

SURVEY ON QUARANTINE AND PRE-SHIPMENT USES OF METHYL BROMIDE

Purpose of the Survey

The purpose of this survey is to determine the quantities of methyl bromide (MB) that are used for Quarantine and Pre-shipment (QPS) treatments. QPS use of methyl bromide is specifically exempted from the phase-out provisions of the Montreal Protocol. In Decision XI/13 “Quarantine and Pre-shipment”, the Meeting of Parties instructed the Technical and Economic Assessment Panel (TEAP) to estimate the volume of methyl bromide that would be replaced by the implementation of technically and economically feasible alternatives for QPS, reported by commodity and/or application. The results of the survey will be considered by the Methyl Bromide Technical Options Committee (MBTOC), and will form the basis of the TEAP report to the November 2004 Meeting of Parties. Further information regarding the survey is contained in the letter from Mr Marco González, Executive Secretary of the Ozone Secretariat, which can also be found on the UNEP website (<http://www.unep.org/ozone/index.asp>).

Content of the Survey

In Section 1, the survey requests Contact Details in case the Survey Organiser needs to clarify any aspect of the survey with the submitting Party.

In Section 2, the survey seeks information on QPS use of methyl bromide from **1 January to 31 December 2002**. The survey lists a number of commodity groups and asks for information on the pests that are being treated; the quantities of methyl bromide used; the reason for fumigation; the export destination; and, in the last column, the legislative or official policy basis for the treatment (e.g., domestic plant, animal or human health legislation, or official requirements of an importing country). The last column should contain a number that relates to the relevant document that you list in **Annex 1**.

In Section 3, the survey seeks information on the availability of alternatives to methyl bromide for QPS uses. For the commodity groups and pests that were completed in Section 2 you are requested to identify whether alternative non-methyl bromide treatments are available in your country; the name of the alternatives; the reasons for unavailability; or, if a treatment is available but not being used, the main reason for this. **Annex 2** contains examples of alternatives to assist you in completing Section 3.

Completing the survey

The format that you have opened (this file) is portable document format (pdf) version. You will need to print the form and complete it by writing details in the boxes. If you need more space than is provided, please attach additional pages. The survey form can be completed electronically in Microsoft Word, by downloading the appropriate format from the UNEP website.

Submitting the completed survey form

In order for the survey report to be completed before the November 2004 Meeting of Parties, we ask that you complete the survey and submit it to the Survey Coordinator at the address below no later than 30 June 2004. If possible, please fax your response and send the original by mail.

Dr Stephen Ogden
QPS Survey Coordinator
Market Access Solutionz Ltd
P O Box 10629
Wellington
New Zealand
Telephone: +64 4 473 6040
Fax: +64 4 473 6041
Email stephen@solutionz.co.nz

If you have any questions regarding completion of the survey, please contact Dr Ogden directly. If you are not using MB for QPS, please write 'nil' at the top of the third column in Section 2, complete Section 3, and return the completed Survey Form to Dr Stephen Ogden.

Section 1. Contact details of the responding Party.

(Please complete your full contact details)

Country:	
Contact name:	
Job title and Agency name:	
Address:	
Telephone:	Fax:
Email:	

Section 2. Quantities of Methyl Bromide used for Quarantine and Pre-shipment purposes in your country during 2002.

Commodity group	Pest treated (please use species names if possible)	Quantity of MB used (kg)	Reason for treatment	Export destination (if applicable)	Legislative basis for QPS treatment (Please indicate the domestic or importing country legislation or official policy document requiring MB fumigation). The numbers refer to your list of documents provided in Annex 1.
<i>Example: Seeds (intended for planting)</i>	<i>Ditylenchus dipsaci</i>	575	<i>Fumigation of alfalfa (Medicago sativa) to meet phytosanitary requirement of importing country</i>	<i>European Union</i>	<i>1 (Section V-2, page 41)</i>
<i>Example: Fresh fruit and vegetables</i>	<i>Cydia pomonella</i>	500	<i>Fumigation of apples to meet importing country phytosanitary requirement</i>	<i>Japan</i>	<i>3 (Page 341)</i>
	<i>Atherigona sp.</i>	50	<i>Fumigation of fruit to treat quarantine pests detected during import inspection</i>	<i>Import</i>	<i>4 (Section 8, Page 35)</i>
<i>Example: Wooden packaging materials, other packaging materials including cardboard pallets and dunnage</i>	<i>Asian longhorned beetle</i> <i>Bark beetles, Boring beetles, Gypsy moth (Lymantria dispar, Asian biotype) Leopard moth (Zeuzera pyrina), Mulberry white-spotted longicorn, Nun moth, Rosy gypsy moth, Wood boring wasps</i>	22,750	<i>Fumigation of wood packaging materials to meet importing country requirements</i>	<i>Canada</i>	<i>2 (Page 36)</i>
<i>Bulb, corms, tubers and rhizomes (intended for planting)</i>					

Section 2. Quantities of Methyl Bromide used for Quarantine and Pre-shipment purposes in your country during 2002.

