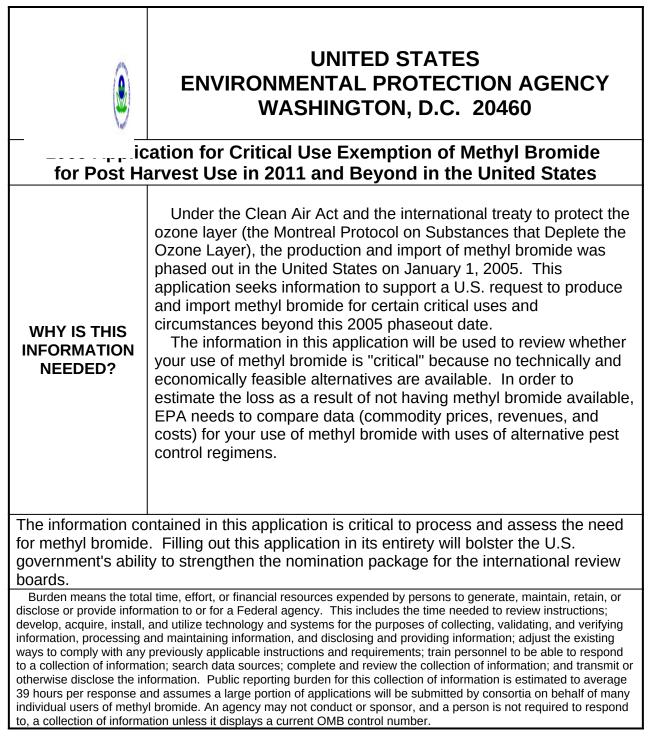
For EPA Use Only ID # _____ SECTOR _____



INSTRUCTIONS						
U.S. and other countries	The information provided by you in this application will be used to evaluate the requested methyl bromide use. The U.S. and other countries that are parties to the Montreal Protocol On Substances That Deplete The Ozone Layer decided that: "a use of methyl bromide should qualify as "critical" only if the nominating Party determines that:					
significant market disrupt	cal because the lack of availability of methyl bromide for that use would result in a ion; and Ily and economically feasible alternatives available to the user that are acceptable from					
the standpoint of environi	nent and health and are suitable to the crops and circumstances of the nomination"					
WHO	If you anticipate that you will need methyl bromide in 2011 and beyond because you believe there are no technically and economically feasible alternatives, then you should apply for the critical use exemption. This application may be submitted either by a consortium representing multiple users or by individual users. We encourage users with similar circumstances of use to submit a single application (for example, any number of post harvest users with similar commodity, pest, and structural conditions can submit a single application.)					
APPLIES?	If a consortium is applying for multiple methyl bromide users, the economic data should be for a representative or typical user within the consortium unless otherwise noted. If economic or technical factors (such as types of commodities) affecting the ability of this "representative user" to use alternatives are significantly different than other users in the consortium, more than one application should be submitted to reflect these differences.					
	Please contact your local, state, regional, or national commodity association and/or state representative agency to find out if they plan on submitting an application on behalf of your commodity group.					
WHAT INFORMATION IS REQUIRED?	If a user group submitted a complete application to EPA in 2008, the user is only required to complete selected Worksheets, though the entire application must be submitted to EPA. These required Worksheets include 1, 2B, 2C, 2D, 4, and 5. If these Worksheets are not submitted, EPA will not include the application in the U.S. nomination submitted for international consideration. Additional information on Re-Application Information is available at www.epa.gov/ozone/mbr. The remaining worksheets must only be completed if any information has changed since 2008. If a user has previously submitted a critical use exemption application to EPA but did not submit an application in 2008 (seventh round) then all the worksheets in the application must be submitted again in their entirety.					
HOW DO I APPLY?	You may either complete an electronic (Microsoft Word or Excel) or a printed version of the application. Please fill out each section in the application as completely as possible. If you are completing the printed version and need extra space you may attach additional sheets as needed. Additional information may be available from your local state department of agriculture or at the sites listed below or by calling 1-800-296-1996.					
IS MY INFORMATION CONFIDENTIAL?	The applicant may assert a business confidentiality claim covering part or all of the information in the application by placing on (or attaching to) the information, at the time it is submitted to EPA, a cover sheet, stamped or typed legend, or other suitable form of notice employing language such as trade secret, proprietary, or company confidential. Allegedly confidential portions of otherwise non-confidential documents should be clearly identified by the applicant, and may be submitted separately to facilitate identification and handling by EPA. If the applicant desires confidential treatment only until a certain date or until the occurrence of a certain event, the notice should so state. Information covered by a claim of confidentiality will be disclosed by EPA only to the extent, and by means of the procedures set forth under 40 CFR Part 2 Subpart B; 41 FR 36902, 43 FR 400000. 50 FR 51661. If no claim of confidentiality accompanies the information when it is received by EPA, it may be made available to the public by EPA without further notice to the applicant.					
WHEN IS THE INFORMATION NEEDED?	This application must be postmarked to the EPA address below no later than [Insert Date].					

