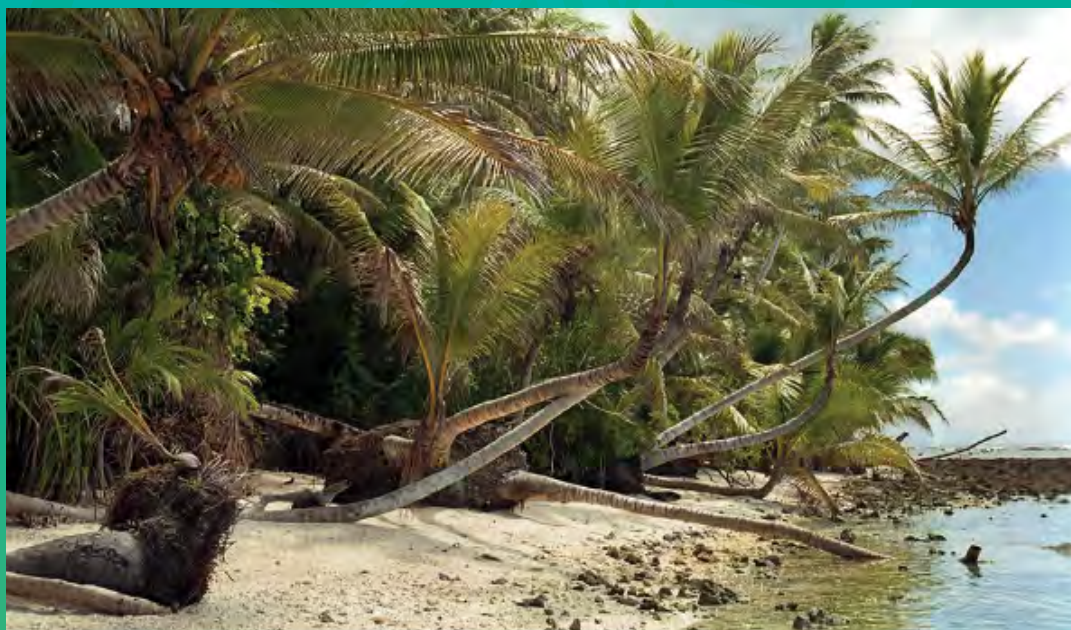




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Coconut Risk Management and Mitigation Manual for the Pacific Region



Compiled by R. Bourdeix, J. M. Sourisseau and J. Lin

Suva, December, 2021



LRD

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Coconut Risk Management and Mitigation Manual for the Pacific Region

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3. THE FORTY RISKS IDENTIFIED AND THEIR CATEGORIZATION

By R. Bourdeix, J. M. Sourisseau and J. Lin

Forty different risks were identified and are listed in Table 2 (next page). Some are rather specific to coconut cultivation, while others are part of a broader approach to agricultural risks. This list has evolved during the research, in interaction with many stakeholders. In the beginning, some socio-economic topics were missing, such as financing and access to credit for farmers, issues related to fair trade and organics, etc. A notation of risk level and gravity from 1 (Low) to 3 (High) is proposed, in accordance with the online survey and the exchanges conducted during the meeting held in December 2018 in Fiji.

During the CIDP meeting held in Nadi, from 11 - 14 December 2018, the participants agreed to add two more risk descriptions and to reword the titles of 10 more descriptions.



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Table 2. Categorizing the risks in coconut value chain.

	Risk	Risk level	Gravity
A	Climate change and hazards		
1	Cyclones, tropical storms and tsunamis	1	1
2	Drought	2	2
3	Flooding, king tides and landslides	2	1
4	Temperature and other climate hazards	3	3
B	Pests and diseases		
5	Phytoplasmas	3	1
6	Viral diseases	3	2
7	Oryctes rhinoceros beetle	1	1
8	Mites (Aceria guerreronis)	3	2
9	Other pests (large animals)	3	3
10	Pests and diseases in nurseries	1	1
11	International transmission of pests and diseases	2	1
C	Planting material		
12	Efficient and diversified planting material	1	1
13	Methods for selecting parent palms	2	2
14	Traditional varieties	1	2
15	Certified organic planting material	3	3
D	Agricultural practices		
16	Farming techniques	2	2
17	Traditional agricultural knowledge and practices	2	2
18	Cover cropping and availability of seeds and cuttings	2	1
19	Organic fertilizers	2	3
20	Manpower in coconut agriculture and factories	1	2

Risk (continued)		Risk level	Gravity
E	Organizational and policy issues		
21	Investment in coconut research and replanting	2	1
22	Regulation on the quality of coconut products	3	2
23	Replanting projects and relevant beneficiaries	1	1
24	Farmer's organizations	2	3
25	Shift to other crops or other forms of land use	1	1
26	Making decisions with little information	1	1
F	Post-harvest and processing		
27	Harvest and post-harvest handling	3	2
28	Aflatoxins, bacteria and chemicals	2	2
29	Palatability and practicality of coconut products	3	2
G	Economics and marketing		
30	Purchasing price of coconut products	1	1
31	Finance and insurance for coconut business	2	2
32	The profitable business of aromatic coconut water	2	1
33	Cost of organic and fair trade certification	2	3
34	Trading accessibility in remote farms or islands	2	3
35	Supply of coconut to factories	3	3
H	Socio-cultural habits		
36	Stakeholders' beliefs about coconut	1	2
37	Reliable information about farming and technology	2	2
38	Dietary habits in the Pacific region	2	2
39	Adoption of agricultural innovations	3	2
40	Consumer interest in coconut products	3	3



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