Commodity group	Pest treated (please use species names if possible)	Quantity of MB used (kg)	Reason for treatment	Export destination (if applicable)	Legislative basis for QPS treatment (Please indicate the domestic or importing country legislation or official policy document requiring MB fumigation). The numbers refer to your list of documents provided in Annex 1.
Bulb, corms, tubers and rhizomes (intended for planting) <i>continued</i>					
Cut flowers and branches (including foliage)					
Fresh fruit and vegetables					

Section 2. Quantities of Methyl Bromide used for Quarantine and Pre-shipment purposes in your country during 2002.

Commodity group	Pest treated (please use species names if possible)	Quantity of MB used (kg)	Reason for treatment	Export destination (if applicable)	Legislative basis for QPS treatment (Please indicate the domestic or importing country legislation or official policy document requiring MB fumigation). The numbers refer to your list of documents provided in Annex 1.
Fresh fruit and vegetables (continued)					
Grain and cereals for consumption including rice (not intended for planting)					

Section 2. Quantities of Methyl Bromide used for Quarantine and Pre-shipment purposes in your country during 2002.

Commodity group	Pest treated (please use species names if possible)	Quantity of MB used (kg)	Reason for treatment	Export destination (if applicable)	Legislative basis for QPS treatment (Please indicate the domestic or importing country legislation or official policy document requiring MB fumigation). The numbers refer to your list of documents provided in Annex 1.
Dried foodstuffs (including herbs, nuts, dried fruit, coffee, cocoa)					
	Nursery stock (plants intended for planting other than seed)				

Section 2. Quantities of Methyl Bromide used for Quarantine and Pre-shipment purposes in your country during 2002.

Commodity group	Pest treated (please use species names if possible)	Quantity of MB used (kg)	Reason for treatment	Export destination (if applicable)	Legislative basis for QPS treatment (Please indicate the domestic or importing country legislation or official policy document requiring MB fumigation). The numbers refer to your list of documents provided in Annex 1.
Nursery stock (plants intended for planting other than seed) <i>continued</i>					
Seeds (intended for planting)					

Section 2. Quantities of Methyl Bromide used for Quarantine and Pre-shipment purposes in your country during 2002.

Commodity group	Pest treated (please use species names if possible)	Quantity of MB used (kg)	Reason for treatment	Export destination (if applicable)	Legislative basis for QPS treatment (Please indicate the domestic or importing country legislation or official policy document requiring MB fumigation). The numbers refer to your list of documents provided in Annex 1.
Wooden packaging materials, other packaging materials including cardboard, pallets and dunnage					
	Wood (including round sawn, sawn wood, wood chips)				

Section 2. Quantities of Methyl Bromide used for Quarantine and Pre-shipment purposes in your country during 2002.

Commodity group	Pest treated (please use species names if possible)	Quantity of MB used (kg)	Reason for treatment	Export destination (if applicable)	Legislative basis for QPS treatment (Please indicate the domestic or importing country legislation or official policy document requiring MB fumigation). The numbers refer to your list of documents provided in Annex 1.
Wood (including round sawn, sawn wood, wood chips) <i>continued</i>					
Whole logs (with or without bark)					

Section 2. Quantities of Methyl Bromide used for Quarantine and Pre-shipment purposes in your country during 2002.

Commodity group	Pest treated (please use species names if possible)	Quantity of MB used (kg)	Reason for treatment	Export destination (if applicable)	Legislative basis for QPS treatment (Please indicate the domestic or importing country legislation or official policy document requiring MB fumigation). The numbers refer to your list of documents provided in Annex 1.
Hay, straw, dried animal fodder (other than grains and cereals listed above)					
	Cotton and other fibre crops and products				

Section 2. Quantities of Methyl Bromide used for Quarantine and Pre-shipment purposes in your country during 2002.

Commodity group	Pest treated (please use species names if possible)	Quantity of MB used (kg)	Reason for treatment	Export destination (if applicable)	Legislative basis for QPS treatment (Please indicate the domestic or importing country legislation or official policy document requiring MB fumigation). The numbers refer to your list of documents provided in Annex 1.
Cotton and other fibre crops and products <i>continued</i>					
Buildings (including dwellings, factories, storage facilities)					
Equipment (including used agricultural machinery & vehicles); and empty shipping containers					

Section 2. Quantities of Methyl Bromide used for Quarantine and Pre-shipment purposes in your country during 2002.

