

General Cattle Health Management

- * Environmental changes can cause stress, reduced productivity and increased vulnerability to diseases and pests.
 - Monitor health of your animals and immediately report any disease cases to your livestock extension officers.
 - Clean shelters regularly.
 - Record keeping as part of good farm management practices

Waste Management

- * To reduce the impact of animal waste in the environment, greenhouse gas emission and public health:
 - Encourage rotational pasture grazing to allow recovery of pasture and control of worms.
 - Fence water ways.
 - Composting animal manure for use as organic fertilizers in gardens, pastures and fodder plants.
 - Integrate cattle and plantation cash crop for value adding and utilizing animal wastes as fertilizers.



SPC
Secretariat
of the Pacific
Community

For More Information:

Contact your local animal health extension officer or
the Secretariat of the Pacific Community – LRD helpdesk:
lrdhelpdesk@spc.int

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Coping with Climate Change in the Pacific Island Region Project
(CCCPIR)

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SPC-AHP CC FACT SHEET NO.03

CLIMATE CHANGE ADAPTATION FOR SMALLHOLDER CATTLE FARMING IN THE PACIFIC



Climate change affecting **cattle** production in the Pacific is a reality. Let us be prepared.

CLIMATE CHANGE IMPACTS:

Increased Temperature	Drought & Variable Rainfall	Increased Cyclones & Flooding Intensity	Sea Level Rise
			
<ol style="list-style-type: none"> 1. Decreased production (reduced grazing, low body weight, less milk, fewer offspring). 2. Animals become temperamental and difficult to handle. 3. Heat stress. 4. Loss of animals and genetic resources 	<ol style="list-style-type: none"> 1. Poor pasture and fodder quality and reduced quantity. 2. Water shortage. 3. Heat stress. 4. Loss of animal and genetic resources. 5. Fire risks to pasture and structures. 	<ol style="list-style-type: none"> 1. Destruction of farm sheds and pastures cover. 2. Loss of production due to: <ul style="list-style-type: none"> • Increased incidence of pest and diseases such as foot rot. • Shortage of feeds due to flooded pastures. • Loss of animals due to drowning and diseases. 3. Increased risk of spread of animal diseases to humans, example leptospirosis 	<ol style="list-style-type: none"> 1. Reduced land area for grazing and natural shelter for cattle. 2. Salt spray damage to pasture and fodder crops. 3. Salt contaminated drinking water.

ADAPTATION OPTIONS:

<ul style="list-style-type: none"> • Select cattle breeds that are tolerant to high temperatures. • Plant tree shades in paddocks. • Build open-sided sheds. • Cut and carry to supplement non-grazing period. • Access to a good water source. 	<ul style="list-style-type: none"> • Planting of drought tolerant pasture and fodder species. • Supplement feeding through cut-and-carry grasses and introduce silage. • Installation of additional water sources such bore water, rain water tanks. • Consider use of commercially available stock feeds. • Adjust stocking rates. 	<ul style="list-style-type: none"> • Locating farm sites away from flood-prone areas. • Planting trees to cover and wind breaks. • Have an animal evacuation plan in place. • Organising animals for rapid relocation during floods and cyclones. • Monitor health of animals and family members. • Cut and carry during periods of flood and cyclones to supplement feed. 	<ul style="list-style-type: none"> • Locate farm sites on elevated areas. • Adjust stocking rates appropriate for available grazing areas. • Planting of salt tolerant pasture and fodder crops. • Installation of additional rain water harvesting and storage facilities.
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