	Electronic Address for applications:				
WHERE DO I SUBMIT THE	(When submitting an application electroni it, and submit it by mail) Mailing Address for applications being submitted by <u>mail</u> directly to the EPA:	cally, you should also print a hard copy, sign Address for applications being sent by <u>courier</u> or <u>non-U.S. Postal overnight</u> <u>express</u> delivery to the EPA:			
APPLICATION?	US Environmental Protection Agency Methyl Bromide Critical Use Exemption Office of Air and Radiation Stratospheric Protection Division (6205 J) 1200 Pennsylvania Ave, NW Washington, DC 20460	US Environmental Protection Agency Methyl Bromide Critical Use Exemption Office of Air and Radiation Stratospheric Protection Division 1310 L Street, NW Suite 1047E Washington, DC 20005			
HOW CAN I RECEIVE ADDITIONAL INFORMATION?	If you have general questions about this application call: Stratospheric Ozone Hotline 1-800-296-1996				

WORKSHEET 1: CONTACT AND METHYL BROMIDE REQUEST **INFORMATION FOR 2011 AND BEYOND**

The following information will be used to determine the amount of methyl bromide requested and the contact person for this request. It is important that we know whom to contact in case we need additional information during the review of the application.

Is this	s information	Confidential	Business	s Information:	Yes _	No	
If yes,	the applicant	assumes res	ponsibility	for the secure	transmission	of electronic subm	issions.

Applicant Name:

Primary Contact:	
Contact Name:	
Address:	
Daytime Phone:	
Cell:	
Fax:	
Email Address	
Specialty: (check one) Agronomic Economic	
Alternate Contact:	
Contact Name:	
Address:	
Daytime Phone:	
Cell:	
Fax:	
Email Address:	
Specialty: (check one) Agronomic Economic	-
I certify that all information contained in this document is factual to the b	est of my knowledge.
Signature:	Date:
Print Name:	Title:
Information in this application may be aggregated with information from the United States government to justify claims in the national nomination methyl bromide be considered "critical" and authorized for an exemption signing below , you agree now to assert any claim of confidentiality that EPA of aggregate information based in part on information contained in	n package that a particular use of beyond the 2005 phaseout. By would affect the disclosure by
Signature:	Date:

Burden means the total time, effort, or financial resources expended by persons to generate, maintain, retain, or disclose or provide information to or for a Federal agency. This includes the time needed to review instructions; develop, acquire, install, and utilize technology and systems for the purposes of collecting, validating, and verifying information, processing and maintaining information, and disclosing and providing information; adjust the existing ways to comply with any previously applicable instructions and requirements; train personnel to be able to respond to a collection of information; search data sources; complete and review the collection of information; and transmit or otherwise disclose the information. Public reporting burden for this collection of information is estimated to average 39 hours per response and assumes a large portion of applications will be submitted by consortia on behalf of many individual users of methyl bromide. An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a current OMB control number.

Print Name:

Title:

of

WORKSHEET 1: CONTACT AND METHYL BROMIDE REQUEST INFORMATION FOR 2011 AND BEYOND (continued)

1. Location of Facility(ies): Enter the name and physical address of the facility(ies) where the proposed critical use of methyl bromide will take place. Provide more details about the location if relevant to the feasibility of alternatives to methyl bromide.

2. Commodity: Include all commodities that benefit from the application of methyl bromide in a fumigation cycle.

3. Range of structure/facility size by processors included in this application: Insert number or percentage of users in each category.

0 to 1,000 (1,000 cu ft)	10,000 to 50,000 (1,000 cu ft)
1,000 to 5,000 (1,000 cu ft)	50,000 to 100,000 (1,000 cu ft)
5,000 to 10,000 (1,000 cu ft)	over 100,000 (1,000 cu ft)

4. Climate Average Minimum Temperature: Individual users should enter their climate zone designation by reviewing the U.S. climate zone map located at the end of this workbook or it can be reviewed online at http://www.usna.usda.gov/Hardzone/ushzmap.html. If a consortium is submitting this application, please indicate the estimated percentage of consortium users in each climate zone. Please check all that apply.

