.

Chapter 86 was originally adopted to include the sale of gasohol, a gasoline blend containing 10 percent alcohol. In 2015, however, the requirement for the blending of ethanol was repealed by the legislature; thus, the clarification in the rules was requested by Hawaiian Energy Services LLC for the flexibility to blend motor fuels between 0 and 10 percent.

Vice Chair Cundiff made a motion to move the proposed rules to public hearing. Mr. Nakamoto seconded the motion, and the Board members unanimously agreed.

IV. OLD BUSINESS

A. <u>Discussion and Action on the Small Business Statement After Public Hearing of the</u> <u>Proposed Repeal of Hawaii Administrative Rule (HAR) Title 11 Chapter 281, and</u> <u>Adoption of Chapter 280.1 Underground Storage Tanks, promulgated by Department of</u> <u>Health (DOH)</u>

Ms. Noa Klein, Hazardous Waste Program Manager from DOH's Solid & Hazardous Waste Branch, stated the rules had already been signed by the Governor and became effective on July 15. DOH received many comments on the proposed rules, however, none of the comments involved small businesses impact. Small business owners did approach DOH during "informal" public meetings for clarifications, information, and questions.

The portion of the rules that affect small businesses pertains to the requirement that all regular gas station tanks must have second containment within ten years of the effective date of the rules.

Mr. Nakamoto made a motion to support the adoption of the rules. Mr. Ritchie seconded the motion, and the Board members unanimously agreed.

B. <u>Discussion and Action on the Small Business Statement After Public Hearing and the</u> <u>Proposed Amendments to HAR Title 19 Chapter 20.1, Commercial Services at Public</u> <u>Airports, promulgated by Department of Transportation (DOT)</u>

Ms. DreanaLee Kalihi, Revenue Enhancement Manager at DOT's Harbor Division, stated that there has been a series of four public hearings. Minor changes were made to the originally proposed language for clarification purposes; i.e., responsibilities of the permittees (Uber, Lyft, or other TNCs) and the provider of services (drivers). In total, 181 testimonies, both oral and written, were received with 99.9 percent in support of the rules; most of the positive testimonies came from Uber and Lyft drivers.

The rules specify the two options of vehicle identification to serve as counting functions. The insurance requirements only apply on airport grounds and to Honolulu county. It was noted that there is a major concern of airport TNC businesses throughout other counties to address permit licensing, with safety as a main priority. The rules assist in accounting purposes, for the consistency and accuracy in the revenue made at the airport and number of rides, and the amount paid to the airport for business and permits.

As the current pilot program will run until August 31st, DOT will assess whether to continue with the program upon the adoption of the rules; however, the intent is to let the pilot program run and have some time for Uber and Lyft to prepare and adjust to the new rules.

Chair Borge applauded DOT for staying on track to address and remedy questions while engaging stakeholders during the process. Mr. Ritchie also commended DOT for sticking with the process and answering concerns.

Vice Chair Cundiff made a motion to move the rules onto the Governor for adoption. Mr. Ritchie seconded the motion, and the Board members unanimously agreed.

V. ADMINISTRATIVE MATTERS

A. <u>Assignment of Board Members' "Discussion Leader Assignments" for State Agencies'</u> <u>Administrative Rule Review</u>

Discussion leader assignments were reviewed and adjusted in accordance to the recent changes in board members and preferences.

B. <u>Update on the Board's Upcoming Advocacy Activities and Programs in accordance with</u> <u>the Board's Powers under Section 201M-5, HRS</u>

Mr. Ritchie stated that the annual Small Business Fair, to be held Saturday, August 4th at Honolulu Community College, will begin at 7:30 a.m. Offered classes, totaling 25, start at 8:15 a.m., until 1:00 p.m. There will be about 35 exhibitors, of which DBEDT is one; this Board's brochures will be available for distribution.

- VI. NEXT MEETING The next meeting is scheduled for Wednesday, August 15, 2018, in Conference Room 436, 250 South Hotel Street, Honolulu, Hawaii at 10:00 a.m.
- VII. ADJOURNMENT Mr. Nakamoto made a motion to adjourn the meeting and Ms. Albitz seconded the motion; the meeting adjourned at 11:05 a.m.

III. New Business

A.Discussion and Action on Proposed New Rules and Regulations for Kauai County Code Section 18-5.3, Revocable Permits to Vend within County Right-of-Ways, promulgated by Department of Parks and Recreation / County of Kauai

PRE-PUBLIC HEARING SMALL BUSINESS IMPACT STATEMENT TO THE SMALL BUSINESS REGULATORY REVIEW BOARD

(Hawaii Revised Statutes §201M-2)

Department or Agency:	
Administrative Rule Title and C	hapter:
Chapter Name:	
Contact Person/Title:	
Phone Number:	
E-mail Address:	Date:
	nplying with the meeting notice requirement in HRS §92- t of the topic of the proposed rules or a general hypolyed.

B. Are the draft rules available for viewing in person and on the Lieutenant Governor's Website pursuant to HRS §92-7? Yes No (If **Yes**, please provide webpage address and when and where rules may be viewed in person[©]

(Please keep the proposed rules on this webpage until after the SBRRB meeting.)

- I. Rule Description: New Repeal Amendment Compilation
- II. Will the proposed rule(s) affect small business? Yes No (If No, no need to submit this form.)
- * "Affect small business" is defined as "any potential or actual requirement imposed upon a small business . . . that will cause a direct and significant economic burden upon a small business, or is directly related to the formation, operation, or expansion of a small business." HRS §201M-1
- * "Small business" is defined as a "for-profit enterprise consisting of fewer than one hundred full-time or part-time employees." HRS §201M-1
- III. Is the proposed rule being adopted to implement a statute or ordinance that does not require the agency to interpret or describe the requirements of the statute or ordinance? Yes No (If Yes, no need to submit this form.)

(e.g., a federally-mandated regulation that does not afford the agency the discretion to consider less restrictive alternatives.) HRS §201M-2(d)

IV. Is the proposed rule being adopted pursuant to emergency rulemaking? (HRS §201M-2(a)) Yes No (If Yes, no need to submit this form.)

* * *

Pre-Public Hearing Small business Impact Statement Page 2

If the proposed rule affects small business and are not exempt as noted above, please provide a reasonable determination of the following:

- 1. Description of the small businesses that will be required to comply with the proposed rules and how they may be adversely affected.
- 2. In dollar amounts, the increase in the level of direct costs such as fees or fines, and indirect costs such as reporting, recordkeeping, equipment, construction, labor, professional services, revenue loss, or other costs associated with compliance.

If the proposed rule imposes a new or increased fee or fine:

- a. Amount of the current fee or fine and the last time it was increased.
- b. Amount of the proposed fee or fine and the percentage increase.
- c. Reason for the new or increased fee or fine.
- d. Criteria or methodology used to determine the amount of the fee or fine (i.e., Consumer Price Index, Inflation rate, etc.).
- The probable monetary costs and benefits to the agency or other agencies directly affected, including the estimated total amount the agency expects to collect from any additionally imposed fees and the manner in which the moneys will be used.

Pre-Public Hearing Small business Impact Statement Page 3

- 4. The methods the agency considered or used to reduce the impact on small business such as consolidation, simplification, differing compliance or reporting requirements, less stringent deadlines, modification of the fines schedule, performance rather than design standards, exemption, or other mitigating techniques.
- 5. The availability and practicability of less restrictive alternatives that could be implemented in lieu of the proposed rules.
- 6. Consideration of creative, innovative, or flexible methods of compliance for small businesses. The businesses that will be directly affected by, bear the costs of, or directly benefit from the proposed rules.
- 7. How the agency involved small business in the development of the proposed rules.
 - a. If there were any recommendations made by small business, were the recommendations incorporated into the proposed rule? If yes, explain. If no, why not.
- 8. Whether the proposed rules include provisions that are more stringent than those mandated by any comparable or related federal, state, or county standards, with an explanation of the reason for imposing the more stringent standard.

If yes, please provide information comparing the costs and benefits of the proposed rules to the costs and benefits of the comparable federal, state, or county law, including the following:

Pre-Public Hearing Small business Impact Statement

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- a. Description of the public purposes to be served by the proposed rule.
- b. The text of the related federal, state, or county law, including information about the purposes and applicability of the law.
- c. A comparison between the proposed rule and the related federal, state, or county law, including a comparison of their purposes, application, and administration.
- d. A comparison of the monetary costs and benefits of the proposed rule with the costs and benefits of imposing or deferring to the related federal, state, or county law, as well as a description of the manner in which any additional fees from the proposed rule will be used.
- e. A comparison of the adverse effects on small business imposed by the proposed rule with the adverse effects of the related federal, state, or county law.

* * *

Small Business Regulatory Review Board / DBEDT Phone: (808) 586-2594 Email: <u>dbedt.sbrrb@hawaii.gov</u>

This Statement may be found on the SBRRB Website at: http://dbedt.hawaii.gov/sbrrb/small-business-impact-statements-pre-and-post-pubic-hearing A. To assist the SBRRB in complying with the meeting notice requirement in HRS §92-7, please attach a statement of the topic of the proposed rules or a general description of the subjects involved.

Revocable Permit for Vending Within County Right-of-Ways, Rules and Regulations that will apply to all applications and permits to vend or engage in any commercial activities within the rights of way under the jurisdiction of the County of Kaua'i under Kaua'i County Code §18-5.3, which includes "the entire width from property line to property line, including the berm, swale, or shoulder of a roadway owned and/or under the jurisdiction of the County of Kaua'i except those roadway areas under the jurisdiction of the Department of Parks and Recreation pursuant to Chapter 23, Article 3, Kaua'i County Code 1987, as amended."

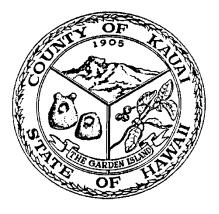
Interpretive Administrative Zoning Rules and Regulations (2014) of the Kaua'i Planning Commission Relating to Chapter 8, 9, and 10 of the Kaua'i County Code (1987)

COUNTY OF KAUA'I

RULES AND REGULATIONS FOR

REVOCABLE PERMITS TO VEND WITHIN

COUNTY RIGHT-OF-WAYS



Adopted _____.

RULES AND REGULATIONS FOR REVOCABLE PERMITS TO <u>VEND WITHIN THE COUNTY RIGHT-OF-WAYS</u>

I. GENERAL PROVISIONS

- A. <u>Purpose</u>. Pursuant to authority conferred by Kaua'i County Code §20-5.7, the purpose of these rules and regulations are to implement the revocable permit process for vending within the County's rights of ways.
- B. <u>Scope</u>. These rules shall apply to all rights of way under the jurisdiction of the County of Kaua'i as specified under Kaua'i County Code § 18-5.3.
- C. <u>Definitions.</u>
 - 1. "Applicant" includes any individual eighteen years of age or older, organization, partnership, firm, association, trust, estate, private corporation, or other legal entity who has made a formal request or application for a permit to engage in commercial activity within County right-of-ways.
 - 2. "Vending" involves the advertising and/or sale of goods, food, beverages, wares, merchandise, or services to the general public.
 - 3. "Right of way" includes the entire width from property line to property line, including the berm, swale or shoulder of a roadway owned and/or under the jurisdiction of the County of Kaua'i except those roadway areas under the jurisdiction of the Department of Parks and Recreation pursuant to Chapter 23, Article 3 of the Kaua'i County Code.

II. APPLICATION FOR PERMIT AND REVIEW PROCESS

A. <u>General Provisions</u>.

- 1. All vending engaged within any County right-of-way must have a revocable permit pursuant to Kaua'i County Code Chapter 20, Article 5, unless the commercial activities are authorized or controlled by concession, contract or are part of a County-sponsored program, other than that described herein, or are exempt under Kaua'i County Code §23-3.4, as amended.
- 2. Permit applications shall be obtained from the Office of Economic Development (OED) at 4444 Rice Street, Suite 200, Līhu'e HI 96766.
- 3. A complete application and all application requirements stated under subsection II.C. of these Rules shall be submitted to OED a minimum of ninety (90) calendar days prior to any proposed event. Applications submitted after the ninety (90) calendar day minimum requirement may not be accepted. Applicants are encouraged to submit permit applications prior to ninety (90) days prior to any proposed event to accommodate agency review, potential bidding procedures, and public outreach.
- 4. The application may be reviewed by the County Engineer and other Departments when applicable to assure the safety of the public.
- 5. The Director of Finance will make every effort to issue a determination on any complete application a minimum of thirty (30) calendar days prior to any proposed event.
- B. <u>Bidding</u>. When bidding is required pursuant to Kaua'i County Code Section 20-5.2, the following shall apply:
 - 1. The bidding shall be subject to procedures specified under HRS Chapter 102.
 - 2. Bid Notice shall include all submittal requirements and evaluation criteria, which may include, but shall not be limited to:
 - i. Experience in managing events of a similar nature
 - ii. Ability to provide required insurance
 - iii. Financial and organizational ability to meet permit conditions
 - iv. Promotion of Kaua'i Made and Kaua'i Grown products
 - v. Site plan and map
 - vi. Number of vendors or stands
 - vii. Evidence that the vendor engaged in Public Outreach when required by the Director of Finance

- C. <u>Application Requirements</u>. The application shall contain or be accompanied by:
 - 1. A non-refundable filing and processing fee in the amount of \$100
 - 2. Any other information required by the Director of Finance or his designee, which may include, but not be limited to:
 - i. Experience in managing events of a similar nature
 - ii. Ability to provide required insurance
 - iii. Financial and organizational ability to meet permit conditions
 - iv. Promotion of Kaua'i Made and Kaua'i Grown products
 - v. Site plan and map
 - vi. Number of vendors or stands
 - vii. Evidence that the vendor engaged in Public Outreach when required by the Director of Finance
 - 3. The Director of Finance may require the applicant to provide public outreach prior to permit approval. If required, the public outreach may include any of the following:
 - i. Noticing of nearby property and business owners
 - ii. Community meeting(s)
 - iii. Surveys or other means to gauge community support
 - 4. When permits are requested in commercial districts, applicants shall notify adjacent businesses of the permit application and the adjacent businesses shall be provided an opportunity to comment on the application.
- D. <u>Criteria for Application Review</u>. The Director of Finance, County Engineer, Fire Department, and/or the Police Department will consider the following criteria:
 - 1. Public outreach to gauge community support
 - 2. Adequate travel ways for cars and pedestrians
 - 3. For road closures, adequate safety measures, which may include but not be limited to barriers, signage, detours
 - 4. Maintenance of ADA clearances
 - 5. Reduction/elimination of safety hazards, such as tripping, sight distance, or other obstructions.
 - 6. Adequacy of facilities, including lighting, wastewater and solid waste
 - 7. Whether the person or organization applying for the application has any outstanding bills related to previous permits issued for vending under Kaua'i County Code Chapter 20, Article 5

III. PERMIT CONDITIONS AND RESTRICTIONS

- A. <u>Permit Conditions</u>. Any revocable permit for commercial activities in the County right-of-ways will be subject to conditions, which may include, but are not limited to the following:
 - 1. Permits are non-transferable
 - 2. Persons or organizations to whom permits are issued are bound by the permit conditions stipulated on or attached to the permit and any applicable Federal, State and County laws, ordinances and rules and regulations.
 - 3. Permit fees that shall reflect the reasonable cost of administration of the activity by the County, or to meet other conditions as the Director of Finance or authorized representative may deem necessary. All costs associated with the conditions shall be borne by the permittee. Any costs incurred by the County resulting from the activity shall be reimbursed to the County. A draft estimate of the anticipated costs shall be provided to the permittee prior to the event.
 - 4. All payments of fees and charges shall be in cash, personal check, cashier's check, certified check, postal money order, or bank money order.
 - 5. The Director of Finance or authorized representative may impose permit conditions as needed to protect the health, safety, and welfare of the public. Such conditions may include, but are not limited to, the following:
 - i. Hiring of security staff
 - ii. County enforcement staff support
 - iii. Provision of portable toilets
 - iv. Provision of portable lighting
 - v. Traffic control, including barricades and/or signage
 - vi. Trash cleanup and pickup

- Deposit. The Director of Finance or authorized representative reserves 6. the right to require a deposit in an amount not to exceed one thousand dollars (\$1,000.00). Upon the failure to pay any reimbursement or charge as specified under the rules, the County will use the deposit to compensate the County for any charges it is due. The County will return any deposit amount that remains after all reimbursement or charges due to it are deducted, if any. Should the amount of reimbursement or charge due to the County exceed the amount of the deposit, the County reserves the right to institute legal action for collection. In the event such legal action for collection is instituted, the County shall be reimbursed for all costs of any collection action including reasonable attorneys' fees. In addition to the above, upon the failure to pay any reimbursement or charge as specified under this Agreement, the Party will be banned from applying for a revocable permit until all reimbursement or charges due to the County are fully paid.
- 7. <u>Indemnification</u>. The permittee will defend, indemnify and hold harmless County from and against any claims and demands for losses or damages (including claims for property damage, personal injury or wrongful death) arising from or growing out of any act, whether willful or negligence, of the permittee or any person claiming by, through or under permittee in connection with the commercial activities, and permittee will reimburse the County for any reasonable damages, losses, costs or expenses, including reasonable attorneys' fees, incurred in connection therewith. The permittee shall be fully responsible to compensate County or County's licensees for any damages.
- 8. Loss or Damage. The Permittee assumes all risks of loss or damage to the County's property from any cause, and agrees to return the premises to the County in the same or similar condition that existed prior to the event. Should loss or damage to the County's property be determined by the County within forty eight (48) hours of the event, the Permittee shall repair, reimburse or replace the equipment to the satisfaction of the County. If reimbursement is required by the County, the Permittee shall make such reimbursement within five (5) calendar days from the County's billing. All determinations made by the County are final.

- 9. <u>Assumption of Risk</u>. The County shall not be liable or responsible to the Permittee for any accidents, injuries, or damages occasioned by any means whatsoever, nor from any damage arising from any acts or neglect of any other party caused by the transportation, set-up, and use of dismantling of the County's property. The Permittee's use of the County's property shall be at the risk of Permittee only, and Permittee shall hold County harmless from any and all claims arising out of loss or damage to the same, including subrogation claims by Permittee's insurance carriers.
- 10. <u>Release</u>. In consideration of accepting and using the County's property for its event, the Permittee, its beneficiaries, heirs, executors, administrators, representatives, successors, and assigns, and any person or entity acting for, under, or through them, hereby releases and forever discharges the County, its officials, employees, representatives and agents, from and on account of any and all claims, actions, causes of action, claims for relief, damages, injuries, losses, punitive or treble damages, liens, debts, costs, interest, attorneys' fees, experts' or consultants' fees, expenses, and other relief, whether in law or in equity, whether known or unknown, suspected or unsuspected, fixed or contingent, past, present, and future, whether sounding in tort, contract, statute or otherwise, resulting from, arising out of, or connected with the Party's transportation, set-up, use of and dismantling of the equipment for its event.
- 11. <u>No Subleasing</u>. A rental fee may not be charged by the permittee for use of public rights-of-way or facilities covered by the permit.
- 12. <u>Kaua'i Products</u>. Vending of Kaua'i Grown and Kaua'i Made products is strongly encouraged.

- B. Denial of Permit. Application for permits may be denied for reasons, which may include, but are not limited to:
 - 1. A state of emergency is declared by the Director of Finance or other proper authorities
 - 2. Natural or civil disturbances, including but not limited to tsunamis, floods, earthquakes, storms, riots, demonstrations, and employee strikes occur or threaten to occur.
 - 3. The County Engineer determines that the proposed permit action is unsafe or causes a nuisance
 - 4. The proposed permit action is opposed by the affected community
 - 5. Permits for the vending of cars or parking of cars for sale or rent in the public right of way shall be denied
 - 6. There is already an existing and active permit that covers any portion of all of the proposed area and/or date and time of the proposed commercial activity event
 - 7. There are any deficiencies in the permit application

IV. REVOCATION, MODIFICATION, OR TERMINATION OF PERMIT

- A. Revocation or Modification.
 - 1. <u>Notice</u>. The Director of Finance shall provide prompt written notice to the permittee of any action to revoke or modify a permit for the following reasons:
 - i. A permittee violates permit conditions or other provisions of these rules
 - ii. The circumstances under which the permit was considered have substantially changed as determined by the Director of Finance or authorized representative
 - 2. <u>Notice Requirements</u>. Written notice of revocation and/or modification, when applicable, shall state the following:
 - i. The date of the Notice of Violation
 - ii. Permit number, event, location of the event, and the name and address of the person noticed
 - iii. The nature of the violation
 - iv. Any terms for the revocation or modification, including a description of the items to be done to correct any violation
 - v. The deadline for compliance with the Notice of Violation
 - vi. The penalties that will be imposed if compliance of the Notice of Violation is not met, which may include permit revocation, fine, and liability for any injuries to person or property and to the County resulting from the owner's failure to clear the hazard
 - vii. The Notice of Violation may be appealed upon notice within thirty (30) days of service to Director of Finance, and if not appealed, the Notice of Violation shall become final thirty (30) days after the date of service
 - 3. <u>Automatic Revocation or Modification</u>. Permits may be revoked or modified at any time without prior notice when any of the following occurs:
 - i. A state of emergency is declared by the Director or other proper authorities
 - ii. Natural or civil disturbances, including but not limited to, tsunamis, floods, earthquakes, storms, riots, demonstrations and employee strikes occur or threaten to occur
 - iii. Fees, as required, are not paid

- B. Permit Termination Due to Non-Use.
 - 1. Failure to use a permit at the designated time and place shall not result in a refund or credit of fees previously paid, unless otherwise determined by the Director of Finance

PUBLIC NOTICE: [date] (Posted with Office of County Clerk); [date] (Publications, Garden Island Newspaper and Star Advertiser) PUBLIC HEARING: [date]

V. APPEALS OF PERMIT DECISIONS

A. General Provisions.

- 1. <u>Appeals</u>. The petition for appeal shall be submitted to the Director of Finance and shall be filed within thirty (30) days of service of the Director's decision to approve, deny, revoke, or modify a permit. The petition shall contain the following:
 - i. The name, address and telephone number of the appellant.
 - ii. The identification of the appellant's proposed event and location.
 - iii. All pertinent facts.
 - iv. The action of the Director of Finance.
 - v. The reasons for the appeal, including a statement as to why the appellant believes that the Director's action was in violation of the applicable law, or is clearly erroneous in view of the reliable, probative, and substantial evidence on the whole record, or is arbitrary, or capricious, or characterized by an abuse of discretion or clearly unwarranted exercise of discretion.
 - vi. Petitions not in conformance with these requirements shall be rejected by the Director of Finance.
- 2. <u>Standing</u>. Only aggrieved parties have standing to appeal an action under these rules.
- 3. <u>Hearing Officer</u>. Upon receipt of the petition for appeal, the Director of Finance shall within a reasonable time thereafter appoint a Hearings Officer who shall not be an employee of the Department of Finance. The Hearings Officer shall afford the petitioner and all other parties an opportunity to be heard. Such hearing shall be conducted in conformity with the applicable provisions established herein for contested case hearings before the Hearings Officer.
 - i. <u>Hearings Officer Action</u>.
 - a. A Hearings Officer appointed by the Director of Finance pursuant to these rules and other applicable law shall render his or her decision within sixty (60) days of the close of the evidentiary portion of the hearing.
 - b. A longer period to render any decision by the Hearings Officer may be permitted by agreement of all parties.
- 4. <u>Definitions</u>.
 - i. "Contested Case" means a proceeding in which the legal rights, duties or privileges of specific parties are required by law to be determined after an opportunity for agency hearing.
 - ii. "Department" means the Department of Finance or its authorized representative.

- iii. "Director" means the Director of Finance or his or her authorized representative.
- iv. "Hearing" refers only to such hearing held by the Hearings Officer immediately prior to a judicial review of a Contested Case as provided in Section 91-14 HRS.
- v. "Hearings Officer" means any person or persons designated and authorized by the Director of Finance to conduct a hearing for the purpose of taking testimony and to report his or her findings of facts and conclusions of laws and decision and order.
- vi. "HRS" means Hawai'i Revised Statutes.
- vii. "Party" means a Petitioner or Petitioners and the Department or Director.
- viii. "Person" includes individuals, partnerships, corporations, associations, or public or private organizations of any character other than agencies.
 - ix. "Petitioner" means a person who seeks to appeal a decision of the Director of Finance issued pursuant to his or her authority under the Kaua'i County
 - x. Code Chapter 20, Article 5.
 - xi. "Proceeding" means a matter that is submitted to a Hearings Officer designated and authorized by the Director of Finance to conduct a hearing for the purpose of taking testimony and reporting his or her findings of facts and conclusions of laws and decision and order.

- B. <u>General Requirements in Proceedings Before the Hearing Officer</u>.
 - 1. <u>Who May Appear Before the Hearing Officer</u>. Any party to a proceeding before the Hearings Officer may appear in his or her own behalf or as an authorized representative of a partnership, corporation, trust or association and an officer or employee of a department or agency of the State or a political subdivision may represent that department or agency in any proceeding before the Hearings Officer. If a party is to be represented by an attorney, that attorney who appears before the Hearings Officer shall be in good standing before the Hawai'i Supreme Court. The Hearings Officer may at any time require any person appearing before him/her, in a representative capacity, to show proof of his or her authority and qualification to act in such capacity.
 - 2. <u>Code of Ethics</u>. Any person who signs a pleading or brief, enters an appearance at a hearing, or transacts business with the department, by such act represents that he or she is legally authorized to do so and shall comply with the laws of this State and the County of Kaua'i, and the rules and regulations of the department; and further, he or she shall maintain the respect due to the Hearings Officer and shall never deceive or knowingly present any false statements of fact or law to the Hearings Officer.

- C. <u>Requirements of Filing of Documents</u>.
 - 1. <u>Time and Place</u>. All pleadings, briefs, submittals, petitions, reports, maps, exceptions, memoranda and other legal papers required to be filed with the Hearings Officer in any proceeding shall be filed with the Hearings Officer at his or her place of business, and shall be served on all parties to the proceeding. Unless otherwise ordered, the date on which the papers are accepted shall be regarded as the date of filing.
 - 2. <u>Format</u>. All submittals shall be clearly and permanently legible and in such form as may be prescribed by the Hearings Officer. The original shall be signed in ink by each party or his or her counsel and show the address of such person.
 - 3. <u>Copies</u>. Unless otherwise required by these rules or the Hearings Officer, there shall be filed with the Hearings Officer, an original and two copies of each submittal thereof. Additional copies shall be promptly provided if the Hearings Officer so requests.
 - 4. <u>Extensions of Time</u>. Whenever a party is required to file a pleading within the period prescribed or allowed by these rules, by notice given there under or by an order or regulation, the Hearings Officer may (1) for good cause before the expiration of the prescribed period, with or without notice to the parties, extend such period, (2) pursuant to a stipulation between all of the parties, extend such period, and/or (3) permit the act to be done after the expiration of the specified period where the failure to act is clearly shown to be the result of excusable neglect. All requests for continuances, except for stipulations, should be by written motion, unless it is made during the course of a hearing.
 - 5. <u>Amended Pleadings</u>. All pleadings may be amended at any time prior to the hearing. Amendments offered prior to the hearing shall be served on all parties and filed with the Hearings Officer. All parties shall have the opportunity to answer and be heard on amendments filed after the hearing commences, and the Hearings Officer shall decide whether such amendments shall be allowed.

D. <u>Service of Process</u>.

- 1. <u>By Whom Served</u>. The Hearings Officer shall serve copies of all orders, notices and other papers issued by him or her, together with any other papers that are required by law. All other papers shall be served by the parties filing them.
- 2. <u>Upon Whom Served</u>. All papers served by either the Hearings Officer or any party shall be filed and served upon all parties through their counsel if they have retained counsel and shall contain a certificate of service attesting to such service. Any counsel entering an appearance subsequent to the initiation of such proceeding shall notify all other counsel of record and all parties not represented by counsel of such fact.
- 3. <u>Service Upon Parties</u>. The final decision and order, and any other paper required to be served by the Hearings Officer upon a party, shall be served upon such party or his/her counsel of record.
- 4. <u>Method of Service</u>. Service of papers shall be made personally or, unless otherwise provided by law, by mail to the last known address of the party or his/her counsel of record.
- 5. <u>When Service is Complete</u>. Service upon parties other than the Hearings Officer shall be regarded as complete upon mailing or upon personal service unless otherwise specifically directed by the Hearings Officer.
- 6. <u>How Made</u>. Whenever under these rules service is required or permitted to be made upon a party represented by an attorney the service shall be made upon the attorney unless service upon the party is ordered by the Hearings Officer.
 - i. Service upon the attorney or upon a party shall be made (a) by delivering a copy to the attorney or party; or (b) by mailing it to the attorney or party at the attorney's or party's last known address; or (c) if no address is known, by leaving it with the clerk of the Director; or (d) if service is to be upon the attorney, by email transmission to the attorney's business email address.
 - ii. Delivery of a copy within this rule means: handing it to the attorney or to the party; or leaving it at the attorney's or party's office with a clerk or other person in charge thereof; or, if there is no one in charge, leaving it in a conspicuous place therein; or, if the office is closed or the person to be served has no office, leaving it at the person's dwelling house or usual place of abode with some person of suitable age and discretion then residing therein.
 - iii. Service by mail is complete upon mailing. Service by email transmission is complete upon receipt of the entire document by the intended recipient and between the hours of 8:00 a.m. and 5:00 p.m. on a week day. Service by email transmission that occurs after 5:00 p.m. shall be deemed to have occurred on the next week

day. Email transmission means transmission and receipt of the entire document without error with a cover sheet which states the attorney(s) to whom it is directed, the case name and case number, and the title and number of pages of the document.

- iv. Service by email transmission shall be confirmed by a certificate of service which declares that service was accomplished by email transmission to a specific phone number, on a specific date, at a specific time.
- E. <u>Times</u>.
 - 1. <u>Computation</u>. In computing any period of time prescribed or allowed by these rules, by order of the Hearings Officer, or by any applicable statute, the day of the act, event, or default after which the designated period of time begins to run shall not be included. The last day of the period so computed shall be included unless it is a Saturday, a Sunday or a holiday, in which event the period runs until the end of the next day which is not a Saturday, a Sunday or a holiday. When the period of time prescribed or allowed is less than 7 days, intermediate Saturdays, Sundays and holidays shall be excluded in the computation. As used in this rule, "holiday" includes any day designated as such pursuant to section 8-1 of the Hawai'i Revised Statutes.
 - 2. <u>Enlargement</u>. When by these rules or by a notice given thereunder or by order of the Hearings Officer an act is required or allowed to be done at or within a specified time, the Hearings Officer for cause shown may at any time in his or her discretion (1) with or without motion or notice order the period enlarged if request therefor is made before the expiration of the period originally prescribed or as extended by a previous order or (2) upon motion made after the expiration of the specified period permit the act to be done where the failure to act was the result of excusable neglect.

VI. HEARING PROCEDURES

A. <u>Hearing Officer</u>.

- 1. The Hearings Officer shall control the course of the hearing, administer oaths, receive evidence, hold appropriate conferences before or during hearings, rule on all objections or motions, receive offers of proof, fix the time for the filing of submittal, dispose of any other matter that normally and properly arises in the course of a hearing, and take all other actions authorized by law that are deemed necessary to the orderly and just conduct of the hearing.
- B. <u>Parties</u>. The Department of Finance and the petitioner shall in every case be parties to such proceedings.
- C. <u>Continuance</u>. The Hearings Officer may, for good cause, postpone or continue any hearing from day to day, or to a later date, or to a different place without notice other than the announcement thereof at the hearing.
- D. <u>Ex Parte Communication</u>. No person whether or not a party to a hearing before the Hearings Officer shall communicate ex parte regarding any subject matter of the proceeding with the Hearings Officer.
- E. <u>Notice of Hearing</u>.
 - 1. The notice of hearing shall be served upon all parties at least fifteen (15) days prior to the hearing date, unless otherwise provided by law.
 - 2. The notice shall contain the appropriate information as required in HRS, 91-9.
- F. <u>Waiver of Procedure</u>. Any procedure pursuant to these rules may be modified or waived by stipulation of the parties and informal disposition may be made of any hearing by stipulation, settlement, agreement, consent order, or default.
- G. <u>Prehearing Conference</u>. The Hearings Officer may hold a prehearing conference with the parties for the purpose of formulating or simplifying the issues, arranging for the exchange of proposed exhibits or proposed witness testimony, setting of schedules, exchanging names of witnesses, limitation of number of witnesses, and such other matters as may expedite orderly conduct and disposition of the proceeding.

- H. <u>Requests for Transcripts</u>. Unless otherwise provided by law or specifically ordered by the Hearings Officer, it shall not be necessary to transcribe the record unless required for purposes of rehearing or court review. Should a party to a hearing under these rules desire that transcripts be provided when not otherwise required, the party may, prior to commencement of hearing, either; (1) deposit an amount sufficient to cover transcribing and printing costs as prepared by a certified court reporting service; (2) provide a certified court reporting service at the hearing; (3) enter into an agreement with the County that will address the preparation and printing costs of transcripts.
- I. Just, Expeditious, and Inexpensive Determination.
 - 1. To avoid unnecessary cumulative evidence, the Presiding Officer may limit the number of witnesses or the time for testimony upon a particular issue.
 - 2. The Presiding Officer shall not order or approve civil style discovery against non-parties; and unless stipulated to by all parties, the hearings officer shall not order or approve civil style discovery between parties. Civil style discovery refers to procedures initiated by parties under judicial rules of civil procedure, specifically including but not limited to, depositions on oral or written questions, written interrogatories, requests for production of documents or things, requests to enter land or other property, physical and mental examinations, and requests for admissions.
- J. <u>Stipulation as to Findings of Facts, Conclusions of Law</u>. Nothing in these rules shall prohibit parties from entering into appropriate stipulations as to findings of fact, conclusions of law, and conditions, if any, concerning the subject petition for appeal.
 - 1. A petitioner who desires to enter into a stipulation shall prepare a stipulation as to any and all findings of fact, conclusions of law, and conditions, if any, concerning the subject petition.
 - 2. All parties shall sign the proposed stipulation as to any or all proposed findings of fact, conclusions of law, and conditions and a proposed decision and order, if at all, and shall submit such stipulation to the Hearings Officer seven (7) days prior to the hearing date, unless otherwise permitted by the Hearings Officer.
 - 3. The Hearings Officer may require the parties to submit additional evidence concerning the stipulation and proposed decision and order.
 - 4. The Hearings Officer may approve the proposed decision and order by amending or adopting the proposed decision and order.

- K. <u>Order of Hearing Procedure</u>. At the commencement of the hearing, the Hearings Officer may read the notice of hearing and then briefly outline the procedures to be followed, which shall be in the following manner:
 - 1. <u>Presentation of Evidence</u>. The petitioner's presentation shall be first, followed by the Department.
 - 2. <u>Cross-Examination</u>. Each Party shall have the right to conduct such cross-examination of other Parties and their witnesses as may be required for a full and true disclosure of the facts. The order of cross-examination and re-cross shall be determined by the Hearing Officer.
 - 3. <u>Rebuttal Evidence</u>. Each Party shall be afforded the opportunity for rebuttal in the same order as above.
 - 4. <u>Close Contested Case Hearing</u>. Upon completion of all testimony and evidence submitted by each party and their witnesses, the Hearing Officer shall close the Contested Case portion of the Hearing.
 - 5. <u>Request to Submit Proposed Findings of Fact, Conclusions of Law,</u> <u>Decision and Order</u>. A party may, after the close of the evidentiary portion of the hearing request the opportunity to submit proposed Findings of Fact, Conclusion of Law, Decision and Order. If such a request is made, the Hearings Officer shall also allow all other parties to submit proposed Findings of Fact, Conclusion of Law, Decision and Order. Should a party not submit a request at such time, the party's right to submit such document shall be deemed waived and the Hearings Officer may commence with appropriate decision-making action. If a request is made, the Hearings Officer may continue the docket and set a timetable for the conduct of the post-hearing proceedings pursuant to these rules.
- L. <u>Co-Counsel</u>. No more than two (2) counsel may appear for any party at any proceeding before the Hearings Officer. Where a party is represented by more than one counsel, only one of the counsel shall be permitted to cross-examine a witness or to state any objections or make closing arguments.

M. <u>Requests for Subpoenas</u>.

- 1. <u>Subpoenas of Witnesses</u>. Requests for the issuance of subpoenas requiring the attendance of a witness for the purpose of taking oral testimony before the Hearings Officer shall be in writing, and shall state the reasons why the testimony of the witness is believed to be material and relevant to the issues involved. Only parties or the Hearings Officer may request the issuance of a subpoena.
- 2. Every subpoena shall state the title of the proceeding for which it is to be issued, and shall command each person to whom it is directed to attend and give testimony at a time and place therein specified.
- 3. <u>Subpoenas Duces Tecum</u>. Requests for the issuance of subpoenas for the production of documents or records shall be in writing; shall specify the particular document or record, or part thereof, desired to be produced; and shall state the reasons why the production thereof is believed to be material and relevant to the issues involved.
- 4. <u>Who May Issue Subpoenas</u>. Subpoenas may only be issued by the Hearings Officer. No subpoena shall be issued unless the party requesting the subpoena has complied with the provisions herein and gives the names and address of the desired witness. Signed and sealed blank subpoenas shall not be issued to anyone. The name and address of the witness shall be inserted in the original subpoena, a copy of which shall be filed in the proceeding. Subpoenas shall show at whose instance the subpoena is issued. The parties at whose instance a subpoena is issued shall arrange for service thereof, and shall file a return and an acknowledgment of service thereon.
- 5. <u>Fees and Mileage</u>. Witnesses summoned shall be paid the same fees and mileage as are paid witnesses in Circuit Courts of the State of Hawai'i and such fees and mileage shall be paid by the party at whose instance the witness appears.
- 6. <u>Oath</u>. Witnesses shall be sworn under oath or affirmation prior to testifying.
- N. Consolidation. The Hearings Officer, upon his/her own initiative or upon motion may consolidate for hearing or for other purposes, or may contemporaneously consider, two or more proceedings which involve substantially the same parties or issues which are the same or closely related if he/she finds that such consolidation or contemporaneous consideration will be conducive to the proper dispatch of its business and to the ends of justice and will not unduly delay the proceedings.

- O. <u>Substitution of Parties</u>. Upon motion and for good cause shown, the Hearings Officer may order substitution of parties, except that in the case of death of a party, substitution may be ordered without the filing of a motion.
- P. <u>Motions</u>.
 - 1. All motions, other than those made during a hearing, shall be made in writing to the Hearing Officer, shall state the relief sought, and shall be accompanied by an affidavit, declaration, and/or memorandum setting forth the grounds upon which they are based.
 - 2. All motions are non-hearing and shall be decided upon written submission, unless the Hearing Officer elects to set a time for hearing.
 - 3. Unless otherwise specified by the Hearing Officer, a memorandum in opposition or a counter affidavit or declaration may be filed and served on all parties no later than fifteen (15) days after service of the motion.
 - 4. No reply or supplemental memoranda shall be filed unless specifically allowed by the Hearing Officer.
 - 5. The original documents and proof of service shall be filed with Hearing Officer. When service is made by mail, two calendar days shall be added to the periods required in 6.15C.
 - 6. Unless otherwise specified by the Hearing Officer, all pretrial motions shall be filed no later than twenty (20) days prior to the assigned contested case hearing date.

Q. <u>Evidence</u>.

- 1. <u>Form and Admissibility</u>. The Hearings Officer shall not be bound by the Hawai'i Rules of Evidence relating to the admission or rejection of evidence, but may exercise his/her own discretion in such matter with a view towards insuring that justice is served.
- 2. <u>Burden of Proof</u>. Except as otherwise provided by law, the party initiating the petition to appeal shall have the burden of proof, including the burden of producing evidence as well as the burden of persuasion. The degree or quantum of proof shall be a preponderance of the evidence.
- 3. <u>Exclusion of Irrelevant Material</u>. As a matter of policy, the Hearings Officer shall provide for the exclusion of irrelevant, immaterial, or unduly repetitious evidence.
- 4. <u>Ruling</u>. The Hearings Officer shall rule on the admissibility of all evidence.
- 5. <u>Objections and Exceptions</u>. When objections are made to the admission or exclusion of evidence, the ground relied upon shall be stated briefly. Formal exceptions to rulings are unnecessary and need not be taken.
- 6. <u>Offer of Proof</u>. An offer of proof for the record shall consist of a statement of the substance of the evidence to which the objection has been sustained.
- 7. <u>Prepared Testimony</u>. With the approval of the Hearings Officer, a witness may read into the record his/her testimony on direct examination. Before any prepared testimony is read, unless excused by the Hearings Officer, the witness shall deliver copies thereof to the Hearings Officer, and all counsel or parties. If the Hearings Officer deems that substantial savings in time will result, a copy of the prepared testimony may be received in evidence without hearing, provided that copies thereof shall have been served upon all parties and the Hearings Officer to permit proper cross examination of the witness on matters contained in said prepared testimony.
- 8. <u>Documentary Evidence</u>. If relevant and material matter offered in evidence is embraced in a document containing other matters, the party offering it shall designate specifically the matter so offered. If other matter in the document would unnecessarily encumber the record, the document will not be received in evidence, but at the discretion of the Hearings Officer, the relevant and material matter may be read into the record or copies thereof received as an exhibit. Other parties shall be afforded opportunity to examine the document, and to offer in evidence other portions thereof believed material and relevant.
- 9. <u>Exhibits</u>.
 - i. <u>Form-Size</u>. Exhibits shall be clearly and permanently legible and in such form as may be prescribed by the Hearings Officer.