Commodity group	Pest treated (please use species names if possible)	Quantity of MB used (kg)	Reason for treatment	Export destination (if applicable)	Legislative basis for QPS treatment (Please indicate the domestic or importing country legislation or official policy document requiring MB fumigation). The numbers refer to your list of documents provided in Annex I.
Equipment (including used agricultural machinery & vehicles); and empty shipping containers <i>continued</i>					
Personal effects, furniture, crafts, artefacts, hides, furs and skins.					

Section 2. Quantities of Methyl Bromide used for Quarantine and Pre-shipment purposes in your country during 2002.

Commodity group	Pest treated (please use species names if possible)	Quantity of MB used (kg)	Reason for treatment	Export destination (if applicable)	Legislative basis for QPS treatment (Please indicate the domestic or importing country legislation or official policy document requiring MB fumigation). The numbers refer to your list of documents provided in Annex 1.
Other (please specify below)					

Section 2. Quantities of Methyl Bromide used for Quarantine and Pre-shipment purposes in your country during 2002.

Commodity group	Pest treated (please use species names if possible)	Quantity of MB used (kg)	Reason for treatment	Export destination (if applicable)	Legislative basis for QPS treatment (Please indicate the domestic or importing country legislation or official policy document requiring MB fumigation). The numbers refer to your list of documents provided in Annex 1.
Other (please specify below)					

Section 3. Availability of alternatives to Methyl Bromide for Quarantine and Pre-shipment purposes.

Commodity	Pest treated (please copy from Section 2).	Is an alternative treatment available in your country? Please specify one of the following: Unknown; Not available; Being researched; Being assessed; Commercially available	Names of alternative treatments (if alternative available – see Annex 2)	If an alternative is available, but not used, what is the main reason for this?	If an alternative is not available, what is the main reason for this?
Example: Seeds (intended for planting)	<i>Ditylenchus dipsaci</i>	Available	Growing season inspection and testing	Grower not aware of availability of growing season inspection before harvest.	N/A
Example: Fresh fruit and vegetables	<i>Cydia pomonella</i> <i>Atherigona</i> sp.	Not available Being researched	Alternative phytosanitary measures are being evaluated Heat treatment		Cost of development of new treatment is prohibitive.
Example: Wooden packaging materials, other packaging materials including cardboard, pallets and dunnage	Asian longhorned beetle Bark beetles, Boring beetles, Gypsy moth (Lymantria dispar, Asian biotype), Leopard moth (Zeuzera pyrina), Mulberry white-spotted longicorn , Nun moth Rosy gypsy moth , Wood boring wasps	Available commercially		Heat treatment facilities not available in our country, cost of heat treatment would be too high	
Bulb, corms, tubers and rhizomes (intended for planting)					

Section 3. Availability of alternatives to Methyl Bromide for Quarantine and Pre-shipment purposes.

Commodity	Pest treated (please copy from Section 2).	Is an alternative treatment available in your country? Please specify one of the following: Unknown; Not available; Being researched; Being assessed; Commercially available	Names of alternatives (if available – see examples in Annex 2)	If an alternative is available, but not used, what is the main reason for this?	If an alternative is not available, what is the main reason for this?
Bulb, corms, tubers and rhizomes (intended for planting) <i>continued</i>					
Cut flowers and branches (including foliage)					

Section 3. Availability of alternatives to Methyl Bromide for Quarantine and Pre-shipment purposes.

Commodity	Pest treated (please copy from Section 2).	Is an alternative treatment available in your country? Please specify one of the following: Unknown; Not available; Being researched; Being assessed; Commercially available	Names of alternatives (if available – see examples in Annex 2)	If an alternative is available, but not used, what is the main reason for this?	If an alternative is not available, what is the main reason for this?
Cut flowers and branches (including foliage) <i>continued</i>					
Fresh fruit and vegetables					

Section 3. Availability of alternatives to Methyl Bromide for Quarantine and Pre-shipment purposes.

Commodity	Pest treated (please copy from Section 2).	Is an alternative treatment available in your country? Please specify one of the following: Unknown; Not available; Being researched; Being assessed; Commercially available	Names of alternatives (if available – see examples in Annex 2)	If an alternative is available, but not used, what is the main reason for this?	If an alternative is not available, what is the main reason for this?
Grain and cereals for consumption including rice (not intended for planting)					
Dried foodstuffs (including herbs, nuts, dried fruit, coffee, cocoa)					

Section 3. Availability of alternatives to Methyl Bromide for Quarantine and Pre-shipment purposes.