1____ 2a___ 2b___ 3a___ 3b___ 4a___ 4b___ 5a___ 5b___ 6a___ 6b___ 7a___ 7b____ 8a___ 8b___ 9a___ 9b____ 10a___ 10b___ 11____

5. Is this applicant eligible for Quarantine and Preshipment (QPS) uses of methyl bromide: Yes ____ No ___ If yes, indicate amount: ____ lbs

6. Has this applicant previously applied for Critical Use Exemption of methyl bromide: Yes ____ No ____ If yes, indicate CUE #: _____

7. What is the amount of methyl bromide being requested by this application: (Do NOT include **QPS amounts)** If a consortium is submitting this application, the data should be the total for the consortium.

		2011	2012	2013
Α.	Total Pounds Active Ingredient (a.i.) of Methyl Bromide			
в.	Total Actual Volume (1000 cu. ft.) Treated			
C.	Formulation (Ratio of MB/Pic Mixture) to be Used for the CUE			
D.	Use Rate (Ibs a.i./1000 cu. ft.)			

8. Please explain why there may be variations in the pounds or volume (1,000 cu ft) treated from year to year, especially if the request is higher this year than in previous years:

9. Please explain why methyl bromide is being requested:

10. Do you have access to recycled methyl bromide:

Yes ____ No ____ If yes, please specify amount: _____ lbs

 11. Do you anticipate that you will have any methyl bromide in storage after January 1, 2011:

 Yes _____ No ____ If yes, please specify amount: _____ Ibs

2. Have you adjusted the request for the following issues:						
Regulatory Issues:	Yes	No	Pest Pressure:	Yes	No	
·····, ·····						
Adoption of Alternative	o. Voo	No	Other (Please Explain)	. Vac	No	
Adoption of Alternative	5. 165	INO	Other (Please Explain)	. 165_	_No	

WORKSHEET 2: METHYL BROMIDE

Purpose of Data: To establish a baseline estimate of commodity treated, gross profits, and costs using methyl bromide.

Instructions specific to each worksheet are located at the top of each sheet.

Worksheet	Title
2-A	Methyl Bromide - Pest and Commodity Information
	If a consortium is submitting this application, the data for this table should reflect the representative user for the consortium.
	The purpose of this worksheet is to determine pest infestation and commodity information where methyl bromide is used. This forms the baseline for evaluating the impacts of using an alternative to replace methyl bromide.
2-В	Methyl Bromide - Historical Use 2004 - 2008
	If a consortium is submitting this application, all data should reflect the actual data for the consortium.
	This worksheet provides data in actual usage for 2004 - 2008.
2-C	Methyl Bromide - Commodity Treated and Gross Profits for 2004 - 2008
	If a consortium is submitting this application, the data for this table should reflect the representative user for the consortium.
	This worksheet provides commodity treated and gross profits for 2004 through 2008.
	The purpose of this worksheet is to determine past gross profits when methyl bromide is used. This forms the baseline for evaluating the revenue impacts of using an alternative to replace methyl bromide.
2-D	Baseline - Operating Costs for 2008
	If a consortium is submitting this application, the data for this table should reflect the representative user for the consortium.
	This data is needed to estimate a baseline for operating costs in order to estimate changes in costs and the impact on operating profit and short-run economic viability as a result of not using methyl bromide. The purpose of this worksheet is to determine operating expenses when methyl
	bromide is used. This forms the baseline for evaluating the cost impacts of using an alternative to replace methyl bromide. The data requested are designed to help you identify how your operation would change if methyl bromide were unavailable, which will be shown in Worksheet 3-B.

WORKSHEET 2-A: METHYL BROMIDE – PEST & PROCESSING INFORMATION

1. Commodity or Consortium:

2. What month does your fumigation cycle start: Please check only one.

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec

3. Fumigation Timeline: Indicate when fumigation, major commodity and pest management practices typically occur. If the fumigation cycle is longer than one year, change the months to an appropriate interval.