PUBLIC NOTICE: [date] (Posted with Office of County Clerk); [date] (Publications, Garden Island Newspaper and Star Advertiser) PUBLIC HEARING: [date] Exhibits shall be bound or folded to the respective approximate size, where practical. Wherever practicable, sheets of each exhibit shall be numbered and data and other figures shall be set forth in tabular form.

- ii. <u>Copies</u>. When exhibits are offered in evidence, and when practicable the original and two (2) copies shall be furnished to the Hearings Officer with a copy to each party to the proceeding, unless such copies have been previously furnished or the Hearings Officer directs otherwise.
- 10. <u>Official Notice of Facts</u>. Official notice may be taken of such matters as may be judicially noticed by the courts of the State of Hawai'i. Official notice may also be taken of generally recognized technical or scientific facts within the Department's specialized knowledge when parties are given notice either before or during the hearing of the material so noticed and afforded the opportunity to contest the facts so noticed.
- 11. <u>Additional Evidence</u>. No supplemental evidence shall be accepted into the record after the evidentiary portion of the hearing is closed unless agreed to by the parties and approved by the Hearings Officer.
- R. <u>Post Hearing Procedures</u>.
 - 1. Upon completion of taking of evidence, the Hearings Officer shall issue findings of fact, conclusions of law, and decision and order that states an analysis and reasons therefore, and shall submit the report of the proceeding and the record to the Department.
 - 2. The record shall include the petition, notice of hearing, motions, rulings, orders, transcript of the hearing, if required, documentary evidence, stipulations, findings of fact, or other documents submitted by the parties, objections to the conduct of the hearing and the report of the Hearings Officer and all other matters placed in evidence.
 - 3. The Hearings Officer shall cause a copy of the report to be served upon all parties to the proceedings.
 - 4. Any party aggrieved by a final decision and order by the Hearings Officer or by a preliminary ruling of the nature that deferral of review pending entry of a subsequent final decision would deprive appellant of adequate relief is entitled to judicial review thereof under Chapter 91 of the HRS; but nothing in this section shall be deemed to prevent resort to other means of review, redress, relief, or trial de novo, including the right of trial by jury, provided by law.

A BILL FOR AN ORDINANCE TO AMEND CHAPTERS 18, 20, AND 23, KAUA'I COUNTY CODE 1987, AS AMENDED, RELATING TO REVOCABLE PERMITS IN COUNTY DESIGNATED RIGHTS-OF-WAY

BE IT ORDAINED BY THE COUNCIL OF THE COUNTY OF KAUA'I, STATE OF HAWAI'I:

SECTION 1. Findings and Purpose: The purpose of this bill is to clarify the process and responsibilities for the permitting of vending on County-owned property. The Council finds that under certain circumstances, vending on public property can have a benefit to economic development of our County and can provide for the revitalization of historic towns.

The Council further finds that the process for regulating vending should be clarified to distinguish vending between properties under the jurisdiction of the Department of Parks and Recreation and properties under the jurisdiction of the Department of Public Works, such as County rights-of-way. The Council further finds that given Act 115 of the 2013 Legislature now provides a permitting process for the State Department of Transportation to allow vending on State highways, the County now has the ability to issue similar revocable permits for limited vending within County rights-of-way, subject to terms of use and mitigation conditions to limit the impact to other users of County properties.

SECTION 2. Chapter 18, Kaua'i County Code 1987, as amended, is hereby amended by adding a new Article 5 as follows:

"ARTICLE 5. VENDING FROM COUNTY RIGHTS-OF-WAY PROHIBITED

Section 18-5.1 Restrictions.

(a) No person shall park or place a vehicle or structure wholly or partly on any County right-of-way for the purpose of selling therefrom or therein any article, service, or thing without a permit, thereby creating a hazardous condition or a public nuisance or in reckless disregard of the risk of creating a hazardous condition or public nuisance.

(b) The Department of Public Works may remove or require the immediate removal of the vehicle or structure from the right-of-way.

Section 18-5.2 Revocable Permit.

(a) The County Engineer, in the case of County rights-of-way, may, upon application in writing, approve a revocable permit pursuant to Chapter 20, Article 5, Kaua'i County Code 1987, as amended, subject to any terms and mitigation conditions imposed by the County Engineer or his designee, authorizing the applicant to vend in the right-of-way.

(b) If the revocable permit application includes temporary road closures, approval of the revocable permit by the Chief of Police is also required.

Section 18-5.3 Definition of "right-of-way."

For the purposes of this section, "right-of-way" means the entire width from property line to property line, including the berm, swale, or shoulder of a roadway owned and/or under the jurisdiction of the County of Kaua'i except those roadway areas under the jurisdiction of the Department of Parks and Recreation pursuant to Chapter 23, Article 3, Kaua'i County Code 1987, as amended.

Section 18-5.4 Enforcement and Penalty.

(a) In addition to or in lieu of any administrative actions and penalties issued pursuant to Chapter 20, Article 5, Kaua'i County Code 1987, as amended, any act prohibited under this Article shall be a traffic infraction-level offense that is subject to the penalties and procedures provided for in Chapter 16, Article 21, Kaua'i County Code 1987, as amended, and Hawai'i Revised Statutes Chapter 291D.

(b) Any person convicted of violating this Article shall be fined five hundred dollars (\$500) per offense.

(c) Each day a violation continues may be counted as a separate offense."

SECTION 3. Chapter 18, Article 1, Section 18-1.2, Kaua'i County Code 1987, as amended, is hereby amended as follows:

"Sec. 18-1.2 Restricted Uses.

The County Council may, if it deems necessary for the purpose of preserving the public health, safety and welfare, restrict the following uses of any road, street and highway under its jurisdiction by prohibiting: (a) Use of a loud speaker or sound amplifier for projection of sound from any vehicle.

(b) Use by a commercial vehicle or by specific types of vehicles or by vehicle weight, load or size.

(c) Use for commercial, business, or other income motivated purpose for private gain or charitable [purposes.] <u>purposes</u>, <u>unless</u> a <u>revocable permit is issued by the Finance Director and approved by the</u> <u>County Engineer pursuant to Chapter 20</u>, <u>Article 5 of this code</u>.

(d) Use for processions or assemblages."

SECTION 4. Chapter 18, Article 1, Section 18-1.4, Kaua'i County Code 1987, as amended, is hereby amended as follows:

"Sec. 18-1.4 Penalties.

Any person convicted of violating any restrictive use set by resolution of the Council pursuant to this Article shall be subject to the penalties provided for in [Section 16-21.8] <u>Section 16-21.6</u> of the Kaua'i Traffic Code."

SECTION 5. Chapter 20, Article 5, Section 20-5.2, Kaua'i County Code 1987, as amended, is hereby amended as follows:

"Sec. 20-5.2 Exceptions to Bidding Requirement.

The Finance Director may grant revocable permits approved by the County Attorney as to form and legality, without calling for public bids, when:

(a) The intended use does not conflict with use for immediate public purposes; and

(b) There is no reasonable alternative other than the use of public property; and

(c) The proposed use does not create a nuisance or unreasonably affect public health or welfare; and

(d) There is no conflicting request for use of the particular public [property; and] <u>property.</u>

[(e) The revocable permit shall be limited to a month-to-month basis or less.]"

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SECTION 6. Chapter 20, Article 5, Section 20-5.3, Kaua'i County Code 1987, as amended, is hereby amended as follows:

"Sec. 20-5.3 [Rental.] <u>Rental and Application.</u>

(a) For use by nonprofit organizations or governmental agencies for public purposes, the rental shall be one dollar (\$1.00) per month. "Nonprofit organization" is defined to mean an association, corporation, or other entity organized and operated exclusively for religious, charitable, scientific, literary, cultural, educational, recreational, or other nonprofit purposes, no part of the assets, income, or earnings of which inures to the benefit of any individual or member thereof.

(b) For use by others, the rental shall be the fair market rental value as [jointly] established by the Finance Department [and the Department of Public Works], or at the option of the user, the rental shall be the fair market rental value as established by a disinterested appraiser paid for by the user and approved by the Finance Department.

(c) Improvements to be made by the user that will benefit the County after the permit expires may be considered in establishing the rent. However, improvements constructed shall be at the risk of the user and no damages or claims shall be payable to the user upon termination of the permit.

(d) When bidding is not required pursuant to Section 20-5.2, Kaua'i County Code 1987, as amended, a rental fee shall not be assessed for properties designated as a County public right-of-way.

(e) The user shall execute an agreement with the County specifying the terms of the use of the property and any mitigation that may be required by any of the County's agencies. For properties under the jurisdiction of the Department of Public Works, the County Engineer shall also review and approve the revocable permit.

(f) Unless the event is sponsored by the County of Kaua'i, each application for a revocable permit pursuant to this part shall be assessed a non-refundable application fee of one hundred dollars (\$100.00).

(g) Revocable permits issued under this section shall be revocable on notice of thirty (30) days or less and shall not exceed a period of one year."

SECTION 7. Chapter 20, Article 5, Kaua'i County Code 1987, as amended, is hereby amended by adding new sections 20-5.5, 20-5.6, and 20-5.7 as follows:

"Sec. 20-5.5 Penalties and Enforcement.

(a) Any activities performed without a permit, beyond the scope of a permit, or not in compliance with a permit shall be a traffic infraction-level offense subject to the penalties and procedures provided for in Chapter 18, Article 5, and Chapter 16, Article 21, Kaua'i County Code 1987, as amended, and Chapter 291D, Hawai'i Revised Statutes.

(b) In addition to or in lieu of any penalties pursuant to Chapter 18, Article 5, and Chapter 16, Article 21, Kaua'i County Code 1987, as amended, and Chapter 291D, Hawai'i Revised Statutes, the Director of Finance may suspend or revoke a permit that was issued under the provisions of this Article whenever:

(1) the permit was issued based on incorrect information supplied;

(2) any activities are not being performed in accordance with the terms and provisions of the permit;

(3) it is determined that the permittee had not complied with this Article or any provision of any other applicable law, ordinance, rule, or regulation of the State of Hawai'i or the County of Kaua'i;

(4) whenever the activities are deemed unsafe as determined by the Director of Finance; or

(5) the circumstances under which the permit was considered have substantially changed as determined by the Director of Finance or authorized representative.

(c) Where a permit is suspended or revoked for any reason, there shall be no refund of any permit fee.

Sec. 20-5.6 Administrative Appeals.

<u>Within thirty (30) days of service, decisions to approve, deny, suspend,</u> revoke, or modify a permit may be appealed in accordance with rules of practice and procedure established pursuant to Chapter 91, Hawai'i Revised Statutes.

Sec. 20-5.7 Rulemaking Authority.

Pursuant to Chapter 91, Hawai'i Revised Statutes, the Director of Finance may promulgate rules to carry out the purposes of this Article." SECTION 8. Chapter 23, Article 3, Section 23-3.2, Kaua'i County Code 1987, as amended, is hereby amended as follows:

"Sec. 23-3.2 Definitions.

When used in this Article the following words or phrases shall have the meaning given in this Section unless it shall be apparent from the context that a different meaning is intended:

"Concession" means the grant to a private individual, partnership or corporation of the privilege for a fee to conduct operations essentially retail in nature, involving the sale and/or rental of goods, services, wares, novelties or any merchandise to consumers in or on land or structures owned or controlled by the [County of Kaua'i.] <u>Department of Parks and Recreation</u>.

"Concession stands" mean structures owned or controlled by the County of Kaua'i which uses are granted to private individuals, partnerships, or corporations for a fee to conduct operations essentially retail in nature involving the sale and/or rental of goods, services, wares, novelties, or any merchandise to consumers.

"Concessionaire" means a private individual, partnership, or corporation that has been granted the privilege for a fee to conduct operations essentially retail in nature involving the sale and/or rental of goods, services, wares, novelties, or any merchandise to consumers in or on land or structures owned or controlled by the [County of Kaua'i.] <u>Department of Parks and</u> <u>Recreation.</u>

"Peddler" means a person or persons in the business of traveling about carrying goods, wares, food, or merchandise for sale and/or rental to consumers, or any person traveling about selling, renting, or offering for sale, or rent, soliciting orders for or inviting attention to or promoting in any manner whatsoever, directly or indirectly, goods, wares, merchandise, foodstuffs, refreshments, or other kinds of property or services, or to distribute commercial handbills, or carry on or conduct any commercial promotional scheme, advertising programs, or similar activity, or any person or persons in business of delivering food, foodstuffs, or refreshments to consumers at a place other than the peddler's fixed place of business, or any person or persons in the business of traveling about to deliver food, foodstuffs, or refreshments to consumers, or any person or persons engaged in the business or service of providing sport or recreational activities or rental of equipment therefor for commercial gain on either a fee basis or a donation in lieu of a fee and activities associated therewith, including but not limited to loading and unloading of passengers, transporting passengers, parking, or traversing over and through County parks.

"Peddling" means the carrying on of business by a peddler."

SECTION 9. Chapter 23, Article 3, Section 23-3.5, Kaua'i County Code 1987, as amended, is hereby amended as follows:

"Sec. 23-3.5 Peddling Prohibition; Prima Facie Evidence.

(a) It shall be unlawful to violate any of the rules and regulations adopted pursuant to Sec. 23-3.3.

(b) It shall be unlawful to engage in peddling without a valid peddler's license in the peddler's possession, or to operate at a location not authorized thereby, or to transfer a peddler's license to another, or to alter or possess an altered peddler's license.

(c) Peddling shall be unlawful without a permit issued by the Director of Parks and Recreation within County parks, playgrounds, beaches, roads, parking lots, and other facilities[, or on or alongside roads, parking lots or other] and areas subject to, or adjacent to, facilities under the jurisdiction of the [County and abutting thereto.] Department of Parks and Recreation, including unpaved roadway areas adjacent to parks.

(d) Peddling shall be unlawful without a permit issued by the Director of Parks and Recreation in any area subject to [County] <u>Department</u> of Parks and Recreation jurisdiction between the ocean and the abutting property line, including, but not limited to, parking lots and County parks on the island of Kaua'i.

(e) Prima Facie Evidence; Peddling. The presence of a peddler without a permit issued by the Director of Parks and Recreation in any areas described in either Subsection (c) or (d) of this Section, with the peddler's or his/her employer's goods, wares, novelties, merchandise, foodstuffs, refreshments, or other property or services shall constitute prima facie evidence of peddling, in violation of said Subsection."

SECTION 10. If any provision of this ordinance or application thereof to any person, persons, or circumstances is held invalid, the invalidity does not affect the other provisions or applications of this ordinance which can be given effect without the invalid provision or application, and to this end, the provisions of this ordinance are severable.

SECTION 11. Ordinance material to be repealed is bracketed. New ordinance material is underscored. When revising, compiling or printing this ordinance for inclusion in the Kaua'i County Code, 1987, as amended, the brackets, bracketed material, and underscoring shall not be included.

SECTION 12.

This Ordinance shall take effect upon approval.

Introduced by: /s/ DEREK S.K. KAWAKAMI

/s/ ROSS KAGAWA

DATE OF INTRODUCTION:

March 14, 2018

Līhu'e, Kaua'i, Hawai'i V:\BILLS\2016-2018 TERM\Bill No. 2697, Draft 1 (AMK:aa)

CERTIFICATE OF THE COUNTY CLERK

I hereby certify that heretofore attached is a true and correct copy of Bill No. 2697, Draft 1, which was adopted on second and final reading by the Council of the County of Kaua'i at its meeting held on April 25, 2018 by the following vote:

None

FOR ADOPTION:

AGAINST ADOPTION: EXCUSED & NOT VOTING: RECUSED & NOT VOTING: Brun, Kagawa, Kaneshiro, Kawakami, Yukimura, Rapozo None Chock

 $\begin{array}{l} \text{TOTAL}-6,\\ \text{TOTAL}-0,\\ \text{TOTAL}-1,\\ \text{TOTAL}-0. \end{array}$

Līhu'e, Hawai'i April 26, 2018

Jall

Jade K. Fountain-Tanigawa County Clerk, County of Kaua'i

ATTEST:

lulga

Mel Rapozo Chairman & Presiding Officer

DATE OF TRANSMITTAL TO MAYOR:

April 26, 2018

Approved this 27th day of

April , 2018.

Bernard P. Carvalho, Jr., Mayor County of Kauaʻi

IV. Old Business

A.Discussion and Action on the Small Business
 Statement After Public Hearing and Proposed
 Amendments to HAR Title 4 Chapter 162, Food
 Safety Certification Costs Grant Program,
 promulgated by DOA

SMALL BUSINESS STATEMENT "AFTER" PUBLIC HEARING TO THE SMALL BUSINESS REGULATORY REVIEW BOARD

(Hawaii Revised Statutes (HRS), §201M-3)

Department or Agency: Agriculture

Administrative Rule Title and Chapter: Chapter 4-162

Chapter Name: Food Safety Certification Costs Grant Program

Contact Person/Title: Jeri Kahana

Phone Number: 832-0705

E-mail Address: Jeri.M.Kahana@hawaii.gov

Date: July 24, 2018

- A. To assist the SBRRB in complying with the meeting notice requirement in HRS §92-7, please attach a statement of the topic of the proposed rules or a general description of the subjects involved.
- B. Are the draft rules available for viewing in person and on the Lieutenant Governor's Website pursuant to HRS §92-7? Yes No 🗸

(If "Yes" please provide webpage address and when and where rules may be viewed in person.) https://hdoa.hawaii.gov/wp-content/uploads/2013/01/Hemp-proposed-rule-Ramseyer.pdf

(Please keep the proposed rules on this webpage until after the SBRRB meeting.)

- I. Rule Description: New 🖌 Repeal Amendment Compilation
- II. Will the proposed rule(s) affect small business? Yes ✓ No (If "No" you do not need to submit this form.)
- * "Affect small business" is defined as "any potential or actual requirement imposed upon a small business . . . that will cause a direct and significant economic burden upon a small business, or is directly related to the formation, operation, or expansion of a small business." HRS §201M-1
- * "Small business" is defined as a "for-profit enterprise consisting of fewer than one hundred full-time or part-time employees." HRS §201M-1
- III. Is the proposed rule being adopted to implement a statute or ordinance that does not require the agency to interpret or describe the requirements of the statute or ordinance? Yes No ✓ (If "Yes" no need to submit this form.) (e.g., a federally-mandated regulation that does not afford the agency the discretion to consider less restrictive alternatives.) HRS §201M-2(d)

IV. Is the proposed ru	le being	adopted	pursuant to emergency rulemaking?
(HRS §201M-2(a))	Yes	No 🗸	(If "Yes" no need to submit this form.)

* * *



Small Business Statement after Public Hearing - Page 2

- I. Please explain how the agency involved small business in the development of the proposed rules.
 - a. Were there any recommendations incorporated into the proposed rules? If yes, explain. If not, why not?
- II. If the proposed rule(s) affect small business, and are not exempt as noted above, please provide the following information:
 - 1. A description of how opinions or comments from affected small businesses were solicited.
 - 2. A summary of the public's and small businesses' comments.
 - 3. A summary of the agency's response to those comments.
 - 4. The number of persons who:(i) Attended the public hearing:
 - (ii) Testified at the hearing:
 - (iii) Submitted written comments:
 - 5. Was a request made at the hearing to change the proposed rule in a way that affected small business?
 - (i) If "Yes" was the change adopted? Yes No
 - (ii) If No, please explain the reason the change was not adopted and the problems or negative result of the change.

Small Business Regulatory Review Board / DBEDT Phone: (808) 586-2594 / Email: <u>sbrrb@dbedt.hawaii.gov</u> This statement may be found on the SBRRB Website at: <u>http://dbedt.hawaii.gov/sbrrb-impact-statements-pre-and-post-public-hearing</u> DEPARTMENT OF AGRICULTURE

Adoption of Chapter 4-162 Hawaii Administrative Rules

<Date of Adoption>

Chapter 4-162, Hawaii Administrative Rules, 1. entitled "FOOD SAFETY CERTIFICATION COSTS GRANT PROGRAM", is adopted to read as follows:

HAWAII ADMINISTRATIVE RULES

TITLE 4

DEPARTMENT OF AGRICULTURE

SUBTITLE 7

QUALITY ASSURANCE DIVISION

CHAPTER 162

FOOD SAFETY CERTIFICATION COSTS GRANT PROGRAM

§4-162-1	Definitions
§4-162-2	Purpose of program
§4-162-3	Eligibility requirements
§4-162-4	Eligible costs
§4-162-5	Ineligible costs
§4-162-6	Applications
§4-162-7	Invoicing
§4-162-8	Grant amounts

§4-162-1 Definitions. As used in this chapter: "Department" means the department of agriculture. "Farming or ranching" means operations that grow, harvest, and pack fresh produce; or grow, harvest, pack, and hold fresh produce; or grow, harvest, manufacture and hold livestock feed for commercial sale purposes.

"FDA" means the federal Food and Drug Administration.

"FDA regulations" means title 21 of the Code of Federal Regulations, parts 112, 112, 117, and 507.

"FSMA" means the FDA Food Safety Modernization Act (P.L. 111-353).

"Program" means the Hawaii food safety certification costs grant program.

"HRS" means the Hawaii Revised Statutes.

"Good agricultural practices and good handling practices audits" means audits performed by a third party government agency or private company to verify that fruits and vegetables are produced, packed, handled, and stored as safely as possible to minimize risks of microbial food safety hazards.

"Produce Safety Alliance" means the collaboration between Cornell University, the FDA, and the USDA to prepare fresh produce growers to meet the regulatory requirements included in the FSMA's Produce Safety Rule.

"Food Safety Preventive Controls Alliance" means the collaboration between Illinois Institute of Technology and the FDA to help industry comply with the FSMA preventive controls rules for human and animal food.

"State" means the State of Hawaii.

"State food safety laws" means chapter 321, Hawaii Revised Statutes, and chapter 11-50, Hawaii Administrative Rules.

"USDA" means the United States Department of Agriculture. [Eff] (Auth: HRS §141-12.5) (Imp: HRS §141-12.5)

§4-162-2 Purpose of program. The purpose of the Hawaii food safety certification costs grant program is to provide grants to assist farmers or ranchers in meeting the costs of complying with the FSMA, FDA regulations, and state food safety laws. [Eff] (Auth: HRS §141-12.5) (Imp: HRS §141-12.5)

§4-162-3 Eligibility requirements. (a) To be eligible for a food safety certification costs grant, an applicant shall:

- (1) Be engaged in farming or ranching in the State as defined in this chapter; and
- (2) Be:
 - (A) An individual person residing in the State;

- (B) An institution of higher education in the State; or
- (C) A business entity having its principal place of business in the State with employees for whom the business is
 legally required to provide employee benefits.

[Eff] (Auth: HRS §141-12.5) (Imp: HRS §141-12.5)

§4-162-4 Eligible costs. (a) Grants shall be awarded to reimburse costs incurred for practices necessary for compliance with the FSMA, FDA regulations, or state food safety laws.

(b) Eligible costs may include:

- (1) Training
 - (A) Training recognized by the FDA to be equivalent to the Produce Safety Alliance's standardized curriculum;
 - (B) Training recognized by the FDA to be equivalent to the Food Safety Preventive Control Alliance's standardized curriculum;
 - (C) Training recognized by the FDA to comply with the hazard analysis and risk-based preventive controls for human foods rule;
 - (D) Training recognized by the FDA to comply with the hazard analysis and risk-based preventive controls for animal foods rule; and
 - (E) Preventive controls systems training emphasizing prevention of hazards before they occur, such as hazard analysis critical control point, or hazard analysis and risk-based preventive controls;
- (2) Water systems, sanitizer treatment supplies, and monitoring meters;
- Microbial testing of water, raw produce, or facility;

- (4) Personal hygiene equipment and supplies, including:
 - (A) Fixed or portable restroom, but not including septic systems or sewer connections;
 - (B) Rental of portable restroom including cleaning and disposal of waste;
 - (C) Hand washing sinks;
 - (D) Hand sanitizer and sanitizing stations;
 - (E) Worker protection clothing; and
 - (F) First aid kits;
- (5) Harvest and packing supplies to reduce food safety risks;
- (6) Costs associated with food and safety compliance in the production of livestock feed for resale, including forage grasses, hay, grains;
- (8) Wildlife fencing and pest deterrents and traps;
- (9) Good agricultural practices and good handling practices audit costs with a passing score;
- (11) Traceability software, tools, and supplies;
- (13) Food grade sanitizing solutions and detergents; and
- (15) Costs of other practices necessary for compliance with the FSMA, FDA regulations, or state food safety laws.

(c) Only costs that were incurred within five years prior to the time the application for the grant is received by the department shall be eligible for reimbursement. [Eff] (Auth: HRS §141-12.5) (Imp: HRS §141-12.5)

§4-162-5 Ineligible costs. Costs that are not eligible for reimbursement include but are not limited to:

- Costs that are not directly related to, and necessary for, compliance with the FSMA, FDA regulations, or state food safety laws;
- (2) Costs related to the general operation of the applicant's business;
- (3) Wages, compensation, or benefits for the applicant's employees;
- (4) Costs of travel, entertainment, or lobbying activities;
- (5) Costs of vehicles and related vehicle expenses;
- (6) Costs for which the applicant already has been or will be reimbursed;
- (7) Insurance costs; and
- (8) Costs incurred more than five years prior to the time the application for grant is received by the department.

[Eff] (Auth: HRS §141-12.5)

(Imp: HRS §141-12.5)

§4-162-6 Applications. (a) Each applicant for a food safety certification costs grant shall submit a signed, complete, accurate, and legible application, on a form provided by the department, and shall include the following:

- The applicant's name, and business name if different, mailing address, farm or ranch's physical address, phone number, and if applicable, electronic mail address;
- (2) If the applicant is an individual or partnership, the date of birth of the individual or partners;
- (3) Proof of compliance with the State's business registration, tax, and labor laws;
- (4) A photocopy of the applicant's general excise tax license;
- (5) A completed W-9 tax information form signed by the applicant;
- (6) Evidence of the implementation of farm food safety plan and practices, including photographs of equipment and their use;

- (7) Proof of third party audit of good agricultural practices or good handling practices; and
- (8) The applicant's agricultural operation details, including but not limited to:
 - (A) Acreage in production;
 - (B) Crops produced;
 - (C) Agricultural production experience;
 - (D) Food safety plan information;
 - (E) Farm size;
 - (F) Good agricultural practices certifications, if any;
 - (G) Applicable income categories, as specified by the FSMA; and

(b) The application shall also include applicant's acknowledgment and agreement to the following terms and conditions:

- (1) The applicant has the legal authority to authorize, and by submitting an application does authorize, the department to enter the applicant's place of business at reasonable times to inspect records, facilities, and the premises either in the processing of the application or in the administration of the grant;
- (2) The applicant certifies that all information and documents submitted in support of the application are correct and complete to the best of the applicant's knowledge;
- (3) The applicant has all licenses, permits, and other approvals required by federal, state, or county governmental entities to conduct its operations and implement the practices for which the grant is intended;
- (4) The applicant shall comply with all applicable federal and state laws prohibiting discrimination against any person on the basis of race, color, national origin, religion, creed, sex, age, sexual orientation, or disability; and
- (5) The applicant shall allow the State full access to its records, files, and other

related documents for the purpose of measuring the effectiveness, and ensuring the proper expenditures, of the grant.

(c) The department may require additional documentation to verify compliance with this chapter. Any incomplete application for a grant shall be denied. [Eff] (Auth: HRS §141-12.5) (Imp: HRS §141-12.5)

§4-162-7 Invoicing. (a) All applications shall be accompanied by invoices or receipts showing eligible costs incurred for practices necessary for compliance with the FSMA, FDA regulations, or state food safety laws.

(b) Invoices and receipts shall be original and shall include:

 The date of purchase, the vendor's name, mailing address, and phone number;

(2) An itemization of each good or service; and

(3) Verification of payment by the applicant.

(c) The department may require additional documentation to verify compliance with this chapter. [Eff] (Auth: HRS §141-12.5) (Imp: HRS §141-12.5)

§4-162-8 Grant amounts. (a) All grants are subject to available funding.

(b) Grant awards shall be made on a reimbursement, pro-rata basis out of the funds available for food safety certification costs grants.

(c) The maximum grant amount to any one applicant in a fiscal year shall not exceed \$5,000. [Eff] (Auth: HRS §141-12.5) (Imp: HRS §141-12.5)

8

2. The adoption of chapter 4-162, Hawaii Administrative Rules, shall take effect ten days after filing with the Office of the Lieutenant Governor.

I certify that the foregoing are copies of the rules, drafted in the Ramseyer format pursuant to the requirements of section 91-4.1, Hawaii Revised Statutes, which were adopted on Month xx, xxxx, and filed with Office of the Lieutenant Governor.

SCOTT'E. ENRIGHT Chairperson Board of Agriculture

APPROVED AS TO FORM

Attarearet She

Deputy Attorney General

IV. Old Business

B. Discussion and Action on the Small Business
Statement After Public Hearing and Proposed
Amendments to HAR Title 4 Chapter 71, Plant and
Non-Domestic Animal Quarantine, NonDomestic Animal Import Rules, promulgated by
DOA

SMALL BUSINESS STATEMENT "AFTER" PUBLIC HEARING TO THE

SMALL BUSINESS REGULATORY REVIEW BOARD

(Hawaii Revised Statutes (HRS), §201M-3)

Department or Agency: <u>Department of Agriculture, Plant Quarantine Branch</u>

Administrative Rule Title and Chapter: <u>Title 4, Chapter 71, Hawaii Administrative Rules</u>

Chapter Name: Plant and Non-Domestic Animal Quarantine, Non-Domestic Animal

Import Rules

Contact Person/Title: Christopher Kishimoto, Entomologist

Phone Number: (808) 832-0566

E-mail Address: christopher.m.kishimoto@hawaii.gov Date: July 9, 2018

- A. To assist the SBRRB in complying with the meeting notice requirement in HRS §92-7, please attach a statement of the topic of the proposed rules or a general description of the subjects involved. (See attachment A)
- B. Are the draft rules available for viewing in person and on the Lieutenant Governor's Website pursuant to HRS §92-7? Yes X No

(<u>If "Yes" please provide webpage address and when and where rules may be</u> viewed in person.) http://hdoa.hawaii.gov/meetings-reports/proposedar/

(Please keep the proposed rules on this webpage until after the SBRRB meeting.)

- I. Rule Description: New Repeal Amendment X Compilation X
- II. Will the proposed rule(s) affect small business? Yes No X (<u>If "No" you do</u> not need to submit this form.)

The proposed rule amendment to ban the import of "dangerous wild animals" for live performance in a circus or carnival, which was opposed by small business, was not approved by the Board of Agriculture following public hearings on the proposed amendments. So, in this regard, small business will not be affected.

Small business is expected to benefit from the rule amendment allowing import of Nile tilapia, *Oreochromus niloticus*, for commercial aquaculture. Nile tilapia is currently one of the most sought after finfish for freshwater aquaculture.

* "Affect small business" is defined as "any potential or actual requirement imposed upon a small business . . . that will cause a direct and significant economic burden upon a small business, or is directly related to the formation, operation, or expansion of a small business." HRS §201M-1

- * "Small business" is defined as a "for-profit enterprise consisting of fewer than one hundred full-time or part-time employees." HRS §201M-1
- III. Is the proposed rule being adopted to implement a statute or ordinance that does not require the agency to interpret or describe the requirements of the statute or ordinance? Yes No X (If "Yes" no need to submit this form.) (e.g., a federally-mandated regulation that does not afford the agency the discretion to consider less restrictive alternatives.) HRS §201M-2(d)
- IV. Is the proposed rule being adopted pursuant to emergency rulemaking? (HRS §201M-2(a)) Yes No X (If "Yes" no need to submit this form.)

I. Please explain how the agency involved small business in the development of the proposed rules.

The proposed rule amendment to allow import of Nile tilapia for commercial aquaculture was supported by small business entities that expressed interest in importing live Nile Tilapia (*Oreochromus niloticus*) for aquaculture and sale. These small businesses provided substantial input and participated in discussions and presented testimony at the advisory committee meetings and the November 24, 2015 and January 26, 2016, Board of Agriculture meetings on this subject.

Pursuant to section 91-3, Hawaii Administrative Rules, members of the public and members of the aquaculture community, including small businesses, gave oral and written testimony on the proposed rule amendments at public hearings held in each county in the State during the week of May 1-5, 2017.

a. Were there any recommendations incorporated into the proposed rules? If yes, explain. If not, why not?

Small businesses made no recommendations other than the proposed rule amendment to allow the importation of Nile tilapia for commercial aquaculture.

II. If the proposed rule(s) affect small business, and are not exempt as noted above, please provide the following information:

1. A description of how opinions or comments from affected small businesses were solicited.

See response under item I, above.

2. A summary of the public's and small businesses' comments.

Testimony in support of changing the list placement of Nile tilapia from the List of Restricted Animals (Part A) to the List of Restricted Animals (Part B) to allow Nile tilapia import for commercial aquaculture focused on the following: a reduced reliance on imported food, potential benefits to the aquaculture industry and State economy, and the Nile tilapia's claimed lesser invasiveness as compared to other tilapia species already established in Hawaii. Testimony against allowing Nile tilapia import for commercial aquaculture focused on concern about its potential invasiveness and potential impact on native aquatic flora and fauna if it were to escape or be released into the environment.

3. A summary of the agency's response to those comments.

HDOA did not receive any comments about the proposed amendments that required an agency response.

4. The number of persons who:

(i) Attended the public hearings:

Excluding HDOA staff, there were nineteen (19) attendees for all five hearings combined.

(ii) Testified at the hearings:

Nineteen (19) oral testimonies were received at the hearings, including from private individuals, persons testifying on behalf of state agencies such as the University of Hawaii, or Department of Land and Natural Resources, or persons testifying on behalf of environmental organizations, or public/private partnerships, and on behalf of small business. Eleven (11) attendees testified in favor of the proposed rule amendment to change the list placement of Nile tilapia to allow its import for commercial aquaculture. Four (4) attendees testified against this proposed rule amendment.

Four (4) attendees testified in favor of the proposed

rule amendment to change the list placement of house cricket (Acheta domesticus) to allow its import for use as feed for certain insectivorous animals at Honolulu Zoo. No one testified against this proposed rule amendment.

(iii) Submitted written comments:

A total of forty-one (41) written testimonies were received from private individuals, environmental organizations, and representatives of state agencies during the public comment period. Thirty-four individuals supported the proposed rule amendment to change the list placement of Nile tilapia to allow its import for commercial aquaculture, while seven (7) individuals submitted written testimony against this proposed rule amendment.

No written testimony was received for the proposed rule amendment to change the list placement of house crickets.

5. Was a request made at the hearing to change the proposed rule in a way that affected small business?

No change to the proposed rule amendments regarding Nile tilapia or house cricket was requested by testifiers or persons submitting written testimony at the public hearings.

(i) If "Yes" was the change adopted? Yes No

(ii) If No, please explain the reason the change was not adopted and the problems or negative result of the change.

* * *

Small Business Regulatory Review Board / DBEDT

Phone: (808) 586-2594 / Email: DBEDT.sbrrb.info@hawaii.gov

This statement may be found on the SBRRB Website at: <u>http://dbedt.hawaii.gov/sbrrb-impact-statements-pre-and-post-public-hearing</u>

Summary of Amendments to Chapter 4-71, Hawaii Administrative Rules, Entitled, <u>"Non-Domestic Animal Import Rules," Relating to Import Requirements For Non-</u> <u>Domestic Animals</u>

The proposed amendments to chapter 4-71, Hawaii Administrative Rules, as preliminarily approved by the Board of Agriculture (Board) on 11/24/15 and 1/26/16 are summarized below:

- 1. Section 4-71-1, Objectives: Adds "associated risks to animal and public health and safety" as an additional basis for restricting or prohibiting import of specific non-domestic animals.
- 2. Section 4-71-2, Definitions: Replaces the word "chairman" in the definition of "advisory subcommittee" with the word "chairperson" to conform to the correct term used elsewhere in chapter 4-71, HAR. Also replaces the word "municipal" in section 4-71-3.1, entitled "User permit fees", with the broader term, "government", to be consistent with amendments to section 4-71-6.5, HAR, entitled "Permitted introductions", regarding "government" zoos and "government use".
- 3. Section 4-71-3, Permits: Clarifies that violation of permit conditions may result in citation or in cancellation of a permit, or both.
- 4. Section 4-71-4.1, Maximum time period for permit approvals: Clarifies that short term special permits, as well as short-term permits for certain animals, not just for performing animals, must be processed within 120 days.
- 5. Section 4-71-5, Notice of quarantine: Adds "risk to animal or public health and safety" as another consequence of uncontrolled introduction of non-domestic animals, in addition to danger to agricultural and related industries.
- 6. Section 4-71-6.5 Permitted introductions:
 - a. Allows government agencies to import animals on the List of Conditionally Approved Animals, which includes animals allowed for import for individual possession, businesses, and institutions.
 - b. Expands the purposes for which animals on the List of Restricted Animals (Part B) may be imported, from currently allowed purposes (i.e., private and commercial use, including zoological parks, or aquaculture production) to include government use.

- c. Replaces the term "municipal" zoos with the broader term "government" zoos;
- d. Clarifies that, in addition to universities and government agencies, other institutions may import restricted list animals for research, and that universities and government agencies may import restricted list animals for medical and scientific purposes as well as for research, as determined by the Board of Agriculture.
- e. Clarifies that permits may be approved by the chairperson, as well as by the branch chief or Board of Agriculture, as specified by rules.
- f. Clarifies that site approval is required prior to the issuance of any permit issued for import of animals on the restricted lists and unlisted animals.
- g. Clarifies that the transfer or sale of unlisted animals under permit is allowed, provided the proposed transferee can satisfy conditions for transfer and obtain a permit for possession.
- h. Deletes Nile tilapia, Oreochromis niloticus, from the List of Restricted Animals (Part A) and adds this fish to the List of Restricted Animals (Part B) to allow its import for aquaculture production.
- Deletes house crickets, Acheta domesticus, from the List of Restricted Animals (Part A) and adds this insect to the List of Restricted Animals (Part B) to allow its import as feed for certain insectivorous zoo animals.
- 7. Section 4-71-7, Bond for certain animals: Deletes the word, "performing," to expand the bond requirement to any animal used in a circus, carnival, or commercial filming, as appropriate.

DEPARTMENT OF AGRICULTURE

Amendment and Compilation of Chapter 4-71, Hawaii Administrative Rules

September 26, 2017

SUMMARY

- 1. §§4-71-1 to 4-71-3.1 are amended.
- 2. §4-71-4.1 is amended.
- 3. §4-71-5 is amended.
- 4. §§4-71-6.5 to 4-71-7 are amended.
- 5. Chapter 71 is compiled.

