## Appendix 6

## Commissioned Papers<sup>1</sup>

Assessment of Energy-Integrated Farming Technologies for U.S. Insular Areas (NTIS PB87 142691/AS)

Alex G. Alexander Energy Cane, Inc.

Everett, WA

Cultural Dimensions of Resource Definition and Use in Micronesia (NTIS PB87 142675/AS)

William H. Alkire

Department of Anthropology

University of Victoria, B.C.

Tourism Development and Sustainable Renewable Resource Management for U.S.-Affiliated Pacific Islands (NTIS PB87 142725/AS)

Janice Auyong

Raymond Tabata

Sea Grant Extension Service

University of Hawaii

The Development and Management of Nearshore Fisheries in the U.S.-Affiliated Pacific Islands (NTIS PB87 142691/AS)

Paul Callaghan University of Guam

Assessment of Livestock Production Technologies in U.S.-Affiliated Caribbean Islands (NTIS 1%87 142691/AS)

Ruben Caro-Costas

USDA Agricultural Research Service

Rio Piedras, Puerto Rico

Assessment of Agricultural Crop Production Technologies in Puerto Rico (NTIS PB87 142691/AS)

Fernando Castillo-Barahona

Plantas Tropicales de Puerto Rico

The Integration of Customary and Traditional Renewable Resource Practices in a Modern Legal Framework (NTIS PB87 142725/AS)

Williamson B.C. Chang Mari J, Matsuda

Brian K. Nakamura

PartA: The Setting for Resource DevelopmentNTISPB87142675/ASPartB: Agriculture - PacificNTISPB87142683/ASPartC: Agriculture - CaribbeanNTISPB87142691/ASPartD: Agroforestry and ForestryNTISPB87142700/ASPartE: Aquatic ResourcesNTISPB87142717/AS

Part F: Development Planning Considerations NTIS PB87 142725/AS

Wm. S. Richardson School of Law

University of Hawaii

Tropical Island Ecosystems and Protection Technologies to Sustain Renewable Resources in U. S.-Affiliated Islands (NTIS PB87 142675/AS)

Arthur L. Dahl

Ecological Advisor

Plomodiern, France

(formerly with South Pacific Commission]

Organizations Dealing With Renewable Resource Development and Management in Puerto Rico and the U.S. Virgin Islands (NTIS PB87 142675/AS)

Hilda Diaz-Soltero

Nature Conservancy, Washington DC

(formerly Secretary, Puerto Rico Department of Natural Resources)

Boris Oxman

Special Adviser, Coastal Zone

Management Program

Puerto Rico Department of Natural Resources Forestry in Puerto Rico: A Case Study in Successful Organizational Change (NTIS PB87 142700/AS)

Hilda Diaz-Soltero

Nature Conservancy, Washington DC

(formerly Secretary, Puerto Rico Department

of Natural Resources)

Ralph Schmidt

United Nations Food and Agriculture

Organization, Rome

(formerly Chief, Puerto Rico Forest Service

Agriculture Development Needs and Opportunities in the U.S. Virgin Islands (NTIS PB87 142691/AS)

Eric Dillingham

Farmer, U.S. Virgin Islands

Case Studies of the Impacts of Introduced Animal Species on Renewable Resources in the U. S.-Affiliated Pacific Islands (NTIS PB87 142675/AS)

Lucius Eldredge

University of Guam Marine Laboratory

Traditional Agriculture and Resource Management Systems in the High Islands of Micronesia (NTIS PB87 142683/AS)

Marjorie V.C. Falanruw

Yap Institute of Natural Science

An Analysis of Black Pepper Production in Ponape (NTIS PB87 142683/AS]

Meredith Glenn

Consultant, New York

<sup>&#</sup>x27;Microfiche or paper copies of collections of commissioned papers may be purchased from the U.S. Department of Commerce, National Technical Information Service (NTIS), Springfield, VA 22161. The NTIS order number following each title indicates in which part of Volume 11: Commissioned Papers the paper appears:

(formerly with Pohnpei State Department of Resources & Development)

Aquiculture Development in the U.S.-Affiliated Islands (NTIS PB87 142717/AS)

John Glude

Glude Aquiculture Consultants, Inc., Seattle, WA Aquiculture and Fisheries Development in Puerto Rico and the U.S. Virgin Islands (NTIS PB87 142717/AS)