Beginning Fumigation Cycle	Time Interval							
(please define time periods)								
Facility Preparation								
Sealing								
Cleaning								
Fumigation Timeline								
Reception of Raw Materials								
Processing								
Storage								
Raw Materials								
Finished Product								
Packing								
Shipping								
Retail Market Window								
Other Pest Treatments								
Other								

4. Please provide a simplified schematic diagram which illustrates the basic steps of the commodity moving through the process from raw material to finished product:

4a. Provide a narrative of market channel for each commodity, where it is fumigated, and how the fumigation effects market availability and commodity sale:

5. Target Pest(s) or Pest Problem(s): Please identify the key target pests or pest problems for which methyl bromide is requested. Provide at least common name and genus and species if possible. Additional pests or pest problems can be provided as an attachment. Please also explain the specific reasons why methyl bromide is being requested for each pest [e.g., effective herbicide is available, but not registered for this crop; mandatory requirement to meet certification for disease tolerance].

	Common Name	Genus	Specific Reasons why Methyl Bromide is Needed
Pest 1			
Pest 2			
Pest 3			
Pest 4			
Pest 5			

6. **Pest Economic Threshold:** Please provide the economic threshold information for each pest. Describe year and source of information such as survey or expert estimate.

	Threshold	Units (e.g. pests/sq ft)	Year	Source
Pest 1				
Pest 2				
Pest 3				
Pest 4				
Pest 5				

7. Target Pest Infestation: Please estimate the percentage of this user's total structural/facility volume with a moderate to severe problem with these pests. Describe source of information such as a survey or expert estimate.

	Percentage of Total Structure/Facility	Source
Pest 1	%	
Pest 2	%	
Pest 3	%	

8. Representative User: Please provide descriptive factors appropriate for your operation.

- a. Number of Facilities:
- b. Gastightness Estimate (if available):* _____

* Give gastightness estimates where possible according to the following scale: **good** - less than 25% gas loss within 24 hours or half loss time of pressure difference greater than 1 minute; **medium** - 25-50% gas loss within 24 hours or half loss time of pressure difference greater than 10 seconds; **poor** - 50-90% gas loss within 24 hours or half loss time of pressure difference 1-10 second; **very poor** - more than 90% gas loss within 24 hours or a pressure half loss time of less than 1 second.

9. In what part and phase of the operation does the methyl bromide fumigation take place: Please check all that apply and indicate exposure time.

Structure / Facility:	_
Fumigation Chamber:	
Commodity:	
Prior to Storage:	
Storage:	
Prior to Shipping:	
All:	

Other: _____

10. For what percentage of the operation have alternative(s) replaced methyl bromide in processing this commodity and if so, during what phase of the process:

Alternative	% Replaced	Phase of Process	Details
Phosphine (Alone)			
Heat Treatment			
Phosphine in Combination			
Other			

11. Please provide a brief description of any equipment fumigated in this operation:

WORKSHEET 2-B: METHYL BROMIDE – HISTORICAL USE 2004 - 2008

Row A:	Total Actual Pounds a.i. of Methyl Bromide Applied
	Enter the total actual pounds active ingredient (a.i.) of methyl bromide applied. Note: This number should be the total pounds a.i. applied by the individual user or the entire consortium, for the year indicated. Include only the pounds active ingredient of methyl bromide.
Row B:	Total Actual Volume (1,000 cu ft) Treated
	Enter the total actual volume (1,000 cu ft) treated. Note: This number should be the total actual volume (1,000 cu ft) treated by the individual user or total actual volume (1,000 cu ft) treated for the entire consortium, for the year indicated.
Row C:	Formulation (Ratio of MB/Pic Mixture) to be Used for the CUE
	Enter the formulation of methyl bromide used (e.g. MB 98:2; MB/Pic 70:30).
Row D:	Use Rate (lbs a.i./1000 cu. ft.)
	Enter the use rate in pounds a.i. of methyl bromide per area.

	For the years shown specify:	2004	2005	2006	2007	2008
Α.	Total Actual Pounds a.i. of Methyl Bromide Applied					
В.	Total Actual Volume (1,000 cu ft) Treated					
C.	Formulation (Ratio of MB/Pic Mixture) to be Used for the CUE					
D.	Use Rate (lbs a.i./1000 cu. ft.)					

What is the frequency of methyl bromide applied per volume (1,000 cu ft): (1x / year, 2x / year, 1x / 3 years, etc.)