Summary of Amendments to Chapter 4-71, Hawaii Administrative Rules, Entitled, <u>"Non-Domestic Animal Import Rules," Relating to Import Requirements For Non-</u> <u>Domestic Animals</u>

The proposed amendments to chapter 4-71, Hawaii Administrative Rules, as preliminarily approved by the Board of Agriculture (Board) on 11/24/15 and 1/26/16 are summarized below:

- 1. Section 4-71-1, Objectives: Adds "associated risks to animal and public health and safety" as an additional basis for restricting or prohibiting import of specific non-domestic animals.
- 2. Section 4-71-2, Definitions: Replaces the word "chairman" in the definition of "advisory subcommittee" with the word "chairperson" to conform to the correct term used elsewhere in chapter 4-71, HAR. Also replaces the word "municipal" in section 4-71-3.1, entitled "User permit fees", with the broader term, "government", to be consistent with amendments to section 4-71-6.5, HAR, entitled "Permitted introductions", regarding "government" zoos and "government use".
- 3. Section 4-71-3, Permits: Clarifies that violation of permit conditions may result in citation or in cancellation of a permit, or both.
- 4. Section 4-71-4.1, Maximum time period for permit approvals: Clarifies that short term special permits, as well as short-term permits for certain animals, not just for performing animals, must be processed within 120 days.
- 5. Section 4-71-5, Notice of quarantine: Adds "risk to animal or public health and safety" as another consequence of uncontrolled introduction of non-domestic animals, in addition to danger to agricultural and related industries.
- 6. Section 4-71-6.5 Permitted introductions:
 - a. Allows government agencies to import animals on the List of Conditionally Approved Animals, which includes animals allowed for import for individual possession, businesses, and institutions.
 - b. Expands the purposes for which animals on the List of Restricted Animals (Part B) may be imported, from currently allowed purposes (i.e., private and commercial use, including zoological parks, or aquaculture production) to include government use.

- c. Replaces the term "municipal" zoos with the broader term "government" zoos;
- d. Clarifies that, in addition to universities and government agencies, other institutions may import restricted list animals for research, and that universities and government agencies may import restricted list animals for medical and scientific purposes as well as for research, as determined by the Board of Agriculture.
- e. Clarifies that permits may be approved by the chairperson, as well as by the branch chief or Board of Agriculture, as specified by rules.
- f. Clarifies that site approval is required prior to the issuance of any permit issued for import of animals on the restricted lists and unlisted animals.
- g. Clarifies that the transfer or sale of unlisted animals under permit is allowed, provided the proposed transferee can satisfy conditions for transfer and obtain a permit for possession.
- h. Deletes Nile tilapia, Oreochromis niloticus, from the List of Restricted Animals (Part A) and adds this fish to the List of Restricted Animals (Part B) to allow its import for aquaculture production.
- Deletes house crickets, Acheta domesticus, from the List of Restricted Animals (Part A) and adds this insect to the List of Restricted Animals (Part B) to allow its import as feed for certain insectivorous zoo animals.
- 7. Section 4-71-7, Bond for certain animals: Deletes the word, "performing," to expand the bond requirement to any animal used in a circus, carnival, or commercial filming, as appropriate.

DEPARTMENT OF AGRICULTURE

Amendment and Compilation of Chapter 4-71, Hawaii Administrative Rules

September 26, 2017

SUMMARY

- 1. §§4-71-1 to 4-71-3.1 are amended.
- 2. §4-71-4.1 is amended.
- 3. §4-71-5 is amended.
- 4. §§4-71-6.5 to 4-71-7 are amended.
- 5. Chapter 71 is compiled.

Rules Amending Title 4

Hawaii Administrative Rules

September 26, 2017

1. Chapter 71 of Title 4, Hawaii Administrative Rules, entitled "Plant and Non-Domestic Animal Quarantine Non-Domestic Animal Import Rules" is amended and compiled to read as follows:

"HAWAII ADMINISTRATIVE RULES"

TITLE 4 DEPARTMENT OF AGRICULTURE

SUBTITLE 6 DIVISION OF PLANT INDUSTRY

CHAPTER 71

PLANT AND NON-DOMESTIC ANIMAL QUARANTINE

NON-DOMESTIC ANIMAL IMPORT RULES

Subchapter 1 General Provisions

\$4-71-1 Objective \$4-71-2 Definitions \$4-71-3 Permits \$4-71-3.1 User permit fees

§4-71-4	Submission of permit application to the
	board
\$4-71-4.1	Maximum time period for permit approvals,
	disapprovals, extensions, or automatic
	approvals
\$4-71-4.2	Public input and notification for listing
§4-71-4.3	Violations

Subchapter 2 Non-Domestic Animal Introductions

§4-71-5	Notice of quarantine
§4-71-6	Prohibited introductions
§4-71-6.1	Ad hoc panel for identification of
	prohibited hybrid animal
§4-71-6.5	Permitted introductions
§4-71-7	Bond for certain animals
§4-71-8	Bonding procedure
§4-71-9	Conditions for bonding
§4-71-10	Failure to comply with bond conditions

<u>Historical note</u>: Chapter 71 is based substantially upon Regulation 2 entitled "Concerning the Introduction of Feral and Other Non-Domestic Animals into Hawaii," of the Division of Entomology and Marketing, Department of Agriculture and Conservation [Eff. 12/12/41; am and ren. Regulation 2 8/30/47; am 9/16/60; R 7/13/81]; and Regulation 3 entitled "Concerning the Introduction of Bacteria, Fungi and Viruses into Hawaii," of the Division of Entomology, Board of Commissioners of Agriculture and Forestry [Eff. 12/12/41; am and ren. Regulation 3 8/30/47; R 7/13/81]

\$4-71-2

SUBCHAPTER 1

GENERAL PROVISIONS

\$4-71-1 Objective. The objective of this chapter is to implement the requirements of chapter 150A, Hawaii Revised Statutes, by restricting or prohibiting the importation of specific non-domestic animals that are detrimental to the agricultural, horticultural, and aquacultural industries, natural resources and environment of Hawaii, and on the basis of associated risks to animal or public health and <u>safety</u>. [Eff. 7/13/81; am and comp 9/19/91; comp 2/21/92; am and comp 9/13/93; comp 1/30/95; am and comp 8/16/99; am and comp 11/30/01; comp 4/06/07; am and comp] (Auth: HRS §\$141-2, 150A-9) (Imp: HRS §\$150A-6, 150A-7)

\$4-71-2 Definitions. As used in the chapter: "Advisory subcommittee" means one of the advisory subcommittees on entomology, invertebrate and aquatic biota, land vertebrates, algae, bacteria, fungi, protozoa, viruses, or plants appointed by the [chairman] <u>chairperson</u> pursuant to section 150A-10, HRS;

"Board" means the board of agriculture of the department of agriculture;

"Branch" means the plant quarantine branch;

"Chairperson" means the chairperson of the board of agriculture;

"Chief" means the chief or manager of the plant quarantine branch;

"Department" means the department of agriculture; "Non-domestic animal" means any animal, including mammals, birds, reptiles, amphibians, fishes and invertebrates, other than domestic dog (<u>Canis</u> <u>familiaris</u>), domestic cat (<u>Felis catus</u>), domestic horse (Equus caballus), domestic ass, burro, or donkey (Equus asinus), domestic cattle (Bos taurus and Bos indicus) including the beefalo (3/8 bison and 5/8 domestic cattle), domestic sheep (Ovis aries), domestic goat (Capra hircus), domestic swine (Sus scrofa domestica), domestic pot-bellied pig (Sus salvanis), domestic alpaca (Lama pacos), domestic llama (Lama glama), domesticated races of European rabbit (Oryctolagus cuniculus), domesticated races of chicken (Gallus gallus), domesticated races of turkeys (Meleagris gallopavo), domesticated races of pigeons (Columba domestica and Columba livia), domesticated races of muscovy ducks (Cairina moschata), domesticated races of greylag geese (Anser anser) and swan geese (Anser cygnoides), and domestic hybrids (crosses between two domestic animals). As used in this chapter, the term or word, "animal," shall mean "non-domestic animal"; ["]

"Permittee" means any person or agency that has applied for and been granted a permit for the introduction or possession of an animal under this chapter;

"Primate sanctuary" means a facility that provides permanent care, rehabilitation, and protection for donated, abandoned, or displaced primates, does not trade or sell primates for financial gain, and that maintains a 501(c) (3) notfor-profit federal tax-exempt status and any permits or licenses required by federal, state, or municipal laws; and

"Private use" means use for non-commercial purposes, such as non-profit research, and does not include individual possession of an animal as a pet. [Eff. 7/13/81; am and comp 9/19/91; am and comp 2/21/92; am and comp 9/13/93; comp 1/30/95; am and comp 8/16/99; am and comp 11/30/01; am and comp 4/06/07; am and comp] (Auth: HRS §\$141-2, 150A-9) (Imp: HRS §\$150A-6, 150A-6.2, 150A-7) **§4-71-3 Permits.** (a) All importation of animals shall be by permit. A permit application shall be submitted to the chief with an appropriate bond, if required in this chapter, and the following information:

- Name and address of shipper and importer, including mailing and street address;
- (2) Approximate number and kind (common and scientific name) of animal;
- (3) Sex, if determinable;
- (4) Object of importation;
- (5) Mode of transportation; and
- (6) Approximate date of arrival.

(b) The chief, without submitting the permit application to the board, may approve or disapprove the issuance of a permit based on a past board decision relating to the same species of animal and the respective conditions for importation previously established by the board for that animal species, provided that, if approved, the current import request is, in all essential respects, the same as the previously approved request and that the importer is able to comply with the previously established conditions.

(c) A permit application for an animal which was previously disapproved may be resubmitted for board action pursuant to section 4-71-4 upon determination by the chief that conditions for importation are significantly different from the previously disapproved request.

(d) A permit application for an animal allowed for import under these rules but not previously permitted entry by the board shall be submitted for board action pursuant to section 4-71-4.

(e) The chairperson, without submitting the permit application to the advisory committee on plants and animals and the board, may approve a short term permit <u>for animals on the conditionally approved or</u> <u>restricted lists</u>, or a short-term special permit for <u>unlisted animals</u>, not to exceed ninety days, for [performing animals] <u>performance or exhibition</u> in a circus, carnival, commercial filming for television or movies, or other performance, or exhibition when it has been determined that [the]:

- (1) The animals shall be adequately safeguarded under the control of professional trainers
- (2) or handlers [, provided that the animals]; The animals are not on the list of prohibited animals, [and further provided that an];
- (3) Appropriate permit conditions are established by the board; and
- (4) [an] <u>An</u> appropriate bond, if applicable, is secured with the department as required by sections 4-71-7 and 4-71-8.

The permittee shall comply with all permit (f) conditions established by the board. Violation of permit conditions may result in citation as provided in section 150A-12, HRS, or in cancellation of the permit, or both. Any violation of law or rule that calls into question the permittee's fitness to hold a permit, especially the likelihood of the permittee maintaining proper security and safeguarding for animals under the permittee's other permits, may result in cancellation of the permittee's other permits as well. [Eff. 7/13/81; comp 9/19/91; am and comp 2/21/92; am and comp 9/13/93; comp 1/30/95; am and comp 8/16/99; am and comp 11/30/01; am and comp 4/06/07; am and comp (Auth: 1 HRS §§141-2, 150A-9) (Imp: HRS §§150A-6.2, 150A-6.4, 150A-7)

§4-71-3.1 User permit fees. (a) A fee for the processing application and issuance of a permit is required as follows:

- Five dollars per permit for a single shipment within one year from date of issuance;
- (2) Fifty dollars per permit for unlimited shipments within one year from date of issuance; and
- (3) Fees shall be paid in full at the time of

request and are non-refundable except for an appropriate bond as required in this chapter.

(b) In addition to the requirements of subsection (a) herein, a fee for a site inspection as required in this chapter and by permit conditions shall be twenty-five dollars per inspection plus mileage reimbursement.

(c) For inspections requiring the services of personnel beyond official working hours, an additional fee shall be assessed which shall include applicable charges for overtime wages, fixed charges for personnel services, and meals if required.

(d) Fees may be waived by the chief for research by not-for-profit organizations, universities, or government agencies, or for exhibition in [municipal] government zoos or government-affiliated aquariums. [Eff and comp 8/16/99; am and comp 11/30/01; am and comp 4/06/07; am and comp] (Auth: HRS §\$141-2, 150A-9) (Imp: HRS \$150A-7.5)

§4-71-4 Submission of permit application to the

board. (a) The applicant shall provide the chief with the following additional information:

- (1) A statement of reasons for importation;
- (2) The person responsible for the animal;
- (3) A description of safeguarded facilities;
- (4) The method of disposition;
- (5) An abstract of the animal; and
- (6) Any other pertinent documented information as required by the branch on the proposed introduction.

(b) The applicant shall provide an adequate number of copies of the application and attachments as requested by the chief.

(c) The chief shall compile the information submitted by the applicant and send it to the members of the appropriate advisory subcommittee(s) for review. (d) The comments and recommendations of the advisory subcommittee(s) shall be compiled and sent to the advisory committee on plants and animals for review.

(e) The comments and recommendations of the advisory subcommittee(s), the advisory committee on plants and animals, including the committee's votes, and of the chief shall be compiled and submitted to the board at its regular scheduled meeting.

(f) The board shall take action to approve or disapprove the permit application. The board may impose permit conditions including but not limited to, health requirements, safeguarding the animal from escape, unauthorized release, or theft, as well as any applicable requirements of municipal, state, or federal law. [Eff. 7/13/81; comp 9/19/91; comp 2/21/92; am and comp 9/13/93; comp 1/30/95; am and comp 8/16/99; am and comp 11/30/01; comp 4/06/07; comp] (Auth: HRS §\$141-2, 150A-9) (Imp: HRS §\$150A-6.2, 150A-6.4, 150A-7)

§4-71-4.1 Maximum time period for permit approvals, disapprovals, extensions, or automatic approvals. (a) Pursuant to the requirements of chapter 91, HRS, the department shall establish the following maximum time periods for the processing of permit requests after acceptance of a completed permit application and payment of applicable fees pursuant to sections 4-71-3 and 4-71-3.1:

- (1) For same species of animals with respective conditions for importation previously established by the board, the chief may approve or disapprove the issuance of a permit within 90 days;
- (2) For certain [performing] animals in a circus, carnival, or commercial filming for television or movies, or other performance or exhibition, and with an appropriate bond secured with the department for each animal, the chairperson, without submitting the

permit application to the board, may approve or disapprove a short term permit <u>or short-</u> term special permit within 120 days;

- (3) For a permitted animal enumerated in section 4-71-6.5 that requires board action pursuant to section 4-71-4 to amend or establish permit conditions, the chief may approve or disapprove the issuance of a permit within 180 days; and
- (4) For an animal not previously permitted entry, excluding those animals enumerated in section 4-71-6, an application request must be submitted for board action pursuant to section 4-71-4 and subject to public input and notification for listing under section 4-71-4.2 or as provided by section 150A-6.2, HRS, the chief may approve or disapprove the issuance of a permit within one year.

(b) Notwithstanding the requirements of subsection (a) herein, the maximum period of time shall be extended indefinitely in the event of a national disaster, state emergency, or union strike, which prevents the department from fulfilling application or review requirements in a timely manner.

(c) Except as provided for in subsection (b), an application request for the issuance of a permit shall be given automatic approval if action is not taken by the department within the established maximum period of time as specified in subsection (a). After the expiration of the maximum time period is brought to the attention of the department; the department shall have a reasonable amount of time to issue the permit. This section shall apply only to application requests for business or development-related permits required by law to be obtained prior to the formation, operation, or expansion of a commercial or industrial enterprise. [Eff and comp 8/16/99; am and comp 11/30/01; am and comp 4/06/07; am and comp (Auth: HRS §§91-13.5, 141-2, 1 150A-9) (Imp: HRS §§91-13.5, 150A-6.2)

§4-71-4.2 Public input and notification for listing. (a) By order, the board may adopt additions to or deletions from the lists of animals without regard to the notice and public hearing requirements of chapter 91, HRS, provided that thirty days or more prior to the effective date of the order, the department shall issue a press release and mail notices to the Office of Environmental Quality Control for publication and to all persons who have made a timely written request of the department for advance notice of the order or the department's rulemaking proceedings. The press release and the notice shall include:

- A statement summarizing the substance of the proposed order which may include examples of the kinds of animals being added to or deleted from the lists required under section 150A-6.2, HRS;
- (2) A statement that a copy of the proposed order and the proposed exact changes will be mailed to any interested person who requests a copy upon payment in advance of costs for photocopying, preparing, and mailing the copy;
- (3) A statement as to where to obtain a copy of the proposed order and the proposed exact changes for inspection, or for pick-up after payment in full of costs for photocopying and preparing; and
- (4) A statement that the department is soliciting comments regarding the proposed order during the next thirty days, where comments may be forwarded to, and where the proposed order will be discussed.

(b) The department shall consider all oral and written comments and may incorporate the same in its review of the proposed order by the advisory committee on plants and animals in a noticed, public meeting.

(c) Upon approval by the board at a noticed, public meeting, the order to adopt additions to or deletions from the lists of animals shall take effect ten days after the department gives public notice of the order in a daily or weekly publication of statewide circulation or in separate daily or weekly publications whose combined circulation is statewide. [Eff and comp 8/16/99; am and comp 11/30/01; comp 4/06/07; comp] (Auth: HRS §\$141-2, 150A-9) (Imp: HRS \$150A-6.6)

\$4-71-4.3 Violations. Any person who violates any provision or requirement of this chapter or of any notice given pursuant thereto, shall be subject to the penalties provided for under section 150A-14, HRS. [Eff and comp 8/16/99; comp 11/30/01; comp 4/06/07; comp] (Auth: HRS §\$141-2, 150A-9) (Imp: HRS §\$150A-6.4, 150A-14)

SUBCHAPTER 2

NON-DOMESTIC ANIMAL INTRODUCTIONS

§4-71-5 Notice of quarantine. The board finds that there exists serious danger to the agricultural, horticultural, and aquacultural industries, natural resources, and environment of Hawaii, risk to animal or public health and safety, by the uncontrolled introduction of feral and other non-domestic animals. [Eff. 7/13/81; comp 9/19/91; comp 2/21/92; comp 9/13/93; comp 1/30/95; am and comp 8/16/99; comp 11/30/01; comp 4/06/07; am and comp] (Auth: HRS §§141-2, 150A-9) (Imp: HRS §§150A-6, 150A-6.2, 150A-7)

\$4-71-6 Prohibited introductions. (a) The introduction into Hawaii of live animals or live

non-domestic animals as defined in this chapter at any stage of development is prohibited except for those animals on the lists incorporated in §4-71-6.5, by permit, and except as provided by section 150A-6.2, HRS.

(b) The list of animals designated as prohibited entry pursuant to section 150A-6.2, HRS, dated November 28, 2006, and located at the end of this chapter is made a part of this section. No person shall introduce into Hawaii any animal from the list of prohibited animals. [Eff. 7/13/81; am and comp 9/19/91; am and comp 2/21/92; am and comp 9/13/93; am and comp 1/30/95; am and comp 8/16/99; am and comp 11/30/01; am and comp 4/06/07; comp] (Auth: HRS §\$141-2, 150A-9) (Imp: HRS §\$150A-6.2, 150A-7)

§4-71-6.1 Ad hoc panel for identification of Ad hoc panel for identification of prohibited hybrid animal. (a) The chairperson shall establish an ad hoc panel of no fewer than three members with applicable expertise in vertebrate biology to determine if an animal is a prohibited hybrid animal when the branch suspects that the lineage of the animal is not as stated by the owner or on other official documents.

(b) The ad hoc panel shall review all pertinent information including, but not limited to, expert consultations, health and pedigree certificates, owner's statements, branch findings, or viewings of the animal, to determine lineage of a suspect prohibited hybrid animal.

(c) After its review and determination the ad hoc panel shall report its findings to the branch, and appropriate action shall be taken by the branch on the disposition of the suspect hybrid prohibited animal.

(d) In any contested case arising out of the identification of a suspected hybrid animal, the method of identification selected by the ad hoc panel shall not be overturned absent evidence of actual bias

on the part of one or more of the ad hoc panel members or unless the method of identification lacks a scientific basis. [Eff and comp 8/16/99; comp 11/30/01; comp 4/06/07; comp] (Auth: HRS §§141-2, 150A-9) (Imp: HRS §§150A-6, 150A-6.2)

\$4-71-6.5 Permitted introductions. (a) The introduction into Hawaii of live animals or live non-domestic animals as defined in this chapter is only allowed:

- (1) For those animals on the list designated as conditionally approved and dated November 28, 2006, or on the list designated as restricted entry, dated [November 28, 2006] <u>September 26, 2017</u>, pursuant to section 150A-6.2, HRS, both of which lists are located at the end of this chapter and made a part of this section;
- (2) By permit approved by the board, <u>chairperson</u>, or chief, as appropriate, pursuant to sections 4-71-3 and 4-71-4; and
- (3) After securing appropriate bond for certain animals pursuant to sections 4-71-7, 4-71-8, and 4-71-9.

(b) Pursuant to the requirements of subsection (a) herein, the introduction of animals on the lists of conditionally approved or restricted animals is allowed as follows:

- Animals on the list of conditionally approved animals, for individual possession, businesses, <u>government agencies</u>, or institutions;
- (2) Animals on Part A of the list of restricted animals, for research, medical or scientific <u>purposes as determined by the board</u>, by universities, [or] government agencies, <u>or</u> <u>other institutions approved by the board</u>, <u>for exhibition in [municipal] government</u> zoos or government-affiliated aquariums, [for other institutions for medical or

scientific purposes as determined by the board], or for other purposes as specified in this chapter; and

(3) Animals on Part B of the list of restricted animals, for the purposes described in subsection (b) (2) herein or for <u>government</u> <u>use, or</u> private and commercial use, including research, zoological parks, or aquaculture production, except that animals in the order Primates shall not be allowed for import or possession for private or commercial use other than for purposes described in subsection (b) (2) or for primate sanctuaries, as determined by the board.

(c) The introduction of unlisted animals for the purpose of remediating medical emergencies or agricultural or ecological disasters, or conducting scientific research that is not detrimental to agriculture, the environment, or humans is allowed for import and possession by a special permit on a caseby-case basis, if the importer can meet permit requirements or other guidelines as determined by the board pursuant to section 150A-6.2, HRS.

(d) The introduction of unlisted animals for the purpose of filming, performance, or exhibition is allowed by short-term special permit on a case-by-case basis not to exceed 90 days for importation and possession if the importer can meet permit and bonding requirements as determined by the board pursuant to section 150A-6.2, HRS.

(e) The permittee shall obtain [prior] site approval <u>prior to the issuance of a permit</u> for animals on the list of restricted animals and for unlisted animals [under special permit] as determined by the board.

(f) Restricted list animals and unlisted animals [under special permit as determined by the board] require a permit for both import and possession. Where a permit for a restricted list animal <u>or an</u> <u>unlisted animal</u> allows transfer or sale, the proposed transferee shall first obtain a permit for possession of the <u>imported</u> animal by application to the chief, site inspection approval, and [satisfaction of] <u>shall</u> <u>satisfy</u> any bond or other requirements applicable.

(g) The board may establish permit conditions including but not limited to, time, place, location, use, special precautions, health requirements, and safeguarding the animal from escape, unauthorized release, or theft, as well as any applicable requirements of municipal, state, or federal laws. The permittee shall comply with the requirements of this chapter, chapter 150A, HRS, and specific permit conditions established by the board. [Eff. and comp 2/21/92; am and comp 9/13/93; am and comp 1/30/95; am and comp 8/16/99; am and comp 11/30/01; am and comp 4/06/07; am and comp 11/30/01; am and comp §\$141-2, 150A-9) (Imp: HRS \$150A-6.2)

§4-71-7 Bond for certain animals. The applicant shall secure an appropriate bond, as specified in this chapter, for the following:

- Monkeys, apes, baboons, chimpanzees, gibbons, lemurs, pottos, wallabies, and any other animal that the board or chairperson may require to be bonded as a condition for importation or possession;
- (2) Any offspring of bonded animals; and
- (3) Certain [performing] animals in a circus, carnival, commercial filming for television or movie productions, or other performance or exhibition under short-term <u>or short-term</u> <u>special permit</u> that have been permitted entry by the chairperson without advisory committee review and board action pursuant to section 4-71-3(e), or certain unlisted animals that have been permitted entry by the board under special permit pursuant to section 150A-6.2, HRS. [Eff. 7/13/81; am and comp 9/19/91; comp 2/21/92; am and comp 9/13/93; comp 1/30/95; am and comp 8/16/99; am and comp 11/30/01; am and comp 4/06/07;

am and comp] (Auth: HRS §§141-2, 150A-9) (Imp: HRS §§150A-6.2, 150A-7)

§4-71-8 Bonding procedure. (a) When required in this chapter, the bonding of animals shall be by cashier's check, or cash secured with the department.

(b) An appropriate individual bond shall be secured with the department for the sum of three thousand dollars for each animal except as provided for in subsection (c).

(c) An appropriate individual bond shall be secured with the department for the sum of two thousand dollars for each animal for owners holding valid United States Department of Agriculture licenses under the Animal Welfare Act.

(d) A cashier's check or cash secured with the department as a bond, shall be returned to the owner without interest, upon verification of the death or exportation of the animal, or the transfer or sale of the animal to a new owner who has secured the necessary bond and permit in advance of the transfer.

(e) Government organizations, such as municipal zoos, and animal sanctuaries determined by the United States Internal Revenue Service to be not-for-profit entities are exempt from the bonding requirements of this section. [Eff. 7/13/81; am and comp 9/19/91; comp 2/21/92; am and comp 9/13/93; comp 1/30/95; am and comp 8/16/99; am and comp 11/30/01; am and comp 4/06/07; comp] (Auth: HRS §\$141-2, 150A-9) (Imp: HRS §\$150A-6.2, 150A-7)

\$4-71-9 Conditions for bonding. An owner, dealer, or organization shall import and maintain bonded animals under the following conditions: (1) The owner, dealer, or organization shall

submit information to the chief with respect

to the number, sex, if determinable, and species of animal;

- (2) The animal shall be kept in captivity and as required by permit conditions at all times;
- (3) The chief shall be notified immediately upon the escape of any bonded animal;
- (4) The chief shall be notified immediately upon the death of the bonded animal and the carcass shall be presented immediately to the state veterinarian or his designate for examination and verification;
- (5) Out-of-state movement of a bonded animal shall be verified by an inspector in advance of the movement and after prior arrangements for verification have been made with the chief;
- (6) An animal may be sold or given away in Hawaii only to persons who have secured an appropriate bond with and acquired a permit from the department prior to the sale or transfer;
- (7) A bond or cashier's check in the appropriate amount required under section 4-71-8 shall be kept in full force and effect;
- (8) The owner, dealer, or organization shall report to the chief the birth of and secure an appropriate bond and permit for any offspring within thirty calendar days of the birth;
- (9) The owner, dealer, or organization shall report to the chief any change of mailing address and related contact information within seven business days of the change; and
- (10) The owner, dealer, or organization possessing a valid United States Department of Agriculture license under the Animal Welfare Act shall report to the chief any suspension, revocation, or expiration of the required federal license within seven business days of the license status change. [Eff. 7/13/81; am and comp 9/19/91; comp

\$4-71-10

2/21/92; comp 9/13/93; comp 1/30/95; am and comp 8/16/99; am and comp 4/06/07; comp] (Auth: HRS §\$141-2, 150A-9) (Imp: HRS §\$150A-6.2, 150A-7)

\$4-71-10 Failure to comply with bond conditions. (a) The department may seize the bonded animal, and foreclose on the bond or retain such sums secured by cash or cashier's check upon failure of the owner to comply with the bonding conditions in section 4-71-9.

(b) Should the bonded animal escape, the owner shall take necessary action to recapture the animal. If the owner fails to recapture the animal within one week after escape or when the animal becomes a nuisance or poses a serious threat to the community, the department may employ its resources to recapture the animal after due notice to the owner. The owner shall be held responsible for the cost incurred by the department.

(c) Any bonded animal that is captured after escape or seized pursuant to section 4-71-10 may be sold at a private sale, shipped out state, donated to a government agency, or destroyed no sooner than fifteen days after cancellation of the bond." [Eff 7/13/81; am and comp 9/19/91; comp 2/21/92; am and comp 9/13/93; comp 1/30/95; am and comp 8/16/99; am and comp 4/06/07; comp] (Auth: HRS §\$141-2, 150A-9) (Imp: HRS §\$150A-6.2, 150A-7)

2. Material, except source notes, to be repealed is bracketed. New material is underscored.

3. Additions to update source notes to reflect these amendments and compilation are not underscored.

4. These amendments to and compilation of chapter 4-71, Hawaii Administrative Rules, shall take

effect ten days after filing with the Office of the Lieutenant Governor.

I certify that the foregoing are copies of the rules, drafted in Ramseyer format pursuant to the requirements of section 91-4.1, Hawaii Revised Statutes, which were adopted on September 26, 2017 and filed with the Office of the Lieutenant Governor.

> SCOTT E. ENRIGHT Chairperson, Board of Agriculture

APPROVED AS TO FORM:

Deputy Attorney General

LIST OF PROHIBITED ANIMALS

November 28, 2006

SCIENTIFIC NAME

COMMON NAME

INVERTEBRATES

PHYLUM Annelida CLASS Polychaeta ORDER Phyllodocida FAMILY Glyceridae Glycera americana

bloodworm

PHYLUM Arthropoda CLASS Crustacea ORDER Decapoda FAMILY Coenobitidae Coenobita clypeatus

FAMILY Potamidae Potamidae (all species in family) crab, land hermit

crabs, freshwater

CLASS Insecta ORDER Hymenoptera FAMILY Apidae Apis mellifera

ORDER Lepidoptera FAMILY Tortricidae Cydia deshaisiana bee, honey (alive or dead)

moth, Mexican jumping bean

PHYLUM Cnidaria CLASS Cubozoa ORDER Cubomedusae FAMILY Chirodropidae Chirodropidae (all species in jellyfishes family)

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SCIENTIFIC NAME

COMMON NAME

PHYLUM Mollusca CLASS Bivalvia ORDER Veneroida FAMILY Corbiculidae Corbicula fluminea

clam, freshwater (shijimi)

CLASS Cephalopoda ORDER Octopoda FAMILY Octopobidae Octopus maculosus Octopus maya

octopus, Australian octopus

AMPHIBIANS

PHYLUM Chordata CLASS Amphibia ORDER Caudata FAMILY Amphiumidae	
Amphiuma (all species in genus)	salamanders
FAMILY Proteidae <u>Necturus</u> (all species in genus)	salamanders
FAMILY Sirenidae <u>Pseudobranchus</u> <u>striatus</u> <u>Siren intermedia</u> <u>Siren lacertina</u>	salamander, dwarf siren, lesser siren, greater
ORDER Salientia (Anura) FAMILY Dendrobatidae <u>Phyllobates</u> (all species in genus)	frogs
FAMILY Hylidae <u>Hyla septentrionalis</u>	treefrog, Cuban

FAMILY Pipidae Pipidae (all in family, except the following species for research and exhibition by government agencies: <u>Pipa pipa</u> (toad, surinam) and Xenopus laevis (frog, African clawed)

§4-71-6

SCIENTIFIC NAME

COMMON NAME

REPTILES

CLASS Reptilia	
ORDER Squamata	
Serpentes (all species in	snakes
suborder, except for two	
male nonvenomous snakes for	
exhibition in a government zoo,	
and for four sterile male brown	
tree snakes, <u>Boiga</u> <u>irregularis</u> ,	
for research or training of snake	
detector dogs by the department)	
FAMILY Helodermatidae	
<u>Heloderma</u> sp.	gila monster

FISHES

CLASS Chonodrichthyes ORDER Carcharhiniformes FAMILY Carcharhinidae Carcharhinus <u>nicaraguensis</u>	shark, Nicaraguan freshwater
ORDER Myliobatiformes FAMILY Dasyatidae Dasyatidae (all species in family)	stingrays, freshwater
ORDER Orectolobiformes FAMILY Orectolobidae <u>Orectolobus maculatus</u> <u>Orectolobus ornatus</u>	shark, spotted carpet; (shark, wobbegong) shark, banded carpet
ORDER Petromyzoniformes FAMILY Petromyzonidae	

FAMILY Petromyzonidae Petromyzonidae (all species in lampreys family)

PROHIBITED ANIMAL LIST

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SCIENTIFIC NAME	COMMON NAME
CLASS Osteichthyes ORDER Amiiformes FAMILY Amiidae Amiidae (all species in family)	bowfins; dogfishes; mudfishes
ORDER Anguilliformes Anguilliformes (all species in order)	eels
ORDER Atheriniformes FAMILY Atherinidae Atherinomorus <u>stipes</u>	silversides, hardhead
FAMILY Belonidae Belonidae (all species in family)	needlefishes
FAMILY Hemirhamphidae Hemirhamphidae (all species in family, except <u>Dermogenys pusillus</u> and <u>Nomorhamphus celebensis</u>)	halfbeaks
FAMILY Poeciliidae <u>Belonesox</u> <u>belizanus</u>	top minnow, pike
ORDER Cypriniformes FAMILY Characidae <u>Acestrorhynchus</u> (all species	cachorros
in genus) <u>Catoprion</u> (all species in genus) <u>Hydrolycus</u> (all species in genus)	piranha characins
<u>Pygocentrus</u> (all species in genus) Serrasalminae (all species in subfamily except the species in the following genera: <u>Colossoma</u> , pacu; <u>Metynnis</u> , silver dollar; <u>Myleus</u> , silver dollar; <u>Myloplus</u> , myloplus; and <u>Mylossoma</u> , pacu) Serragalma (all species in genus)	piranha
<u>Serrasalmo</u> (all species in genus) <u>Serrasalmus</u> (all species in genus)	piranha piranha

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SCIENTIFIC NAME	COMMON NAME
FAMILY Gymnotidae Electrophorus electricus	eel, electric
ORDER Myctophiformes FAMILY Synodontidae <u>Synodus</u> (all species in genus)	lizard fishes
ORDER Osteoglossiformes FAMILY Osteoglossidae Arapaima gigas	pirarucu
ORDER Perciformes FAMILY Channidae Channidae; (Ophiocephaloidae) (all species in family, except <u>Ophiocephalus</u> striatus)	snake heads
FAMILY Cichlidae <u>Batrachops</u> (all species in genus) <u>Crenicichla</u> (all species in genus)	cichlid, pike cichlid, pike
FAMILY Eleotrididae <u>Dormitator maculatus</u> <u>Eleotris</u> (all species in genus) <u>Mogurnda</u> mogurnda	sleeper, spotted sleepers gudgeon, purple striped
FAMILY Sciaenidae <u>Pogonias cromis</u> <u>Sciaenops ocellatus</u>	drum, black drum, red
FAMILY Sparidae <u>Pagrus</u> <u>major</u>	bream, red sea
ORDER Polypteriformes FAMILY Polypteridae Polypteridae (all species in family)	fishes, bichir
ORDER Scorpaeniformes FAMILY Scorpaenidae <u>Amblyapistus taenianotus</u> <u>Dendrochirus zebra</u> <u>Inimicus didactylum</u> <u>Paracentropogon longispinis</u> <u>Pterois</u> (all species in genus) <u>Scorpaena</u> (all species in genus)	rouge fish lion fish, zebra sea goblin, popeyed scorpion fish, wispy lion fishes scorpion fishes

PROHIBITED ANIMAL LIST

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SCIENTIFIC NAME COMMON NAME Scorpaenodes (all species in scorpion fishes genus) stone fish Synanceia horrida stone fish Synanceia verrucosa leaf fish, sailfin Taenianotus triacanthus ORDER Semionotiformes FAMILY Lepisosteidae Lepisosteidae (all species in garpikes family) ORDER Siluriformes FAMILY Ariidae Ariidae (all species in family) catfishes, ariid FAMILY Bagridae catfish, black lancer Bagrichthys hypselopterus <u>Bagrichthys hypselopterus</u> Clarotes (all species in genus) catfishes, clarotes FAMILY Clariidae Clariidae (all species in catfishes family, except Clarias fuscus) FAMILY Doradidae Doradidae (all species in catfishes, doradid family) FAMILY Malapteruridae catfish, electric Malapterurus electricus FAMILY Pimelodidae Phractocephalus hemiliopterus catfish, redtailed Pseudopimelodus transmontanus catfish, Peruvian mottled catfish, tiger shovelnose Pseudoplatystoma fasciatum FAMILY Plotosidae Plotosidae (all species in eels, catfish family) FAMILY Siluridae Wallago attu catfish, helicopter FAMILY Trichomycteridae Vandellia cirrhosa candiru

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SCIENTIFIC NAME

COMMON NAME

ORDER Synbranchiformes		
FAMILY Synbranchidae		
Synbranchus afer	moray,	freshwater
Synbranchus marmoratus	moray,	freshwater

BIRDS

(Taxonomy after Sibley and Monroe 1990)

CLASS Aves ORDER Apodiformes FAMILY Trochilidae	
Trochilidae (all species in family, except sexually dimorphic males for exhibition in government zoos only)	hummingbirds

ORDER Columbiformes	
FAMILY Columbidae	
<u>Alectroenas</u> (all species in	pigeons, fruit
genus)	
<u>Cryptophaps</u> (all species in	pigeons, fruit
genus)	
<u>Drepanopila</u> (all species in	doves, fruit
genus)	
<u>Gymnophaps</u> (all species in	pigeons, fruit
genus)	
<u>Hemiphaga</u> (all species in	pigeons, fruit
genus)	
Lopholaimus (all species in	pigeons, fruit
genus)	
Phapitreron (all species in	doves, fruit brown
genus)	
<u>Sphenurus</u> (all species in	pigeons, fruit
genus)	
<u>Treron</u> (all species in	pigeons, green fruit
genus)	

ORDER Galliformes	
FAMILY Cracidae	
Crax alector	curassow, crested
Crax rubra	curassow, greater (Mexican)
FAMILY Tetraonidae	
Bonasa umbellus umbellus	grouse, ruffed

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SCIENTIFIC NAME

COMMON NAME

ORDER Passeriformes FAMILY Coerebidae Coerebidae (all species in family) FAMILY Corvidae Corvus brachyrhynchos Corvus cornix Corvus corone Corvus frugilegus Pica (all species in genus) FAMILY Dicaeidae Dicaeum (all species in genus) flowerpeckers FAMILY Emberizidae Emberiza citrinella FAMILY Estrildidae Aegintha temporalis Chloropsis hardwickii <u>Estrilda</u> <u>subflava</u> <u>subflava</u> (Females only) Lagonosticta rara Lonchur<u>a</u> castaneothorax Lonchura striata Mandingoa nitidula Padda oryzivora Poephila cincta <u>cincta</u> Poephila personata Spermophaga haematina Steganopleura guttata FAMILY Fringillidae Cardinalis phoeniceus Carduelis chloris Fringilla coelebs

Pyrenestes sanguineus

<u>Pyrrhula pyrrhula (=europosa)</u> Sporophila torqueola

Zonaeginthus bellus

honeycreepers crow, common crow, hooded crow, carrion crow, rook magpies bunting, yellow (yellow hammer) finch, Sydney waxbill (redbrowed) chloropsis, Hardwick's (orangebellied) finch, goldbreasted (orangebreasted) finch (waxbill), blackbellied fire finch, chestnut breasted mannikin, striated; (munia, white back) finch, greenbacked twinspot sparrow, Java (white and gray) finch, parson blackthroated finch, masked finch, bluebill finch, diamond; (sparrow, diamond)

cardinal, vermilion greenfinch European chaffinch finch, seedcracker (crimson) bullfinch, common finch, whitecollared seedeater finch, firetail

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SCIENTIFIC NAME COMMON NAME FAMILY Ibididae Hesperiphona (all species in sugarbirds genus) FAMILY Icteridae Turdus merula black bird, European Turdus viscivorus thrush, mistle FAMILY Meliphagidae Meliphagidae (all species in honeyeaters family) FAMILY Nectariniidae Nectariniidae (all species in sunbirds family) FAMILY Oriolidae oriole, northern South Gymnomystax melanicterus American FAMILY Ploceidae Foudia madagascariensis weaver, Madagascar fody sparrow, house Passer domesticus Ploceus philippinus weaver baya FAMILY Pycnonotidae Pycnonotus (all species in bulbuls genus) Hysipetes (all species in bulbuls genus) FAMILY Sturnidae Acridotheres (all species in mynas genus) Gracupica nigricollis myna, blacknecked (blackheaded) Sturnus (all species in starlings genus, except the following one species for exhibition in government zoos only: Sturnus nigricollis (starling, black collared) FAMILY Thraupidae Thraupidae (all species in tanagers family, except males only of the following three species for exhibition in government zoos only: Piranga olivacea (tanager, scarlet);

Ramphocelus dimidiatus (tanager,

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SCIENTIFIC NAME

COMMON NAME

crimson-backed); Thraupis
episcopus (tanager, blue-grey))

FAMILY Zosteropidae Zosterops erythropleura

white eye, chestnutflanked

ORDER Piciformes FAMILY Rhamphastidae

Rhamphastidae (all in family, except the following nine species for exhibition in government zoos only: <u>Pteroglossus beauharnaesii</u> (aracari, curlcrested); <u>Rhamphastos ambiguus swainsonii</u> (toucan, bicolor); <u>Ramphastos toco cuvieri</u> (toucan, Cuvier's); <u>Ramphastos</u> <u>discolorus</u> (toucan, redbreasted); <u>Ramphastos sulfuratus sulfuratus</u> (toucan, sulfurbreasted); <u>Ramphastos toco toco</u> (toucan, toco); <u>Ramphastos vitellinus ariel</u> (toucan, ariel); <u>Ramphastos vitellinus</u> <u>vitellinus</u> (toucan, sulphur and white breasted); and <u>Selenider</u> maculirostris (toucanet, spot-billed)

ORDER Psittaciformes FAMILY Loriidae

Loriidae (all in family, except the following nine species for exhibition in government zoos only: <u>Chalcopsitta sintillata</u> (lory, streaked); <u>Eos bornea</u> (lory, red); <u>Eos squamata</u> (lory, velvetnecked); <u>Charmosyna papou golinthina</u> (lory, Stella's); <u>Lorius lory</u> (lory, blackcapped); <u>Trichoglossus haematodus</u> (lory, rainbow); <u>Trichoglossus johnstoniae</u> (lorikeet, Johnstone's); <u>Trichoglossus ribiginosus</u> (lory, Ponape); and <u>Vini peruviana</u> (lory, Tahitian))

FAMILY Psittacidae parrot, Aztec dwarf; Aratinga nana astec (conure, Aztec) Bolbopsit<u>tacus</u> <u>lunulatus</u> parakeet, guaiabero parakeet, goldenwinged Brotogeris chrysopterus parakeet, greycheeked Brotogeris pyrrhopterus parrot, bee bee; (Tui) Brotogeris sanctithomae parakeet, canarywinged Brotogeris versicolorus Forpus (all species in parrolets; (dwarf, parrot) genus) Loriculus (all in genus, except the following two species for exihibition in government zoos only: Loriculus galgulus (parrot, bluecrowned); and Loriculus philippensis (parrot, Philippine hanging)) Micropsitta (all species in genus) parrots, pygmy; (dwarf, parrot) Myiopsitta monachus parakeet, monk (quaker) <u>Opopsitta</u> (all species in parrots, fig genus)

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SCIENTIFIC NAME

COMMON NAME

Pionites	leucogaster	caique,	whitebellied
Pionites	melanocephala	caique,	blackheaded

MAMMALS

PHYLUM Chordata	
(crosses with prohibited	animals, hybrid; (all
species)	hybrid-crosses where one
	or both parents are
	prohibited)

dog, hybrid; (all hybrid-Canis familiaris crossed with wolf, coyote, dingo, crosses where one or both jackal, fox, dhole, African parents are prohibited or restricted) etc.