Melvin Goodwin

Paul D. Sandifer

Environmental Research Projects, Rhode Island Forestry and Agroforestry Technologies: Developmental Potentials in the U.S.-Affiliated Pacific Islands (NTIS PB87 142700/AS)

Craig C. Halbower

Consultant, Colorado

(formerly with Yap State Department of

**Resources & Development)** 

The Role of Marine Resource Tenure Systems (TURFS) in Sustainable Nearshore Marine Resource Development and Management in U. S.-Affiliated Pacific Islands (NTIS PB87 142717/AS) Robert Johannes

CSIRO Marine Laboratories, Division of Fisheries Tasmania. Australia

Implications of History and Culture for Sustaining Development of Renewable Resources on U. S.-Affiliated Pacific Islands (NTIS PB87 142675/AS) Robert C. Kiste

**Pacific Island Studies Program** 

University of Hawaii

Impacts of U.S. Military Presence on U. S.-Affiliated Islands (NTIS PB87 142725/AS)

Stephen A. Loftus, Jr.

Consultant, McLean, VA

An Overview of Selected Natural Systems Planning and Management Techniques for U. S.-Affiliated Islands (NTIS PB87 142725/AS)

G. Kern Lowry

Department of Urban and Regional Planning University of Hawaii

Assessment of Commercial Agriculture Technologies for U.S.-Affiliated Pacific Islands (NTIS PB87 142683/AS)

**Robert Lucas** 

Robert L. Lucas and Associates

Honolulu, HI

Coastal Resource Development and Management in the U.S. Pacific Islands (NTIS PB87 142725/AS)

James E. Maragos

**Pacific Ocean Division** 

U.S. Army Corps of Engineers

Honolulu, HI

Assessment of Semiarid Agricultural Production Technologies for the U.S.-Affiliated Caribbean Is-

lands (NTIS PB87 142691/AS)

Gregory L. Morris

**Consulting Hydrologist, Puerto Rico** 

Douglas J. Pool

Tropical Research and Development, Inc.

Puerto Rico

The Suitability of Cooperative Enterprises for the Production of Food on the Territorial Islands of the United States (NTIS PB87 142725/AS)

Neal Nathanson

**National Rural Development and** 

Finance Corporation

Washington, DC

Aquiculture and Mariculture Development in the U.S. Pacific Insular Areas (NTIS PB87 142717/AS)
Steven Nelson

University of Guam Marine Laboratory

The Marshall Islands Coconut Industry: Prospects for Expansion and Development (NTIS PB87 142700/AS)

Skip Poison

University of Hawaii

Forestry and Agroforestry Technologies: Development Potentials in U.S.-Affiliated Caribbean Islands (NTIS PB87 142700/AS)

Douglas J, Pool

Tropical Research and Development, Inc.

Puerto Rico

Effects of U.S. Macroeconomic Policy on Puerto Rico and U.S. Territories (NTIS PB87 142725/AS)

**Ben Posner** 

College of the Virgin Islands

Commercial Crop Production Technologies and Development Potentials for U.S.-Affiliated Pacific Islands (NTIS PB87 142683/AS)

**Bill Raynor** 

**Department of Agriculture** 

Ponape Agriculture and Trade School

Assessment of Food Processing Technologies for U.S.-Affiliated Caribbean Islands (NTIS PB87 142691/AS)

Ferdinand Sanchez-Nieva

Chemical Engineer, Puerto Rico

The Critical Role of the U.S. Congress in Fostering Self-Reliance in the Freely Associated States of Micronesia (NTIS PB87 142675/AS)

Henry M. Schwalbenberg, S. J.

West Side Jesuit Community, New York Traditional Crafts in the U.S.-Affiliated Caribbean Islands: An Addendum (NTIS PB87 142725/AS)

**Daniel Sheehy** 

Folk Arts Program, National Endowment for the Arts

Washington, DC

Non-Food Marine Resources Development and

Management in the U.S.-Affiliated Pacific Islands (NTIS PB87 142717/AS)

**Barry Smith** 

University of Guam Marine Laboratory Food and Feed Processing Technologies in the United States Insular Areas of the Pacific (NTIS PB87 142683/AS)

Philip G. Stiles

Division of Agriculture

Arizona State University

Assessment of Livestock Production Technologies in Micronesia and Feasibility Study for Locally Produced Pig Feed on Ponape (NTIS PB87 142683/AS)