_____ times per _____

If there is a variation (greater than 10%) in the quantity a.i., the acres treated or average application rate from year to year, please explain the reasons for the variation:

WORKSHEET 2-C: BASELINE – METHYL BROMIDE – COMMODITY TREATED & GROSS PROFIT FOR 2004 - 2008

Colu	mn A:	Year							
		Be sure to enter the year. Use as many rows as needed for each year for all the commodities in the fumigation cycles from 2004 to 2008. If a fumigation cycle overlaps more than one calendar year, then the year of the fumigation cycle is the year methyl bromide was applied.							
Colu	mn B:	Com	nodity						
							tion cycle (interva of the fumigatio		
		cycle	and you do no	t have the quan		he commodity tre	nethyl bromide ir eated in the same		
Colu	mn C:	Marke	et Categories						
		or time	eliness (holida	y market seaso	n, early season,	late season). Ite	ble, grade (qualit mize or aggrega ice in each categ	te these factors	
Colu	mn D:		of Commodity						
		comm	ents section th		ht of the measur		f not by weight, s national review b		
Colu	mn E:		Commodity 1						
			the total units	of commodity tr	eated with methy	/I bromide and p	rocessed/sold pe	r area	
Colu	mn F:	do not	t have to enter ed. If a commo	a price. Avera	ge price over all	categories can b	ategory. For the e calculated sep te the fees charg	arately, if	
Colu	mn G:		of Goods Sol	<u>d</u>					
					aw materials pure eration, please sk		ne period. If this	expense is not	
Colu	mn H:								
Α	В		С	D	E	F	G	н	
Yea r	ea Commodit Category Commodit Price Goods (grade, v (e.g., lbs.) (per unit of Sold (Gross Profit (per unit of commodity)		
	nents					•	•	•	

WORKSHEET 2-D: METHYL BROMIDE – OPERATING COSTS FOR 2008

The purpose of this section is to determine operating expenses when methyl bromide is used. This forms the baseline for evaluating the cost impacts of using an alternative to replace methyl bromide. The data requested are designed to help you identify how your operation would change if methyl bromide were unavailable, which will be shown in Worksheet 3-B. Please fill in the unshaded areas. The shaded areas can be used if the information is known.

Column A:	Operating Expense Items							
	Identify the operations to which the costs apply. You may add or delete lines as necessary. The operating expense items listed here are not meant to be exhaustive or be representative of your specific operating system. Other operating expenses include, but are not limited to, wage/salary, advertising and selling, utilities, rent and lease, insurance, and supplies. Be as precise as necessary to explain how lack of methyl bromide would affect your operation, otherwise you may aggregate operating expenses. These are meant to provide suggestions and to help you identify how your operation would change if methyl bromide were unavailable.							
Column B:	Quantity Used per Volume	<u>e (1,000 cu ft) or Weigh</u>	<u>t (tons (sho</u>	<u>rt))</u>				
	This field is required only for inputs or operations if you b using an alternative fumigar	elieve it helps to docum						
Column C:	Units (Ibs. hours, etc.)							
	For all inputs and operations	s detailed in Column B, I	please specif	fy the units	s of measurement.			
Column D:	Unit Cost (\$) For all inputs and operations costs of applying methyl bro separate costs are unavaila	mide, including any mat	erial costs (e	.g. tarps).	If custom applied and			
Column E:	Cost (\$) per Volume (1,000) cu ft) or Cost (\$) per V	Weight (tons	<u>s (short))</u>				
	Enter all appropriate costs of operations per volume (1,000 cu ft) or weight (tons (short)). You may add or delete lines as necessary.							
	If operation is defined in eith units.	ner cost per volume or co	ost per weigh	nt, please	keep the continuity of			
	Α	В	С	D	E			
Operat	ing Expense Items	Quantity Used per Volume (1,000 cu. ft.) or Weight (tons (short))	Units (Ibs., hours, etc.)	Unit Cost (\$)	Cost (\$) per Volume (1,000 cu. ft.) or Cost (\$) per Weight (tons (short))			
1. Pest Mana	agement Costs (a+b+c+d)							
a) Sanitati	on							
b) Pest Co								
c) Methyl (c1+c2)	Bromide Fumigation							
c1) Proc	luct							
c2) App	lication							
	est Management Costs							
2. Repairs / Replacement	Maintenance /							
3. Interest								
4. Depreciat	ion for Plant Assets							
-	ion for Plant Assets erating Expenses							

WORKSHEET 3: ALTERNATIVES – FEASIBILITY OF ALTERNATIVE PEST CONTROL REGIMENS

Purpose of Data: To estimate the loss as a result of not having methyl bromide available. EPA needs to compare data (commodity prices, gross profit, operating expenses, etc.) on the use of methyl bromide and alternative pest control regimens.

Complete Worksheet 3-A for each alternative pest control regimen. Please indicate the name of the specific alternative pest control regimen addressed and add additional pages as required.