Felis catus crossed with lynx, ocelot, margay, puma, jaguarandi, bobcat, parents are prohibited or restricted)

CLASS Mammalia ORDER Chiroptera Chiroptera (all species in order)

FAMILY Pteropodidae Pteropus (all species in genus)

ORDER Lagomorpha FAMILY Leporidae Lepus (all species in qenus)

hares, wild

foxes, flying

bats

cat, hybrid; (all hybrid-

crosses where one or both

ORDER Rodentia FAMILY Cricetidae Cricetidae (all in family, except the following five species for research by government agencies only: Cricetulus griseus (mouse, Chinese); Gerbillus gerbillus (gerbil); Mesocricetus auratus (hamster); Meriones unguiculatus (gerbil); and Sigmondon hispidus (rat, cotton))

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SCIENTIFIC NAME

COMMON NAME

FAMILY Erethizontidae	
Chaetomys subspinosus	porcupine, thin-spined
Coendou (all species in genus)	<pre>porcupines, prehensile-tailed</pre>
Echinoprocta rufescens	porcupine
FAMILY Hystricidae	
Atherurus (all species in genus)	porcupines, brush-tailed
Hystrix (all in genus, except following	g species for exhibition in
government zoos only: Hystrix cristata	a (porcupine, African
crested))	
Thecurus (all species in genus)	porcupines
Trichys (all species in genus)	porcupines, long-tailed
FAMILY Sciuridae	

Sciuridae (all in family, except the following two species for exhibition in government zoos only: <u>Callosciurus prevosti</u> (squirrel, prevost's) and <u>Sciurus variegatoides</u> (squirrel, variegated) and except all species in the genus <u>Marmota</u> for research in government universities only)

LIST OF CONDITIONALLY APPROVED ANIMALS

November 28, 2006

SCIENTIFIC NAME

COMMON NAME

crab, horsehair

crab, Jonah crab, dungeness

crab, California rock

crab, yellowstone

crab, rock (red)

INVERTEBRATES

PHYLUM	Annelida		
CLASS	Oligochaeta		
ORDI	ER Plesiopora		
FZ	AMILY Tubificidae		
Tubifex	(all species in genus)	worm,	tubifex

PHYLUM Arthropoda CLASS Crustacea ORDER Anostraca FAMILY Artemiidae <u>Artemia</u> (all species in genus) shrimp, brine

ORDE	R C	ladocera				
FA	MILY	Daphnio	dae			
Daphnia	(all	species	in	genus)	flea,	water

ORDER Decapoda FAMILY Atelecyclidae Erimacrus isenbeckii

FAMILY Cancridae <u>Cancer</u> antennarius <u>Cancer</u> anthonyi <u>Cancer</u> borealis <u>Cancer</u> magister <u>Cancer</u> productus

FAMILYGeryonidaeGeryonaffiniscrab, goldenFAMILYLithodidaeParalithodescamtschaticacrab, Alaskan kingFAMILYMajidaecrab, snowChionocetesbairdicrab, snowChionocetesopiliocrab, snow

SCIENTIFIC NAME

COMMON NAME

lobster, true

shrimp, freshwater

crayfish, saltwater; lobster

lobster, spiny

crab, blue

swimming

Hawaiian

prawn, giant long-legged

lobster, Atlantic spiny

crab, Samoan; serrate,

crab, spanner; red frog,

crab, snow

Chionocetes tanneri

FAMILY Nephropidae Homarus (all species in genus)

FAMILY Palaemonidae Macrobrachium lar Macrobrachium rosenbergi

FAMILY Palinuridae Jasus (all species in genus)

Panulirus argus Panulirus longipes femoristriga crayfish, saltwater Panulirus pencillatus

FAMILY Portunidae Callinectes sapidus Scylla serrata

FAMILY Raninidae Ranina ranina

CLASS Insecta ORDER Coleoptera FAMILY Tenebrionidae Tenebrio molitor

ORDER Diptera FAMILY Drosophilidae Drosophila melanogaster

fly, pomace

mealworm, yellow

PHYLUM Cnidaria CLASS Hydrozoa ORDER Hydroida FAMILY Hydridae <u>Hydra</u> (all species in genus)

hydra

SCIENTIFIC NAME

COMMON NAME

clam, soft shell

PHYLUM Echinodermata CLASS Echinoidea ORDER Echinoida FAMILY Strongylocentrotidae <u>Strongylocentrotus</u> drobachiensis <u>Strongylocentrotus</u> franciscanus <u>Strongylocentrotus</u> purpuratus sea urchin

CLASS Holothuroida			
ORDER Dactylochirotida			
FAMILY Stichopodidae			
Stichopus californicus	sea	cucumber	
Stichopus japonicus	sea	cucumber,	Japanese

PHYLUM Mollusca	
CLASS Bivalvia	
ORDER Myoida	
FAMILY Hiatellidae	
Panope generosa	clam, king (geoduck)

FAMILY Myidae <u>Mya</u> <u>arenaria</u>

ORDER Mytiloida		
FAMILY Mytilidae		
Mytilus edulis	mussel,	sea
Mytilus edulis galloprovincialis	mussel,	Mediterranean
Perna canaliculus (viridis)	mussel,	green lipped

ORDER Ostreoida FAMILY Ostreidae <u>Ostrea</u> (all species in genus) oyster oyster

FAMILY PectinidaeArgopecten irradiansscallops, bayChlamys hastatascallop, spinyChlamys rubidascallop, pinkPecten caurinusscallop, weathervane

SCIENTIFIC NAME COMMON NAME ORDER Veneroida FAMILY Cultellidae clam, razor Siliqua patula FAMILY Mactridae Mactromeris polynyma clam, Stimpson's surf Spisu<u>la</u> <u>solidissima</u> clam, east coast surf Tresus capax clam, horse Tresus nuttalli clam, horse FAMILY Mesodesmatidae Paphies australis clams, New Zealand pipi Paphies donacina clam, tuatua Paphies subtriangulata clams, tuatua FAMILY Veneridae Chione stutchburyi Mercenaria mercenaria cockle, New Zealand clam, littleneck Tapes semidecussata clam Venerupis japonicus clam Venus mercenaria clam, quahog CLASS Gastropoda ORDER Archaeogastropoda FAMILY Haliotidae Haliotis (all species in genus) abalone ORDER Basommatophora FAMILY Lymnaeidae Radix auricularia snail, European freshwater FAMILY Physidae Physa (all species in genus) snail, freshwater FAMILY Planorbidae Helisoma(all species in genus)snail, ramshornPlanorbis(all species in genus)snail, ramshorn ORDER Mesogastropoda FAMILY Littorinidae Littorina palliata periwinkle; snail, sea

SCIENTIFIC NAME

FAMILY Strombidae Strombus gigas

FAMILY Viviparidae Cipangopaludina chinensis

PHYLUM Nemata (=Nematoda) CLASS Secernentea ORDER Rhabditida FAMILY Rhabditidae Caenorhabditis elegans

FAMILY Steinernematidae Steinernema carpocapsae

PHYLUM Platyhelminthes CLASS Trematoda ORDER Plagiorchiida FAMILY Dicrocoeliidae Dicrococoelium dentriticum

trematode

CLASS Turbellaria ORDER Tricladida FAMILY Planariidae Planaria planaria

PHYLUM Rotifera CLASS Monogononta

ORDER Ploima Family Brachionidae Brachionus (all species in genus) rotifer

COMMON NAME

conch, queen

snail, Chinese freshwater

nematode

nematode, entomogenous

SCIENTIFIC NAME

COMMON NAME

AMPHIBIANS

PHYLUM Chordata CLASS Amphibia ORDER Caudata FAMILY Ambystomidae Ambystoma annulatum salamander, ringed salamander, spotted Ambystoma maculatum Ambystoma mexicanum axolotl salamander, marbled Ambystoma opacum Ambystoma talpoideum salamander, mole Ambystoma tigrinum salamander, tiger FAMILY Plethodontidae salamander, red-backed Plethodon cinereus Plethodon dorsalis salamander, zigzag Plethodon dunni salamander, Dunn's Plethodon elongatus salamander, Del Norte Plethodon glutinosus salamander, slimy Plethodon jordani salamander, Jordan's Plethodon vehiculum salamander, western red-backed Pseudotriton montanus salamander, mud Pseudotriton ruber salamander, red FAMILY Salamandridae newt, Japanese fire-bellied Cynops pyrrhogaster Salamandra atra salamander, Alpine Salamandra sala<u>mandra</u> salamander, fire Taricha granulosa newt, rough-skinned Taricha rivularis newt, red-bellied Taricha torosa newt, California Triturus alpestris newt, Alpine Triturus cristatus newt, northern crested Triturus helveticus newt, palmate Triturus marm<u>oratus</u> newt, marbled newt, Carpathian Triturus montandoni Triturus vittatus newt, banded Triturus vulgaris newt, smooth ORDER Salientia FAMILY Hylidae Hyla andersoni treefrog, pine barrens Hyla arenicolor treefrog, canyon Hyla avivoca treefrog, bird-voiced Hyla cadaverina treefroq, California

SCIENTIFIC NAME

HylachrysoscelisHylacinereaHylacruciferHylaeximiaHylafemoralisHylagratiosaHylaregillaHylasquirellaHylaversicolor

FAMILYRanidaeRanaauroraRanaboyleiRanacatesbeianaRanaclamitansRanaesculentaRananigromaculatusRanapipiensRanaridibundaRanaseptentrionalisRanasylvaticaRanatemporaria

COMMON NAME

treefrog, Cope's gray treefrog, green treefrog, spring peeper treefrog, mountain treefrog, pine woods treefrog, barking treefrog, Pacific treefrog, squirrel treefrog, gray

frog frog, American bullfrog frog, American green frog, edible frog frog, leopard frog, marsh frog, wrinkled frog, mink frog, wood frog, Eurasian common

REPTILES

PHYLUM Chordata CLASS Reptilia ORDER Testudines FAMILY Emydidae		
Chinemys megalocephala	turtle,	big headed pond
Chrysemys (Pseudemys) (all	•	painted; sliders
species in genus except C.	,	1
alabamensis and C. rubriventris)		
Clemmys (all species in genus)	turtle,	pond
Cuora yunnanensis	turtle,	Asian box
Deirochelys reticularia	turtle,	chicken
Emydoidea <u>blandingi</u>	turtle,	Blanding's
Emys orbicularis	turtle,	European pond
Graptemys (all species in	turtle,	map
genus except <u>G</u> . <u>oculifera</u>)		
<u>Mauremys</u> (<u>Clemmys</u>) <u>caspica</u>	turtle,	Caspian pond
<u>Mauremys</u> (<u>Clemmys</u>) japonica	turtle,	Japanese pond
<u>Mauremys</u> (<u>Clemmys</u>) <u>leprosa</u>	turtle,	Iberian pond

SCIENTIFIC NAME

COMMON NAME

Mauremys (Clemmys) mutica turtle, Taipei pond <u>Terrapene</u> (all species in genus turtle, box except T. coahuila) FAMILY Testudinidae Asterochelys (all species in tortoise genus except A. radiata and A. yniphora) Chelonoidis (all species in tortoise, Galapagos genus except C. elephantopus) Chersina angulata tortoise, bow-sprit <u>Geochelone</u> (all species in genus) tortoise Gopherus (Xerobates) (all tortoise, gopher species in genus except G. agassizi, G. flavomarginatus, and G. polyphemus) Homopus areolatus tortoise, parrot-beaked Homopus boulengeri tortoise, donner-weer Homopus femoralis tortoise, karroo Homopus signatus tortoise, speckled Megalochelys (all species in tortoise genus) tortoise, serrated Psammobates oculifer geometric Psammobatestentoriustortoise, knobby geometricPyxis(Acinixys)planicaudatortoise, flat-back spiderTestudo(all species in genus)tortoise, European

FISHES

PHYLUM Chordata CLASS Osteichthyes ORDER Atheriniformes FAMILY Anablepidae	
Anableps anableps	four-eyes
Jenynsia lineata	livebearer, one-sided
FAMILY Atherinidae <u>Allanetta harringtonensis</u> <u>Atherinosoma wallacei</u> <u>Bedotia geayi</u> <u>Craterocephalus</u> <u>cuneiceps</u> <u>Craterocephalus</u> <u>dalhousiensis</u> <u>Lacustris</u>	silversides, reef hardyhead, western rainbow, Madagascar hardyhead, Murchison River hardyhead, Dalhousie hardyhead, Lake Kutubu

SCIENTIFIC NAME

Craterocephalus	majoriae			
Craterocephalus	randi			
Craterocephalus	5			
stercusmuscarum				
Quirichthys stramineus				
Telmatherina ladigesi				

FAMILY Cyprinodontidae Addamas formosus Adinia xenica Aphanius cypris Aphanius dispar Aphanius fasciatus Aphanius iberus Aphanius mento Aphanius sophiae Aphyosemion abacinum Aphyosemion ahli Aphyosemion amieti Aphyosemion amoenum Aphyosemion arnoldi Aphyosemion australe Aphyosemion batesil Aphyosemion bertholdi Aphyosemion bivittatum Aphyosemion bochtleri Aphyosemion bualanum Aphyosemion calliurum Aphyosemion cameronense Aphyosemion celliae Aphyosemion chaytori Aphyosemion christyi Aphyosemion cinnamomeum Aphyosemion coeruleum Aphyosemion cognatum Aphyosemion cyanostictum Aphyosemion elegans Aphyosemion exiguum Aphyosemion filamentosum Aphyosemion fulgens Aphyosemion gardneri Aphyosemion georgiae Aphyosemion geryi Aphyosemion guineense Aphyosemion gulare Aphyosemion herzogi

COMMON NAME

hardyhead, Marjorie's hardyhead, Kubuna River hardyhead, fly-specked strawman (blackmast) silversides, celebes panchax, starhead killifish, diamond minnow minnow, log-fin Arabian minnow, banded minnow, Spanish minnow, Persian killifish killie killie, Ahl's lyretail killie killie killie, Arnold's lyretail lyretail killie killie, Berthold's lyretail killie killie, African swamp lyretail lyretail killie killie, Chaytor's killie, Christy's lyretail killie, cinnamon gularis, blue; lyretail killie, red spotted killifish, blue-spotted killie killie lyretail, Togo killie lyretail; steel-blue aphyosemion killie killie, Gery's killie, Guinean lyretail killie

SCIENTIFIC NAME

Aphyose<u>mion</u> joergenscheeli Aphyosemion <u>labarrei</u> Aphyosemion liberiense Aphyosemion marmoratum Aphyosemion melanopteron Aphyosemion mirabile-traudeae killie, azure Aphyosemion ndianum Aphyosemion occidentalis Aphyosem<u>ion</u> <u>oeseri</u> Aphyosemion petersi Aphyosemion seymouri Aphyosemion <u>sj</u>oestedti Aphyosemion splendopleuris Aphyosemion splendum Aphyosemion striatum Aphyosemion walkeri Aplocheilichthys <u>flavipinnis</u> Aplocheilichthys katangae Aplocheilichthys loemensis Aplocheilichthys macrophthalmus Aplocheilichthys meylburgi Aplocheilichthys myersi Aplocheilichthys pumilus Aplocheilichthys schoelleri Aplocheilichthys spilauchen Aplocheilus blocki Aplocheilus dayi Aplocheilus javanicus Aplocheilus latipes Aplocheilus lineatus Aplocheilus panchax Austrofundulus dolichopterus Austrofundulus myersi Austrofundulus transilis Chriopeod<u>es</u> pengelleyi Chriopeops goodei Cubanichthys cubensis Cynolebias boitonei Cynolebias adloffi Cynolebias ale<u>xandri</u> Cynolebias antenori Cynolebias bellottii Cynolebias brucei Cynolebias constanciae

COMMON NAME

killie killie, Labarre's killie, Liberian killifish, marbled killie killie, red-tail killie, golden pheasant killie killie, yellow-eyed killie, Seymour's lyretail; blue gularis lvretail killie killie, five-lined killie, Walker's lampeye, yellow-finned lampeye, katanga lampeye, loeme lampeye, bigeye lampeye lampeye, Myer's lampeye, Tanganyika lampeye, Egyptian lampeye, banded panchax, dwarf (green) panchax, Day's (Singhalese) panchax panchax panchax, lineatus (striped) panchax, blue killie, sicklefin (saberfin) killie, Myer's killifish, Venezuelan pupfish, Jamaican killifish, bluefin minnow, Cuban lyretail, Brazilian pearl fish, banded pearl fish, entre rios pearl fish, red-finned pearl fish, Argentine gaucho, Turner's pearlfish, featherfin

Cynolebias dolichopterus Cynolebias ladigesi Cynolebias melanotaenia Cynolebias minimus Cynolebias nigripinnis Cynolebias viarius Cynolebias whitei Cynolebias wolterstorffi Cyprinodon macularis Epiplatys annulatus Epiplatys barmoiensis EpiplatysDaimoreneriEpiplatysbifasciatusEpiplatyschaperiChaperisheljuzhkoiEpiplatyschaperiSheljuzhkoipanchax, Chaper'spanchax, Chevalieripanchax, Chevalier's Epiplatys dageti Epiplatys dageti monroviae killie, Arnold's Epiplatys fasciatus Epiplatys fasciolatus Epiplatys grahami Epiplatys huberi <u>Epiplatys nuberi</u> <u>Epiplatys lamottei</u> <u>Epiplatys longiventralis</u> Epiplatys macrostigma Epiplatys multifasciatus Epiplatys nigricans Epipla<u>tys</u> <u>sexfasciatus</u> Epiplatys singa Epiplatys spilargyreius Fundulus chrysotus Epiplatys singa Fundulus cingulatus Fundulus heteroclitus Fundulus notatus Fundulus notti Garmanella pulchra Hylopanchax stictopleuron Hypsopanchax catenatus Hypsopanchax platysternus Jordanella floridae Lamprichthys tanganicus Leptolucania ommata Lucania goodei Nothobranchius (all species in genus) Oryzias celebensis Oryzias javanicus

COMMON NAME

killie, sicklefin gaucho, ladiges gaucho, fighting gaucho, Myer's pearl fish, black-finned pearl fish, blue pearl fish, White's pearl fish, Wolterstorff's pupfish, desert pupfish, amargosa killie, clown panchax panchax, red-chinned epiplatys, banded panchax, striped panchax, Graham's killifish, Huber's panchax panchax, banded panchax, spotted panchax epiplatys, black-edged panchax, six-banded panchax panchax minnow, golden ear (top) minnow, banded top killie, zebra; mummichog killifish, blackstripe minnow, star-head (masked) pupfish, Yucatan livebearer livebearer livebearer flagfish, American killie, Tanganyika pearl killifish, swamp pygmy killifish, bluefin killifish

medaka, celebes rice fish, Javanese

Oryzias latipes Pachypanchax homalonotus Pachypanchax playfairi Plataplochilus loemensis Plataplochilus miltotaenia Plataplochilus ngaensis Procatopus aberrans Procatopus nototaenia Pseudoxiphophorus bimaculatus swordtail, false Pterolebias longipinnis Pterolebias pe<u>ruensis</u> Pterolebias wischmann Pterolebias zonatus Rivulus agilae Rivulus amphoreus Rivulus atratus Rivulus beniensis Rivulus compressus Rivulus cylindraceus Rivulus harti Rivulus holmiae Rivulus isthmensis Rivulus limoncochae Rivulus magdalenae Rivulus milesi Rivulus ocellatus Rivulus ornatus Rivulus peruanus Rivulus punctatus Rivulus roloffi Rivulus santensis Rivulus strigatus Rivulus urophthalmus Rivulus xanthonotus Rivulus xiphidius Roloffia bertholdi Roloffia chaytori Roloffia geryi Roloffia liberiensis Roloffia monroviae Roloffia occidentalis Roloffia petersi Roloffia roloffi Roloffia toddi Trigonectes balzanii

COMMON NAME

medaka panchax, green panchax, Playfair's livebearer livebearer livebearer lampeye, green killie, blue lady longfin, common longfin, Peruvian pterolebias, Wischmann's killie, lace-fin (banded longfin) rivulus, agila rivulus, guianas rivulus, butterfly rivulus, reticulated rivulus, blue rivulus, Cuban rivulus, Hart's (giant) rivulus, golden trail rivulus rivulus, Rio Napo rivulus, magdalena (bar-tailed) rivulus, yellowtail rivulus rivulus, red-flecked rivulus, perimparoo rivulus, spotted rivulus, Roloff's rivulus, Santos rivulus rivulus, golden rivulus rivulus, band-tailed panchax killie, Chaytor's panchax panchax, blue lyretail panchax pheasant, golden panchax, Peter's panchax panchax rivulichthys

Trigonectes strigabundus

FAMILY Goodeidae Chapalichthys paradalis Characodon lateralis Goodea atripinnis Neotoca bilineata Skiffia bilineata Xenotoca eiseni Zoogoneticus quitzeoensis

FAMILY Hemirhamphidae Dermogenys pusillus Nomorhamphus celebensis

FAMILY Melanotaeniidae Melanotaeniidae (all species in family)

FAMILY Poeciliidae Alfaro cultratus Brachyrhaphis episcopi Brachyrhaphis terrabensis Gambusia affinis Gambusia puncticulata Girardinus metallicus Glaridichthys talcatus Heterandria bimaculatus Heterandria formosa

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Lebistes reticulata
Limia tricolor
Limia caudofasciata
Limia negrofasciatus
Limia vittata
Micropoecilia branneri
Mollienisia caucana
Mollienisia formosa
Mollieni<u>sia</u> <u>latipinna</u>
Mollienisia latipunctata
Mollienisia sphenops
Mollienisia velifera
Phallichthys amates
Phallichthys isthmensis
Phalloceros caudomaculatus
Platypoecilus maculatus
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COMMON NAME

panchax, Brazilian false

goodeid polka-dot goodeid, rainbow goodea, black-fin neotoca, two-lined goodeid goodeid, red-tailed goodeid, picotee

halfbeak, Malayan halfbeak, celebes

rainbowfish

livebearer, knife bishop livebearer, upland mosquito fish gambusia, Holbrook's gambusia, blue girardinus, the yellow belly swordtail, false mosquito fish (killifish, least) quppy limia limia, blue limia, ornate limia, banded livebearer, Branner's molly, cauca molly molly, sailfin molly molly, sphenops molly, Yucatan (sailfish) merry widow tooth-carp caudo moonfish, platy

Platypoecilus variatus Poecilia caucana Poecilia caudofasciata Poecilia heterandria Poecilia latipinna Poecilia melanogaster Poecilia mexicana Poecilia nigrofasciata Poecilia ornata Poecilia parae Poecilia petensis Poecilia reticulata Poecilia sphenops Poecilia velifera Poecilia vittata Poecilia vivipara Poeciliopsis gracilis Poecilistes pleurospilus Priapella intermedia Quintana atrizona Xiphophorus clemenciae Xiphophorus <u>couchianus</u> Xiphophorus evelynae Xiphophorus helleri Xiphophorus maculatus Xiphophorus montezumae Xiphophorus pygmaeus Xiphophorus variatus Xiphophorus xiphidium

FAMILY Pseudomugilidae Pseudomugilidae (all species in family)

ORDER Beryciformes FAMILY Anomalopidae Anomalopidae (all species in lanterneye fish family) FAMILY Holocentridae Holocentridae (all species in squirrelfish family) FAMILY Monocentrididae Monocentrididae (all species pinecone fish in family)

COMMON NAME

variatus molly, cauca poecilia, blue limia, dwarf molly, sailfin limia, blue (black-bellied) molly, Mexican shortfin limia, humpbacked limia, ornate livebearer, two-spot molly, spiketail quppy molly, sphenops molly, Yucatan sailfish limia, banded livebearer, one-spot livebearer, porthole livebearer, porthole livebearer, blue-eyed livebearer, black-bared swordtail, yellow platy, Monterey platy, puebla swordtail platy, moonfish swordtail, Mexican swordtail, pygmy platy, sunset (variatus) platy, spiked-tailed

rainbowfish

\$4-71-6.5

SCIENTIFIC NAME	COMMON NAME
ORDER Clupeiformes	
FAMILY Clupeidae	
Harengula <u>clueola</u>	pilchard, flase
Harengula humeralis	sardine, redear
FAMILY Engraulididae	
Anchoa lyolepsis	anchovy, dusky
ORDER Cypriniformes	
FAMILY Alestidae	
Lepidarchus adonis	adonis
FAMILY Anostomidae	
Anostomus anostomus	headstander, striped
Anostomus faciatus	anostomus
Anostomus garmani	anostomus, gray-lined
Anostomus gracilis	anostomus, four-spot
Anostomus plicatus	anostomus, black
Anostomus proximus	anostomid banded
Anostomus taeniatus	headstander, lisa
Anostomus ternetzi	anostomus
Anostomus trimaculatus	headstander, three-spot
Leporinus agassizi	leporinus, half-striped
Leporinus arcus	leporinus, lipstick
Leporinus fasciatus	leporinus, banded
Leporinus frederici	leporinus, Frederick's
Leporinus jamesi	leporinus, James's
Leporinus maculatus	leporinus, spotted
Leporinus melanopleura	leporinus, spot-tailed
Leporinus multifasciatus	leporinus, multi-banded
<u>Leporinus</u> nigrotaeniata	leporinus
Leporinus octofasciatus	leporinus, eight-banded
Leporinus pearsoni	leporinus, Pearson's
Leporinus pellegrini	leporinus, pellegrini
Leporinus striatus	leporinus, striped
<u>Prochilodus</u> insignis	prochilodus
Prochilodus nigricans	small-mouth, spotted
Prochilodus ortonianus	prochilodus, gray
Prochilodus taeniurus	prochilodus, silver
Prochilodus theraponura	flag tail
FAMILY Catostomidae	
Erimyzon sucetta	chubsucker, lake
Myxocyprinus asiaticus	suckers, Asian
	Sachero, norun

FAMILY Characidae Acuticurimata macrops Alestes chaperi Alestes longipinnis Alestes nurse Alestes taeniurus Alestopetersius caudalus Anoptichthys jordani Aphyocharax alburnus Aphyocharax anisitsi Aphyocharax axelrodi Aphyocharax dentatus Aphyocharax erythrurus Aphyocharax gracilis Aphyocharax megalamphodus Aphyocharax nattereri Aphyocharax paraguayensis Aphyocharax pusillus Aphyocharax rathbuni Aphyocharax rubripinnis Arnoldichthys spilopterus Asiphonichthys condei Asiphonichthys unifasciatus Astyanax bimaculatus Astyanax daguae Astyanax fasciatus Astyanax fasciatus mexicanus Astyanax gymnogenys Astyanax kennedyi Astyanax mexicanus Astyanax mutator Astyanax poetzschkei Astya<u>nax</u> ruberrimus Astyanax zonatus Axelrodia lindeae Axelrodia riesei Bario steindachneri Bathethiops fowleri Boehlkea fredcochui Brycinus chaperi Brycinus longipinnis Brycinus nurse Brycinus taeniurus

COMMON NAME

characin, hooked-nosed characin, Chaper's tetra, long-finned African tetra, nurse characin (tetra, African) characin, yellow-tailed African cavefish, blind aphyocharax, golden-crowned tetra, bloodfin pristella, red bloodfin, false tetra, flame-tail tetra tetra, calypso tetra tetra, Rio Paraguay tetra bloodfin, Rathburn's bloodfin characin, Arnold's (red-eye) tetra, glass tetra, transparent astyanax, two-spotted astyanax, plain-tailed astyanax, banded (tetra) tetra, blind cave astyanax, one-spot astyanax, Kennedy's astynax astynax; punkay astynax astynax astyanax, false Kennedy tetra, lindy tetra, ruby bario, blotch-tailed moonfish, African tetra, Cochu's blue characin, Chaper's (green) tetra, long-fin African tetra, nurse tetra, narrow-lined African

Bryconamericus loisae Bryconops caudomaculatus Bryconops melanurus Chalceus macrolepidotus Chalcinus elongatus Characidium fasciatum Characidium rachovi Charax gibbosus Cheirodon arnoldi Cheirodon axelrodi Cheirodon innesi Cheirodon insignis Cheirodon kriegi Cheirodon leuciscus Cheirodon meinkeni Cheirodon piaba Chilodus punctatus Coelurichthys microlepis Coelurichthys tenuis Colossoma bidens Colossoma brachypomum Colossoma oculus Copeina arnoldi Copeina callolepis Copeina guttata Copella arnoldi Copella eigenmanni Copella metae Copella nattereri Copella vilmae Corynopoma riisei Creagrutus beni Creagrutus cochui Creatochanes caudomaculatus Crenuchus spilurus Ctenobrycon spilurus Distichodus affinis Distichodus altus Distichodus antonnii Distichodus <u>fasciolatus</u> Distichodus lusosso Distichodus noboli <u>Distichod</u>us notospilus Distichodus rostratus Distichodus sexfasciatus Exodon paradoxus Gephyrocharax atracaudatus

COMMON NAME

piaco peixe tetra, red cross anchovy, jumping chalceus, pink-tailed hatchetfish, elongated characidium, banded characidium headstander, glass tetra tetra, cardinal tetra, neon tetra, insignificant tetra, three-spot tetra tetra tetra headstander, spotted tetra, croaking tetra, tenius pacu, red-bellied pacu, black pacu, red-finned tetra, splashing copeina, spotted copeina, red-spotted characin, jumping (splash) copella, Eigenmann's pyrrhulina, black-banded copella, spotted copella, rainbow characin, swordtailed tetra, benny tetra, cochui tetra, tail-spot tetra, sailfin tetra, silver distichodus, silver moonfish moonfish distichodus, shark-tailed distichodus, long-nosed distichodus, nobol distichoo moonfish distichoo distichodus red-finned distichodus, six-barred tetra, bucktooth silvertail

Gephyrocharax caucanus Glandulocauda <u>inequalis</u> Gymnocorymbus ternetzi Gymnocorymbus thayeri Hasemania marginata Hasemania nana Hemigrammopetersius
Hemigrammopetersiuscaudalis
intermediustetra, yellow-tailed Congo
tetra, short-finned Congo
tetra, Rhodesian Hemigrammus armstrongi Hemigrammus barrigone Hemigrammus bellottii Hemigrammus boesemani Hemigrammus caudovittatus Hemigrammus coeurleus Hemigrammus erythrozonus Hemigrammus gracilis Hemigrammus <u>hyanuaryi</u> Hemigrammus levis Hemigrammus marginatus Hemigr<u>ammus</u> <u>mattei</u> Hemigrammus nanus Hemigrammus ocellifer Hemigrammus proneki Hemigrammus pulcher Hemigrammus rhodostomus Hemigrammus rodwayi Hemigrammus <u>schmardae</u> Hemigrammus st<u>ictus</u> Hemigrammus ulreyi Hemigrammus unilineatus Hemigrammus vorderwinkleri Holobrycon pesu Hyphessobrycon agulha Hyphessobrycon bellotti Hyphessobrycon bentosi Hyphessobrycon bifasciatus Hyphessobrycon callistus Hyphessobrycon copelandi Hyphessobrycon eos Hyphessobrycon erythrostigma (Perez)HyphessobryconflammeusHyphessobrycongeorgettaeHyphessobrycongriemiHyphessobryconbarolderical

COMMON NAME

tetra, arrowhead tetra, croaking tetra, black tetra, straight-fin black tetra tetra, silver-tipped tetra, gold tetra, Henn's meta pink tetra, dash-dot tetra, Boeseman's tetra, Buenos Aires tetra, coerulean tetra, glowlight tetra, glowlight tetra, January tetra, golden neon tetra, bassam tetra, slender head and tail light tetra, silver tip tetra, head and tail light tetra, Pronek's tetra, garnet tetra, rummy nose tetra, gold tetra, Schmard tetra tetra, ulreyi tetra, featherfin tetra, Vorderwinkler's tetra, mourning tetra, red-tail flag tetra, dash-dot tetra, rosy tetra, yellow tetra, callistus tetra, callistus tetra, dawn tetra, bleeding heart

COMMON NAME

Hyphessobryconherbertaxelroditetra, black neonHyphessobryconheterorhabdustetra, flag; false ulrey HyphessobryconIoretoensistetra, neonHyphessobryconIuetkenitetra, loretoHyphessobryconmetaetetra, Lutken'sHyphessobryconminimustetra, false golHyphessobryconminortetraHyphessobryconornatustetra, ornateHyphessobryconperuvianustetra, loretoHyphessobryconprocessortetra, tetra, ornateHyphessobryconperuvianustetra, loretoHyphessobryconpulchripinnistetra, lemonHyphessobryconrossortetra Hyphessobrycon innesi HyphessobryconrobertitetraHyphessobryconrobertitetra, rosyHyphessobryconrubrostigmatetra, bleeding heartHyphessobryconsaizitetra, Saiz'sHyphessobryconscholzeitetra, black-linedHyphessobryconserpaetetra, Harald Schultz' Hyphessobrycon serpae haraldsschultzi Hyphessobryconserpaetetra, serpaeHyphessobryconsimulansneon, Schwartz'sHyphessobryconsocolofilesser bleeding blee HypnessobryconSocolofiLesserHyphessobryconsocolofitetra, savannahHyphessobryconstegemannitetra, coffee beantetra, coffee beantetra, coffee bean Hyphessobrycon vilmae Iguanodectes spilurus Iquanodectes tennuis Inpaichthys kerri Ladigesia roloffi Megalamphodus "Rubra" Megalamphodus axelrodi Megalamphodus
Megalamphodusaxelrour
axelrourefMegalamphodus
Megalamphodusmegalopterus
sweglesitetra, calypso
tetra, black phantom
tetra, Swegle's Megalamphodus sweglesi Metynnis anisurus Metynnis argenteus Metynnis <u>calichromis</u> Metynnis dungerni

 <u>Metynnis het...</u>

 <u>Metynnis hypsauchen</u>

 <u>Metynnis luna</u>

 <u>Metynnis schreitmuelleri</u>

 <u>Micralestes acutidens</u>

 <u>Interruptus</u>

 Interruptu

tetra, neon tetra, false gold tetra, Harald Schultz's lesser bleeding heart tetra, vilma's tetra, slender tetra, slender tetra, jelly bean megalamphodus, reed pristella, red tetra silver dollar metynnis, silver silver dollar silver dollar metynnis, plain metynnis, moon metynnis, spotted silver dollar tetra, sharp-toothed tetra, Cochu's blue tetra, croaking

Moenkhausia agnesea Moenkhausia colletti Moenkhausia dichroura Moenkhausia goergiae Moenkhausia gr<u>acilima</u> Moenkhausia intermedia Moenkhausia lepidura Moenkhausia oligolepis Moenkhausi<u>a</u> pittieri Moenkhausia robertsi Moenkhausia sanctaefilomenae Moenkhausia takasae Myleus micans Myleus pacu Myleus rubripinnis Myleus schomburgki Myleus ternetzi Myloplus asterias Myloplus schultzei Myl<u>ossoma</u> aganthogaster Mylossoma argenteum Mylossoma aureum Mylossoma diriventre <u>Nannaethiops</u> <u>trit</u>aeniatus Nannaethiops uni<u>taeniatus</u> Nematobrycon amphiloxus Nematobrycon gery Nematobrycon lacortei Nematobrycon palmeri Paracheirodon innesi Paracheirodon simulans Paradon affinis Paradon caliensis Paradon piracicabae Paradon pongoense Pedalibrycon fel<u>ipponei</u> Pe<u>tersius</u> <u>caudalis</u> Petitella georgiae Phenacogaster bectinatus Phenacogaster pectinatus Phenacogrammus aurantiacus Phenacogrammus caudomaculatus Phenacogrammus deheyni Phenacogrammus interruptus Phoxinopsis typicus Piabucas dentatus

COMMON NAME

tetra, Agnes tetra moenkhausia, spot-tailed tetra moenkhausia, graceful tetra tetra tetra, glass tetra, diamond tetra moenkhausia, yellow banded tetra dollar, golden myleus, brown myleus, redhook myleus, black-barred myleus myloplus, starry myloplus, Schultz's mylossoma mylossoma, silver silver dollar characin, hard-bellied tetra, three-lined African tetra, African tetra, rainbow tetra tetra, rainbow tetra, emperor tetra, neon tetra, false neon tetra, Paraguay darter tetra, barred darter tetra, Brazilian darter pongo pongo characin, Uruguay characin, yellow Congo nose, false rummy pectinatus tetra, glass tetra, gold Congo tetra, African moon tetra, Deheyni's Congo tetra, Congo tetra tetra, golden-striped slender

Poptella orbicularis Prionobrama filigera Prionobrama paraguayensis Pristella maxillaris Pristella riddlei

Pseudochalceus kyburzi Pseudocorynopoma doriae Pseudocorynopoma riisei Pyrrhulina beni Pyrrhulina brevis Pyrrhulina filamentosa Pyrrhulina laeta Pyrrhulina natteri Pyrrhulinanigrofasciatapyrrhulina, black-bandedPyrrhulinarachovianapyrrhulina, Rachow'sPyrrhulinaspilotapyrrhulina, blotched Pyrrhulina vittata

 Pyrrhulina
 viccaca

 Rachoviscus
 crassiceps

 Roeboides
 guatemalensis

 armithrops

 Stethaprion erythrops Stethaprion innesi Stevardia riisei <u>Stevardia riisei</u> <u>Stichonodon insignis</u> <u>Tetragonopterus argenteus</u> Tetragonopterus chalceus Thayeria boehlkei Thayeria ifati Thayeria obliqua Thayeria sanctae-marieae Triportheus angulatus Tyttocharax madeirae

FAMILY Citharinidae Neolebias ansorgei Neolebias landgrafi Neolebias trewavasae Neolebias trilineatus Neolebias unifasciatus

FAMILY Cobitididae Acan<u>thophthalmus</u> <u>cuneovirgatus</u> Acanthophthalmus j<u>avanicus</u> Acanthophthalmus kuhli