Miklos Szentkiralyi

**Animal Husbandry Department** 

Ponape Agriculture and Trade School

Applicability of Zeolite Refrigeration Systems to Small Tropical Islands (NTIS PB87 142717/AS)

**Dimiter Tcherney** 

The Zeopower Company

Natick, MA

Fiscal Incentive Social Support Programs, the Caribbean Basin Initiative and the Development of Renewable Resources in Puerto Rico and the U.S. Virgin Islands (NTIS PB87 142675/AS)

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Puerto Rico Department of Natural Resources Economic Pests and Pest Management Technologies Suitable for U.S.-Affiliated Pacific Islands (NTIS PB87 142683/AS)

**Agnes Vargo** 

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**American Samoa Community College** 

Assessment of Agricultural Production Technologies for U.S. Caribbean Islands (NTIS PB87 142691/AS)

Jose Vincente-Chandler

**USDA Agricultural Research Service** 

Rio Piedras, Puerto Rico

Handicrafts Industry Development and Renewable Resource Management for U.S.-Affiliated Pacific Islands (NTIS PB87 142725/AS)

Margo Vitarelli

**Consortium of Pacific Arts and Cultures** 

Honolulu, HI

Non-Food Marine Resources Development and Management in the U.S.-Affiliated Caribbean Islands (NTIS PB87 142717/AS)

**Charles Wahle** 

**Stone Harbor Marine Laboratory** 

Lehigh University, NJ

## Appendix H

# **Glossary of Acronyms and Terms**

### **Acronyms**

ACIAR	—Australian Centre for International Agriculture Research	FAS	-Freely Associated States (FSM, RMI, and the Republic of Palau)
ADP	—Aquaculture Development Program	FEDA	—Federation Para El Desarrollo     Agricola de Puerto Rico
AID	—U.S. Agency for International     Development	FIP	—Forestry Incentive Program (USDA)
AMS	—Agricultural Marketing Service (USDA)	FLSA FSM	<ul><li>Fair Labor Standards Act</li><li>Federated States of Micronesia</li></ul>
ARS	—Agriculture Research Service (USDA)	GAO	—U.S. Government Accounting Office
CARDI	—Caribbean Agriculture Research and Development Institute	GDP 1PM	<ul><li>Gross domestic product</li><li>Integrated pest management</li></ul>
CATS	-Civic Action Teams (U.S. Army)	ITC ITCZ	—Island Trading Company —Intertropical Convergence Zone
CCDC	—Consumer Cooperative Development Corporation	ITF	—Institute of Tropical Forestry —International Union for the
CFMC	Caribbean Fishery Management Council	IUCN	Conservation of Nature and Natural Resources
CNMI	—Commonwealth of the Northern Mariana Islands	KMR MARC	-Kwajelein Missile Range -Micronesian Area Research
CODREMAR	-Puerto Rico Corporation for the		Center—University of Guam
COF	Development of Marine Resources	MATADC	—Micronesian Area Tropical Agriculture Data Center—
COE	—Army Corps of Engineers	1000	University of Guam
CRIS	—Current Research Information System (USDA)	MMDC	<ul><li>Micronesian Mariculture</li><li>Demonstration Center</li></ul>
CRM	—Coastal Resource Management	MSL	—Marine Systems Laboratory
CVI	—College of the Virgin Islands		(Smithsonian Institution)
CZMA	-Coastal Zone Management Act	MSY	-Maximum sustainable yield
CZMP	—Coastal Zone Management Program	NEA	—National Endowment for the Arts
DAWR	-Guam Division of Aquatic and Wildlife Resources	NELH	—Natural Energy Laboratory of Hawaii
DHHS	<ul> <li>-U.S. Department of Health and Human Services</li> </ul>	NEPA	—National Environmental Policy Act
DOD	—U.S. Department of Defense	NOAA	-National Oceanic and
DWI	—Danish West Indies		Atmospheric Administration
DWIC	—Danish West India Company		(USDOC)
EFD	Engineering Field Divisions	NPS	-National Park Service (USDOI)
El D	(U.S. Army)	OTEC	—Ocean thermal energy
EIS	-Environmental Impact		conversion
	Statement	OTIA	—Office of Territorial and
EPA	-Environmental Protection		International Affairs (USDOI)
	Agency	PBDC	-Pacific Basin Development
ERS	-Economic Research Service		Council
	(USDA)	PFDF	-Pacific Fisheries Development
FAD	—Fish aggregation device		Foundation
FAO	—Food and Agriculture	PIDP	-Pacific Islands Development
	Organization (United Nations)		Program