Commodity	Pest treated (please copy from Section 2).	Is an alternative treatment available in your country? Please specify one of the following: Unknown; Not available; Being researched; Being assessed; Commercially available	Names of alternative treatments (if available – see examples in Annex 2)	If an alternative is available, but not used, what is the main reason for this?	If an alternative is not available, what is the main reason for this?
Dried foodstuffs (including herbs, nuts, dried fruit, coffee, cocoa) <i>continued</i>					
Nursery stock (plants intended for planting other than seed)					

Section 3. Availability of alternatives to Methyl Bromide for Quarantine and Pre-shipment purposes.

Commodity	Pest treated (please copy from Section 2).	Is an alternative treatment available in your country? Please specify one of the following: Unknown; Not available; Being researched; Being assessed; Commercially available	Names of alternatives (if alternative available – see examples in Annex 2)	If an alternative is available, but not used, what is the main reason for this?	If an alternative is not available, what is the main reason for this?
Seeds (intended for planting)					
Wooden packaging materials, other packaging materials including cardboard, pallets and dunnage					

Section 3. Availability of alternatives to Methyl Bromide for Quarantine and Pre-shipment purposes.

Commodity	Pest treated (please copy from Section 2).	Is an alternative treatment available in your country? Please specify one of the following: Unknown; Not available; Being researched; Being assessed; Commercially available	Names of alternatives (if alternative available – see Annex 2)	If an alternative is available, but not used, what is the main reason for this?	If an alternative is not available, what is the main reason for this?
Wooden packaging materials, other packaging materials including cardboard, pallets and dunnage <i>continued</i>					
Wood (including round sawn, sawn wood, wood chips)					

Section 3. Availability of alternatives to Methyl Bromide for Quarantine and Pre-shipment purposes.

Commodity	Pest treated (please copy from Section 2).	Is an alternative treatment available in your country? Please specify one of the following: Unknown ; Not available ; Being researched ; Being assessed ; Commercially available	Names of alternative treatments (if alternative available – see examples in Annex 2)	If an alternative is available, but not used, what is the main reason for this?	If an alternative is not available, what is the main reason for this?
Whole logs (with or without bark)					

Section 3. Availability of alternatives to Methyl Bromide for Quarantine and Pre-shipment purposes.

Commodity	Pest treated (please copy from Section 2).	Is an alternative treatment available in your country? Please specify one of the following: Unknown; Not available; Being researched; Being assessed; Commercially available	Names of alternatives (if alternative available – see Annex 2)	If an alternative is available, but not used, what is the main reason for this?	If an alternative is not available, what is the main reason for this?
Hay, straw, dried animal fodder (other than grains and cereals listed above)					
Cotton and other harvested fibre crops					

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Cotton and other harvested fibre crops (<i>continued</i>)					
Buildings (including dwellings, factories, storage facilities)					

Section 3. Availability of alternatives to Methyl Bromide for Quarantine and Pre-shipment purposes.

Commodity	Pest treated (please copy from Section 2).	Is an alternative treatment available in your country? Please specify one of the following: Unknown ; Not available ; Being researched ; Being assessed ; Commercially available	Names of alternative treatments (if available – see examples in Annex 2)	If an alternative is available, but not used, what is the main reason for this?	If an alternative is not available, what is the main reason for this?
Equipment (including used agricultural machinery & vehicles); and empty shipping containers					
	Personal effects, furniture, crafts, artefacts, hides, fur and skins				

Section 3. Availability of alternatives to Methyl Bromide for Quarantine and Pre-shipment purposes.

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Personal effects, furniture, crafts, artefacts, hides, fur and skins (continued)					
Other (please specify below)					

Section 3. Availability of alternatives to Methyl Bromide for Quarantine and Pre-shipment purposes.

Commodity	Pest treated (please copy from Section 2).	Is an alternative treatment available in your country? Please specify one of the following: Unknown; Not available; Being researched; Being assessed; Commercially available	Names of alternatives (if available – see examples in Annex 2)	If an alternative is available, but not used, what is the main reason for this?	If an alternative is not available, what is the main reason for this?
Other (please specify below)					

ANNEX 2: Examples of quarantine and pre-shipment treatments

Source: MBTOC 2002 (www.teap.org)

A. Examples of approved quarantine treatments for fresh fruit, vegetables and cut-flowers

Cold treatments
Heat treatments
Certified pest-free zones or pest-free periods
Systems Approach
Pre-shipment inspection and certification
Inspection on arrival
Physical removal of pests
Controlled atmospheres
Pesticides, fumigants and aerosols
Irradiation
Combination treatments

B. Examples of approved quarantine and pre-shipment treatments for durable commodities

Bifluorides
Carboxide
Cold
Combination Treatment
Controlled atmospheres
Debarking
Ethyl formate
Heat
Hydrogen cyanide
Irradiation
MITC
Phosphine
Sulfuryl fluoride