Acanthophthalmus myersi Acanthophthalmus robiginosus

COMMON NAME

tetra, disk bloodfin, glass bloodfin, southern pristella pristella (goldfinch, water) tetra, kyburz tetra, dragonfin characin, swordtail pyrrhulina pyrrhulina, short-lined pyrrhulina pyrrhulina pyrrhulina, Natter's pyrrhulina, banded tetra, golden tetra, golden headstander, Guatemalan silver dollar, bumpy-back characin characin characin, swordtail tefe gymnocorymbus tetra, silver tetra, false silver penguin, Bohlke's penguin penguin, short-striped tetra, penguin hatchetfish, narrow tetra, bristle mouthed

> neolebias, Ansorge's neolebias, blue-banded neolebias, Trewavas's neolebias, three-lines tetra, one-lined African

loach loach, Javanese loach, codie; eel, leopard loach, slimy loach

Acanthophthalmus semicinctus Acanthophthalmus shelfordi Acanthopsis choirorhynchus Botia beauforti Botia berdmorei Botia dario Botia horae Botia hymenophysa Botia lecontei Botia lohachata Botia lucas-bahi Botia macracantha Botia modesta Botia morletii Botia sidthimunki Botia striata

CobitistaeniaLepidocephalusgunteaLepidocephalusthermalisMisgurnusanguillicaudatusNeomacheilusbotiaNeomacheilusfasciatusNeomacheilusnotostigmaNoemacheiluskuiperi

FAMILYCurimatidaeCurimatalineopunctataCurimatamicrocephalaCurimataspiluraSemaprochilodussquamilentusSemaprochilodustaeniurusSemaprochilodustheraponura

FAMILY Cyprinidae <u>Abramis brama</u> <u>Alburnoides bipunctatus</u> <u>Aphyocypris pooni</u> <u>Balantiocheilos melanopterus</u> <u>Barbichthys laevis</u> <u>Barbodes binotatus</u> <u>Barbodes callipterus</u> <u>Barbodes camptacanthus</u>

COMMON NAME

loach, half-banded loach, Shelford's loach, longnose loach, Beaufort's loach, Berdmore's loach, dario loach, Hora's loach, banded loach, Leconte's loach, Pakistani loach, barred loach, clown loach, orange-fin loach loach, dwarf loach, cross-banded (zebra) weatherfish, spined loach loach, barbeled loach, lesser weatherfish plecostomus, Hong Kong loach, barred loach, fighting loach, fighting

curimata, spotted curimata curimata, diamond-spot prochilodus, sailfinned prochilodus, silver prochilodus, flag-tailed

bream tailor fish, venus shark, bala barb, sucker barb, spotted barb, clipper barb, African red-finned

Barbodes daruphani Barbodes dorsima<u>culatus</u> Barbodes dunckeri Barbodes eutaenia Barbodes everetti Barbodes fasciatus Barbodes fasciolatus Barbodes hexazona Barbodes holotaenia Barbodes kerstenii Barbodes lateristriga Barbodes pentazona Barbodes pinnauratus Barbodes schwanenfeldi Barbodes unitae<u>niatus</u> Barbodes usambarae Barbodes viviparus Barbus arulius Barbus bariloides Barbus binotatus Barbus chola Barbus conchonius Barbus cummingi Barbus dunckeri Barbus everetti Barbus fasciatus Barbus filamentosus Barbus gelius Barbus holotaenia Barbus hulstaerti Barbus hulsteri Barbus jae Barbus lateristriga Barbus lineatus Barbus multilineatus Barbus nigrofaciatus Barbus oligolepsis <u>Barbus</u> partipentazona Barbus pentazona Barbus phutunio Barbus schuberti Barbus semifasciolatus Barbus stigma Barbus stoliczkanus Barbus terio Barbus tetrazona Barbus ticto

COMMON NAME

barb, pale barb, black-line barb, big-spot (Duncker's) barb, African red-fin barb, clown barb, striped barb, African banded barb, belted (six-banded) barb, spot-scale barb, Kersten's barb, t-barb (spanner) barb, banded (five-banded) barb, gold-finned barb, tinfoil barb, Indian strip barb, peppered barb, viviparous barb, longfin minnow, orange-fin barb, spotted barb, swamp barb, rose barb, Cumming's barb, Duncker's barb, clown barb, stripped barb, filament barb, golden dwarf barb, African spot-scale barb, butterfly barb barb barb, spanner spanner barb, striped barb, African red-finned barb, black-ruby barb, checker barb barb, five-banded (tiger) barb, dwarf barb, golden (Schubert's) barb, half-striped barb barb, Stoliczka's barb, one-spot barb, tiger barb, ticto

Barbus titteya Barbus vittatus Barilius christyi Brachydanio albolineatus Brachydanio frankei <u>Brachydanio</u> kerri Brachydanio nigrofasciatus Brachydanio rerio Calcobarbus geertsi Capoeta arulius Capoeta binotatus Capoeta chola Capoeta hulstaerti Capoeta melanampyx Capoeta oligolepis Capoeta pa<u>rtipentazona</u> Capoeta puckelli Capoeta se<u>mifasciolatus</u> Capoeta tetrazona Capoeta titteya Carassius auratus Carassius auratus gibelio Carassius carassius Chela laubuca Crossocheilus oblongus Cyclocheilichthys apogon Cyprinus carpio Danio aequipinnatus Danio devario Danio malabaricus Eirmotus octozona Epalzeorhynchus kalopterus Epalzeorhynchus siamensis Esomus danricus Esomus malayensis Garra taeniata Gyrinocheilus aymonieri

Hampla macrolepidota Hemigrammocypris <u>lini</u> Horadandia <u>atukorali</u>

LabeobicolorLabeochrysphekadeonLabeocylindricusLabeoerythrurusLabeoforskalii

COMMON NAME

barb, cherry barb, banded minnow, copper-nose danio, pearl danio, leopard danio, Kerr's danio, spotted danio, zebra striped geertsi, blind African barb, longfin barb, false two-spot barb, swamp barb, butterfly barb, ember barb, checker barb, banded barb, two-spot African barb, half-striped barb, Sumatra tiger barb, cherry barb, goldfish carp, gibel (koi) carp, crucian (koi) barb, Indian glass flying fox, short-nosed barb, skin-head carp; koi danio, giant danio, bengal danio, giant barb, false flying fox flying fox, Siamese barb, flying barb, Malayan flying stone-lapping fish, Siamese algae eater, Chinese barb, silver and red minnow, garnet minnow, midget green cardlet shark, red-tailed shark, black shark, cylindricus shark, rainbow shark, plain

Labeo frenatus Labeo munensis Labeo rubropunctatus Labeo variegatus Labiobarbus burmanicus Labiobarbus festiva Labiobarbus festivus Laubuca laubuca Laubuca dadiburjori Leuciscus idus Luciosoma bleekeri Luciosoma setigerum Luciosoma spilopleura
 Luciosoma
 Spiropicara

 Morulius
 chrysophekadion
 Notropis ath<u>erinoides</u> Notropis <u>cornutus</u> Notropis hypselopterus Notropis lutrensis Notropis welaka Osteochilus hasselti Osteochilus vittatus Oxygaster anomalura Oxygaster oxygastroides Paracrossocheilus vittatus Puntioplites proctotozysron Puntius amphibius Puntius conchonius Puntius dorsalis Puntius filamentosus Puntius gelius Puntius lineatus Puntius narayani Puntius nigrofasciatus Puntius pleurotaenia Puntius sachsi Puntius schuberti Puntius somphongsi Puntius stigma Puntius stoliczkai Puntius ticto Puntius vittatus Puntius woehlerti Rasbora agilis Rasbora argyrotaenia Rasbora bankanensis

COMMON NAME

shark, rainbow shark shark, red-spotted shark, harlequin (variegated) shark, long-finned apollo shark, festive barb, signal hatchetfish, Indian dadio; orange chela ide apollo shark, Bleeker's apollo shark, long-finned apollo shark shark, black shiner, emerald shiner, common shiner, sailfin minnow, red horse; shiner, red shiner, bluenose barb, hard-lipped osteochilus, black-banded barb, knife barb, knife (glass) flying fox, dusky barb, yellow-cheeked barb, big-scale barb, rosy barb, wedge barb, black-spot barb, dwarf barb, striped barb, Shri Lankan two-spot barb, black ruby barb, triple-stripe barb, golden barb, golden barb, Somphong's barb, two-spot barb, Stoliczka's barb, tic-tac-toe barb, banded barb, sickle rasbora, black-striped rasbora, silver rasbora, banka

Rasbora borapetensis Rasbora caudimaculata Rasbora cephalotaenia Rasbora daniconius Rasbora dorsiocellata Rasbora dusonensis Rasbora einthoveni Rasbora elegans Rasbora hengelii Rasbora heteromorpha Rasbora kalochroma Rasbora lateristrata elegans Rasbora lateristrata Rasbora leptosoma Rasbora maculata Rasbora meinkeni Rasbora myersi Rasbora pauciperforata Rasbora sarawakensis Rasbora somphongsi Rasbora steineri Rasbora sumatrana Rasbora taeniata Rasbora tornieri Rasbora trilineata Rasbora urophthalma Rasbora vaterifloris Rasborichthys altior Rhodeus sericeus Rohtee alfrediana Tanichthys albonubes Triportheus angulatus Triportheus elongatus FAMILY Gasteropelecidae Carnegiella marthae Carnegiella myersi <u>Carnegiella</u> <u>strigata</u> <u>fasciata</u> Carnegiella <u>strigata</u> <u>strigata</u> Gasteropelecus levis Gasteropelecus maculatus Gasteropelecus sternicla Thoracocharax securis

Thoracocharax stellatus

COMMON NAME

rasbora, red-tailed rasbora, greater scissortail rasbora, portfole rasbora, golden-stripe rasbora, hi-spot rasbora, yellowtail rasbora, brilliant rasbora, elegant; rasbora, two-spot rasbora, harlequin rasbora, big-spot rasbora rasbora, lateristrata rasbora, copper-striped rasbora, spotted (dwarf) rasbora, Meinken's rasbora, Myer's rasbora, red-line rasbora, sarawak rasbora, Somphong's rasbora, Chinese rasbora, Sumatran rasbora, black-stripped rasbora, yellow-tailed rasbora, scissortail (three-line) rasbora, ocellated dwarf barb, Singhalese fire rasbora, green false bitterling minnow, copper minnow, white cloud mountain hatchetfish, narrow hatchetfish, elongated

hatchetfish, black-winged hatchetfish, Myer's hatchetfish, marbled hatchetfish, marbled hatchetfish hatchetfish, spotted hatchetfish, silver hatchetfish, long fin hatchetfish, silver

COMMON NAME

FAMILY Gymnotidae Apteronotus albifrons Apteronotus leptorhynchus

Distocyclus conirostris Eigenmannia virescens Gymnorhamphichthys hypostomus Gymnorhamphichthys rondoni Gymnotus anguillaris Gymnotus carapo Hypopomus artedi Rhabdolichops troscheli Rhamphichthys rostratus Steatogenys elegans Sternarchorhamphus muelleri Sternarchus albifrons Sternopygus macrurus Uramara rondoni

FAMILY Hemiodidae Hemiodopsis goeldii Hemiodopsis gracilis Hemiodopsis parnaguae Hemiodopsis semitaeniatus

Hemiodopsis sterni Hemiodus gracilis Hemiodus quadrimaculatus vorderwinkler Hemiodus semitaeniatus

FAMILY Homalopteridae Homaloptera orthogoniata Pseudogastromyzon myersi

FAMILYLebiasinidaeNannobryconequesNannostomusunifasciatusNannostomusanomalusNannostomusbeckfordiNannostomusbifasciatusNannostomusequesNannostomusequesNannostomusespei

black ghost ghost, long-nosed black (brown) knifefish, yellow knifefish, green knifefish, long-nosed knifefish, mousetail knifefish, stripped knifefish, banded knifefish, spotted knifefish short-headed knifefish, trumpet knifefish, mottled knifefish, Mueller's black ghost knifefish, short-nose knifefish, variable ghost knifefish, mousetail

hemiodus, Goeldi's hemiodus, slender hemiodus, one-spot hemiodus, bared hemiodus black and white tailed hemiodus, Stern's hemiodus, red tail hemiodus, banded

hemiodus

loach, saddlespot plecostomus, Hong Kong

pencilfish
penguin
pencilfish
pencilfish, aripiranga
pencilfish, Beckford's
pencilfish, two-striped
pencilfish, brown-tailed
pencilfish, barred

COMMON NAME

Nannostomus harrisoniNannostomus marginatusNannostomus trifasciatusNannostomus unifasciatusPoecilobrycon auratusPoecilobrycon digrammusPoecilobrycon poecilobryconPoecilobrycon poecilobryconPoecilobrycon unifasciatusPoecilobrycon unifasciatus	<pre>pencilfish, Harrison's pencilfish, dwarf pencilfish, three-lined pencilfish pencilfish, two-striped pencilfish, tube-mouthed pencilfish, Harrison's pencilfish, one-lined</pre>
FAMILY Lepidogalaxiidae Lepidoglaxias salamandroides	mud minnow, salamander
ORDER Dactylopteriformes FAMILY Dactylopteridae Dactylopteridae (all species in family)	gurnard, flying
ORDER Elopiformes FAMILY Albulidae Albulidae (all species in family)	bonefish
FAMILY Elopidae Elopidae (all species in family)	ladyfish
ORDER Gadiformes FAMILY Bythitidae Bythitidae (all species in family)	brotulid
FAMILY Carapodidae Carapodidae (all species in family)	pearl fish
ORDER Gasterosteiformes FAMILY Aulostomidae Aulostomidae (all species in family)	trumpetfish
FAMILY Centriscidae Centriscidae (all species in	shrimpfish

CONDITIONAL ANIMAL LIST

\$4-71-6.5

SCIENTIFIC NAME	COMMON NAME
family) FAMILY Fistulariidae Fistulariidae (all species in family)	cornetfish
FAMILY Gasterosteidae <u>Apeltes quadracus</u> <u>Culaea inconstans</u>	stickleback, four-spined stickleback, five-spined (brook)
Gasterosteus aculeatus	stickleback, three-spined
FAMILY Indostomidae <u>Indostomus</u> <u>paradoxus</u>	paradox fish
FAMILY Syngnathidae Syngnathidae (all species in family)	pipefish
ORDER Gobiesociformes FAMILY Callionymidae Callionymidae (all species in family)	dragonet
FAMILY Gobiesocidae Gobiesocidae (all species in family)	clingfish
ORDER Lophiiformes FAMILY Antennariidae Antennariidae (all species in family)	anglerfish
FAMILY Ogcocephalidae Ogcocephalidae (all species in family)	batfish
ORDER Mormyriformes FAMILY Gymnarchidae <u>Gymnarchus</u> <u>niloticus</u>	aba aba; Nile fish
FAMILY Mormyridae Brienomyrus brachistius Campylomormyrus cassaicus Campylomormyrus rhychophorus	whale, white-faced whale, donkey-faced down-polker

Campylomormyrus tamandua Cyprinoides dicorhynchus Genyomrus donnyi Gnathonemus abadii Gnathonemus cyprinoides Gnathonemus deboensis Gnathonemus elephas Gnathonemus leopoldianus Gnathonemus macrolepidotus Gnathonemus moori Gnathonemus niger Gnathonemus numenius Gnathonemus petersi Gnathonemus senegalensis Gnathonemus shilthuisiae Gnathonemus stanleyanus Gnathonemus tamandua Gnathonemus victoriae Hippopotamyrus discorhynchus Hyperopius bebe Isichtys henri Marcucenius ansorgii Marcucenius brachistius Marcucenius castelnaui Marcuceni<u>us</u> <u>harringtoni</u> Marcucenius ihuysi Marcucenius isidori Marcucenius longianalis Marcucenius macrolepidotus Marcucenius petricolas Marcucenius plagiostoma Marcucenius psittacus Mormyrops caballus Mormyrops engystoma Mormyrops nigricans Mormyrops oudoti Mormyrus cashive Mormyrus ellenbergei Mormyrus hasselquisti Mormyrus kannume Mormyrus lacerda Mormyrus longirostris Mormyrus macrodon Mormyrus niloticus Mormyrus oris Mormyrus rume

COMMON NAME

mormyrid, worm-jawed mormyrid mormyrid elephantnose elephantnose elephantnose black elephant elephantnose mormyrid, scaly elephant fish, roundnosed elephantnose elephantnose elephantnose, Peter's elephantnose elephantnose elephantnose mormyrid, the worm-jawed elephant fish mormyrid, scaly mormyrid mormyrid elephantnose mormyrid mormyrid, torpedo mormyrid mormyrid mormyrid mormyrid mormyrid mormyrid mormyrid whale, short-nose; dolphin fish mormyrid elephantnose mormyrid mormyrid

Mormyrus thomasai Petrocephalus bane Petrocephalus bovei Petrocephalus catostoma Petrocephalus <u>sauvagei</u> Petrocephalus simus Pollimyrus angolensis Pollimyrus cattelnaui Pollimyrus nigripinis Stomatochinus corneti

ORDER Osteoglossiformes FAMILY Notopteridae Notopterus afer Notopterus chitala Notopterus notopterus

Papyrocranus afer Xenomystus nigri

FAMILY Osteoglossidae Clupisudis niloticus Osteoglossum bicirrhosum Osteoglossum ferreirai Scleropages jardini Scleropages leichardti

FAMILY Pantodontidae Pantodon buchholzi

ORDER Perciformes FAMILY Acanthuridae Acanthuridae (all species in surgeonfish family)

FAMILY Anabantidae Anabas testudineus Ctenopoma acutirostre Ctenopoma ansorgei Ctenopoma congicum Ctenopoma fasciolatum Ctenopoma kingsleyi Ctenopoma nanum Ctenopoma ocellatum

COMMON NAME

elephantnose whale whale, gray whale, African whale whale, dorsal band whale, bottle-nose whale, baby; whale, silver whale, dusky mormyrid

featherfin, African flag featherback, clown featherback, Malayan (Sumatra) featherfin, African flag featherback, African

heterotis

arowana arowana, black saratoga, gulf (northern) saratoga; baramundi, spotted

butterflyfish

perch, climbing perch, spotted climbing ctenopoma, ornate ctenopoma, Congo ctenopoma, banded ctenopoma, Kingsley's perch, dwarf climbing bushfish, chocolate

Ctenopoma oxyrhynchus

Parapocryptes serperaster

FAMILY Anarhichadidae

FAMILY Apocrypteidae

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SCIENTIFIC NAME

Anarhichas lupus

COMMON NAME

ctenopoma, mottled

wolffish, atlantic

mudskipper, slim

cardinalfish

combtail, Java combtail betta, slender betta, Breder's fighting fish, red fighting fish, stripe betta, peaceful (crescent) brunei beauty betta, mouth brooding betta, peaceful fighting fish, Siamese gourami, honey gourami, giant gourami, thick-lipped gourami, dwarf paradise fish, round-tail paradise fish, black paradise fish, spike-tail paradise fish, Day's paradise fish malpulatta gourami, licorice gourami, spike tailed licorice paradise fish, spike-tailed gourami, chocolate gourami, pearl gourami, moonbeam gourami, snakeskin gourami, three-spot (blue) gourami, pygmy gourami, three-stripe croaking gourami, croaking

Trichopsis vittatus

FAMILY Apogonidae Apogonidae (all species in family) FAMILY Belontiidae Belontia hasselti Belontia signata Betta bellica Betta brederi Betta coccina Betta fisciata Betta imbellis Betta macrostoma Betta pugnax Betta smaragdina Betta splendens Colisa chuna Colisa fasciata Colisa labiosa Colisa lalia Macro<u>podus</u> chinensis Macropodus concolor Macropodus cupanus cupanus Macropodus cupanus dayi Macropodus opercularis Malpulutta kretseri Parosphromenus dreissneri Parosphromenus filimentosus

<u>Trichopsis</u> <u>schalleri</u>

Pseudosphromenus cupans

Trichogaster microlepis

Trichogaster trichopterus

Trichogaster pectoralis

Trichogaster leeri

Trichopsis pumilus

Sphaerichthys osphromenoides

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SCIENTIFIC NAME	COMMON NAME
FAMILY Blenniidae Blenniidae (all species in family)	blenny
FAMILY Caesionidae <u>Caesio</u> <u>pulcherrimus</u>	caesio fish
FAMILY Carangidae Carangidae (all species in family)	jack
FAMILY Centrarchidae <u>Centrarchus macropterus</u> <u>Elassoma evergladei</u> <u>Elassoma zonatum</u> <u>Enneacanthus chaetodon</u> <u>Enneacanthus obesus</u> <u>Enneacanthus obesus</u> <u>Lepomis gibbosus</u> <u>Lepomis gulosus</u> <u>Lepomis humilis</u> <u>Lepomis macrochirus</u> <u>Lepomis megalotis</u> <u>Mesogonistius chaetodon</u>	flier; bass, peacock-eyed sunfish, everglades pygmy sunfish, banded dwarf sunfish, black-banded sunfish, bluespotted sunfish, banded sunfish, pumpkinseed warmouth sunfish, orangespotted bluegill sunfish, longeared sunfish, blackbanded
FAMILY Centropomidae <u>Ambassis agrammus agassiz</u> <u>Ambassis ambassis</u> <u>Ambassis buruensis</u> <u>Ambassis buruensis</u> <u>Ambassis commersoni</u> <u>Ambassis elongatus</u> <u>Ambassis lala</u> <u>Ambassis macleayi</u> <u>Ambassis marianus</u> <u>Ambassis miops</u> <u>Ambassis interruptus</u> <u>Centropomus undecimalis</u> <u>Chanda ambassis</u> <u>Chanda buruensis</u> <u>Chanda lala</u> <u>Chanda ranga</u> <u>Chanda wolfei</u>	perchlet, sailfin glassfish, olive perch, African glass glassfish, buru glassfish, Commerson's glassfish, Commerson's glassfish, Vellowfin glassfish glassfish, reticulated glassfish, Mary River glassfish, flag-tailed perchlet, reticulated glassfish, long-spined snook perch, African glass glassfish, Burmese glassfish, Siamese glassfish, Indian glassfish, glass perch glassfish

COMMON NAME

FAMILY Cepolidae Acanthocepola indica bandfish, Philippine Acanthocepola limbata bandfish, spotfin Cepola australis bandfish, Australian FAMILY Chaenopsidae Chaenopsidae (all species in pikeblenny family) FAMILY Chaetodontidae Chaetodontidae (all species in butterflyfish family) FAMILY Cheilodactylidae Cheilodactylidae (all species morwong in family) FAMILY Cichlidae cichlid, elusive cichlid Acarichthys heckelii Acarichthys thayeri cichlid, big-eyed Acaronia nassa Acaronia trimaculata cichlid Aequidens awani cichlid, golden AequidensawaniAequidensbimaculatumAequidenscoeruleopunctatusAequidensduopunctataAequidensfreniferus cichlid cichlid, blue-point flag cichlid Aequidens freniferus cichlid cichlid Aequidens geayi cichlid, hercules cichlid, dolption Acquidens guianensis Acquidens hercules Acquidens itanvi Aequidens itanyi Aequidens latifrons Aequidens mariae cichlid, Maria's

 Aequidens

 Aequidens
 metae

 Aequidens
 parahuayensis

 Aequidens
 portalegrensis

 Aequidens
 pulcher

 Aequidens maroni cichlid, keyhole cichlid cichlid acara, port (black) acara, blue green terror Aequidens sapayensis cichlid Aequidens subocularis cichlid Aequidens syspilus cichlid Aequidens tetr<u>amerus</u> cichlid, blue flag Aequidens vittata cichlid cichlid Aequidens zamorensus Apistogramma (all species in genus) cichlid, dwarf

Astatoreochromis straeleni Astatotilapia bl<u>oyeti</u> Astronotus ocellatus

Aulo<u>nocara</u> jacobfreibergi Aulonocara nyassae Benthochromis tricoti Bioteocus opercularis Biotodoma cupido Callochromis macrops melanostigma cichlid Callochromis pleurospilus Chaetobranchus flavescens Chalinochromis brichardi

Chrom<u>idotilapia</u> guentheri Cichla ocellaris

Cichla temensis Cichlasoma adspersum Cichlasoma alfari Cichlasoma arnoldi Cichlasoma atromaculatum Cichlasoma aureum Cichlasoma autochthom Cichlasoma axelrodi Cichlasoma bartoni Cichlasoma beani Cichlasoma bifasciatum Cichlasoma bimaculatum Cichlasoma biocellatum Cichlasoma carpinte Cichlasoma centrarchus Cichlasoma citrinellum Cichlasoma coryphaenoides Cichlasoma crassa Cichlasoma cutteri Cichlasoma cyanoguttatum Cichlasoma dovii Cichlasoma erythraeum Cichlasoma facetum Cichlasoma fenestratum Cichlasoma festae CichlasomarestueCichlasomafestivumCichlasomafriedrichsthaliCichlasomagrammodesCichlid, many-pointedCichlid, many-pointed Cichlasoma guttulatum

COMMON NAME

cichlid, yellow-bellied mouthbrooder, Bloyet's cichlid, peacock oscar (velvet) cichlid, African cichlid, African peacock featherfin, giant cichlid, green dwarf cichlid, cupid cichlid, pastel cichlid, two-striped cichlid, red-eve cichlid, lyretail (Brichard's) mouthbrooder, Gunther's cichlid, eye-spot; tuconary cichlid, spot-line peacock cichlid cichlid, pastel cichlid cichlid, three-spot cichlid, golden cichlid chuco, black cichlid, Barton's cichlid cichlid, red-spotted cichlid, two-spot Jack Dempsey cichlid, pearlscale cichlid, flier cichlid, midas cichlid, chocolate cichlid cichlid, Cutter's cichlid, Texas cichlid, Dow's devil, red chanchito cichlid cichlid, Festa's cichlid, gold-cheeked

<u>Cichlasoma</u> <u>haitiensis</u> <u>Cichlasoma</u> <u>hartwegi</u> Cichlasoma intermedium CichlasomaLabiatumCichlasomalabiatumCichlasomalongimanusCichlasomamacracanthusCichlasomamaculicaudaCichlasomamanaguenseCichlasomameeki Cichlasoma melanurum Cichlasoma minkleyi <u>Cichlasoma</u> <u>mot</u>aguense Cichlasoma nicaraguense Cichlasoma nicaraguense Cichlasoma nigrofasciatum Cichlasoma octofasciatum Cichlasoma ornatum Cichlasoma panamense Cichlasoma popenoi CichlasomapopenorCichlasomapsitticumCichlasomaramsdeniCichlasomarobertsoniCichlasomarostratum Cichlasoma rostratum Cichlasoma sajica Cichlasoma salvini Cichlasoma severum Cichlasoma sexfaciatum Cichlasoma sieboldi <u>Cichlasoma</u> <u>spectabile</u> <u>Cichlasoma</u> <u>spilotum</u> <u>Cichlasoma</u> <u>spilurum</u> Cichlasoma spinosissimum Cichlasoma temporale Cichlasoma terrabae Cichlasoma terracanthus Cichlasoma trimaculatum Cichlasoma tuba Cichlasoma umbriferum Cichlasoma urophthalmus Cichlasoma zonatum CorematodusshiranuscichlidCrenicara(all species in genus)cichlid, checkeredCyathochromisobliquidenscichlid Cyathopharynx furcifer

COMMON NAME

cichlid cichlid, Hartweg's cichlid cichlid, Jordan's cichlid, sharpheaded cichlid, red devil cichlid, curve-bar cichlid, longfin cichlid, high-spine cichlid, blackbelt manaquense firemouth cichlid cichlid, Minkley's motaguense spilotum cichlid, convict Jack Dempsey cichlid cichlid cichlid cichlid, parrot cichlid cichlid, Robertson's cichlid cichlid, t-bar; sajica cichlid, Salvin's yellow-belly severum cichlid cichlid cichlid cichlid cichlid, blue-eye cichlid cichlid cichlid cichlid, Cuban cichlid, three-spot cichlid umbriferum cichlid, eight-barred cichlid cichlid furcifer

COMMON NAME

Cynotilapia afra Cynotilapia axelrodi Cyphotilapia frontosa Cyprichromis brieni Cyprichromis leptosoma Cyprichromis microlepidotus Cyprichromis nig<u>ripinnis</u> Cyrtocara annectens Cyrtocara moorei Cyrtocara venusta Dicrossus (all species in genus) cichlid, checkered Docimodus johnstoni Eretmodus cyanostictus Etroplus maculatus Etroplus suratensis Genyochromis mento Geophagus australis Geophagus auticeps Geophagus balzanii Geophagus brasiliensis Geophagus cupido Geophagus gymnoglenys Geophagus hondae Geophagus jurupari Geophagus rhabdotus Geophagus steindachneri Geophagus surinamensis Gephyrochromis lawsi Gephyrochromis moovei Gephyrochromis morii Gobiochromis timanti Gynogeophagus australis Gynogeophagus b<u>alzanii</u> Haplochromis ahli Haplochromis anaphyrmus Haplochromis annectens Haplochromis argyrosoma Haplochromis atritaeniata Haplochromis auromarginatus Haplochromis boadzulu

cichlid, dwarf zebra (dogtooth) cichlid, Axelrod's dogtooth frontosa cichlid, slender cichlid, black-finned slender cichlid cichlid cichlid cichlid cichlid cichlid cichlid, striped goby chromide, orange chromide, banded scale-eater, Malawian eartheater, austral cutie mouthbrooder, Paraguay cichlid, Brazil high hat (pearl) geophagus geophagus, squarehead geophagus, redhump eartheater, demon fish geophagus, pearl-striped geophagus, redrump geophagus, Surinam cichlid, violet cichlid cichlid, yellow-tailed violet cichlid, dwarf African cichlid, eartheater cichlid, eartheater haplochromis, electric blue cichlid annectens cichlid cichlid cichlid cichlid

Haplochromis burtoni Haplochromis callipterus Haplochrom<u>is</u> chrysonotus Haplochromis cinereus Haplochromis compressiceps Haplochromis decorus Haplochromis desfontainesi Haplochromi<u>s</u> <u>dichrourus</u> Haplochromis electra Haplochromis epichorialis Haplochromis ericotaenia Haplochromis euchilus Haplochromis eucinostomus Haplochromis favimanus Haplochromis fenestratus Haplochromis fuscotaeniatus Haplochrom<u>is</u> guentheri Haplochromis hennydaviesae Haplochromis heterotaenia <u>Haploch</u>romis horei Haplochromis ineda Haplochromis jacksoni Haplochromis kiwinge Haplochromis labridens Haplochromis labrosus Haplochromis lacrymosus Haplochromis lacteristriga Haplochrom<u>is</u> <u>lepturus</u> Haplochromis linni Haplochromis livingstoni Haplochromis lobochilus Haplochromis longimanus Haplochromis macrognathus Haplochromis macrostoma Haplochromis margarita Haplochromi<u>s</u> <u>melanotaenia</u> Haplochromis mloto Haplochromis modestus Haplochromis mollis Haplochromis moorii Haplochromis multicolor Haplochromis nigritaeniatus Haplochromis nitidus Haplochromis nkatae Haplochromis nototaenia Haplochromis nubilus Haplochromis obtusus

mouthbrooder, Burton's callipterus cichlid hap, ashy eye-biter, Malawian cichlid mouthbrooder, desert hap, Victoria lavender hap, deep-water cichlid hap euchilus, big lips cichlid cichlid cichlid hap cichlid cichlid cichlid hap

COMMON NAME

cichlid cichlid cichlid hap cichlid cichlid haplochromis, spothead hap cichlid cichlid cichlid labrosus hap, tear-drop hap, basket cichlid polystigma, elephant-nose livingstoni livingstoni cichlid hap, Victoria big-mouth livingstoni livingstoni hap, black-fin livingstoni livingstoni hap, softly lumphead, blue mouthbreeder, Egyptian mouthbreeder, Egyptian mouthbreeder, Egyptian nkatae, common hap, stripe-back cichlid

hap, pig-nose

COMMON NAME

SCIENTIFIC NAME

Haplochromis ovatus Haplochromis pardalis Haplochromis pectoralis Haplochromis pfefferi Haplochromis philander Haplochromis pholidophorus Haplochromis placodon Haplochromis plagiotaenia Haplochromis polyodon Haplochromis polystigma Haplochromis quadrimaculatus Haplochromis riponianus Haplochromis rostratus Haplochromis sauvagei Haplochromis similis Haplochromis sphaerodon Haplochromis spilonotus Haplochromis spilostichus Haplochromis stonemani Haplochromis strigatus Haplochromis subocularis Haplochromis taeniolatus Haplochromis tetrastigma Haplochromis venustus Haplochromis virginalis Haplochromis wingati Haplochromis woodi Hemichromis bimaculatus Hemichromis cristatus Hemichromis fasciatus Hemichromis <u>lifalili</u> Hemichromis paynei Hemichromis tersquamatus Hemichromis thomasi Hemichromis VOILae Hemihaplochromis multicolor Hemichromis voltae Hemitilapia oxyrhnchus Herichthys cyanoguttatus Heros affinis Heros facetus Heros septemfasciatus Herotilapia multispinosa Julidochromis (all species in genus) cichlid, dwarf

Labeotropheus fuelleborni

mouthbreeder, Egyptian hap hap hap, Tanganyika mouthbreeder, Egyptian mouthbreeder, Egyptian mouthbreeder, Egyptian hap, rainbow hap polystigma, polly polystigma, polly hap, Victoria red-tail rostratus hap, Victoria mottled polystigma, polly rostratus rostratus rostratus rostratus mouthbrooder, Nigerian rostratus cichlid, jewel cichlid, crown jewel hemichromis, five-spotted cichlid, blood-red jewel cichlid, Payne's jewel cichlid cichlid cichlid mouthbrooder, Egyptian mouthbrooder, South African cichlid, oxyrhnchus cichlid, Texas cichlid cichlid cichlid cichlid, rainbow cichlid, rusty cichlid, Fuelleborn's

Labeotroph<u>eus</u> <u>trewavasae</u> Labidochromis caeruleus Labidochromis fryeri Labidochromis vellicans Laetacara (all species in genus) Lamprologus attenuatus Lamprologus brevis Lamprologus brichardi Lamprologus buescheri Lamprologus callipterus Lamprologus calvus Lamprologus compressiceps Lamprologus congoensis Lamprologus cunningtoni Lamprologus elongatus Lamprologus falcicula Lamprologus <u>fasciatus</u> Lamprologus furcifer Lamprologus gracilis Lamprologus kendalli Lamprologus leleupi Lamprologus lemairii Lamprologus magarae Lamprologus meeli Lamprologus mocquardi Lamprologus mondabu Lamprologus moorii Lamprologus multifasciatus Lamprologus mustax Lamprologus niger Lamprologus nkambae Lamprologus obscurus Lamprologus ocellatus Lamprologus olivaceus Lamprologus ornatipinnis Lamprologus pleuromaculatus Lamprologus prochilus Lamprologus profundicola Lamprologus savoryi elongatus Lamprologus sexfasciatus Lamprologus tetracanthus Lamprologus toae Lamprologus tretocephalus Lamprologus werneri Leptotilapia irvinei Leptotilapia tinanti

COMMON NAME

trewavasae, red-top labido, blue-white labido, white vellicans cichlid, dwarf lamprologus, marbled brevis lamprologus, lyretail lamprologus, Buescher's callipterus lamprologus, pearly compressiceps lamprologus, Congo lamprologus, black elongatus lamprologus, long-fin lamprologus, barred cichlid, sail-fin lamprologus, graceful nkambe cichlid, lemon lamprologus, Lemaire's shell-dweller, magara meeli lamprologus, Mocquard's lamprologus, mondabu lamprologus, moorii lamprologus, many-banded dwarf lamprologus, white-cheeked lamprologus, muddy cichlid lamprologus, mottly shell-dweller, oscellated lamprologus, olive lamprologus lamprologus, blotched lamprologus, sling-jaw lamprologus, deep-water lamprologus, lyretail lamprologus, six-bar lamprologus, pearl-lined lamprologus cichlid, five-bar lamprologus cichlid cichlid

COMMON NAME

Limnochromis auritus Lobochilotes labiatus Melanochromis auratus Melanochromis brevis Melanochromis chipokae Melanochromis exasperatus Melanochromis johanni Melanochromis labrosus Melanochromis melanopterus Melanochromis labrosus Melanochromis parallelus Melanochromis perspicax Melanochromis simulans Melanochrom<u>is</u> vermivorus Nannacara anomala Nannacara aureocephalus Nannacara taenia Nanochromis (all species in genus) cichlid, dwarf Neetroplus nematopus Otopharynx auromarginatus cichlid Otopharynx <u>selenurus</u> Oxylapia polli Papiliochromis (all species cichlid, butterfly in genus) Paratilapia dorsalis <u>Paratilapia</u> longipinnis Paratilapia <u>nigrofasciata</u> Paratilapia polleni <u>Paretroplus</u> (all species in genus cichlid, Damba except Paretroplus polyactis and P. sp. "lamena") PelmatochromisaerocephaluscichlidPelmatochromisannectenscichlid, five-spot AfricanPelmatochromisansorgeicichlid, five-spot AfricanPelmatochromisarnoldicichlid, five-spot African Pelmatochromis arnoldi Pelmatochromis <u>batesii</u> Pelmatochromis buettikoferi Pelmatochromis camerunensis Pelmatochromis caudifasciatus Pelmatochromis cerasogaster Pelmatochromis congicus Pelmatochromis corbali Pelmatochromis exsul Pelmatochromis guentheri Pelmatochromis haugi Pelmatochromis humilis Pelmatochromis kingleyae Pelmatochromis klugei

auritus cichlid, zebra cichlid, malawi golden mbuna mbuna, Chipokee mbuna johanni mbuna mbuna, black mbuna, parallel-striped mbuna, violet-striped mbuna, longsnout mbuna, purple cichlid, golden dwarf cichlid, golden-head dwarf cichlid cichlid, little lake cichlid mouthbreeder, Guenther's cichlid cichlid cichlid cichlid, Kluge's dwarf

COMMON NAME

Pelmatochromis kribensis
Pelmatochromis longirostris
Pelmatochromis ocellifer
Pelmatochromis pellegrini
Pelmatochromis pulcher
Pelmatochromis ruweti
Pelmatochromis schoutedeni
Pelmatochromis subocellatus
Pelmatochromis thomasi
Pelvicachromis (all species
in genus)
Petenia kraussi
Petenia myersi
Petenia spectailis
<u>Petenia</u> <u>spendida</u>
Petrochromis "golden"
Petrochromis fasciolatus
Petrochromis orthognatus
Petrochromis trewavasae
Petrotilapia nigra
Petrotilapia tridentiger
Pseudocrenilabrus multicolor
Pseudocrenilabrus philander
Recudetrophous surstus
Pseudotropheus auratus
Pseudotropheus aurora
Pseudotropheus brevis
Pseudotropheus eduardi
Pseudotropheus elegans
Pseudotropheus elegans
<u>Pseudotropheus</u> <u>elegans</u> <u>elongatus</u>
PseudotropheuselegansPseudotropheuselongatusPseudotropheusfucoides
PseudotropheuselegansPseudotropheuselongatusPseudotropheusfucoides
PseudotropheuselegansPseudotropheuselongatusPseudotropheusfucoidesPseudotropheusfuscus
PseudotropheuselegansPseudotropheuselongatusPseudotropheusfucoidesPseudotropheusfuscusPseudotropheuslanisticola
PseudotropheuselegansPseudotropheuselongatusPseudotropheusfucoidesPseudotropheusfuscusPseudotropheuslanisticolaPseudotropheuslivingstoni
Pseudotropheus Pseudotropheuselegans elongatus fucoidesPseudotropheusfucoidesPseudotropheusfuscusPseudotropheuslanisticolaPseudotropheuslivingstoniPseudotropheuslombardoi
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kribensis cichlid cichlid cichlid cichlid cichlid cichlid cichlid cichlid cichlid, violet cichlid, African butterfly cichlid, dwarf cichlid cichlid cichlid cichlid cichlid petrochromis, banded petrochromis, plain-mouth petrochromis, brown petrochromis, filament-fin petrotilapia, dusky petrotilapia, blue mouthbrooder, dwarf Egyptian mouthbrooder, South African cichlid, Nyasa golden cichlid, aurora mbuna, silver-blue mbuna elegans mbuna, slender mbuna mbuna mbuna, snail-shell mbuna, Livingstone's kennyi mbuna mbuna tropheops, small-mouthed mbuna novemfasciatus tropheops mbuna, dolphin mbuna, Williams