RAMA	—Resource Assessment Marianas Archipelago database	Agroforestry: Collective term for cultural production systems
RMI	Republic of the Marshall Islands	mixture of annual, perennial, nial species, sometimes includi
SAC	-Strategic Air Command	same land management unit.
SCS	—U.S. Soil Conservation Service (USDA)	Aiga: A social landholding unit in Algal ridge: An algae-covered ri
SFCA	—Saipan Farmer's Cooperative Association (CNMI)	the shallow surface of coral in Algal turf: A flatbed of densely g
SPC	—South Pacific Commission	used to describe macroalga
SPREP	—South Pacific Regional	used as part of crab mariculture
	Environmental Programme	Alley cropping: A form of agro
	(SPC)	planting tree species in rows,
TURF	—Traditional use rights in	planted in the alleys or avenue
TTD.	fisheries	nue cropping.
TTPI	—Trust Territory of the Pacific Islands	Alluvium/ Alluvial soil: Clay, si similar detrital material depo
UGML	—University of Guam Marine	water.
TIG A E	Laboratory	Aquifer: A water-bearing strat
USAF USCC	—U.S. Air Force	rock, sand, or gravel; often u
USCC	—United States Commercial Company	Ghyben-Herzberg lens comm Artificial reef: An artificial st
USDA	—U.S. Department of Agriculture	nearshore waters to encourage
USDOC	—U.S. Department of Agriculture  —U.S. Department of Commerce	growth of reef community sp
USDOI	—U.S. Department of the Interior	corals, mollusks, crustaceans,
USFS	-U.S. Forest Service (USDOI)	sea urchins), fish, and marine
USFWS	—U.S. Fish and Wildlife Service	Avenue cropping: A form of ag
	(USDOI)	ing planting tree species in i
USGS	-U.S. Geological Survey (USDOI)	crops planted in the avenues or
US-MAB	—U.S. Man and the Biosphere	Alley cropping.
***	Program	Back-reef: The nearshore side
USN	-U.S. Navy	Bauxite: An impure soil mixture
USNMFS	—U.S. National Marine Fisheries Service (USDOC)	pounds largely devoid of comm Bedding planes: Flat surfaces in
USVI	-U.S. Virgin Islands	along which adjacent beds to
VIBR	-Virgin Islands Biosphere	Benthic: Of, referring to, or rela
VIDIC	Reserve	of a body of water, such as t
VICORP	—Virgin Islands Corporation	Biophysical: The natural (biolog
VIRMC	—Virgin Islands Resource	attributes of a site and their i
	Management Cooperative	a biophysical assessment invol-
WESTPACFIN	—Western Pacific Fisheries	attributes for their suitability
****	Information Network	Biosphere reserve: A form of I
YINS	—Yap Institute of Natural	signed to integrate conservation
	Science	search, monitoring, and edu traditional landuse and loc
	Тоише	needs The typical reserve i

#### **Terms**

Agouti: A rabbit-sized rodent indigenous to the U.S.-affiliated Caribbean islands; believed to have been extirpated during the colonial period.

Agredados: Puerto Rican sharecroppers on hacienda land.

Agroecosystem: An ecosystem manipulated for agricultural purposes.

r a number of agrithat incorporate a and woody perenling animals, on the

in American Samoa. ridge that forms on reefs.

growing algae; also ae-covered screens re in the Caribbean.

oforestry involving , with annual crops es. Also called Ave-

silt, sand, gravel, or osited by running

tum of permeable used to refer to the non to islands.

tructure placed in e the settlement and pecies such as hard echinoderms (e.g., ne plants.

groforestry involvrows, with annual or alleys. Also called

of the reef.

of aluminum common plant nutrients. n sedimentary rocks tend to separate

ated to, the bottom the ocean.

gical and physical) interrelationships; lves assessing these y for various uses.

protected area deion efforts with relucation activities, cal socioeconomic needs. The typical reserve is comprised of a highly protected core area, an experimental research area, a rehabilitation area, a traditional use area, and a cooperative development area.

