

SOUTH PACIFIC COMMISSION

Quarantine Advisory Leaflet 3
1984



CABBAGE

(and OTHER BRASSICAS)

Latin names:	<i>Brassica oleracea</i> var <i>capitata</i> (English cabbage) and other cultivated races of <i>B. oleracea</i> such as cauliflower, broccoli, brussels sprouts, kale and kohlrabi. <i>Brassica chinensis</i> (Chinese cabbage) and other <i>Brassica</i> spp such as mustards, swede, turnip and radish.
Family:	Brassicaceae
Closely related plants:	Other cruciferous plants
Trade commodities:	The mature head of compressed overlapping leaves excluding outer leaves and with little or no stem attached or clean roots.
Propagating material:	Seed

Quarantine Risks

Fresh vegetables

Some seasonal trade between the countries of the region exists but there is considerable trade from countries outside the region in the more temperate species.

There are several countries within the region that are free of certain important *Brassica* pests including:

Cabbage cluster caterpillar

(*Crocidolomia binotalis*)

Cabbage leaf miner (*Liriomyza brassicae*)

Cabbage white butterfly (*Pieris rapae*)

Diamond-back moth (*Plutella xylostella*)

Serpentine leaf miner (*Liriomyza sativae*)

Slugs and snails

Where there is a need for imports from countries in which these important pests occur into countries free of them treatment will be necessary.

Loan No : 3583 (B)

From other countries, imports will only require treatment if live insects such as the following are found:

Aphids

Bell moth (*Adoxophyes fasciculana*)

Cabbage centre grub (*Hellula hydralis*)

Corn earworm (*Heliothis armiger confertus*)

Cabbage webworm (*Hellula undalis*)

If intact, clean, unblemished leaves are imported it is unlikely that any serious fungal, bacterial and virus pathogens would be present.

Propagating material

Seeds from reputable sources are of minimal quarantine risk.

Quarantine Action and Treatments

Mandatory commodity treatments should normally be carried out in the exporting country.

Inspection should first of all ensure that the consignment consists of tightly bunched leaves, or young and fresh leaves in the case of Chinese cabbage, won bok, pak choi and mustard. Root brassicas should be free of soil, the leaves removed at the crown and roots trimmed. Any blemished and unattached leaf tissue should be removed and burnt.

Fresh vegetables

If necessary fumigate with methyl bromide at normal atmospheric pressure as follows:

g/m ³	time (hours)	temperature (°C)
48	2	10 — 15
40	2	16 — 20
32	2	21 — 26
24	2	27 — 32

This leaflet was prepared in collaboration with UNDP/FAO-SPC project RAS 83/001 Strengthening Plant Protection and Root Crops Development in the South Pacific and published by the SPC Plant Protection Programme, Box 2119, Suva, Fiji.

This leaflet gives general guidance only; quarantine action is subject to the legislation and regulations of individual countries of the Region.

Leaflets in this series include:

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|---------------|-------------|
| (1) Banana | (6) Orchids |
| (2) Beans | (7) Peanuts |
| (3) Cabbage | (8) Tomato |
| (4) Citrus | (9) Taro |
| (5) Cucurbits | |