COMMON NAME

SCIENTIFIC NAME

Pseudotropheus zebra

Pterophyllum altum Pterophyllum dumerili Pterophyllum scalare Reganochromis calliurum Sciaenochromis ahli Simochromis diagramma Spathodus erythrodon Spathodus marlieri Steatocranus casuarius Steatocranus tinanti Symphysodon aequifasciata aequifasciata Symphysodon aequifasciata axelrodi Symphysodon aequifasciata haraldi Symphysodon discus Taeniacara candidi <u>Taeniacara candidi</u> <u>Tanganicodus</u> <u>irsacae</u> <u>Teleogramma</u> brichardi Teleogramma gracile Teleogramma
Telmatochromismonogramma
bifrenatuscichlidTelmatochromis
Telmatochromiscaninus
caninustelmat, striped
caninusTelmatochromis
Telmatochromistemporales
temporalescichlid, temporalis
cichlid, temporalisTelmatochromis
Thysia
ansorgiitelmat, blunt-head
cichlid, five-spot
jacobfreibergiTrematocranus
Trematocranus
peterdaviesicichlid
cichlidTropheus
(all species in genus)cichlid
cichlid Teleogramma monogramma Xenotilapia boulengeri

FAMILY Cirrhitidae Cirrhitidae (all species in family)

FAMILY Echeneidae Echeneis naucrates

FAMILY Eleotrididae Eleotriodes elapoides Eleotriodes strigata

cichlid, Malawi blue (zebra) angelfish, long-finned angelfish, long-nose angelfish calliurus cichlid, African simochromis, diagonal bar cichlid, blue-spotted goby cichlid, goby cichlid, lionhead cichlid, slender lionhead discus, green discus, brown discus, blue discus, red (Heckel's) cichlid cichlid, spotfin goby cichlid, Brichard's slender cichlid cichlid cichlid, temporalis cichlid, five-spot African cichlid

hawkfish

sucker, shark; remora, striped

goby, silk sleeper, golden-headed

COMMON NAME

SCIENTIFIC NAME

Gobiomorphu<u>s</u> <u>australis</u> gudgeon, striped gudgeon, Cox's Gobiomorphus coxii gudgeon, golden Hypseleotris aurea Hypseleotris compressa gudgeon, carp; fish, empire Hypseleotris cyprino<u>ides</u> goby, chameleon Hypseleo<u>tris</u> ejuncida gudgeon, slender Hypseleotris
Hypseleotrisgalii
guentheri
kimberleyensissleeper, chameleon
gudgeon, Barnett River
sleeper, Australian pin
(rebul) gudgeon, firetail sleeper, Australian pink (qoby) Hypseleotris modestus qudqeon Hypseleotris regalis gudgeon, prince regent Milyeringa veritas gudgeon, blind (cave) Philypnodon grandiceps gudgeon, big-headed Prionobutis microps gudgeon, small-eyed FAMILY Enoplosidae oldwife Enoplosus armatus FAMILY Ephippididae Ephippididae (all species in spadefish family) FAMILY Gerreidae Gerreidae (all species in mojarra, spotfin family) FAMILY Gobiidae Gobiidae (all species in goby family) FAMILY Grammidae Grammidae (all species in basslet family) FAMILY Grammistidae Grammistidae (all species in soapfish family) FAMILY Haemulidae Haemulidae (all species in grunt family) FAMILY Helostomatidae Helostoma rudolfi gourami, kissing

SCIENTIFIC NAME	COMMON NAME
Helostoma temmincki	gourami, kissing
FAMILY Inermiidae Emmelichthyops atlanticus	bogita
FAMILY Kuhliidae Kuhliidae (all species in family)	aholehole
FAMILY Kyphosidae Kyphosidae (all species in family)	rudder fish
FAMILY Labridae Labridae (all species in family)	wrasse
FAMILY Lobotidae <u>Datnoides microlepis</u> <u>Datnoides quadrifasciatus</u> Lobotes <u>surinamensis</u>	tiger fish, Siamese tiger fish, many-barred tiger fish
FAMILY Lutjanidae Lutjanidae (all species in family)	snapper
FAMILY Malacanthidae Malacanthidae (all species in family)	tilefish
FAMILYMastacembelidaeMacrognathusaculeatusMacrognathussiamensisMastacembelusaculeataMastacembelusargusMastacembeluscircumcinctusMastacembelusellipsiferMastacembeluserythrotaeniaMastacembelusfrenatus	<pre>eel, spiny; eel, peacock eel, spiny spot-fin (peacock) eel, spiny eel, spiny eel, white-spotted spiny eel, half-banded spiny eel, spiny eel, spotted fire eel, spiny</pre>
MastacembelusfrenatusMastacembelusmooriMastacembelusophidiumMastacembeluspancalusMastacembelusreticulatusMastacembelussiamensisMastacembelussmithMastacembelustanganicea	<pre>eel, spiny eel, spiny eel, spiny eel, spiny eel, spiny eel, spot-finned spiny eel, false armatus spiny eel, spiny</pre>

\$4-71-6.5

SCIENTIFIC NAME

Mastacembelus zebrinus Rhynchobdella aculeata

FAMILYMicrodesmudaeNemateleotrisdecorafirefish, blueNemateleotrishelfrichifirefish, purpNemateleotrismagnificusfirefishPtereleotrismicrolepisgudgeon, bluePtereleotrissplendidumfirefishtricolorscissortail FAMILY Microdesmidae

FAMILY Monodactylidae Monodactylidae (all species in family)

FAMILY Mugiloididae Parapercis schauinslandi

FAMILY Mullidae Mullidae (all species in family)

FAMILY Nandidae Badis badis badis

<u>Badis badis burmanicus</u> Monocirrhus polyacanthus Nandus nandus Polycentropsis abbreviata Polycentrus schomburgki

FAMILY Nemipteridae Scolopsis bilineatus Scolopsis cancellatus

FAMILY Opistognathidae Opistognathidae (all species jawfish in family)

FAMILY Osphronemidae Osphronemus gouramy

FAMILY Pempherididae Pempherididae (all species in family)

eel, zebra spiny (zigzag) eel, spiny

firefish, blue firefish, purple

COMMON NAME

mono

grub fish, red

goatfish

badis; fish, dwarf chameleon badis, Burmese leaf fish leaf fish, Asian; nandus leaf fish, African leaf fish, Schomburgk's

snapper, two-lined snapper, yellow stripe

gourami, giant

sweeper

Equetus punctatus

\$4-71-6.5

SCIENTIFIC NAME COMMON NAME FAMILY Pentacerotidae Pentacerotidae (all species in armorhead family) FAMILY Percichthyidae Nannoperca vittata perch, Australian pygmy FAMILY Percidae perch, European Acerina cernua Etheostoma caeruleum darter, rainbow FAMILY Pholidichthyidae Pholidichthys leucotaenia goby, convict worm FAMILY Plesiopidae Plesiopidae (all species in betta, marine family) FAMILY Pomacanthidae Pomacanthidae (all species in angelfish family) FAMILY Pomacentridae Pomacentridae (all species in damselfish family) FAMILY Priacanthidae Priacanthidae (all species in big-eye family) FAMILY Pseudochromidae Pseudochromidae (all species dottyback in family) FAMILY Scaridae Scaridae (all species in parrotfish family) FAMILY Scatophagidae Scatophagidae (all species in scat family) FAMILY Sciaenidae cubbyu; cubbyu, high hat Equetus acuminatus <u>Equetus</u> lanceolatus jackknife fish

drum, spotted

SCIENTIFIC NAME	COMMON NAME
FAMILY Scombridae Scombridae (all species in family)	tuna
FAMILY Scorpididae Scorpididae (all species in family)	stripey
FAMILY Serranidae Serranidae (all species in family)	grouper
FAMILY Sparidae <u>Archosargus probatocephalus</u> <u>Archosargus rhomoboidalis</u> <u>Calamus bajonado</u> <u>Calamus calamus</u> <u>Calamus penna</u> <u>Calamus pennatula</u> <u>Diplodus caudimacula</u> <u>Sargus vulgaris</u>	sheepshead, black-barred bream, sea porgy, jolthead porgy, saucereye porgy, sheepshead pluma porgy, roundspot bream, two-banded
FAMILY Theraponidae <u>Therapon jarbua</u>	tigerfish, three-striped
FAMILY Toxotidae <u>Toxotes</u> <u>chatareus</u> <u>Toxotes</u> <u>jaculator</u> <u>Toxotes</u> <u>lorentzi</u> <u>Toxotes</u> <u>oligolepis</u>	archerfish, seven-spot archerfish archerfish, primitive archerfish, few-scaled
FAMILY Tripterygiidae Tripterygiidae (all species in family)	triplefin
ORDER Percopsiformes FAMILY Aphredoderidae <u>Aphredoderus</u> <u>sayanus</u>	perch, pirate
ORDER Pleuronectiformes FAMILY Bothidae <u>Bothus</u> <u>lunatus</u> Bothus <u>mancus</u> Bothus <u>ocellatus</u>	flounder, peacock flounder, tropical flounder, eyed

Paralichthys tropicus

\$4-71-6.5

SCIENTIFIC NAME

COMMON NAME

flounder, tropical <u>Pseudorhombus</u> <u>cinnamoneus</u> flounder, cinnamon

tonguefish

FAMILY Cynoglossidae Cynoglossidae (all species in family)

FAMILY Soleidae Achirus errans Achirus lineatus Trinectes maculatus

ORDER Salmoniformes FAMILY Umbridae Leptobarbus hoeveni

ORDER Scorpaeniformes FAMILY Cottidae Cottus bairdi

ORDER Siluriformes FAMILY Amphiliidae Phractura ansorgei

FAMILY Aspredinidae Agmus lyriformia Aspredo aspredo Bunocephalus amaurus Bunocephalus <u>amaurus</u> Bunocephalus bicolor Bunocephalus coracoideus Bunocephalus kneri

FAMILY Auchenipteridae Auchanipterichthys thoracatus Auchenipterus damerarae Centromochlus heckili Pseudauchenipterus nodosus Pseudepapterus hasemani Tatia aulopygia Tatia creut<u>zbergi</u> Tetranematichthysquadrifiliawoodcat, hi-hatTrachelyopterichthystaeniatuswoodcat, striped

sole, Brazilian freshwater flounder, freshwater sole, freshwater

barb, pink-tailed

sculpin, mottled

catfish, African whiptailed

catfish, lumpy banjo catfish catfish catfish, banjo catfish, frying-pan catfish, z-color ban catfish, banjo catfish, z-color banjo catfish

woodcat, zamora woodcat, demerara woodcat, Heckel's catfish, black tailband woodcat, haseman's woodcat, snowflake woodcat, Creutzberg's

COMMON NAME

FAMILY Bagridae Leiocassis <u>brashnikowi</u> Leiocassis siamensis Mystus micracanthus Mystus tengara Mystus vittatus <u>Mystus vittatus</u> <u>Parauchenipterus galeatus</u> <u>Parauchenoglanis guttatus</u> <u>Parauchenoglanis macrostoma</u> Pseudobagrus fulvidraco

FAMILY Callichthyidae <u>Aspidoras</u> (all species in genus) catfish, dwarf armored Aspidoras (all species in genus) Callichthys callichthys <u>Corydoras</u> (all species in genus) catfish, dwarf armored Dianema longibarbis Dianema longibarbis Dianema urostriata Hoplosternum littorale Hoplosternum pectorale Hoplosternum thoracatum

FAMILY Helogenidae Helogene marmoratus

FAMILY Ictaluridae Ictalurus punctatus

FAMILY Loricariidae Ancistrus cirrhus Ancistrus dolichopterus Ancistrus hoplogenys Ancistr<u>us</u> lineolatus Ancistrus temmincki Ancistrus triradiatus Cochliodon plecostomoides

Cteniloricaria fowleri Cteniloricaria maculata Cteniloricaria platystoma Farlowella acus Farlowella gracilis Farlowellaschreitmuellerifarlowella, royalHemiancistrusnicefordicatfish, clown suckerHemiancistrusvittatuscatfish, striped sucker Hemidonichthyes acispenserinus catfish

catfish, Russian catfish, barred Siamese catfish, two-spot catfish, Asiatic catfish catfish, starry catfish, African flathead catfish, African spotted catfish, tawny dragon

catfish, dwarf armored catfish, slender armored catfish, porthole catfish, stripe-tailed hoplo; cascudo catfish hoplo, port; atipa

helogenes, marbled

catfish, channel

catfish catfish catfish sucker, pearl bristle-nose bristle-nose, bristle-nose, Temminck's bristle-nose, branched catfish, spoon-tooth sucker catfish catfish catfish farlowella twig fish catfish, striped sucker

Hypancistrus zebra Hypoptopoma inexpectatum Hypoptopoma guentheri Hypostomus plecostomus Hypostomus punctatus Loricaria filamentosa Loricaria lanceolata Loricaria parva Microlepidogaster oxypropsis Monis<u>tiancistrus</u> <u>carachama</u> Otocinclus affinis Otocinclus arnoldi Otocinclus flexilis Otocinclus mariae Otocinclus paulinus Otocinclus vestitus Otocinclus vittatus Panaque nigrolineatus Panaque suttoni Parancistrus aurantiacus Parotocinclus maculicauda Peckoltia arenaria Peckoltia brevis <u>Peckoltia</u> oligospila Peckoltia platyrhyncha Peckoltia pulcher Peckoltia vittatus Plecostomus bolivianus Pseudacanthius leopardus Pterygoplichthys anisitsi Pterygoplichthys gibbiceps Pterygoplichthys bolivianus

Pterygoplichthys bolivianus Rineloricaria castrol Rineloricaria fallax Rineloricaria hasemani Rineloricaria lanceolata Stoneiella leopardus

Xenocara dolichoptera

FAMILY Mochokidae Brachysynodontis batensoda Hemisynodontis schall Synodontis acanthomias Synodontis afro-fischeri Synodontis alberti

COMMON NAME

plecostomus, zebra catfish, dwarf sucker catfish, dwarf sucker catfish, sucker catfish catfish, whiptail catfish catfish, whiptail catfish, dwarf sucker catfish catfish, midget sucker catfish, Arnold's sucker catfish, sucker imitator otocinclus, Maria's otocinclus catfish, Ampiyacu dwarf sucker catfish, striped sucker panaque; royal plecostomus plecostomus, blue-eyed catfish, sucker catfish peckoltia catfish, spotted head peckoltia catfish, flat faced catfish, pretty catfish, banded catfish, Bolivian sucker catfish catrisn pleco, snow king plecostomus, sailfin catfish, Bolivian sucker cat, whiptail catfish catfish catfish catfish, orange-trim sucker catfish, bushy-mouth

51

catfish

catfish catfish

catfish

catfish

COMMON NAME

Synodontis albolineatu	s catfish
Synodontis angelicus	catfish, polka-dot African
Synodontis angierasi	catfish
Synodontis annectens	catfish
Synodontis ansorgii	catfish
Synodontis arabi	catfish
Synodontis arnoulti	catfish
Synodontis aterrimus	catfish
Synodontis augierasi	catfish
Synodontis bastiani	catfish
Synodontis batensoda	catfish
Synodontis batesi	catfish
Synodontis brichardi	catfish
Synodontis budgetti	catfish
Synodontis cameloparda	
Synodontis caudalis	catfish
Synodontis caudovittat	
Synodontis centralis	catfish
Synodontis citernii	catfish
Synodontis clarias	catfish
Synodontis colyeri	catfish
Synodontis congicus	catfish
Synodontis contractus	catfish, David's
	upside-down
Synodontis courteti	catfish
Synodontis cuangoanus	catfish
Synodontis dageti	catfish
Synodontis davidi	catfish
Synodontis decorus	catfish
Synodontis depauwi	catfish
Synodontis dhonti	catfish
Synodontis dorsomacula	
Synodontis eburneensis	catfish
Synodontis eupterus	catfish
Synodontis eurystomus	catfish
Synodontis fascipinna	catfish
Synodontis filimentosu	s catfish
Synodontis flavitaenia	
Synodontis frontosus	catfish
Synodontis fuelleborni	
Synodontis gambiensis	catfish
Synodontis geledensis	catfish
Synodontis gobroni	catfish
Synodontis granulosus	catfish
Synodontis greshoffi	
	catfish
Synodontis quentheri	catfish catfish
<u>Synodontis</u> <u>guentheri</u> Synodontis guttatus	

COMMON NAME

a 1 1	, .
Synodontis	haugi
Synodontis	hollyi
Synodontis	holopercnus
Synodontis	humeratus
Synodontis	irsacae
Synodontis	ituriensis
Synodontis	iturii
Synodontis	jallae
Synodontis	katangae
Synodontis	khartoumensis
Synodontis	koensis
Synodontis	labeo
Synodontis	lacustricolus
<u>Synodontis</u>	leopardinus
<u>Synodontis</u>	longirostris
Synodontis	longispinis
Synodontis	loppei
Synodontis	lufirae
Synodontis	macrepipterus
<u>Synodontis</u>	macrodon
Synodontis	macrophthalmus
Synodontis	macrops
Synodontis	macrostigma
Synodontis	maculatus
Synodontis	maculipinna
<u>Synodontis</u>	maculosis
Synodontis	marmoratus
Synodontis	matthesi
Synodontis	melanogaster
Synodontis	melanopterus
<u>Synodontis</u>	melanostictus
<u>Synodontis</u>	membranaceus
Synodontis	menanogaster
Synodontis	multimaculatus
Synodontis	multipunctatus
<u>Synodontis</u>	nebulosus
Synodontis	nigrita
Synodontis	<u>nigriventris</u>
Synodontis	<u>nigromaculatus</u>
Synodontis	notatus
Synodontis	nummifer
Synodontis	nummifer dshahensis
Synodontis	nyassae
Synodontis	obesus
<u></u>	

catfish catfish catfish catfish catfish catfish catfish squeaker, Jalla's catfish catfish catfish catfish catfish squeaker, spotted catfish catfish catfish catfish catfish catfish catfish catfish squeaker, spotted catfish squeaker catfish, lace catfish, black-belly upside-down catfish, black-dot upside-down catfish, spotted catfish catfish catfish catfish

COMMON NAME

Comedentia			
Synodontis		catfish	
Synodontis		catfish	
Synodontis		catfish	
	ornatipinnis	catfish	
Synodontis		catfish	
Synodontis		catfish	
	<u>pantherinus</u>	catfish	
Synodontis		catfish	
	polystigma	catfish	
Synodontis		catfish	
Synodontis		catfish	
	<u>punctulatus</u>	catfish	
Synodontis		catfish	
	resupinatus	catfish	
Synodontis	<u>robbianus</u>	catfish	
Synodontis	ruandae	catfish	
Synodontis	ruffigiensis	catfish	
Synodontis	schall	catfish	
Synodontis	<u>schoutendeni</u>	catfish	
Synodontis	sepentis	catfish	
Synodontis	serratus	catfish	
Synodontis	smiti	catfish	
Synodontis	<u>soloni</u>	catfish	
Synodontis	sorex	catfish	
	stendachneri	catfish	
Synodontis		catfish	
Synodontis	tessmanni	catfish	
Synodontis	thamalakanensis	catfish	
Synodontis	tholloni	catfish	
Synodontis	thysi	catfish	
Synodontis		catfish	
Synodontis		catfish	
Synodontis		catfish	
	vermiculatus	catfish	
Synodontis		catfish	
Synodontis		catfish	
Synodontis		catfish,	striped
Synodontis		catfish	1
Synodontis		catfish	
<u></u>	<u></u>	24021011	

COMMON NAME

catfish catfish

Synodontis zambezensis Synodontis zambezensis rukwaensis Synodontis zanzibaricus FAMILY Pangasiidae Pangasius sutchi FAMILY Pimelodidae Microglanis parahybae Microglanis poecilus Pimelodella dorseyi Pimelodella gracilis Pimelodella hartwelli Pimelodella imitator Pimelodella laticeps Pimelodella linami Pimelodella metae Pimelodella parnahybae Pimelodella pictus Pimelodella rambarrani Pimelodus albofasciatus Pimelodus clarias Pimelodus maculatus Pimelodus ornatus Pimelodus pictus Pinirampus pirinampu Sciades marmoratus Sciades pictus Sorubim lima Sorubimichthys planiceps FAMILY Schilbeidae Eutropiellas debauwi Parailia longifilis Platytropius siamensis Schilbe marmoratus Schilbe mystus Schilbe uranoscopus FAMILY Siluridae Kryptopterus bicirrhis Kryptopterus macrocephalus Ompok bimaculatus

catfish shark, Siamese catfish, dwarf marbled catfish, dwarf marbled pimelodella, Dorsey's pimelodella, slender pimelodella catfish pimelodella, flat-head pimelodella, Linam's pimelodella, Rio Meta pimelodella, parnahyba catfish, pictus catfish pimelodus, banded pimelodus, spotted pimelodus, spotted pimelodus, ornate pimelodus, angelicus catfish, long-finned catfish, marbled catfish, painted catfish, shovelnose catfish, spotted shovelnose catfish, three-striped glass catfish, mottled glass catfish catfish, African shoulder spot catfish, striped schilbe catfish, silver schilbe catfish, glass catfish, poor man's glass catfish, one-spot glass

CONDITIONAL ANIMAL LIST

\$4-71-6.5

SCIENTIFIC NAME	COMMON NAME
<u>Ompok sabanus</u> ORDER Tetraodontiformes FAMILY Balistidae Balistidae (all species in family)	catfish leatherjacket
FAMILY Diodontidae Diodontidae (all species in family)	porcupinefish
FAMILY Monacanthidae Monacanthidae (all species in family)	filefish
FAMILY Ostraciidae Ostraciidae (all species in family)	boxfish
FAMILY Tetraodontidae Tetraodontidae (all species in family)	puffer
FAMILY Triodontidae Triodon <u>macropterus</u>	puffer, three-toothed

BIRDS

(After Sibley and Monroe 1990)

PHYLUM Chordata	
CLASS Aves	
ORDER Columbiformes	
FAMILY Columbidae	
Chalcophaps indica	dove, emerald
Columba leuconota	pigeon, snow
Columba picazuro	pigeon, Picazuro
Columbina minuta	dove, plain-breasted
	ground
Columbina squammata	dove, scaled
Gallicolumba criniger	dove, Bartlett's; Mindinao
	bleeding-heart
Gallicolumba luzonica	dove, Luzon bleeding-heart
Geopelia cuneata	dove, diamond
Geopelia striata	dove, zebra (barred)

SCIENTIFIC NAME

<u>Geophaps</u> <u>lophotes</u> <u>Goura victoria</u> <u>Macropygia</u> <u>magna</u>

Oena capensis

<u>Phaps</u> <u>chalcoptera</u> <u>Streptopelia</u> <u>bitorquata</u>

Streptopelia capicola

Streptopelia chinensis

<u>Streptopelia</u> <u>decaocto</u> <u>Streptopelia</u> <u>roseogrisea</u> risoria

Turtur chalcospilos

FAMILY Pteroclidae Pterocles exustus

ORDER Galliformes FAMILY Numididae <u>Acryllium</u> <u>vul</u>turinum

FAMILY Odontophoridae <u>Callipepla californicus</u> (=Lophortyx californicus) <u>Callipepla gambelii</u> (=Lophortyx <u>gambelii</u>) <u>Callipepla squamata</u> <u>Colinus</u> (all species in genus) <u>Cyrtonyx montezumae</u> <u>Oreortyx picta</u>

FAMILY Phasianidae <u>Alectoris</u> <u>barbara</u> <u>Alectoris</u> <u>chukar</u> <u>Alectoris</u> <u>rufa</u> <u>Ammoperdix</u> <u>griseogularis</u> <u>Argusianus</u> <u>argus</u> <u>Bambusicola</u> <u>fytchii</u>

Bambusicola thoracica

COMMON NAME

(barred shouldered) pigeon, crested pigeon, Victoria crowned dove, cuckoo large (greater) dove, cape (masked) (namaqua) pigeon, bronzewing dove, Javanese collared (Javanese turtle) dove, ring-necked (Chinese) (lace-necked) dove, white sacred (spotted) dove, collared dove, ringed turtle (domesticated form) dove, emerald-spotted wood

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sandgrouse, Indian
(chestnut-bellied)
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guineafowl, vulturine

quail, California

quail, Gambel's

quail, scaled bobwhites quail, Montezuma quail, mountain

partridge, barbary
partridge, chukar
partridge, red-legged
partridge, see-see
argus, great
partridge, mountain
bamboo
partridge, Chinese bamboo

COMMON NAME

SCIENTIFIC NAME

Catreus wallichi Chrysolophus (all species in genus) Coturnix chinensis Coturnix japonica Crossoptilon (all species in genus) Francolinus (all species in genus) Gallus (all species in genus) Ithaginis cruentus Lophophorus (all species in genus) Lophura (all species in genus) Meleagris gallopavo Numida meleagris Pavo (all species in genus) Perdix perdix Phasianus colchicus Polyplectron (all species in genus) Pucrasia macrolopha Rheinardia ocellata Rollulus roulroul Syrmaticus(all species in genus)pheasant, long-tailedTragonan(all species in genus)pheasant tragonan Tragopan (all species in genus)

ORDER Passeriformes FAMILY Alaudidae Melanocorypha mongolica

FAMILY Corvidae Oriolus chinensis (males only) Oriolus oriolus (males only) Pericrocotus flammeus

FAMILY Fringillidae Carduelis carduelis (males only) Carpodacus erythrinus (males only) Coccothraustes coccothraustes (males only) Coryphospingus pileatus (males only) Emberiza a<u>ureola</u> Emberiza cioides

pheasant, cheer pheasant, ruffed quail, blue-breasted quail, Japanese pheasant, eared francolins junglefowl pheasant, blood pheasant, monal gallopheasant turkey, wild common guinea-fowl, helmeted peafowl partridge, grey pheasant, common pheasant, peacock pheasant, koklass argus, crested partridge, crested pheasant, tragopan lark, Mongolian

oriole, black-naped oriole, Eurasian golden minivet, scarlet

goldfinch, European rosefinch, common

hawkfinch

finch, pileated

bunting, yellow-breasted bunting, meadow (Hojiro)

COMMON NAME

Emberiza elegans

Emberiza rustica Emberiza sulphurata Emberiza tristrami Gubernatrix cristata Paroaria capitata Paroaria dominicana Paroaria gularis Serinus canaria Serinus leucopygius Serinus flaveola (males only) Tiaris canora

<u>Tiaris</u> <u>olivacea</u>

Volatinia jacarina

FAMILY Irenidae Irena puella

FAMILY Muscicapidae Copsychus malabaricus Copsychus saularis

<u>Gracula</u> <u>religiosa</u> Myiophoneus horsfieldii

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FAMILY Passeridae

Amadina erythrocephala

Amadina fasciata (males only)

Amandava amandava

Amandava subflava

Chloebia gouldiae

Emblema pictum

Erythrura cyaneovirens

Erythrura prasina

Erythrura psittacea

Erythrura trichroa

Erythrura viridifacies (males

only)

Estrilda astrild

Estrilda atricapilla
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Estrilda caerulescens

bunting, elegant (yellow-throated) bunting, rustic bunting, yellow bunting, Tristram's cardinal, yellow cardinal, yellow-billed cardinal, pope (red-cowled) cardinal, red-capped canary, island seed-eater, white-rumped canary, yellow-fronted finch, saffron finch, Cuban grassquit (Cuban melodius) finch, yellow-faced grassquit (Cuban olive) grassquit, blue-black

bluebird, Asian fairy

shama, white-rumped
thrush, Dayal; oriental
magpie robin
myna, hill
thrush, whistling Malabar

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finch, red-headed
finch, cut-throat (ribbon)
finch, red avadavat
waxbill, zebra
finch, Gouldian
finch, painted (emblem)
parrotfinch, red-headed
parrotfinch, red-headed
parrotfinch, blue-faced
parrotfinch, green-faced
finch, St. Helena waxbill
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(common waxbill) waxbill, black-headed waxbill, lavender

Estrilda erythronotos Estrilda melpoda Estrilda troglodytes Euplectes afer Euplectes franciscanus Euplectes hordeaceus Euplectes orix Heteromunia pectoralis Hypargos niveoguttatus Lagonosticta rara Lagonosticta rubricata Lagonosticta senegala Lagonosticta striata acutucauda Lonchura cantans Lonchura cucullata Lonchura ferruginosa Lonchura flaviprymna Lonchura malacca Lonchura punctulata Lonchura striata Neochmia modesta Neochmia phaeton Neochmia ruficauda Neochmia temporalis Poephila acuticauda Poephila cincta Poephila personata Pytilia afra Pytilia melba Pytilia phoenicoptera Stagonopleura guttata Taeniopygia guttata Uraeginthus bengalus Uraeginthus cyanocephala

<u>Uraeginthus</u> <u>granatina</u> <u>Uraeginthus</u> <u>ianthinogaster</u>

<u>Vidua</u> <u>macroura</u> Vidua paradisaea

COMMON NAME

waxbill, black-cheeked waxbill, orange-cheeked waxbill, black-rumped bishop, yellow-crowned bishop, orange bishop, black-winged bishop, red munia, pictorella finch, Peter's twinspot finch, black-bellied firefinch, African firefinch, red-billed munia, Bengalese; white-rumped munia silver-bill, African munia, bronze munia, white-capped munia, yellow-rumped munia, black-headed munia, scaly-breasted munia, white-rumped finch, plum-headed finch, crimson (Australian fire) finch, star firetail, red-browed finch, long-tailed finch, black-throated finch, masked finch, orange-winged pytilia finch, melba (green-winged pytilia) finch, red-winged pytilia firetail, diamond finch, zebra finch, cordon bleu (red-cheeked) finch, blue-capped cordon bleu grenadier, common grenadier, purple whydah, pin-tailed whydah, eastern paradise

COMMON NAME

FAMILY Sylviidae Cettia diphone Garrulax albogularis

Garrulax canorus Garrulax chinensis (males only)

Garrulax leucolophus (males only) Leiothrix argentauris (males only) Leiothrix lutea Minla cyanouroptera

ORDER Psittaciformes FAMILY Psittacidae Agapornis (all species in genus) Alisterus (all species in genus) Amazona (all species i Amazona (all species in genus) Anodorhynchus (all species in genus) Aprosmictus (all species in genus) parrot Ara (all species in genus) Aratinga (all species in genus except A. nana astec) Bolborhynchus lineola Caca<u>tua</u> (all species in genus) Callocephalon fimbriatum Calyptorhynchus (all species in genus) Cyanoliseus patagonus

Cyanoramphus (all species in genus) Deroptyus accipitrinus

Eclectus roratus Elophus roseicapillus Enicognathus (all species in genus) Eunymphicus cornutus Leptosittaca branickii Melopsittacus undulatus Neophema (all species in genus) Nymphicus [holandicus] hollandicus

bush-warbler, Japanese laughingthrush, white-throated hwamei laughingthrush, black-throated laughingthrush, white-crested mesia, silver-eared

leiothrix, red-billed minla, blue-winged

lovebird parrot, king parrot, Amazon macaw

macaw parakeet

> parakeet, barred "cockatoo, white" cockatoo, Gang-gang "cockatoo, black"

conure, Patagonian; burrowing parakeet parakeet

parrot, hawk-headed; red-fan parrot parrot, eclectus Galah conure, slender-billed; parakeet parakeet, horned parakeet, golden-plumed parakeet, budgerigar parrot cockatiel

SCIENTIFIC NAME

COMMON NAME

parrot

Pionus (all species in genus) Platycercus (all species in genus) Poicephalus (all species in genus) Polytelis (all species in genus) Probosciger aterrimus Psephotus (all species in genus) parrot Psittacula alexandri

Psittacula cyanocephala Psittacula derbiana

Psittacula eupatria Psittacula himalayana Psittacula roseata

Psittacus erithacus Purpureicephalus spurius Pyrrhura (all species in genus) Tanygnathus (all species in genus)

ORDER Turniciformes FAMILY Turnicidae Turnicidae (all species in family)

rosella; ringneck parrot parrot cockatoo, Palm parakeet, moustache (red-breasted) parakeet, plum-headed parakeet, Lord Derby's (Derbyan's) parakeet, Alexandrine parakeet, slaty-headed parakeet, rose-headed (blossom-headed) parrot, grey parrot, red-capped parakeet parrot

buttonquail

MAMMALS

PHYLUM Chordata	
CLASS Mammalia	
ORDER Rodentia	
FAMILY Caviidae	
<u>Cavia</u> <u>cobaya</u> (= <u>Cavia</u> <u>porcellus</u>)	guinea pig
FAMILY Chinchillidae	
Chinchilla lanigera	chinchilla
FAMILY Muridae	
Mus musculus Rattus sp.	mice, domesticated rat, domesticated

LIST OF RESTRICTED ANIMALS

November 28, 2006

PART A: FOR RESEARCH AND EXHIBITION

SCIENTIFIC NAME

COMMON NAME

earthworm

INVERTEBRATES

PHYLUM Annelida	
CLASS Hirudinea	
ORDER Gnathobdellida	
FAMILY Hirudinidae	
Hirudo medicinalis	leech, medicinal

ORDER Rhynchobdellae FAMILY Glossiphoniidae <u>Helobdella</u> <u>triserialis</u> leech, small snail

CLASS Oligo	chaeta		
ORDER Hap	olotaxida		
FAMILY	Euchytraeidae		
Enchytraeidae	(all species in	worm,	white
family)			

FAMILY Eudrilidae <u>Helodrilus</u> <u>foetidus</u>

FAMILYLumbricidaeLumbricusterrestrisearthwormAllophora(all species in genus)earthworm

CLASS Polychaeta ORDER Phyllodocida FAMILY Nereidae <u>Nereis japonica</u> lugworm

PHYLUM Arthropoda CLASS Arachnida ORDER Acari FAMILY Phytoseiidae <u>Iphiseius</u> <u>degenerans</u> <u>Mesoseiulus</u> <u>longipes</u> <u>Mesoseiulus</u> <u>californicus</u> <u>Neoseiulus</u> <u>longispinosus</u> <u>Typhlodromus</u> <u>occidentalis</u>

FAMILY Tetranychidae Tetranychus lintearius predator, spider mite mite, western predatory

COMMON NAME

biocontrol agent, gorse

amphipod, marine

CLASS Crustacea ORDER Amphipoda FAMILY Hyalidae Parhyale hawaiensis

FAMILY Porcellanidae Petrolisthes cabrolloi crab, porcelain	<u>olisthes</u> <u>cabrolloi</u> crab,	porcelain
Petrolisthes cabrolloi crab. porcelain		porcelain
Petrolisthes cinctipes crab, porcelain	<u>olisthes</u> <u>cinctipes</u> crab,	porcelain
Petrolisthes elongatus crab, porcelain	olisthes elongatus crab,	porcelain
Petrolisthes eriomerus crab, porcelain	olisthes eriomerus crab,	porcelain
Petrolisthes gracilis crab, porcelain	olisthes gracilis crab,	porcelain
Petrolisthes granulosus crab, porcelain	olisthes granulosus crab,	porcelain
Petrolisthes japonicus crab, porcelain	olisthes japonicus crab,	porcelain
Petrolisthes laevigatus crab, porcelain	olisthes laevigatus crab,	porcelain
Petrolisthes manimaculis crab, porcelain	olisthes manimaculis crab,	porcelain
Petrolisthes tuberculatus crab, porcelain	olisthes tuberculatus crab,	porcelain
Petrolisthes violaceus crab, porcelain	olisthes violaceus crab.	porcelain

ORDER Cladocera	
FAMILY Daphnidae	
Ceriodaphnia dubia	flea, water
ORDER Mysidacea	
FAMILY Mysidae	
Mysidopsis bahia	shrimp, mysid

SCIENTIFIC NAME

CLASS Insecta ORDER Coleoptera FAMILY Apionidae Apion scutellare

FAMILY Buprestidae Lius poseidon

FAMILY Chrysomelidae Chlamisus gibbosa

FAMILY Coccinellidae Delphastus pusillus

Hippodamia convergens Nephaspis oculatus

Nephaspis bicolor

Stethorus nigripes Stethorus picipes

FAMILY Curculionidae Acythopeus sp. 1

Acythopeus sp. 2

Acythopeus sp. 3

Auletobius convexifrons Gymnaetron tetrum

FAMILY Scarabaeidae Euoniticellus intermedius Onitis vanderkelleni

ORDER Diptera FAMILY Chamaemyiidae Leucopis (all species in subgenus) predator

FAMILY Drosophilidae Drosophila (all species in genus) Zapriothrica sp.

biocontrol agent, gorse biocontrol agent, clidemia biocontrol agent, blackberry predator, spiraling whitefly beetle, convergent lady predator, spiraling whitefly predator, spiraling whitefly predator, spider mites predator, spider mites biocontrol agent, ivy gourd biocontrol agent, ivy gourd biocontrol agent, ivy gourd biocontrol agent, firetree biocontrol agent, common

COMMON NAME

predator, hornfly predator, horn fly

mullein

flies, pomace biocontrol agent, banana poka

SCIENTIFIC NAME	COMMON NAME
FAMILY Lonchaeidae Dasiops curubae	biocontrol agent, banana poka
FAMILY Muscidae <u>Musca</u> domestica	house fly
FAMILY Tephritidae <u>Ceratitus capitata</u> <u>Urophora stylata</u>	fly, Mediterranean fruit biocontrol agent, bull thistle
ORDER Heteroptera FAMILY Anthocoridae <u>Orius tristicolor</u>	bug, minute pirate
ORDER Homoptera FAMILY Eriococcidae <u>Tectococcus</u> <u>ovatus</u>	biocontrol agent, strawberry guava
ORDER Hymenoptera FAMILY Aphelinidae Aphelinus (all species in genus) Cales noacki Encarsia formosa Encarsia guadeloupae Encarsia ?haitiensis Encarsia ?haitiensis Encarsia lutea Encarsia lutea Encarsia mineoi Encarsia pergandiella Mesidia (all species in genus) Mesidiopsis (all species in genus) Protaphelinus (all species in genus)	<pre>parasite, aphid parasite, woolly whitefly parasite, greenhouse whitefly parasite, spiraling whitefly parasite, spiraling whitefly parasite, sweetpotato whitefly parasite, sweetpotato whitefly parasite, greenhouse whitefly parasite, aphid parasite, aphid</pre>
FAMILY Aphidiidae Aphidiidae (all species in family)	parasite, aphid

FAMILY Bethylidae <u>Cephalonomia</u> <u>stefanoderis</u> (lab-reared strains) <u>Prorops</u> <u>nasuta</u> (lab-reared strains)

FAMILY Braconidae Apanteles gelechiidivorus Apanteles scutellaris Diachasmimorpha tryoni Fopius ceratitivorus

Heterospilus coffeicola (lab-reared strains) Opius dissitus Opius dimidiatus Orgilus elasmopalpi

<u>Parahormius pallidipes</u> <u>Pseudapanteles dignus</u> Psytallia insignipennis

FAMILY Cynipidae Ganaspidium utilis

FAMILY Encyrtidae Copidosoma truncatellum

Psyllaephagus yaseeni Zeteticontus utilis

FAMILY Eulophidae <u>Chrysocharis oscinidis</u> <u>Chrysonotomyia punctiventris</u> <u>Diaulinopsis callichroma</u> <u>Diglyphus begini</u> <u>Horismenus elineatus</u>

<u>Pediobius acantha</u> <u>Phymasticus coffea</u> (lab-reared strains) <u>Sympiesis stigmatipennis</u> Tetrastichus brontispae

FAMILY Ichneumonidae <u>Diadegma</u> <u>aemiclausum</u> <u>Diadegma</u> <u>collaris</u>

COMMON NAME

parasite, tropical nut borer parasite, tropical nut borer

parasite, tomato pinworm parasite, tomato pinworm wasp, parasitic biocontrol agent, Mediterranean fruit fly parasite, tropical nut borer parasite, leafminer parasite, leafminer parasite, lesser cornstalk borer parasite, tomato pinworm parasite, tomato pinworm parasite, tomato pinworm

parasite, leafminer

parasite, green garden
 looper
parasite, leucaena psyllid
parasite, souring beetles

parasite, leafminer parasite, leafminer

parasite, leafminer parasite, leafminer parasite, lesser cornstalk borer parasite, leafminer parasite, tropical nut borer parasite, tomato pinworm parasite, blue coconut leaf beetle

parasite, diamondback moth parasite, diamondback moth

SCIENTIFIC NAME

FAMILY Platygasteridae <u>Amitus</u> ?<u>spiniferus</u>

FAMILY Pteromalidae <u>Halticoptera</u> patellana

FAMILY Tenthredinidae Priophorus morio

ORDER Isoptera FAMILY Rhinotermitidae <u>Coptotermes</u> <u>formosanus</u>

ORDER Lepidoptera FAMILY Carposinidae Carposinia bullata

FAMILY Coleophoridae Coleoph<u>ora klimeschiella</u>

Coleophora parthenica

FAMILY Crambidae Pyrausta perelegans

FAMILY Dioptidae Josia ligata

Josia fluonia

FAMILY Gracillariidae Caloptilia schinella Phyllonorycter myricae

FAMILY Momphidae Mompha trithalama COMMON NAME

parasite, woolly whitefly

parasite, leafminer

biocontrol agent, blackberry

termite, Formosan subterranean

biocontrol agent, Koster's
 curse

biocontrol agent, Russian thistle biocontrol agent, Russian thistle

biocontrol agent, banana poka

biocontrol agent, banana
poka
biocontrol agent, banana
poka

biocontrol agent, firetree biocontrol agent, firetree

biocontrol agent, Koster's
 curse

SCIENTIFIC NAME

FAMILY Noctuidae Antiblemma acclinalis

Cucullia verbasci

FAMILY Notodontidae Cyanotricha necyria

FAMILY Oecophoridae Agonopterix ulicetella

FAMILY Pyralidae Ephestia kuehniella Galleria mellonella Pempelia genistella

FAMILY Scythrididae Scythris gallicella

FAMILY Sesiidae Melittia oedipus

Pennisetia marginata

FAMILY Tortricidae Cryptophlebia ombrodelta

[ORDER Orthoptera] [FAMILY Gryllidae] [Acheta domesticus]

ORDER Thysanoptera FAMILY Thripidae <u>Scolothrips</u> <u>sexmaculatus</u> Sericothrips <u>staphylinus</u> biocontrol agent, Koster's curse biocontrol agent, common mullein

COMMON NAME

biocontrol agent, banana poka

biocontrol agent, gorse

moth, Mediterranean flour moth, greater wax biocontrol agent, gorse

biocontrol agent, gorse

biocontrol agent, ivy gourd biocontrol agent, blackberry

moth, litchi fruit

[cricket, house]

thrips, sixspotted biocontrol agent, gorse

CLASS Crustacea ORDER Decapoda FAMILY Alpheidae Athanas (all species in genus) shrimp, anemone

SCIENTIFIC NAME

COMMON NAME

crab, coconut

crab, hermit

crab, hermit

crab, land

spiny

crab, great land crab, land

shrimp, anemone

shrimp, anemone

crab, herbivorous; spider,

FAMILY Cambaridae <u>Cambarus</u> (all species in genus) crayfish

FAMILY Coenobitidae <u>Birgus latro</u> <u>Coenobita brevimanus</u> Coenobita perlatus

FAMILY Gecarcinidae Cardisoma carnifex Cardisoma guanhumi Gecarcoides lalandii

FAMILY Hippolytidae <u>Thor</u> <u>amoinessis</u> Thor paschalis

FAMILY Majidae Mithrax spinosissimus

FAMILY Ocypodidae <u>Uca</u> (all species in genus) crab, fiddler

FAMILY	Palaemonidae		
Periclimenes	brevicarpalis	shrimp	, anemone
Periclimenes	longirostris	shrimp	, anemone
Periclimenes	ornatus	shrimp	, anemone
Periclimenes	paraornatus	shrimp	, anemone
Periclimenes	tunipes	shrimp	, anemone

CLASS Merostomata ORDER Xiphosura FAMILY Limulidae Limulus polyphemus

crab, horseshoe

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SCIENTIFIC NAME

COMMON NAME

PHYLUM Chordata CLASS Ascidiacea ORDER Aplousobranchia FAMILY Didemnidae Lissoclinum patellum tunicates (sea squirts)

PHYLUM Cnidaria CLASS Anthozoa ORDER Actinaria FAMILY Actiniidae Actiniidae (all species in family) anemone, sea FAMILY Edwardsiidae Nematostella vectensis anemone, starlet sea FAMILY Stichodactylidae Stichodactylidae (all species anemone, sea in family) FAMILY Thalassianthidae Thalassianthidae (all species anemone, sea in family) ORDER Alcyonacea FAMILY Acanthogorgiidae Acanthogorgiidae (all species gorgonian in family) FAMILY Alcyoniidae Alcyoniidae (all species in family, coral, leather except Sarcophyton ehrenbergi, S. glaucum, S. trocheliophorum) FAMILY Asterospiculariidae Asterospiculariidae (all species coral, leather in family) FAMILY Briareidae Briareidae (all species in family) gorgonian FAMILY Clavulariidae Clavulariidae (all species polyp, star in family)

§4-71-6.5

SCIENTIFIC NAME	COMMON NAME
FAMILY Cornulariidae Cornulariidae (all species in family)	polyp, star
FAMILY Ellisellidae Ellisellidae (all species in family)	gorgonian
FAMILY Gorgoniidae Gorgoniidae (all species in family)	gorgonian
FAMILY Isidadae Isidadae (all species in family)	gorgonian
FAMILY Melithaeidae Melithaeidae (all species in family)	gorgonian
FAMILY Nephtheidae Nephtheidae (all species in family)	coral, tree
FAMILY Nidaliidae Nidaliidae (all species in family)	coral, tree
FAMILY Paralcyoniidae Paralcyoniidae (all species in family)	coral, Christmas tree
FAMILY Subergordiidae Subergordiidae (all species in family)	gorgonian
FAMILY Tubiporidae Tubiporidae (all species in family)	coral, red pipe organ
FAMILY Xeniidae Xeniidae (all species in family)	coral, pulse
ORDER Antipatharia Antipatharia (all species in order)	coral, black and whip
ORDER Ceriantharia Ceriantharia (all species in order)	anemone, tube

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COMMON NAME SCIENTIFIC NAME ORDER Corallimorpharia FAMILY Discosomatidae Discosomatidae (all species anemone, mushroom in family) FAMILY Ricordeidae Ricordeidae (all species in family) anemone, mushroom ORDER Helioporacea FAMILY Helioporidae Heliopora coerula coral, blue ORDER Pennatulacea Pennatulacea (all species in order) sea pen ORDER Scleractinia FAMILY Acroporidae Acroporidae (all species in family, coral, staghorn except Acropora aspersa, A. austera, A. elseyi, A. formosa, A. microphthalma, A. nana) FAMILY Agariciidae Agariciidae (all species in family) coral FAMILY Astrocoeniidae Astrocoeniidae (all species coral in family) FAMILY Caryophylliidae Caryophylliidae (all species coral in family) FAMILY Dendrophylliidae coral Dendrophylliidae (all species in family) FAMILY Faviidae Faviidae (all species in family) coral FAMILY Fungiidae Fungiidae (all species in family) coral, mushroom FAMILY Merulinidae Merulinidae (all species in family) coral

SCIENTIFIC NAME

COMMON NAME

FAMILY Mussidae Mussidae (all species in family)	coral
FAMILY Oculinidae Oculinidae (all species in family)	coral
FAMILY Pectiniidae Pectiniidae (all species in family)	coral
FAMILY Pocilloporidae Pocilloporidae (all species in family)	coral
FAMILY Poritidae Poritidae (all species in family)	coral
FAMILY Siderastreidae Siderastreidae (all species in family)	coral
FAMILY Trachyphylliidae Trachyphylliidae (all species in family)	coral
ORDER Zoantharia FAMILY Epizoanthidae Epizoanthidae (all species in family)	polyp, button
FAMILY Parazoanthidae Parazoanthidae (all species in family)	polyp, button
FAMILY Zoanthidae Zoanthidae (all species in family)	polyp, button

CLASS Hydrozoa ORDER Hydroidea FAMILY Stylasteridae Stylasteridae (all species in family) coral, lace

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SCIENTIFIC NAME

COMMON NAME

CLASS Scyphozoa ORDER Rhizostomeae Rhizostomeae (all species in order) jellyfish

ORDER Semaeostomeae Semaeostomeae (all species in order) jellyfish

PHYLUM Echinodermata CLASS Crinoidea Crinoidea (all species in class) crinoid

CLASS Echinoidea Echinoidea (all species in class) echinoderm

PHYLUM Echiuroida CLASS Echiura ORDER Xenopneusta FAMILY Urechidae <u>Urechis caupo</u> worm, innkeeper

PHYLUM	Mollusca		
CLASS	Bivalvia		
ORDE	IR Arcoida		
FA	MILY Arcidae		
Anadara	maculosa	clam,	Fiji

ORDER Veneroida FAMILY Veneridae <u>Gafarium tumidum</u> clam, Fiji

CLASS	Cephalopoda	
ORDEI	R Nautilida	
FAI	MILY Nautilidae	
Nautilus	belauensis	nautilus
Nautilus	pompilius	nautilus

SCIENTIFIC NAME

ORDER Octopoda FAMILY Octopodidae Octopus sp. 19 [Norman 2000] octopus, mimic Octopus sp. 20 [Norman 2000] octopus, "Wunderpus"

ORDER Sepioidea FAMILY Idiosepiidae Idiosepius paradoxus squid, northern pygmy Idiosepius pygmaeus squid, two-tone pygmy

FAMILY Sepiadariidae Sepioloidea lineolata squid, striped pyjama

FAMILY Sepiidae <u>Sepia</u> (all species in genus) cuttlefish

ORDER Teuthoidea FAMILY Loliginidae Sepioteuthis lessoniana squid, baby

CLASS Gastropoda ORDER Anaspidea FAMILY Aplysiidae Aplysia californica

sea hare, California

COMMON NAME

ORDER Mesogastropoda	
FAMILY Ampullariidae	
Pila ampullacea	snail, apple
<u>Pila</u> angelica	snail, apple
Pila conica	snail, apple
<u>Pila</u> <u>luzonica</u>	snail, apple
<u>Pila polita</u>	snail, apple
<u>Pila</u> <u>scutata</u>	snail, apple
Pomacea (all species in genus)	snail, apple
FAMILY Cypraeidae Cypraeidae (all species	cowry
in family)	
FAMILY Strombidae	
Lambis lambis	conch
Strombus luhuanus	conch

SCIENTIFIC NAME

COMMON NAME

FAMILY Vermetidae	
Dendropoma gregaria	vermetid
Dendropoma meroclista	vermetid
Dendropoma platypus	vermetid
Dendropoma psarocephala	vermetid
Petaloconchus keenae	vermetid
Serpulorbis variabilis	vermetid

ORDER Neogastropoda		
FAMILY Conidae		
Conus marmoreus	snail,	marine
FAMILY Muricidae		
Drupa morum	snail,	marine
Drupa ricina	snail,	marine

ORDER Pulmonata	
FAMILY Vaginulidae	
Vaginulus plebeius	slug, land

PHYLUM Nemata (=Nematoda)	
CLASS Adenophorea	
ORDER Mermithida	
FAMILY Mermithidae	
Romanomermis culicivorax	nematode, mosquito

ORDER	Trichocephalida	
FAMIL	Y Trichinellidae	
Trichinella	<u>spiralis</u>	nematode

FAMILY Trichuridae Capillaria (all species in genus) nematode

CLASS Secer ORDER Asc		
	Anisakidae species in genus)	nematode
FAMILY Ascaris lumbri	Ascarididae .coides	nematode

SCIENTIFIC NAME	COMMON NAME		
FAMILY Dioctophymatidae Dioctophyma <u>renale</u>	nematode		
FAMILY Toxocaridae <u>Toxocara</u> (all species in genus)	nematode		
ORDER Camallanida FAMILY Dracunculidae <u>Dracunculus</u> <u>medinensis</u>	nematode		
ORDER Rhabditida FAMILY Cephalobidae <u>Chiloplacus</u> (all species in genus) <u>Panagrellus</u> (all species in genus) <u>Turbatrix</u> <u>aceti</u> <u>Turbatrix</u> <u>silusae</u>	nematode, free living nematode, saprophytic eel, vinegar microworm		
FAMILY Heterorhabditidae <u>Heterorhabditis</u> <u>bacteriophora</u> <u>Heterorhabditis</u> <u>megides</u>	nematode, entomogenous nematode, entomogenous		
FAMILY Steinernematidae <u>Neoaplectana</u> (all species in genus) <u>Steinernema</u> (all species in genus except <u>S</u> . <u>carpocapsae</u>)	nematode, entomogenous nematode, entomogenous		
ORDER Strongylida FAMILY Ancylostomatidae <u>Ancylostoma</u> (all species in genus)	nematode		
FAMILY Metastrongylidae Angiostrongylus <u>costaricensis</u>	nematode, rat		
FAMILY Strongyloididae <u>Strongyloides</u> (all species in genus)	nematode		
FAMILY Uncinariidae <u>Necator</u> <u>americanus</u>	nematode		
ORDER Tylenchida FAMILY Allantonematidae <u>Heterotylenchus</u> <u>autumnalis</u>	nematode, entomogenous		

SCIENTIFIC NAME

COMMON NAME

FAMILY Criconematidae <u>Meloidogyne</u> <u>incognita</u>

nematode, root-knot

PHYLUM	Platyhelmi	Inthes			
CLASS	Catenulid	la			
ORDI	ER Turbell	laria			
FZ	AMILY Ster	nostomid	lae		
Stenost	omum (all s	species	in	genus)	flatworm

CLASS Cestoda	
ORDER Cyclophyllidea	
FAMILY Dilepididae	
Dipylidium caninum	cestode

FAMILYTaeniidaeTaenia(all species in genus)cestodeEchinococcus(all species in genus)cestode

ORDER Pseudophyllidea FAMILY Diphyllobothriidae Diphyllobothrium latum cestode

CLASS Trematoda ORDER Echinostomida FAMILY Fasciolidae	
Fasciola hepatica	trematode
Fasciolopsis buski	trematode
FAMILY Gastrodiscidae <u>Gastrodiscoides</u> <u>hominis</u>	trematode
ORDER Opisthorchiida FAMILY Heterophyidae <u>Heterophyes</u> <u>heterophyes</u>	trematode
FAMILY Opisthorchiidae Opisthorchis viverrini	trematode

SCIENTIFIC NAME

COMMON NAME

ORDER Plagiorchiida FAMILY Paragonimidae Paragonimus (all species in genus) trematode

ORDER Strigeidida FAMILY Schistosomatidae <u>Schistosoma</u> (all species in genus) trematode

AMPHIBIANS

PHYLUM Chordata CLASS Amphibia ORDER Caudata FAMILY Ambystomidae	
Ambystoma jeffersonianum	salamander, mole
Ambystoma texanum	salamander, mole
FAMILY Cryptobranchidae	
Andrias japonicus	salamander, Japanese giant
Andrias (Megalobatrachus)	salamander, Chinese giant
japonicus davidianus	
Cryptobranchus alleganiensis	salamander, hellbender
FAMILY Plethodontidae	
Eurycea longicauda	salamander, long-tailed
FAMILY Salamandridae	
Echinotriton andersoni	newt, spiny
Notophthalmus viridescens	newt, red-spotted
ORDER Salientia	
FAMILY Bufonidae	
<u>Bufo</u> (all species in genus)	toad
FAMILY Discoglossidae	
Bombina maxima	toad, giant fire-bellied
Bombina orientalis	toad, fire-bellied
FAMILY Hylidae	
Agalychnis annae	treefrog, yellow-eyed
<u>Agalychnis</u> <u>callidryas</u>	treefrog, red-eyed
Pachymedusa dacnicolor	treefrog, Mexican giant

SCIENTIFIC NAME

Smilisca baudini smilisca

FAMILY Leptodactylidae <u>Ceratophrys</u> <u>calcarata</u> <u>Ceratophrys</u> <u>ornata</u> <u>Leptodactylus</u> <u>pentadactylus</u>

FAMILY Microhylidae <u>Dyscphus</u> (all species in genus) <u>Kaloula</u> <u>mediolineata</u> <u>Kaloula</u> <u>pulchra</u>

FAMILY Pelobatidae <u>Megophrys</u> <u>montana</u> <u>nasuta</u> <u>Megophrys</u> <u>monticola</u> <u>nasuta</u>

FAMILY Pipidae <u>Pipa pipa</u> Xenopus laevis

FAMILY Ranidae Pyxicephalus adspersus

FAMILY Rhacophoridae <u>Kassina maculata</u> <u>Mantella</u> (all species in genus) <u>Rhacophorus (Polypedates</u>) leucomystax

COMMON NAME

treefrog, mottled
 (Mexican)

frog, Columbian horned frog, ornate horned bullfrog, South American

frog, tomato toad, Siamese-painted toad, Malayan narrow-mouthed

frog, Siamese-horned frog, Asian-horned

toad, Surinam
frog, African clawed

bullfrog, (African grove
 crown)

frog, spotted running
frog, golden
frog, bamboo climbing
(gold) (white-bearded
flying)

REPTILES

PHYLUM Chordata	
CLASS Reptilia	
ORDER Crocodylia	
FAMILY Crocodylidae	
<u>Alligator</u> <u>mississippiensis</u> alligator, Amer	ican
<u>Caiman crocodilus</u> caiman, spectac	led
<u>Crocodylus</u> (all species in genus) crocodile	
Gavialis gangeticus gavial	

(Chamaeleo oustaleti)

SCIENTIFIC NAME COMMON NAME ORDER Squamata Two non-venomous male snakes in snakes, non-venomous the suborder Serpentes for exhibition in a government zoo FAMILY Agamidae Acanthosaura armata lizard, mountain horned lizard, common agama Agama agama Agama atricollis lizard, South African agama Agama stellio hardum Calotes calotes lizard, sawback agamidae Ceratophora stoderti lizard, horned agama Ctenophor (Amphibolurus) lizard, crested dragon cristatus Ctenophor (Amphibolurus) lizard, lozenge marked scutulatus dragon Draco (all species in genus) lizard, flying dragon lizard, horn-headed tree Gonocephalus borniensis dragon <u>Hydrosaurus</u> (all species in genus) lizard, sailfin Leiolepis belliana lizard, smooth-scaled agama, butterfly Leiolepis <u>rubritaeniata</u> lizard, giant ground Moloch horridus lizard, thorny devil lizard, Malayan water Physignathus cocincinus dragon Physignathus lesueuri lizard, brown water dragon Pogona (Amphibolurus) barbatus lizard, Australian bearded dragon lizard, Nullarbor bearded Pogona (Amphibolurus) nullarbor dragon dragon, inland bearded Pogona (Amphibolurus) vittaceps FAMILY Anguidae Gerrhonotus (Elguria) lizard, southern alligator multicarinata Ophisaurus ventralis lizard, eastern glass FAMILY Chamaeleonidae Chamaeleo chamaeleon chameleon, common Furcifer oustaleti chameleon, Oustalet's

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SCIENTIFIC NAME	COMMON NAME
FAMILY Colubridae	
<u>Boiga</u> irregularis (four sterile	snake, brown tree
male snakes for research or	
training of snake detector	
dogs)	
FAMILY Cordylidae	
Cordylus cataphractus	lizard, armadillo
<u>Cordylus</u> giganteus	lizard, sun gazer
Cordylus warreni	lizard, Warrens girdled
<u>Gerrhosaurus</u> <u>flavigularis</u>	lizard, yellow-throated plated
<u>Gerrhosaurus</u> <u>major</u>	lizard, tawny plated
<u>Gerrhosaurus</u> <u>nigrolineatus</u>	lizard, black-lined plated
FAMILY Gekkonidae	
Chondrodactylus angulifer	gecko, sand
Coleonyx elegans	gecko, elegant banded
Coleonyx variegatus	gecko, western banded
<u>Cyrtodactylus</u> <u>pulchellus</u>	gecko, Malayan banded
	(naked-toe)
<u>Cyrtodactylus</u> <u>louisadensis</u>	gecko, naked-finger
<u>Diplodactylus</u> <u>spinigerus</u>	gecko, West Australian
Eublepharis macularius	spiny-tailed (zig-zag) gecko, leopard
Gehyra mutilata (Peropus)	gecko, stump-toed
Gekko gecko	gecko, tokay
Gekko stentor	gecko, giant
Gymnodactylus penguensis	gecko, leopard's(bent-toe)
zebraic	
Hemidactylus frenatus	gecko, house
Hemidactylus garnoti	gecko, Indo-Pacific
Hemiphyllodactylus typus Hemitheconyx caudicinctus	gecko, tree gecko, African fat-tailed
Homopholus walbergi	gecko, Wallberg's velvety
Nephrurus (all species in genus)	gecko, knob-tailed
Oedura lesueuri	gecko, Lesueur's velvet
Oedura marmorata	gecko, velvet
Oedura robusta	gecko, robust velvet
<u>Pachydactylus</u> <u>bibroni</u>	gecko, Bibron's
Phelsuma abbotti	gecko, Aldabra day
Phelsuma cepediana	gecko, blue-tailed day
Phelsuma guimbeaui	gecko, orange-spotted day
Phelsuma laticauda	gecko, gold dust day
<u>Phelsuma</u> <u>madagascariensis</u> Phelsuma ornata	gecko, Madagascar day gecko, Reunion Island day
	(orpate day)

(ornate day)

SCIENTIFIC NAME

Phyllurus cornutus

Phyllurus platurus

Ptychozoonkuhligecko, flyingPtychozoonlionotumgecko, flyingRhacodactylusleachianusgecko, New CaledonThecadactylusrapicaudagecko, turnip-taileUnderwoodsaurusmiligecko, turnip-taileUroplatus (all species in genus)gecko, flat-tailed

FAMILY Iguanidae <u>Anolis equestris</u> <u>Basiliscus</u> <u>basiliscus</u> Basiliscus <u>plumifrons</u>

<u>Basiliscus</u> <u>vittatus</u> Brachylophus <u>fasciatus</u>

Callisaurus draconoides Corytophanes cristatus Crotaphytus collaris Ctenosaura similis Cyclura macleayi Dipsosaurus dorsalis Enyaliosaurus quinquecarinatus Gambelia wislizeni Holbrookia maculata Iguana (all species in genus) Phrynosoma (all species in genus)

Sauromalus
Sauromalusobesus
varius
clarkiSceloporus
SceloporusclarkiSceloporus
SceloporusmagisterSceloporus
Sceloporusoccidentalis
orcuttiUrosaurus
Uta
stansburianaonatus

FAMILY Lacertidae Lacerta lepida Lacerta sicula Lacerta viridis Takydromus sexlineatus COMMON NAME

gecko, northern leaf-tailed gecko, southern leaf-tailed gecko, flying gecko, flying gecko, New Caledonia giant gecko, turnip-tailed gecko, turnip-tailed lizard, knight anole lizard, brown basilisk lizard, green basilisk (double crested) lizard, banded basilisk iguana, Tongan (Fiji banded) lizard, zebra-tailed iguana, helmeted lizard, collared iguana, spiny-tailed iguana, Cuban (rhinoceros) iguana, desert iguana, club tail lizard, long-nosed leopard lizard, lesser earless iquana lizard, horned (horned toad) lizard, chuckwalla lizard, chuckwalla lizard, Clark's spiny lizard, Yarrow's spiny lizard, desert spiny lizard, western fence lizard, granite spiny lizard, tree lizard, side-blotched lizard, jeweled lacerta lizard, European wall

lizard, green lizard, long-tailed (oriental six-lined runner)

SCIENTIFIC NAME

FAMILY Pygopodidae Delma impar

<u>Lialis</u> <u>burtonis</u> <u>Pygopus</u> <u>lepidopodus</u>

FAMILY Scincidae Acontias percivali

Coruciazebrataskink, green treeCryptoblepharusboutoniskink, snake-eyedCyclodomorphus(Tiliqua)branchialisskink, West Australian

Dasia <u>smaragdina</u> Egernia <u>cunninghami</u> Egernia <u>stokesii</u> Emoia <u>cyanura</u> Eumeces <u>obsoletus</u> Leiolopisma <u>metallicum</u> Lipinia <u>noctua</u> Mabuya <u>capensis</u> Mabuya <u>capensis</u>

<u>Mabuya</u> <u>macularia</u> <u>Omolepida (Tiliqua)</u> <u>branchialis</u>

Tiliqua nigrolutea

Tiliqua occipitalis

<u>Tiliqua scincoides</u> <u>Trachysaurus</u> <u>rugosus</u> (<u>Tiliqua</u> rugosus)

FAMILY Teiidae <u>Ameiva ameiva</u> <u>Callopistes maculatus</u> <u>Cnemidophorus tesselatus</u> <u>Cnemidophorus tigris</u> <u>Tubinambis nigropunctatus</u> <u>Tupinambis teguixin</u>

FAMILY Varanidae <u>Varanus</u> <u>acanthurus</u> <u>Varanus</u> <u>bengalensis</u> <u>Varanus</u> <u>dumerili</u> COMMON NAME

lizard, smooth-scaled scaleyfoot lizard, Burton's snake lizard, common scaley-foot lizard, East African legless skink, green tree skink, snake-eyed short-limbed skink, spotted green tree skink, Cunningham's skink, gidgee skink, blue-tailed slender skink, Great Plains skink, metalic skink, moth skink, South African skink, South African blue-tailed skink, orange-throated skink, Australian short-limbed skink, blotchedblue-tongued skink, West Australian blue-tongued skink, blue-tongued skink, shingle back

lizard, jungle runners lizard, monitor tegu lizard, checkered whiptail lizard, western whiptail lizard, golden tegu lizard, tegu red lizard, tegu black

monitor, spiny-tailed
monitor, Bengal
monitor, Dumeril's

SCIENTIFIC NAME

Varanus exanthematicus Varanus giganteus Varanus gouldi Varanus indicus Varanus komodoensis Varanus nilocticus Varanus salvadori Varanus salvator Varanus storri

Varanus varius

ORDER Testudines FAMILY Chelidae <u>Chelus</u> <u>fimbriatus</u> Emydura albertisi

Podocnemis unifilis

FAMILY Chelydridae <u>Chelydra</u> <u>serpentina</u> <u>Macroclemys</u> temmincki

FAMILY Emydidae <u>Heosemys</u> grandis

FAMILY Pelomedusidae <u>Pelomedusa subrufa olivacera</u> <u>Pelusios</u> (all species in genus) COMMON NAME

monitor, savannah monitor, Perentee monitor, Gould's monitor, Pacific monitor, komodo monitor, Nile monitor, crocodile monitor, water monitor, pygmy (Storr's dwarf) monitor, variegated

turtle, mata mata turtle, New Guinea snake neck turtle, yellow-spotted Amazon

turtle, snapping turtle, alligator snapping

turtle, Asian temple

turtle, helmeted terrapins, African hinged

FISHES

PHYLUM Choro	data		
CLASS Chor	nodrichthyes		
ORDER Ca	archarhiniformes		
FAMILY	Carcharhinidae		
Carcharhinus	amblyrhynchos	shark,	gray reef
Carcharhinus	galapagensis	shark,	Galapagos
Carcharhinus	longimanus	shark,	oceanic whitetip
<u>Carcharhinus</u>	limbatus	shark,	blacktip

SCIENTIFIC NAME

COMMON NAME

CLASS Osteichthyes	
ORDER Acipenseriformes	
FAMILY Acipenseridae	aturgoon Ciborian
Acipenser baeri	sturgeon, Siberian
Acipenser brevirostrum	sturgeon, shortnose
Acipenser fulvescens	sturgeon, lake
Acipenser guldenstadti	sturgeon, Russian
Acipenser guldenstadti x <u>Huso</u> huso	sturgeon, Oceber
Acipenser medirostris	sturgeon, green
Acipenser oxyrhynchus	sturgeon, Atlantic
Acipenser ruthenus	sturgeon, Siberian; sterlet
<u>Acipenser</u> <u>ruthenus</u> x <u>Huso</u> <u>huso</u>	sturgeon, Bester
<u>Acipenser</u> <u>stellatus</u>	sturgeon, Servuga (starry)
Huso huso	sturgeon, Beluga
Scaphirhynchus albus	sturgeon, pallid
Scaphirhynchus platorhynchus	sturgeon, shovelnose
FAMILY Polyodontidae	
Polyodon spathula	paddlefish
ORDER Atheriniformes	
FAMILY Atherinidae	
Menidia beryllina	silverside
	511,015140
ORDER Cypriniformes	
FAMILY Cyprinidae	
Notemigonus crysoleucas	minnow, golden shiner
Pimephales promelas	minnow, fathead
<u></u>	
FAMILY Erythrinidae	
Hoplias malabaricus	tiger fish
ORDER Perciformes	
[FAMILY Cichlidae]	
	[tilopio Nilo]
[Oreochromis niloticus]	[tilapia, Nile]
FAMILY Mugilidae	
Mugil cephalus	mullet, striped
	-
FAMILY Nototheniidae	
Dissostichus mawsoni	cod, Antarctic
Notothenia (all species in genus)	cod, Antarctic

RESTRICTED ANIMAL LIST (Part A)

\$4-71-6.5

SCIENTIFIC NAME

FAMILY Siganidae foxface, white Lo magnificus (rabbitfish) foxface, bicolor Lo uspi (rabbitfish) Lo vulpinus lo, foxface (rabbitfish) Siganus corallinus rabbitfish, spotted Siganus lineatus goldenspot rabbitfish, blueline Siganus puellus Siganus vermiculatus rabbitfish, vermiculated rabbitfish, spinefoot Siganus vermiculatus Siganus virgatus rabbitfish, barhead

COMMON NAME

catfish, Chinese

ORDER Siluriformes FAMILY Clariidae <u>Clarias fuscus</u>

ORDER Synbranchiformes FAMILY Synbranchidae Monopterus <u>albe</u> eel, rice paddy

BIRDS

(Taxonomy after Sibley and Monroe 1990)

PHYLUM Chordata CLASS Aves	
ORDER Anseriformes	
FAMILY Anatidae	
Anas platyrhynchos	duck, mallard
FAMILY Anhimidae Chauna chavaria	screamer, black-necked
ORDER Apterygiformes FAMILY Apterygidae <u>Apteryx</u> <u>australis</u>	kiwi, common zoi (brown)
ORDER Caprimulgiformes FAMILY Podargidae	
Batrachostomus javensis	frogmouth, Javan
Podargus strigoides	frogmouth, tawny

SCIENTIFIC NAME	COMMON NAME
ORDER Casuariiformes FAMILY Casuariidae <u>Casuarius</u> (all species in genus)	cassowarie
FAMILY Dromaiidae Dromaius <u>novaehollandiae</u>	emu, common
ORDER Charadriiformes FAMILY Burhinidae <u>Burhinus</u> <u>bistriatus</u> Burhinus <u>capensis</u>	thick-knee, double-striped cape thick-knee
FAMILY Charadriidae <u>Pluvialis</u> <u>dominica</u> <u>Vanellus</u> <u>armatus</u> <u>Vanellus</u> <u>spinosus</u>	plover, lesser golden plover, blacksmith plover, African spur-wing (spur-winged lapwing)
FAMILY Glareolidae <u>Glareola</u> <u>pratincola</u>	pratincoles, collared
FAMILY Haematopidae <u>Haematopus</u> <u>ostralegus</u>	oyster catcher, European
FAMILY Jacanidae Actophilornis africana	jacana, African
FAMILY Laridae <u>Anous stolidus</u> <u>Gygis alba</u> <u>Larosterna inca</u> <u>Larus atricilla</u> <u>Larus californicus</u> <u>Larus heermanni</u> <u>Procelsterna cerulea</u> <u>Sterna fuscata</u> <u>Sterna sumatrana</u> <u>Thalasseus maximus</u>	tern, brown noddy tern, fairy tern, Inca gull, laughing gull, California gull, Heermans noddy, blue-grey tern, sooty tern, black-naped tern, royal
FAMILY Recurvirostridae <u>Himantopus</u> <u>himantopus</u> <u>Himantopus</u> <u>mexicanus</u>	stilt, black-winged stilt, black-necked
FAMILY Scolopacidae Limnodromus griseus	dowitcher, short-billed

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SCIENTIFIC NAME

ORDER Ciconiiformes FAMILY Ardeidae Ardea herodias Ardeola (Bubulcus) ibis Egretta alba Egretta garzetta Egretta intermedia Egretta thula Hydranassa caerulea Hydranassa tricolor Tigrisoma lineatum

FAMILY Ciconiidae Anastomus lamelligerus Ephippiorhynchus asiaticus Ephippiorhynchus senegalensis Jabiru mycteria Leptoptilos crumeniferus

FAMILY Scopidae Scopus umbetta

FAMILY Threskiornithidae Carphibis spinicollis Eudocimus albus Plegadis falcinellus

ORDER Coliiformes FAMILY Coliidae Colius striatus

ORDER Columbiformes FAMILY Columbidae <u>Caloenas nicobarica</u> <u>Didunculus strigirostris</u> <u>Ducula aenea</u> <u>Ducula bicolor</u> Ducula myristicivora

Geopelia humeralis Goura cristata Leucosarcia melanoleuca Macropygia phasianella Macropygia unchall Otidiphaps nobilis

COMMON NAME

heron, great blue egrets, cattle egret, great egret, little egret, plumed egret, snowy heron, little blue heron, tricolored heron, rufescent tiger

stork, open-billed
stork, black-neck
stork, saddle-bill
jabiru
stork, Marabou

hammerkop (hammerhead)

ibis, straw-necked ibis, American white ibis, glossy

mousebird, speckled

pigeon, Nicobar pigeon, tooth-billed pigeon, green imperial pigeon, pied (imperial) pigeon, New Guinea imperial dove, bar-shouldered pigeon, common crowned pigeon, wonga dove, slender-bill cuckoo dove, bar-tailed cuckoo pigeon, pheasant (magnificent ground)

SCIENTIFIC NAME

PtilinopusjambuPtilinopusmelanospilaPtilinopusperousiiPtilinopusroseicapillaPtilinopusvictorStreptopeliarisoriaStreptopeliasenegalensisTurturchalcospilosUropeliacampestris

FAMILY Pteroclididae <u>Pterocles</u> <u>indicus</u> <u>Syrrhaptes</u> paradoxus

ORDER Coraciiformes FAMILY Alcedinidae Alcedo cristata Ceyx erithacus Ceyx rufidorsus Dacelo gigas Halcyon chloris Halcyon cinnamomina Halcyon pileata Halcyon pileata Halcyon recurvirostris Tanysiptera galatea

FAMILY Bucerotidae Aceros leucocephalus Aceros nipalensis Aceros plicatus Aceros undulatus Aceros undulatus Anthracoceros coronatus Anthracoceros malabaricus Buceros bicornis Buceros hydrocorax Buceros rhinoceros silvestris Bucorvus abyssinicus

Bucorvus leadbeateri Penelopides exarhatus Tockus erythrorhynchus

FAMILY Coraciidae Coracias benghalensis Coracias caudata

COMMON NAME

pigeon, jambu fruit pigeon, black naped fruit dove, many colored fruit dove, Mariana fruit dove, orange dove, ringed turtle dove, laughing dove, wood emerald-spotted dove, long-tailed ground

sandgrouse, painted sandgrouse, pallas

kingfisher, malchite
kingfisher, Indian forest
kingfisher, red-backed
kookabura, laughing
kingfisher, white-collared
kingfisher, Micronesian
kingfisher, grey-headed
kingfisher, black-capped
kingfisher, flat-billed
kingfisher, common
paradise

hornbill, wrinkled hornbill, rufous-necked hornbill, Papuan (Blyths) hornbill, wreathed hornbill, pied hornbill, northern pied hornbill, great hornbill, rufous hornbill, rhinoceros hornbill, Abyssinian ground hornbill, African ground hornbill, Celebean hornbill, red-billed

roller, Indian
roller, lilac-breasted

SCIENTIFIC NAME

FAMILY Meropidae <u>Merops</u> <u>nubicus</u> <u>Merops</u> <u>philippinus</u>

FAMILY Momotidae Momotus momota

FAMILY Phoeniculidae Phoenicilus purpureus

FAMILY Upupidae Upupa epops

ORDER Cuculiformes FAMILY Cuculidae Carpococcyx renauldi Centropus sinensis Rhopodytes tristis

FAMILY Musophagidae Corytha<u>ixoides leucogaster</u>

TauracoerythrolophusTauracoleucolophusTauracolivingstonii

ORDER Falconiformes FAMILY Accipitridae Aegypius monachus Aquila (all species in genus) Buteo jamaicensis Buteo solitarius Gyps africanus Gyps bengalensis Haliaeetus (all species in genus) Haliastur indus Harpia harpyja Harpyopsis novaegineae Heterospizias meridionalis Necrosyrtes monachus Neophron percnopterus Parabuteo unicinctus harrisi

<u>Pithecophaga jefferyi</u> <u>Trigonoceps occipitalis</u> COMMON NAME

bee-eater, carmine
bee-eater, brown-breasted

motmot, blue-crowned

hoopoe, green wood

hoopoe, common

cuckoo, red-billed ground coucal, greater malkoha, greater green-billed

go-away bird, white-bellied turaco, red-crested turaco, white-crested turaco, Livingstone's

vulture, cinereous eagle hawk, red-tailed hawk, Hawaiian vulture, white-backed vulture, white-backed eagle kite, Brahminy eagle, harpy eagle, New Guinea harpy hawk, savana vulture, hooded vulture, Egyptian hawk, Harris's (bay-winged) eagle, monkey-eating vulture, white-headed

SCIENTIFIC NAME

COMMON NAME

FAMILY Cathartidae vulture, turkey Cathartes aura vulture, black Coragyps atratus Sarcorhamphus papa vulture, king FAMILY Falconidae Falco (all species in genus) falcon Herpetotheres (all species in falcon genus) Polihieraxsemitorquatusfalcon, iPolyborus(all species in genus)caracara falcon, African pigmy FAMILY Sagittariidae secretary bird Sagittarius serpentarius ORDER Galliformes FAMILY Cracidae <u>Crax</u> mitu curassow, razor-billed Penelope pileata quan, white crested Penelope <u>purpurascens</u> guan, crested FAMILY Megapodiidae Aepypod<u>ius</u> <u>arfakianus</u> turkey, wattled brush Alectura lathami turkey, brush Megapodius freycinet scrubfowl, common Megapodius laperouse fowl, Micronesia scrub Megapodius pritchardii megapode, Niuafo'ou FAMILY Phasianidae Caloperdix oculea partridge, ferruginous wood fowl, crested Guinea Guttera edouardi Meleagris ocellata turkey, ocellated ORDER Gruiformes FAMILY Eurypygidae Eurypyga helias bittern, sun FAMILY Gruidae Grus japonensis crane, Manchurian crane, white-naped Grus vipio FAMILY Psophiidae Psophia crepitans trumpeter, common Psophia leucoptera trumpeter, white-winged Psophia viridis trumpeter, green-winged

SCIENTIFIC NAME

FAMILY Rallidae Aramides cajanea Limnocorax flavirostra Porphyrio poliocephalus Porphyrio pulverulentus Rallus owstoni Rallus philippensis

ORDER Passeriformes FAMILY Alaudidae <u>Alauda</u> <u>arvensis</u> Eremopterix keycioareua

FAMILY Artamidae Artamus leucorhynchus

FAMILY Bombycillidae Ptilogonys cinereus

FAMILY Campephagidae Coracina pectoralis

<u>Coracina</u> <u>tenuirostris</u> <u>Prionops</u> <u>plumata</u>

FAMILY Corvidae <u>Cissa chinensis</u> <u>Corvus albus</u> <u>Corvus corax</u> <u>Corvus kubaryi</u> <u>Cyanocitta cristata</u> <u>Cyanocitta stelleri</u> Cyanocorax chrysops

<u>Platylophus</u> <u>galericulatus</u> <u>Urocissa</u> <u>erythrorhyncha</u>

FAMILY Cotingidae Cephalopterus penduliger

Rupicola peruviana Procnius nudicollis COMMON NAME

rail, grey-necked wood crake, black moorhen pukeko rail, Guam rail, banded

skylark lark, Fishers sparrow

swallow, white-breasted
wood

flycatcher, gray silky

shrike, white-breasted
 cuckoo
bird, cicada
shrike, straight-crested
 helmet

magpie, green crow, pied raven crow, Mariana jay, blue jay, Stellers jay, pileated (plush crested) jay, crested magpie, blue (red billed)

umbrella bird, long-wattled cock-of-the-rock, Andean bellbird, naked throated

SCIENTIFIC NAME

FAMILY Dicruridae Dicrurus remifer

FAMILY Emberizidae Paroaria gularis pheucticus

PasserinacyanoidesPheucticusludovicianusPheucticusmelanocephalus

FAMILY Estrildidae Estrilda <u>rhodopyga</u> Lonchura <u>maja</u>

Ortygospiza atricollis

FAMILY Eurylaimidae Calyptomena viridis

FAMILY Icteridae Icterus chrysocephalus Icterus icterus Psarocolius decumanus

FAMILY Irenidae Chloropsis aurifrons

FAMILY Mimidae <u>Dumetella</u> <u>carolinensis</u> <u>Mimus</u> <u>gilvus</u>

FAMILY Motacillidae Motacilla flava

FAMILYMuscicapidaeAcrocephaluslusciniaAcrocephalussyrinx

Cettia subulata Cyornis tickelliae Erithacus calliope Erithacus komadori Erithacus obscurus Eumyias thalassina Ficedula narcissina Garrulax leucolophus COMMON NAME

drongo, lesser racket-tailed

cardinal, black-throated
 (red-capped)
 grosbeak, blue-back
 grosbeak, rose-breasted
 grosbeak, black-headed

waxbill, crimson-rumped
nun, white-headed;
white-headed munia
finch, quail

broadbill, green

oriole, moriche troupial oropendola, crested

leafbird, golden-fronted

catbird, common
mockingbird, tropical

wagtail, yellow

warbler, nightingale reed warbler, Caroline Islands reed warbler, bush flycatcher, Tickell's blue rubythroat, Siberian robin, Temminck's robin, black-throated flycatcher, verditer flycatcher, narcissus thrush, white-crested laughing SCIENTIFIC NAME