Boom-and-bust syndrome: A cyclic process in which: 1) a new resource or market for a resource is discovered offering opportunities for profit, 2) numerous entrepreneurs begin to produce the desired product eventually flooding the market and driving down the price, and 3) the subsequent loss of profit-making opportunities results in entrepreneurial flight and collapse of the industry.

Bund: An embankment used to control the flow of water.

Bycatch: Miscellaneous marine species caught in addition to the desired species at which primary fishing efforts are directed.

Caique: Caribbean Indian chieftain.

Capillary forces: Surface tension force that acts to draw water upward in small openings.

Ciguatoxins: Toxin found in nearshore tropical marine fish, currently believed to be linked to sediment discharge from nearby terrestrial areas.

Copra: Dried coconut meat yielding coconut oil. Conuco: Traditional Caribbean cultivation system involving interplanting of root crops in mounds of soil.

Convective precipitation: Precipitation generated from condensation of moisture laden air that has risen due to surface heating,

Corm: A common name referring to the tuber of a number of root crops including yam (Dioscorea spp.) and taro (Colocasia spp.).

Cruzan: Inhabitant of the island of St. Croix, U.S. Virgin Islands.

Curio: Something considered novel, rare, or bizarre. Cyclones/ cyclonic storms: A system of winds or storm that circles around a center of low atmospheric pressure clockwise in the southern hemisphere and counterclockwise in the northern hemisphere, advances at a speed of 20 or more miles per hour, and often brings abundant rain; also called a hurricane,

Desacomodados: Squatters on Crown land in 18th century Puerto Rico.

District Center: Administrative centers established for the government of the Trust Territory of the Pacific Islands, which now comprise the major urban centers of the Commonwealth of the Northern Mariana Islands, the Republic of the Marshall Islands, the Federated States of Micronesia, and the Republic of Palau.

Diurnal: Of, relating to, or occurring in the daytime; having a daily cycle.

Ecosystem: The sum of biotic and abiotic components of a specific environment.

Endemic: Having evolved in or restricted to a locality or region.

Epiphyte: A plant that derives its moisture and nutrients from the air and rain and usually grows on another plant.

Evapotranspiration: Removal of water from the soil through the combined processes of evaporation and transpiration.

Externalities: A direct, commonly adverse, effect of an action (e.g., pollution) that affects another's welfare but that is not reflected in market prices or is not taken into account by the individual, firm, or group causing the externality in deciding to undertake the action.

Extinct: No longer existing.

Extirpate: To remove completely from a particularly area or region, but not completely removed from the Earth.

Fa'a Samoa: Traditional lifestyle and social structure of American Samoa ("the Samoan Way"). Fiafia: Traditional Samoan Sunday feast.

Fissures: A narrow opening or crack in rocks. Fono: Governing council of American Samoan village,

Fore-reef: The seaward side of the coral reef.

Free association: A form of legal association between the United States, the Republic of the Marshall Islands, the Federated States of Micronesia, and expected in the near future between the U.S. and the Republic of Palau, in which the Freely Associated States have full control over their internal and external affairs and will receive U.S. funding over a specified period while the United States retains security and defense responsibilities.

Fumaroles: A small opening in rock associated with recent volcanic activity from which hot gases and vapors issue.

Ghyben-Herzberg lens: The lens-shaped freshwater-saturated zone formed as freshwater percolates down through island soils. This freshwater zone is confined in a general lens shape by the surrounding denser seawater.

Green manure: Green plant material that is incorporated into the soil as a means to enhance soil fertility.

Groundwater: Water that occurs in pores and cracks of rocks and sediments in the wholly saturated zone below the Earth's surface.

Guano: A phosphate-rich substance composed chiefly of the excrement of bats or seafowl and used as a fertilizer.

Hacienda: A large estate, often devoted to such agricultural pursuits as cattle ranching.

Hermatypic coral: Reef-building corals able to grow to a maximum depth of approximately 150 feet below sea level.

Humus: A complex soil resulting from partial decomposition of plant or animal matter and forming the organic portion of soil.

Hydrophyte: A plant growing in water or in soil too waterlogged for most plants to survive.