Enter all alternative pesticides and pest control methods (and associated cost and yield data) that would replace one treatment of methyl bromide throughout the fumigation cycle. See the Definitions page for a comprehensive definition on fumigation cycles.

Worksheet	Title
3-A	Alternatives - Technical Feasibility of Alternatives to Methyl Bromide
	You must complete one worksheet for each alternative. Please insert the name of the alternative in the area on top of the page. If you prefer, you may provide the information requested in this worksheet in a narrative review. However, you must fill in the information in Question #1 or we will assume no production or quality loss.
3-B	Alternatives - Changes in Operating Costs
	If a consortium is submitting this application, the data for this table should reflect the representative user for the consortium.
	This data is needed to estimate a baseline for operating costs in order to estimate changes in costs and the impact on operating profit and short-run economic viability as a result of not using methyl bromide and to provide required information to the international review board.
	Please fill out this worksheet for each alternative for which the economic evaluation would bolster the case that methyl bromide is needed.
	The purpose of this worksheet is to determine operating expenses when alternatives are used for evaluating the cost impacts of using an alternative to replace methyl bromide. The data requested are designed to help you identify how your operation would change if methyl bromide were unavailable.
3-C	Alternatives - Economic Feasibility of Alternatives to Methyl Bromide
	If a consortium is submitting this application, the data for this table should reflect the representative user for the consortium.
	Please include in this worksheet data for each alternative included in worksheets 3-A and 3-B.

WORKSHEET 3-A: ALTERNATIVES – FEASIBILITY OF ALTERNATIVE PEST CONTROL REGIMENS

Name of Alternative:

1. Pest Control When Comparing This Alternative to Methyl Bromide: Provide numerical estimates where possible.

Study #	Pest Being Tested	Relative % Pest Control	Scale of Study (e.g. pilot, plot)	Resulting Damages (please specify)
1				
2				
3				
4				
5				

2. Study Information: For the cited studies above, please list: study name, authors, publication, date, and indicate with a checkmark if a copy is attached and if it is on the EPA website.

Study #	Copy?	EPA?	Month/Year project started and finished (e.g. Nov '99 - Oct '04)	Details
1				
2				
3				
4				
5				

3. Are there any production delays (downtime) associated with this alternative? Yes ____ No ____

If yes, please continue with 3a, 3b, 3c.

3a. Please specify the number of days per year of downtime: _____ days/year

3b. What is the cost of production delays or downtime per year? \$ _____ per year

3c. Please explain the details of going into downtime and why it is necessary with this alternative:

4. What is the estimated probability of the commodity not meeting consumer quality standards with and without methyl bromide or alternative treatments: Please explain.

5. Restrictions/Limitations on Alternative Use: This information will be used to determine the amount of methyl bromide needed.

	% of Structure/Facility/Volum e	Details
Regulatory Restriction		
- Label Restriction		
Climate Restriction		
Pest Resistant To Alternative		
Structural Limitations		
Facility Limitations		
Other Restrictions/Limitations (Describe)		

6. Why is this alternative not suitable to replace 100% of methyl bromide use in processing this commodity:

7. Use Rate of Chemical Alternative:

Active Ingredient (a.i.)	Name of Product and Formulation	Quantity per Volume (1,000 cu ft)	Units (gals, Ibs, etc.)	Volume (1,000 cu ft) Treated	# of Applications per Year

8. Non-Chemical Pest Control: Please describe.

9. Fumigation Timeline: Indicate when fumigation, major commodity and pest management practices typically occur. If the fumigation cycle is longer than one year, change the months to an appropriate interval.

Time Interval (e.g. WEEKS/MONTH/YEAR)											
1	2	3	4	5	6	7	8	9	10	11	12

WORKSHEET 3-B: ALTERNATIVE – CHANGES IN OPERATING EXPENSES

Name of Alternative:

Column A:	Operating Expense Items Identify the operations to which the costs apply. You may add or delete lines as necessary. The operating expense items listed here are not meant to be exhaustive or be representative of your specific operating system. These are meant to provide suggestions and to help you identify how your operation would change if methyl bromide were unavailable.				
Column B:	Quantity Used per Volume (1,000 cu ft) or Weigh	nt (tons (short))		
	This field is required only for a or operations if you believe it alternative fumigant.				
Column C:	<u>Units (Ibs. hours, etc.)</u>				
	For all inputs and operations	detailed in Column B,	please specify t	he units of m	easurement.
Column D:	Unit Cost (\$)				
	For all inputs and operations costs of applying alternatives, separate costs are unavailabl	including any materia	al costs (e.g. tar	ps). If custon	
Column E:	Cost (\$) per Volume (1,000	cu ft) or Cost (\$) per	<u>Weight (tons (</u>	<u>short))</u>	
	Enter all appropriate costs of add or delete lines as necess		e (1,000 cu ft) o	r weight (tons	(short)). You may
	If operation is defined in eithe units.	r cost per volume or c		please keep t	he continuity of
	Α	В	С	D	E
Operating Expense Items		Quantity Used per Volume (1,000 cu ft) or Weight (Tons (short))	Units (lbs., hours, etc.)	Unit Cost (\$)	Cost (\$) per Volume (1,000 cu. ft.) or Cost (\$) per Weight (tons (short))
1. Pest Ma	nagement Costs (a+b+c+d)				
a) Sanita	ation				
b) Pest (Control				
c) Fumiç	gation (c1+c2)				
c1) P	roduct				
c2) A	pplication				
	Pest Management Costs				
2. Repairs Replacement	/ Maintenance /				
3. Interest					
4. Deprecia	ation for Plant Assets				
5. Other O	perating Expenses				
	TOTAL OPERATING COST				

4. What are the additional new investments (structures, facilities, equipment, fumigation chambers, etc.) needed to utilize this alternative: Establish necessary capital expenditures required for the uses of alternatives. For example, the incremental costs to convert to heat treatment might include installing a steam heating system, purchasing generators, installing necessary ductwork, and retrofitting other components to make them amenable to heat treatment.

Type of Investment	Total Investment (\$)	Life of Investment (# of years)	Salvage Value (\$)	Interest Rate (%)

WORKSHEET 4: EMISSION CONTROL

1. How do you currently minimize use and/or emissions of methyl bromide, and how do you plan to further reduce use and/or emissions in the future: For all use/emissions reduction technique that you use, please fill out the text, where provided, or state the adoption rate and/or describe changes.

, <u>, , , , , , , , , , , , , , , , , , </u>	What u Plea	xt, where provided, or s se/emission reduction presently adopted ase state the emission amounts for each liste	methods are 1? reduction	What fur will be ta critical u	ther use/emission reduction steps ken for the methyl bromide used for ses? Please project the reduction for each listed year.
Methyl Bromide	2004	lbs/a	acre	2009	lbs/acre
Dosage Reduction	2008	lbs/a	acre	2013	lbs/acre
Less Frequent	2004	times pe	er	2009	times per
Application	2008	times pe	er	2013	times per
Formulation	2004	% methyl bromide,	% chloropicrin	2009	% methyl bromide,% chloropicrin
Changes (please specify)	2008	% methyl bromide,	% chloropicrin	2013	% methyl bromide,% chloropicrin
Reclamation	2004			2009	
Reclamation	2008			2013	
Sealing	2004			2009	
Buildings	2008			2013	
Integrated Pest	2004			2009	
Management (IPM)	2008			2013	
Cultural Practices	2004			2009	
(please specify)	2008			2013	
Other Pesticides	2004			2009	
(please specify)	2008			2013	
Non-Chemical Methods	2004			2009	
(please specify)	2008			2013	
Other Measures	2004			2009	
(please specify)	2008			2013	

2. If methyl bromide emission reduction techniques are not being used, or are not planned for the future, state reasons:

WORKSHEET 5: FUTURE RESEARCH PLANS

1. Identify the top **3** to **5** target pests for your research:

- 1.
- 2. 3.
- 3. 4.
- 4. 5.

2. Provide a list of alternative chemicals or cultural practices that have been tested:

- 1. 2.
- 3.
- 4.
- 5.

3. Prioritize the alternative chemicals or cultural practices to be tested:

- 1. 2. 3.
- 4.
- 5.

4. What would be the best currently available alternative if methyl bromide were not available:

5. Are there any other potential alternatives under development which are being considered to replace methyl bromide:

6. Are there technologies being used to produce the crop which avoid the need for methyl bromide? Please explain whether such technologies could replace a proportion of proposed methyl bromide use:

7. Please provide an overview/timeline of the plan to transition away from using methyl bromide:

8. Will you include incidence reports where a commodity fails:

9. Please describe the management strategies that are in place or proposed to eliminate the use of methyl bromide for the nominated critical use, e.g., measures to avoid any increase in methyl bromide consumption, measure to encourage the use of alternatives, information on the market penetration of newly deployed alternatives and alternatives that may be used in the near future:

10. What is the cumulative amount spent and the types of contributions this consortium has made to fund research to develop alternatives to methyl bromide since 1992, e.g. consortium dues, direct research funding, etc.: Please add additional rows if necessary.