Garrulax milnei

Garrulax monileger

Metabolus regensis Monarcha godeffroyi Monarcha takatsuakasae Myadestes obscurus Myadestes townsendi Myiagra azureocapilla Myiagra erythrops Myiophoneus caeruleus Niltava sundara Pachycephala pectoralis Phoenicurus auroreus Rhipidura lepida Rhipidura rufifrons Turdus migratorius

FAMILY Oriolidae Oriolus chinensis

FAMILY Paradisaeidae <u>Astrapia</u> <u>mayeri</u> Astrapia stephaniae

<u>Cicinnurus</u> <u>regius</u> <u>Diphyllodes</u> magnificus

Diphyllodes respublica Lophorina superba Paradisaea apoda Paradisaea guilielmi

ParadisaeaminorParadisaearubraParadisaearudolphiParadisaearaggiana

Parotia carolae

<u>Parotia lawesii</u> <u>Ptiloris magnificus</u> Seleucidis melanoleuca

FAMILY Pipridae Chiroxiphia caudata

COMMON NAME

thrush, red-tailed laughing thrush, lesser necklaced laughing monarch, Truk monarch, Yap monarch, Tinian solitaire, brown-backed solitaire, Townsend's flycatcher, blue-crested broadbill, Palau thrush, blue whistling niltava, rufous-bellied whistler, golden redstart, Daurian fantail, Palau fantail, rufous robin, American oriole, black-naped astrapia, ribbon-tailed bird-of-paradise, Princess Stephanie's bird-of-paradise, king bird-of-paradise, magnificent bird-of-paradise, Wilson's bird-of-paradise, superb bird-of-paradise, greater bird-of-paradise, white plumed bird-of-paradise, lesser bird-of-paradise, red bird-of-paradise, blue bird-of-paradise, Count Raggi's bird-of-paradise, Queen Carol's parotia, Lawe's rifle bird, magnificent bird-of-paradise, twelve-wired

manakin, swallow-tailed

SCIENTIFIC NAME

FAMILYPittidaePittamoluccensisPittasordidaPittasteerii

FAMILY Ploceidae <u>Bubalornis</u> <u>albirostris</u> <u>Dinemellia</u> <u>dinemelli</u>

Plocepasser mahali

FAMILY Ptilonorhynchidae <u>Amblyornis macgregoriae</u> <u>Chlamydera cerviniventris</u> <u>Ptilonorhynchus violaceus</u>

FAMILY Sturnidae <u>Buphagus africanus</u> <u>Cinnyricinclus leucogaster</u> <u>Cosmopsarus regius</u> <u>Lamprotornis purpureus</u> <u>Lamprotornis purpuropterus</u>

<u>Leucopsar</u> <u>rothschildi</u> <u>Spreo</u> <u>superbus</u> <u>Sturnus</u> <u>nigricollis</u>

FAMILYThraupidaePirangaolivacea(males only)tanageRamphocelusdimidiatus(males only)tanageThraupisepiscopus(males only)tanage

FAMILY Tinamidae <u>Eudromia</u> <u>formosa</u>

FAMILY Zosteropidae Zosterops palpebrosa

ORDER Pelecaniformes FAMILY Pelecanidae <u>Pelecanus</u> (all species in genus) pelican FAMILY Phalacrocoracidae <u>Phalacrocorax</u> <u>carbo</u> cormorant, common

COMMON NAME

pitta, blue-winged

weaver, white-headed

weaver, white-browed

bowerbird, Macgregor's

bowerbird, satin

bowerbird, fawn-breasted

pitta, hooded

pitta, steers

weaver, buffalo

buffalo

sparrow

oxpecker, yellow-billed starling, violet-backed starling, golden-breasted starling, purple glossy starling, Ruppell's long-tailed mynah, Bali starling, superb starling, black collared

tanager,	scarlet
tanager,	crimson-backed
tanager,	blue-grey

tinamou, crested

white-eye, oriental

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SCIENTIFIC NAME

ORDER Piciformes FAMILY Capitonidae Lybius (all species in genus) Megalaima armillaris

Megalamima asiatica Semnornis ramphastinus Trachyphonus erythrocephalus barbet, red and yellow

FAMILY Indicatoridae Indicator indicator

FAMILY Picidae Chrysocalaptes lucidus

Picoides canicapillus

FAMILY Rhamphastidae Pteroglossus beauharnaesii Ramphastos ambiguus swainsonii toucan, bicolored-billed Ramphastos discolorus Ramphastos sulfuratus sulfuratus Ramph<u>astos</u> <u>toco</u> <u>cuvieri</u> Ramphastos toco toco Ramphastos vitellinus ariel toucan, ariel channel-bill Ramphastos vitell<u>inus</u> vitellinus Selenidera maculirostris

ORDER Procellariiformes FAMILY Procellariidae Puffinus pacificus

ORDER Psittaciformes FAMILY Loriidae Chalcopsitta sintillata Charmosyna papou goliathina Trichoglossus haematodus Trichoglossus johnstoniae Trichoglossus rubiginosus Vini peruviana

FAMILY Psittacidae Brotogeris jugularis Eunymphicus cornutus

COMMON NAME

barbets barbett, Armott's (blue crowned) barbet, blue-throated barbet, toucan

honeyguide, black-throated

woodpecker, greater goldenbacked woodpecker, gray-capped

aracari, curl-crested toucan, red-breasted toucan, sulfur breasted, north kneel-bill toucan, Cuvier's toucan, north toco toucan, sulphur and white, north channel-bill toucanet, spot-billed

shearwater, wedge-tailed

lory, yellow streaked lory, central Stella's lory, rainbow lorikeet, Johnstone's lory, Ponape lory, Tahitian

parakeet, orange-chinned parakeet, horned

SCIENTIFIC NAME

Lathamus discolor Loriculus galgulus Loriculus philippensis Nandayus nenday Nestor notabilis Prospoeia tabuensis Psittaculirostris (all species in parrot, fig qenus) Psittrichas fulgidus

ORDER Rheiformes FAMILY Rheidae Rhea americana

rhea, common (greater)

COMMON NAME

parrot, swift

conure, nanday

parrot, Pesquets

kea

lory, blue-crowned

parrot, red shining

parrot, Philippine hanging

ORDER Strigiformes FAMILY Strigidae Asio flammeus Bubo virginianus Glaucidium brodiei Scotopelia peli Speotyto cunicularia Strix varia

FAMILY Tytonidae Tyto alba

ORDER Trogoniformes FAMILY Trogonidae Pharomachrus auriceps Pharomachrus mocinno Harpactes erythrocephalus Trogon viridis

ORDER Apodiformes FAMILY Trochilidae Trochilidae (sexually dimorphic hummingbirds males only)

ORDER Psittaciformes FAMILY Loriidae Eos bornea (males only) Eos squamata (males only) Lorius lory (males only)

owl, short-earred owl, great horned owlet, pygmy owl, Pell's fishing owl, burrowing owl, barred

owl, common barn

quetzal, golden-headed quetzal, resplendent trogon, red-headed trogon, white-tailed

lory, red lory, violet-necked lory, black-capped

SCIENTIFIC NAME

COMMON NAME

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MAMMALS
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PHYLUM Chordata CLASS Mammalia ORDER Artiodactyla FAMILY Bovidae Bovidae (all species in family) wild cattle, buffalo,

FAMILY Camelidae Camelus bactrianus Camelus dromedarius

FAMILY Cervidae <u>Cervus nippon</u> Dama dama (=Cervus dama)

MuntiacusmuntjakMuntiacusreevesiOdocoileushemionus

FAMILY Girrafidae Okapia johnstoni

FAMILY Hippopotamidae <u>Choeropsis liberiensis</u> <u>Hippopotamus amphibius</u>

FAMILY Suidae <u>Babyrousa</u> <u>babyrousa</u> <u>Phacochoerus</u> <u>aethiopicus</u> Sus barbatus

FAMILY Tayassuidae <u>Tayassu</u> <u>tajacu</u>

ORDER Carnivora FAMILY Canidae Lycaon pictus Otocyon megalotis Vulpes (all species in genus)

FAMILY Felidae <u>Acinonyx jubatus</u> <u>Felis caracal (=Lynx caracal)</u> <u>Felis pardalis</u> Felis serval wild cattle, buffalo, antelopes, etc. camel, Bactrian camel deer, sika deer, white European fallow deer, Indian muntjac muntjac, Reeve's deer, black-tailed okapi

hippo, pygmy hippopotamus

barbirusa hog, wart pig, bearded

peccary, collared

dog, African hunting
fox, bat-eared
fox

cheetah caracal ocelot serval

SCIENTIFIC NAME

Felis wiedii
Pantheraleo
PantheraPanthera
nebulosa)nebulosaPanthera
Panthera
Panthera
Panthera
ProfelisnebulosaPanthera
concolornebulosaPanthera
concolornebulosa

FAMILY Hyaenidae <u>Crocuta</u> <u>crocuta</u> <u>Proteles</u> <u>cristatus</u>

FAMILY Mustelidae <u>Aonyx cinerea</u> <u>Lutra canadensis</u> <u>Mephitis</u> (all species in genus) <u>Mustela lutreola</u> <u>Mustela putorius furo</u> <u>Mustela vison</u> Pteronura brasiliensis

FAMILY Procyonidae <u>Ailurus fulgens</u> <u>Nasua</u> (all species in genus) <u>Potos flavus</u> Procyon lotor

FAMILY Ursidae <u>Helarctos malayanus</u> Melursus ursinus

<u>Selenarcos thibetanus</u> (=<u>Ursus</u> <u>thibetanus</u>) <u>Tremarctos ornatus</u> <u>Ursus</u> (all species in genus)

FAMILY Viverridae Arctictis binturong Suricata suricatta Herpestes auropunctatus

ORDER Diprotodontia (=Marsupialia) FAMILY Didelphidae Didelphis marsupialis opossum

clouded leopard
jaguar
leopard
tiger
puma, (cougar), (mountain
lion
hyena, spotted
aardwolf
otter, Asian small-clawed
otter, lond nimer

otter, land river skunk mink ferret mink otter, giant

panda, red coati kinkajou racoon

COMMON NAME

marqay

lion

sunbear, Malayan bear, sloth

bear, Asiatic black

bear, spectacled bear

binturong meerkat, slender-tailed mongoose, small Indian

SCIENTIFIC NAME

FAMILY Macropodidae Aepyrymnus (all species in genus) Bettongia (all species in genus) Bettongia (all species in genus) Caloprymnus (all species in genus) Dendrolagus (all species in genus) Dorcopsis (all species in genus) Dorcopsulus (all species in genus)

<u>Hypsiprymn</u>odon (all species in genus) Lagorchestes (all species in genus) Lagorchestes (all species in genus) Lagostrophus (all species in genus) Macropus (all species in genus) Megaleia (all species in genus) Onychogalea (all species in genus) Perador<u>cas</u> (all species in genus) Petrogale (all species in genus) Potorous (all species in genus) Setonix (all species in genus)
 Thylogale
 (all species in genus)
 pademelon

 Nallabia
 (all species in genus)
 wallabia
 Wallabia (all species in genus)

FAMILY Phascolarctidae Phascolarctos cinereus

ORDER Edentata FAMILY Bradipodidae <u>Choloepus</u> (all species in genus) sloth, three toed sloth, two toes

FAMILY Dasypodidae Dasypus (all species in genus) FAMILY Myrmecophagidae Myrmecophaga tridactyla

ORDER Hyracoidea FAMILY Procaviidae Procavia capensis

ORDER Insectivora FAMILY Erinaceidae Hemiechinus auritis

FAMILY Soricidae Crocidura (all species in genus) shrew, musk

COMMON NAME

rat-kangaroo, Rufous rat-kangaroo rat-kangaroo, desert tree-kangaroo wallaby, New Guinea forest wallaby, New Guinea mountain rat-kangaroo, musk wallaby, hare wallaby, banded hare wallaby (kangaroo)

kangaroo, red wallaby, nail-tailed rock-wallaby, little rock-wallaby potoroo quokka wallaby, swamp

bear, koala

armadillo

anteater, giant

hyrax, rock

hedge hog, long-eared

COMMON NAME SCIENTIFIC NAME ORDER Perissodactyla FAMILY Equidae Equus africanus (=Equus asinus) ass, African wild FAMILY Rhinocerotidae Ceratotherium simum rhinoceros, southern white Diceros bicornis rhinoceros, black Rhinoceros unicornis rhinoceros, great Indian FAMILY Tapiridae Tapirus indicus tapir, Malayan Tapirus terrestris tapir ORDER Proboscidea FAMILY Elephantidae Elaphas maximus elephant, Asian Loxodonta africana elephant, African ORDER Rodentia FAMILY Caviidae Dolichotis patagonum cavy, Patagonian FAMILY Cricetidae mouse, Chinese Cricetulus griseus Gerbillus gerbillus gerbil Meriones unguiculatus gerbil Mesocricetus auratus hamster Sigmondon hispidus rat, cotton FAMILY Dasyproctidae agouti Agouti paca Dasyprocta agouti (=D. leporina) agouti FAMILY Erethizontidae Erethizon dorsatum porcupine, North American FAMILY Heteromyidae Perognathus longimembris mice, pocket FAMILY Hystricidae porcupine, African crested Hystrix cristata FAMILY Myocastoridae nutria Myocastor coypu

SCIENTIFIC NAME

FAMILYSciuridaeCallosciurusprevostisquirrel, prevost'sMarmota(all species in genus)marmotsSciurusvariegatoidesquirrel, variegated

ORDER Scandentia FAMILY Tupaiidae <u>Tupaia</u>glis

shrew, tree

COMMON NAME

ORDER Tubulidentata FAMILY Orycteropodidae <u>Orycteropus</u> <u>afer</u>

aardvark

PART B: FOR PRIVATE AND COMMERCIAL USE

SCIENTIFIC NAME

COMMON NAME

INVERTEBRATES

PHYLUM Annelida CLASS Oligochaeta ORDER Haplotaxida FAMILY Lumbricidae Lumbricus rubellus

earthworm, red

PHYLUM Arthropoda CLASS Crustacea ORDER Amphipoda FAMILY Gammaridae Gammarus (all species in genus) crustacean, freshwater;

FAMILY Hyalellidae Hyalella azteca

ORDER Cladocera FAMILY Sididae Diaphanosoma (all species in genus) flea, water

ORDER Cyclopoida FAMILY Cyclopidae Cyclops (all species in genus) copepod, freshwater

ORDER Decapoda FAMILY Alpheidae Alpheus brevicristatus

FAMILY Palinuridae Panulirus gracilis PanulirusGall species in genusHobster, greenIobster, spiny except Panulirus argus, P. longipes femoristriga, P. pencillatus)

FAMILY Pandalidae shrimp, giant (prawn) Pandalus platyceros FAMILY Penaeidae shrimp, penaeid Penaeus indicus Penaeus californiensis shrimp, penaeid

shrimps, imps (amphipod)

scud

shrimp, Japan (pistol)

lobster, green spiny

RESTRICTED ANIMAL LIST (PART B)

\$4-71-6.5

SCIENTIFIC NAME

Penaeus japonicus Penaeus
Penaeus
Penaeus
Penaeus
plebjiusmonodon
(chinensis)shrimp, imeer (grigt
shrimp, jumbo tiger
shrimp, penaeid
shrimp, penaeid Penaeus plebjius Penaeus schmitti Penaeus semisulcatus Penaeus stylirostris Penaeus vannamei

ORDER Isopoda FAMILY Asellidae Asellus (all species in genus) crustacean, freshwater

ORDER Podocopina FAMILY Cyprididae Cypris (all species in genus) ostracod, freshwater

CLASS Insecta ORDER Diptera FAMILY Calliphoridae Lucilia sericata

shrimp, wheel (ginger)

COMMON NAME

shrimp, penaeid shrimp, penaeid shrimp, white shrimp, penaeid

shrimp, penaeid

blow fly, green bottle

butterfly

parasite, diamondback moth

ORDER Hymenoptera FAMILY Braconidae Cotesia plutellae

ORDER Lepidoptera FAMILY Nymphalidae Dryadul<u>a</u> phaetusa Eueides isabella Heliconius charitonius Heliconius erato Heliconius hecale Heliconius melpomene Heliconius sara Morpho menelaus Morpho peleides FAMILY Papilionidae

Ornithoptera priamus Pachliopta aristolochiae Pachliopta kotzebuea Papili<u>o</u> thoas Papilio ulysses

SCIENTIFIC NAME	COMMON NAME
Parides iphidamas Parides photinus Trogonoptera brookiana Troides helena Troides rhadamanthus	butterfly butterfly butterfly butterfly butterfly
ORDER Orthoptera FAMILY Gryllidae Acheta domesticus	cricket, house
PHYLUM Cnidaria CLASS Anthozoa ORDER Alcyonacea FAMILY Alcyoniidae <u>Sarcophyton ehrenbergi</u> Sarcophyton glaucum Sarcophyton trocheliophorum	coral, leather coral, leather coral, leather
ORDER Scleractinia FAMILY Acroporidae Acropora aspersa Acropora austera Acropora elseyi Acropora formosa Acropora microphthalma Acropora nana	<pre>coral, stony coral, stony coral, stony coral, stony coral, stony coral, stony</pre>
PHYLUM Mollusca CLASS Bivalvia ORDER Pelecypoda FAMILY Margaritiferidae Margaritifera margaritifera	mussel, freshwater
ORDER Pterioida FAMILY Pteridae <u>Pinctada fucata</u> <u>Pinctada margaritifera</u> <u>Pinctada maxima</u>	oyster, akoya oyster, black lipped pearl oyster, silver lipped pearl
ORDER Unionoida FAMILY Unionidae <u>Anodonta</u> (all species in genus) <u>Proptera</u> <u>alata</u> <u>Unio</u> (all species in genus)	mussel, freshwater mussel, freshwater mussel, freshwater

SCIENTIFIC NAME

COMMON NAME

ORDER Veneroida FAMILY Tridacnidae			
	-		
Hippopus hippopus	clam,	giant	
Tridacna crocea	clam,	giant	
Tridacna derasa	clam,	giant	
Tridacna gigas	clam,	giant	
Tridacna hippopus	clam,	giant	
Tridacna maxima	clam,	giant	
Tridacna squamosa	clam,	giant	
FAMILY Veneridae Anodontia stearnsiana clam, mangrove			
Mercenaria mercenaria x M.	clam,	hybrid	
campechiensis		-	

CLASS Gastropoda ORDER Archaeogastropoda FAMILY Trochidae Trochus niloticus topshell

PHYLUM	Nemata (=Nematoda)	
CLASS	Adenophorea	
ORDE	SR Trichocephalida	
FA	AMILY Trichuridae	
Trichuri	is <u>trichiura</u>	nematode

CLASS Secernentea	
ORDER Ascaridida	
FAMILY Oxvuridae	
Enterobius vermicularis	nematode

ORDER Strongylida FAMILY Trichostrongylidae <u>Trichostrongylus</u> (all species in nematode genus)

ORDER Tylenchida FAMILY Heteroderidae Rotylenchus (all species in genus) nematode

SCIENTIFIC NAME

COMMON NAME

AMPHIBIANS

PHYLUM Chordata CLASS Amphibia ORDER Caudata FAMILY Salamandridae Triturus boscai Triturus italicus Tylotriton verrocosus

newt newt, Italian newt, emperor

ORDER Salientia FAMILY Dendrobatidae Dendrobates (all species in genus) frog, poison arrow

FAMILY Hylidae Hyla vasta

FAMILY Ranidae Rana erythraea Rana jerboa Rana limnocharis Rana pustulosa

(poison dart)

treefrog, Haitian giant

frog, red-eared froq frog, rice frog

REPTILES

PHYLUM Chordata CLASS Reptilia ORDER Squamata FAMILY Chamaeleonidae <u>Chamaeleo jacksoni</u>	chameleon, Jackson's
FAMILY Iguanidae <u>Amblyrhynchus</u> <u>cristatus</u> <u>Anolis carolinensis</u> <u>Conolophus subcristatus</u>	iguana, Galapagos-marine chameleon, American iguana, Galapagos-land
FAMILY Scincidae <u>Emoia physicae</u> <u>Lobulia elegans</u> <u>Lobulia morokana</u> <u>Lobulia stanleyana</u>	skink, ground skink, ground skink, ground skink, ground

SCIENTIFIC NAME ORDER Testudines FAMILY Chelidae Chelodina longicollis FAMILY Cheloniidae Chelonia <u>mydas</u> <u>agassizii</u> Lepidochelys olivacea FAMILY Emydidae Batagur baska Callagur borneoensis Chinemys kwangtungensis Chinemys reevesi Chrysemys (Pseudemys) alabamensis Chrysemys (Pseudemys) rubriventris Cuora amboinensis Cuora flavomarginata Cuora galbinifrons Cuora trifasciata Cyclemys dentata <u>Geoclemys</u> <u>hamiltoni</u> <u>Geoemyda</u> <u>spengleri</u> Graptemys oculifera Hardella thurji Heosemys (all species in genus except H. grandis) <u>Hieremys</u> <u>annandalei</u> Kachuga (all species in genus) Malaclemys terrapin Mauremys (Annamemys) annamensis Melanochelys tricarinata Melanochelys trijuga Morenia ocellata Morenia petersi Notochelys platynota Ocadia sinensis Orlitia borneensis Pyxidea mouhoti Rhinoclemmys (Callopsis) (all species in genus) Sacalia bealei Siebenrockiella crassicollis

Terrapene coahuila

turtle, Australian side-neck turtle, green sea turtle, loggerhead (Ridley) turtle, Batagur turtle, giant river turtle, Kwangtung pond turtle, Reeves turtle, Alabama red-bellied turtle, Plymouth red-bellied turtle, Malayan box turtle, yellow-margined box turtle, white-fronted box turtle, three-keeled box turtle, Asian leaf turtle, black pond turtle, black-bellied notched turtle, ringed map turtle, Brahminy river turtle, cogwheel turtle, temple turtle, roof turtle, diamond back terrapin turtle, Eurasian pond turtle, three-keeled Indian terrapin turtle, black-bellied terrapin turtle, ocellated peacock turtle, Peter's peacock turtle, flat-back turtle, Chinese striped turtle, Bornean river turtle, Indian thorn turtle, painted forest turtle, six-eyed pond turtle, fat-headed turtle, aquatic box

COMMON NAME

Trachemys (all species in genus) turtle, slider

SCIENTIFIC NAME

FAMILY Kinosternidae Kinosternon (all species in genus) Staurotypus
Staurotypussalvini
triporcatusturtle, grant musk
turtle, giant musk
turtle, keel-backed musk
turtle, keel-backed musk
turtle, flattened musk
turtle, loggerhead musk
sternotherusSternotherus
Sternotherusminor
minor
peltiferturtle, stinkpot (common Staurotypus salvini Sternotherus odoratus

FAMILY Testudinidae Asterochelysradiatatortoise, radiatedAsterochelysyniphoratortoise, angulatedAsterochelysyniphoratortoise, GalapagosChelonoidiselephantopustortoise, desertGopherus(Xerobates)agassiziGopherusflavomarginatustortoise, BolsonCarboruspolyphemustortoise, gopher Gopherus polyphemus Indotestudo (all species in genus) Kinixys belliana Kinixys erosa

Kinixys homeanatortoise,Malacochersus tornieritortoise,Manouria (all species in genus)tortoise,tortoise,tortoise, Kinixys homeana Psammobates geometricus Pyxis arachnoides

FAMILY Trionychidae Chitra indica

<u>Cyclanorbis</u> <u>elegans</u> Cyclanorbis <u>senegalensis</u> Cycloderma aubryi Cycloderma frenatum Lissemys punctata Pelochelys bibroni Trionyx (all species in genus) turtle, soft-shell

COMMON NAME

turtle, mud

turtle, giant musk turtle, stinkpot (common musk)

tortoise, radiated tortoise

tortoise, Bell's hinged tortoise, Schweigger's hinge-back tortoise, Homer's hinged tortoise, pancake tortoise, cape geometric tortoise, spider

turtle, narrow-headed soft-shell turtle, Nubian soft-shell turtle, Senegal soft-shell turtle, Aubry's soft-shell turtle, bridled soft-shell turtle, Indian flap-shelled turtle, giant soft-shell

FISHES

PHYLUM Chordata CLASS Chondrichthyes ORDER Carcharhiniformes FAMILY Carcharhinidae Carcharhinus melanopterus shark, black-tip reef Cephaloscyllium ventriosum shark, swell

RESTRICTED ANIMAL LIST (PART B)

§4-71-6.5

SCIENTIFIC NAME	COMMON NAME
FAMILY Hemigaleidae <u>Triaenodon</u> <u>obesus</u>	shark, white-tip reef
FAMILY Triakidae <u>Rhinnotriakis</u> <u>henlei</u> <u>Triakis</u> <u>semifasciatum</u>	shark, smoothound shark, leopard
ORDER Heterodontiformes FAMILY Heterodontidae <u>Heterodontus</u> <u>zebra</u>	shark, highfin
ORDER Orectolobiformes FAMILY Brachaeluridae <u>Brachaelurus</u> <u>waddi</u>	shark, blind
FAMILY Ginglymostomatidae <u>Ginglymostoma</u> <u>cirratum</u>	shark, nurse
FAMILY Hemiscyllidae <u>Chiloscyllium</u> <u>colax</u> <u>Hemiscyllium</u> <u>ocellatum</u>	shark, banded shark, epaulette
FAMILY Stegostomatidae <u>Stegostoma</u> <u>fasciatum</u>	shark, zebra
CLASS Osteichthyes ORDER Acipenseriformes FAMILY Acipenseridae Acipenser transmontanus	sturgeon, white
ORDER Atheriniformes FAMILY Anablepidae <u>Anableps</u> (all species in genus) <u>Jenynsia</u> (all species in genus)	four-eyes livebearer
FAMILY Goodeidae <u>Allodontichthys</u> (all species	darter goodeid
in genus) <u>Alloophorus</u> (all species in genus) <u>Allotoca</u> (all species in genus) <u>Ameca</u> (all species in genus) <u>Ataeniobius</u> (all species <u>Chapalichthys</u> (all species	goodeid goodeid goodeid goodeid goodeid
in genus) <u>Characodon</u> (all species in genus)	goodeid

SCIENTIFIC NAME

COMMON NAME

<u>Girardinichthys</u> (all species in genus)	goodeid
<u>Goodea</u> (all species in genus) <u>Hubbsina</u> (all species in genus) <u>Ilyodon</u> (all species in genus) <u>Neoophorus</u> (all species in genus) <u>Skiffia</u> (all species in genus) <u>Xenoophorus</u> (all species in genus)	goodea goodeid goodeid goodeid goodeid goodeid
Xenotaenia (all species in genus) Xenotoca (all species in genus) Zoogoneticus (all species in genus)	goodeid goodeid goodeid
FAMILY Poeciliidae	
<u>Alfaro</u> (all species in genus) <u>Brachyrhaphis</u> (all species in genus)	livebeare: bishop
<u>Carlhubbsia</u> (all species in genus) <u>Cnesterodon</u> (all species in genus) <u>Flexipenis</u> (all species in genus) <u>Gambusia</u> (all species in genus <u>except Gambusia</u> <u>amistadensis</u> , <u>G. gaigei</u> , <u>G. georgei</u> ,	widow millionfis mosquitof: mosquitof:
<u>G. heterochir</u> and <u>G. nobilis</u>) <u>Girardinus</u> (all species in genus) <u>Heterophallus</u> (all species in genus) <u>Heterophallus</u> (all species in genus)	girardinus mosquitof: strange-f:
<u>Limia</u> (all species in genus) <u>Neoheterandria</u> (all species in genus)	molly killifish
Phallichthys (all species in	widow
genus) <u>Phalloceros</u> (all species in genus) <u>Phalloptychus</u> (all species in genus)	livebeare: livebeare:
Phallotorynus (all species in	livebeare
genus) <u>Poecilia</u> (all species in genus) <u>Poeciliopsis</u> (all species in genus except <u>Poeciliopsis</u>	molly livebeare:
occidentalis) <u>Priapella</u> (all species in genus) <u>Priapichthys</u> (all species in genus)	livebeare: diamond-so
genus)	

Pseudopoecilia (all species in genus) Quintana (all species in genus) Scolichthys (all species in genus) Tomeurus (all species in genus)

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diamond-scale

livebearer mosquitofish prongfin

SCIENTIFIC NAME

COMMON NAME

Xenodexia(all species in genus)livebearerXenophallus(all species in genus)mosquitofishXiphophorus(all species in genus)platy Xenodexia (all species in genus)

ORDER Cypriniformes FAMILY Cyprinidae Aristichthys nobilis Ctenopharyngodon idellus Hypophthalmichthys molitrix Aristichthys nobilis Mylopharyngodon piceus

ORDER Gonorynchiformes FAMILY Chanidae Chanos chanos

ORDER Perciformes FAMILY Centrarchidae Micropterus salmoides floridanus

FAMILY Centropomidae Lates calcarifer

FAMILY Channidae Ophiocephalus (Channa) striatus pongee (snakehead)

FAMILY Cichlidae Oreochromis aureus Oreochromis mossambicus Oreochromis niloticus Oreochromis spilurus Paretroplus polyactis Paretroplus sp. "lamena"

FAMILY Percichthyidae Morone saxatalis x Morone chrysops bass, hybrid striped

FAMILY Potophaenidae Coryphaena hippurus

ORDER Pleuronectiformes FAMILY Bothidae Paralichthys olivaceus

FAMILY Pleuronectidae Hippoglossus hippoglossus Hippoglossus stenolepis

livebearer

carp, bighead carp, grass (white amur) carp, silver carp, black

milkfish

bass, Florida largemouth

bass, Asian sea

tilapia, blue tilapia, Mozambique tilapia, Nile tilapia cichlid, Damba cichlid, Damba

mahimahi

flounder, Japanese (hirame)

halibut, Atlantic halibut, Pacific

SCIENTIFIC NAME

COMMON NAME

ORDER Salmoniformes	
FAMILY Salmonidae	
Oncorhynchus kisutch	salmon, coho
Oncorhynchus mykiss	trout, rainbow
Oncorhynchus tshawytscha	salmon, Chinook
Salmo gairdnerii	trout, rainbow
<u>Salmo</u> salar	salmon, atlantic

ORDER	Scorpaeniformes	
FAML	Y Anoplopomatidae	
Anoplopoma	fimbria	sablefish

BIRDS

(Taxonomy after Sibley and Monroe 1990)

PHYLLUM Chordata CLASS Aves ORDER Anseriformes FAMILY Anatidae <u>Aix ga</u>lericulata Aix sponsa Alopochen aegyptiacus Anas acuta Anas americana Anas bahamensis <u>Anas</u> <u>capensis</u> Anas clypeata Anas crecca Anas cyanoptera Anas discors Anas flavirostris Anas penelope Anas platyrhynchos laysanensis Anas platyrhynchos wyvilliana Anas sibilatrix Anas undulata Anser caerulescens Anser canagicus Anser indicus Aythya americana Aythya fuligula Aythya valisineria Biziura lobata Branta (Nesochen) sandvicensis

duck, mandarin duck, wood goose, Egyptian duck, north pintail wigeon (duck), American duck, Bahama pintail (white-cheeked) duck (teal), cape duck, northern shoveler duck (teal), green wing duck (teal), cinnamon duck (teal), blue wing duck (teal), Chilean duck, European wigeon (Eurasian) duck (teal), Laysan duck (teal), Hawaiian wigeon (duck), Chiloe duck, African yellowbill goose, lesser snow goose, emperor goose, bar-headed duck, red head duck, tufted duck, canvasback duck, musk goose, nene

SCIENTIFIC NAME

Branta bernicla Branta canadensis Branta canadensis minima Branta ruficollis Calonetta leucophrys Cereopsis novaehollandiae Chloephaga melanoptera Chloephaga picta leucoptera

<u>Chloephaga poliocephala</u> <u>Cyanochen cyanopterus</u> <u>Cygnus</u> (all species in genus) <u>Dendrocygna arborea</u>

Dendrocygna arcuata Dendrocygna autumnalis Dendrocygna bicolor

Dendrocygna eytoni

Dendrocygna viduata

Heteronetta atricapilla Merganetta armata Mergus cucullatus Mergus merganser Mergus octosetaceus Neochen jubatus Netta erythrophthalma Netta peposaca Netta rufina Oxyura jamaicensis

Sarkidiornismelanotosduck, combSomateriamollissimaduck, common eiderSomateriamollissimadresseriTadorna(all species in genus)shelduck

ORDER Charadriiformes FAMILY Scolopacidae Numenius tahitiensis

ORDER Ciconiiformes FAMILY Ardeidae Nycticorax nycticorax

FAMILY Ciconiidae <u>Ciconia ciconia</u> Mycteria ibis COMMON NAME

goose, brant goose, Canadian goose, cackling (Canada) goose, red-breasted teal, ringed goose, Cape Barren goose, Andean goose, Andean (greater Magellan) goose, ashy-headed goose, Abyssinian blue wing swan duck, black-billed whistling duck, wandering whistling duck, red-billed whistling duck, fulvous tree (fulvous whistling) duck, Eyton tree (plumed whistling) duck, white-faced tree (whistling) duck, black-headed duck, torrent duck, hooded merganser duck, goosander (merganser) duck, Brazilian merganser goose, Orinoco pochard rosy-bill pochard, red-crested duck, North American ruddy duck, comb

curlew, bristle-thighed

heron, black-crowned night

stork, white
stork, yellow-billed

SCIENTIFIC NAME

FAMILY Phoenicopteridae <u>Phoenicopterus</u> <u>minor</u> <u>Phoenicopterus</u> <u>chilensis</u> <u>Phoenicopterus</u> <u>ruber</u>

FAMILY Threskiornithidae Ajaia ajaja Eudocimus ruber Hagedashia hagedash Platalea alba Threskiornis aethiopicus

ORDER Cuculiformes FAMILY Musophagidae Tauraco hartlaubi

ORDER Gruiformes FAMILY Gruidae Anthropoides paradisea Anthropoides virgo Balearica pavonina

<u>Grus</u> <u>antigone</u> <u>canadensis</u>

FAMILY Rallidae <u>Fulica americana alai</u> <u>Gallinula chloropus</u> sandvicensis

ORDER Pelecaniformes FAMILY Fregatidae <u>Fregata</u> <u>minor</u> Fregata minor palmerstoni

FAMILY Phaenthontidae <u>Phaethon</u> <u>lepturus</u> <u>Phaethon</u> <u>rubricauda</u>

FAMILY SulidaeSuladactylatraSulaleucogasterSulanebouxiiSulasula

COMMON NAME

flamingo, African lesser flamingo, Chilean flamingo, rosy (scarlet), American

spoonbill, roseate
ibis, scarlet
ibis, hadada
spoonbill, African
ibis, sacred

turaco, blue-crested

crane, Stanley (paradise)
crane, Demoiselle
crane, crown of Africa
 (crowned)
crane, sarus
crane, sandhill

coot, Hawaiian gallinue, Hawaiian

frigate bird, great frigate bird

tropicbird, white-tailed tropicbird, red-tailed

booby, blue-faced (masked) booby, brown booby, blue-footed booby, red-footed RESTRICTED ANIMAL LIST (PART B)

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SCIENTIFIC NAME	COMMON NAME
ORDER Procellariiformes FAMILY Diomedeidae <u>Diomedea</u> <u>immutabilis</u> <u>Diomedea</u> <u>nigripes</u>	albatross, Laysan albatross, black-footed
ORDER Psittaciformes FAMILY Psittacidae <u>Coracopsis</u> <u>nigra</u> <u>Vasa</u> Psittacula krameri Rhynchopsitta pachyrhyncha	parrot, black parrot, vasa parakeet, rose-ringed (ringnecked) parrot, thick-billed
ORDER Sphenisciformes FAMILY Spheniscidae Spheniscidae (all species in family)	penguins

ORDER Struthioniformes FAMILY Struthionidae <u>Struthio</u> <u>camelus</u>

ostrich

MAMMALS

PHYLUM Chordata	
CLASS Mammalia	
ORDER Artiodactyla	
FAMILY Bovidae	
Aepyceros melampus	impala
Ammotragus lervia	sheep, barbary (aoudad)
Antilope cervicapra	antelope, blackbuck
Bison bison	bison
Capra falconeri	markhor
Capra ibex	ibex
Gazella dama	gazelle, dama
Hippotragus niger	antelope, sable
<u>Oryx beisa beisa (=O. gazella beisa)</u>	oryx, beisa
<u>Ovis</u> <u>musimon</u>	sheep, mouflon
Tragelaphus imberbis	kudu, lesser
<u>Tragelaphus</u> <u>oryx</u> (=Taurotragus <u>oryx</u>)	eland, common
<u>Tragelaphus</u> <u>scriptus</u>	bushbuck
<u>Tragelaphus</u> <u>strepsiceros</u>	kudu, greater
FAMILY Cervidae	
<u>Axis</u> <u>axis</u> (= <u>Cervis</u> <u>axis</u>)	deer, axis
<u>Cervus</u> <u>elaphus</u>	elk

SCIENTIFIC NAME	COMMON NAME
Rangifer tarandus	reindeer
FAMILY Giraffidae <u>Giraffa</u> sp.	giraffe
ORDER Carnivora FAMILY Mustelidae Lutra persipicillata	otter, Malayan smooth
FAMILY Otariidae <u>Zalophus</u> <u>californianus</u>	sea lion
FAMILY Phocidae <u>Monachus</u> <u>schauinslandii</u>	seal, Hawaiian monk
ORDER Diprotodontia (=Marsupialia FAMILY Macropodidae <u>Macropus</u> eugenii <u>Macropus</u> robustus <u>Macropus</u> rufogriseus <u>Macropus</u> rufus) wallaby, dama wallaro, Woodward's wallaby, Bennett's kangaroo, red
ORDER Odontoceti (=Cetacea) FAMILY Delphinidae <u>Globicephala macrorhynchus</u> <u>scammoni</u> <u>Pseudorca crassidens</u> <u>Tursiops truncatus</u>	whale, Pacific pilot whale, false killer porpoise, bottlenosed
ORDER Perissodactyla FAMILY Equidae Equus <u>burchelli</u> Equus <u>burchelli</u> bohmi	zebra, plains zebra, Grant
ORDER Pinnipedia FAMILY Phocidae <u>Phoca</u> <u>vitulana</u>	seal, harbor
ORDER Primates FAMILY Callithricidae Callithricidae (all species in family)	monkey, marmosets, tamarins
FAMILY Cebidae Cebidae (all species in family)	monkey, new world

RESTRICTED ANIMAL LIST (PART B)

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SCIENTIFIC NAME

FAMILY Cercopithecidae Cercopithecidae (all species in family)

FAMILY Hylobatidae <u>Hylobates</u> (all species in genus)

FAMILY Lemuridae Lemuridae (all species in family)

FAMILY Lorisidae <u>Nycticebus</u> <u>coucang</u> <u>Perodicticus</u> <u>potto</u>

FAMILY Pongidae Gorilla gorilla Pan troglodytes Pan paniscus Pongo pygmaeus COMMON NAME

monkey, old world; baboon; colobus; langur, macaque

gibbons

lemur, bush baby (Galago)

loris, slow potto

gorilla chimpanzee chimpanzees orangutan

V. Administrative Matters

A.Update on the Board's Upcoming Advocacy Activities and Programs in accordance with the Board's Powers under Section 201M-5, HRS