**Hydroponics: Culture of plants in nutrient solutions** 

- with or without an inert medium to provide mechanical support.
- Intercropping: The planting of two or more crops together at the same time by row, strip, or in a seemingly random mixture.
- Interplant: To plant a crop between plants of another kind.
- Intertidal: Of, relating to, or being part of the littoral zone between the high- and low-tide marks.
- Jibaros: Puerto Rican peasants in late 18th century colonial agricultural economy.
- Lancho: A rural, generally wooded, farm that urban dwellers in the Mariana islands traditionally used to cultivate a number of food crops and maintain livestock such as chickens and pigs.
- Lithology: The study of rocks, or the character of a rock formation.
- Littoral: Of, relating to, or situated in or near a shore, especially the shore zone between low and high water marks.
- Macroalgae: Large, chiefly aquatic, nonvascular plants, especially seaweeds.
- Matai: Titled chiefs in American Samoa.
- Meristematic tissue: Plant tissue capable of forming a replicate of the original plant given appropriate growth conditions.
- Microhabitat: The environment immediately surrounding the organism of interest.
- Midden: A refuse heap; commonly analyzed in archaeology to provide information on prehistoric lifestyles.
- Mongoose: Predator introduced to the U.S. Virgin Islands in the early colonial period and presumed responsible for extermination of local fauna, particularly the agouti.
- Monoculture: The cultivation of a single product to the exclusion of other uses of a unit of land.
- Muck: Highly organic, wet soils; typical of taro pits and mangrove swamps.
- Mwarmwar: Head ornaments similar to leis and typically made of fragrant flowers and leaves, such as ylang-ylang, worn in the Caroline islands.
- Naborias: Caribbean Indian lower class, generally laborers.
- Neo-tradition: An elaboration or adjustment of a traditional practice.
- Nitainos: Caribbean Indian higher class.
- Ordnance: Military supplies, including weapons, ammunition, combat vehicles, and maintenance tools and equipment.
- Orographic precipitation: Rainfall generated as moisture laden air is forced to rise over a topographic feature, most commonly mountains.
- Overexploitation: Exploitation of a resource at greater than sustainable levels.

- **Pelagic:** Of, related, to or living in the open sea; oceanic.
- Pneumatophores: A root often functioning as a respiratory organ in marsh or swamp plants such as mangroves.
- Polyculture: Agricultural production system incorporating a diversity of plant species and varieties concurrently on a unit of land.
- Reef flat: The shallow reef area between the coral reef and shoreline.
- Relay cropping: Planting a second crop prior to the harvest of the initial crop on a unit of land.
- Savanna: A tropical or subtropical grassland containing scattered trees and drought-resistant undergrowth.
- Sawei: A historical socioeconomic exchange system between Yap and nearby outer islands.
- Scuba [self-contained underwater breathing apparatus]: Apparatus used for breathing while swimming under water.
- Sedimentation: The process of deposition of usually fine-grained sediment; settling. Excessive sedimentation in nearshore waters can smother nearshore marine bottom communities and kill corals.
- Slumps: Small landslides in sloping areas of highly weathered soils, common to degraded insular lands.
- Snorkeling: To swim partly submerged and breathing through a tube.
- Solution cavities: Various sized openings in rock formed through the dissolving action of water.
- Subsistence farming: A system of farming that provides all or almost all the goods required by the farm family usually without any significant surplus for sale.
- Swidden: A form of land clearing involving slashing standing vegetation and, commonly, burning it onsite to provide soil nutrients (also called slashand-burn clearing).
- Terrane: The area or surface over which a particular rock or group of rocks is prevalent.
- Thalli: The fleshy portions of a plant, especially marine macroalgae.
- Theca: The solid structure formed by reef-building coral polyps.
- Traditional: Relating to indigenous, pre-western contact systems.
- Trusteeship: Supervisory control by one or more countries over a trust territory.
- Tsunami: Seismic sea wave; a great sea wave produced by submarine earth movement or volcanic eruption.
- TURF [traditional use rights in fisheries]: Systems of limited access to marine resources practiced traditionally in the U.S.-affiliated Pacific islands.

Underutilized/underused: To utilize less than fully or below the sustainable maximum yield. Water table: The top surface of the groundwater

Watershed: A region or area draining into a par-

ticular watercourse or body of water; a fundamental ecological unit for resource development planning,

Weir: A fence or enclosure set in a waterway for taking fish,