Years	Name of Organization / Research Institution	Amount (\$)

11. Other total investments, if any, made to reduce your reliance on methyl bromide: \$ _____

Describe each investment and its associated costs (e.g. specialized machinery, etc.). Please add additional rows if necessary.

Investment	Cost

13. Grant requests made to USDA, EPA, state, or other funding group:

For EPA Use Only ID # _____ SECTOR _____

WORKSHEET 6: SUMMARY

This section will be posted on the web to notify the public of requests for critical use exemptions beyond the 2005 phaseout for methyl bromide. Therefore, this section cannot be claimed as CBI.

1. Consortium Name:

2. Location:

3. Crop:

4. Pounds of Methyl Bromide Requested:	2011	_lbs.	2012	lbs.
5. Volume Treated with Methyl Bromide:	2011	_ (1,000 cu. ft.)	2012	(1,000 cu. ft.)

6. If methyl bromide is requested for additional years, reason for request:

		a for additional Joard, foado	in for roquooti
2011	Ibs.	Volume Treated	(1,000 cu. ft.)
2012	Ibs.	Volume Treated	(1,000 cu. ft.)
2013	lbs.	Volume Treated	(1,000 cu. ft.)

7. Summary of Alternatives Not Feasible: Place an "X" in the column(s) labeled "Not Technically Feasible" and/or "Not Economically Feasible" where appropriate. Use the "Reasons" column to describe why the potential alternative is not feasible. Please add additional rows if necessary.

Potential Alternatives	Not Technically Feasible	Not Economically Feasible	Reasons

Fumigation cycle:	The period of time between methyl bromide fumigations.
Year:	If a fumigation cycle overlaps more than one calendar year, "year" refers to the calendar year when methyl bromide is applied (or the beginning of the cycle).
Comparable data:	In order to compare revenues and costs with and without methyl bromide, data on alternatives for pest control, yields, revenues, and costs must be for the same time interval as the methyl bromide fumigation cycle. If, however, quantitative data, is not available for the entire fumigation cycle, then to be comparable, the quantitative data for the alternatives should cover the same portion of the fumigation cycle as the quantitative data for methyl bromide, and the rest of the cycle should be discussed in the comments sections.
2-year example:	If a methyl bromide fumigation is made every 2 years, then the 2003 fumigation cycle began in 2003 and would end in 2005. The data should cover the methyl bromide costs and usage for the methyl bromide fumigation made in 2003, and all yields and revenues received and other costs incurred during the 2 year period. To be comparable, the data on alternatives should cover a similar 2 year period beginning in 2011 beginning at the same time of year when a methyl bromide fumigation would be made. The data should cover all methyl bromide alternatives used, and all yields and revenues received during that 2-year interval. Other pest control and other costs would only need to be provided for that interval if they would change from what they were with methyl bromide.
Other beneficiary example	If someone other than the applicant benefits from a methyl bromide fumigation, you should comment on these benefits if you do not have quantitative data for the entire fumigation cycle. For example, if a rotational crop in the second year benefits from a methyl bromide fumigation a year earlier, but there is quantitative data only on the first crop, then the data on the alternatives should cover only the first crop, and the benefits of methyl bromide and the additional pesticides that would have to be used on the rotational crop should be discussed in the comments sections.
Crop cycle change example:	If in a one year interval, methyl bromide is applied, tomatoes are grown and harvested followed by peppers, then the fumigation cycle would be one year including the tomatoes and peppers. If, however, without methyl bromide, it is not possible to follow tomatoes with peppers in the same one year interval, then the alternative data on pesticides, costs, yields, and revenues should just cover tomatoes. The loss of profit from not being able to grow peppers with the alternatives would be part of the loss from not having methyl bromide.
Crop Grouping	The applicant can group similar crops together if: (i) Crops would experience similar yield and quality losses in the absence of methyl bromide; and (ii) Crops are grown on the same fumigation and cultivation cycle with similar operating costs. For example, nursery crops including various flower or tree species can be aggregated, with average yields per acre and prices. However, if crops are distinctly different in revenues and operating costs, or the cycles, the applicant may want to present yield, price and operating costs for each crop separately and also indicate the proportion of land area allocated to each crop.

Definitions:

