



联合国



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执行蒙特利尔议定书
多边基金执行委员会
第四十三次会议
2004年7月5日至9日，日内瓦

以第 Ex.I/2 号决定为背景的第 42/49 号决定执行情况报告

导言

1. 在执行委员会第四十二次会议上，阿根廷代表根据缔约方特别会议第Ex. I/2 号决定¹的规定，提出了关于第 5 条国家尽早淘汰甲基溴项目的一项决定草案。
2. 在讨论期间，一些成员强调必须制订延长加快淘汰协定的标准；相反，其他成员则认为，如果制订一般标准并在项目中逐个实施，在程序方面会有困难。此外，有成员指出，秘书处仅被要求将现有甲基溴项目资料汇报成文件，没有应要求提供看法。
3. 执行委员会认识到，为了实施第 Ex. I/2 号决定，必须获得更多关于已核准加速淘汰甲基溴项目执行情况资料，决定：
 - (a) 请多边基金秘书处根据其自己以及各有关双边机构和执行机构现有的资料，为执行委员会第四十三次会议编写一份适当的文件，在其中说明各已核准的加速淘汰甲基溴项目的最新执行情况；
 - (b) 请执行委员会成员在 2004 年 4 月 30 日之前向秘书处提交关于缔约方大会第 Ex. I/2 号决定执行问题的评论；以及
 - (c) 在其第四十三次会议上审议有无必要建立一个联系小组，以讨论秘书处编写的文件以及执行委员会成员提交的任何材料(第 42/49 号决定)。
4. 秘书处根据执行委员会第 42/49 号决定的规定拟定了这份文件。

文件结构

5. 本文件分为以下两节：

第一节： 介绍甲基溴项目执行现状，包括一个关于履约情况的章节，执行委员会可能会认为这个章节有助益，进一步提供了背景资料；以及

第二节： 执行委员会各成员的评论。

¹ 蒙特利尔议定书缔约方决定(第Ex.I/2号决定)：(1) 请执行委员会在确定应采取何种行动方针来处理一国因出现了先前未能预见到的特定情形而未能遵守在其加速甲基溴淘汰协定中具体规定的某一削减步骤的情况时采取灵活的办法；(2) 邀请执行委员会根据所涉缔约方的要求，考虑延长最后削减步骤的实施期限、但最迟不得晚于 2015 年，同时亦计及这些缔约方所表明的在采用那些先前认定在技术上和经济上均为可行的替代品方面遇到的切实困难，考虑其加速淘汰甲基溴现行协定中所规定的相关供资的具体提供时间；(3) 要求执行委员会按照相关缔约方提出的要求，通过用于确定延长加速淘汰甲基溴协定的期限的标准。执行委员会可在订立此种标准时征询技经评估组和甲基溴技术选择委员会的意见、并计及与相关缔约方的淘汰项目有关的任何现有资料。

6. 本文件还包括一个附件，该附件载有关于甲基溴项目的所有现有数据。

第一节：甲基溴项目的执行情况

秘书处采用的方法

7. 为了执行第 42/49 号决定(a)段的要求，秘书处建立了一个促进第 5 条国家淘汰甲基溴的项目(即：投资和技术援助项目，不包括示范项目)数据库。表 1 介绍了分析报告所包括甲基溴项目清单。

8. 秘书处从下述来源获得每个项目的有关数据：根据第 7 条规定向臭氧秘书处报告的数据；已核准项目目录；向执行委员会会议提交的有关项目评价表；有关国家政府与执行委员会的协定—如果有这种协定；执行委员会会议最后报告；以及项目提案。

9. 秘书处向每个有关双边机构(即：加拿大、法国、德国和意大利)和执行机构(开发计划署、工发组织和世界银行)送交了该数据库，请它们审查数据，更新它们所管理项目的执行现状(即：与政府签订协定的实际日期，第一次付款的日期，实际淘汰的甲基溴数量，年度支付资金额)。秘书处还要求双边机构和执行机构提出项目现状简明报告(至多 2 至 3 个段落)，包括项目迄今取得的结果、处理的主要问题、今后将开展的活动和关于项目的任何其他评论(例如，更改项目数据库中某些数据的必要性)。

10. 秘书处收到所有双边机构和执行机构的投入，并拟定了一份综合报告，该报告作为附件一附录在本文件之后。

第 5 条国家甲基溴生产和消费情况

11. 从执行委员会迄今已核准的淘汰甲基溴项目和活动看，目前有 18 个国家的已核准项目将使它们能够实现 2005 年淘汰目标(基准总数为 5,867.7 ODP 吨，最近报告的消费量为 5,496.3 ODP 吨)，26 个国家的已核准项目将促使它们彻底淘汰甲基溴(甲基溴基准总数为 2,064.6 ODP 吨，最近报告的消费量为 1,450.4 ODP 吨)。

12. 二十二个国家可能需要立即提供援助，以实现 2005 年甲基溴淘汰目标(为淘汰 79.7 ODP 吨追加资金)。这些国家的甲基溴基准总数为 398.35 ODP 吨，最近报告的第 7 条消费量为 375.5 ODP 吨。

13. 此外，36 个国家甲基溴基准数为零或者没有计算基准数，或者目前不消费甲基溴，22 个国家尚未成为《哥本哈根修正案》缔约方。在另外两个国家(阿尔及利亚和突尼斯，甲基溴基准数为 13 ODP 吨)，只有在出现高湿度的日子里才消费甲基溴，根据缔约方第十五次会议第 XV/12 号决定，将延后审议这些国家的履约状况。

被确定未履约的国家

14. 现在已经确定,下述已有一个(或数个)淘汰甲基溴项目的国家没有遵守关于甲基溴消费的规定:

- (a) 博茨瓦纳: (第 XV/31 号决定): 2002 年, 博茨瓦纳没有履行《蒙特利尔议定书》第 2H 条规定的义务。博茨瓦纳已提交一项行动计划, 以确保迅速恢复遵守甲基溴控制措施。根据该计划, 博茨瓦纳承诺, 将甲基溴消费量从 2002 年的 0.6 ODP 吨减少到 2005 年 1 月 1 日的 0 ODP 吨。执行委员会在第二十五次会议上核准了一个博茨瓦纳甲基溴示范项目, 该项目将促使该国完全淘汰甲基溴;
- (b) 喀麦隆: (第 XV/32 号决定): 2002 年, 喀麦隆没有履行《蒙特利尔议定书》第 2H 条规定的义务。因此, 该国政府被要求向履行委员会提交一项行动计划, 以确保迅速恢复遵守甲基溴控制措施。执行委员会在第二十五次会议上核准了一个喀麦隆甲基溴示范项目, 该项目将促使该国完全淘汰甲基溴;
- (c) 埃及 (第 XV/25 号决定): 各缔约方在第十五次会议上指出, 埃及被认为可能没有遵守 2002 年甲基溴消费规定。因此, 该国政府被要求向履行委员会解释其超额消费情形, 并且提出一项行动计划, 以确保迅速恢复履约;
- (d) 危地马拉 (第 XV/34 号决定): 2002 年, 除其他条款外, 危地马拉没有履行《蒙特利尔议定书》第 2H 条规定的义务。危地马拉已提交一项行动计划, 以确保迅速恢复遵守甲基溴控制措施。根据该计划, 在不影响《议定书》财务机制运作的前提下, 危地马拉承诺, 将甲基溴消费量从 2002 年的 709.4 ODP 吨减少到 2008 年的 286 ODP 吨。根据缔约方第十五次会议第 XV/34 号决定, 执行委员会第四十二次会议决定修订第三十八次会议核准项目提案时商定的甲基溴淘汰时间表(第 42/14 号决定(a)段);
- (e) 洪都拉斯 (第 XV/35 号决定): 2002 年, 洪都拉斯没有履行《蒙特利尔议定书》第 2H 条规定的义务。洪都拉斯已提交一项行动计划, 以确保迅速恢复遵守甲基溴控制措施。根据该计划, 洪都拉斯承诺, 将甲基溴消费量从 2002 年的 412.5 ODP 吨减少到 2005 年的 207.5 ODP 吨。根据缔约方第十五次会议第 XV/35 号决定, 执行委员会第四十二次会议决定修订第三十七次会议核准项目提案时商定的甲基溴淘汰时间表(第 42/14 号决定(c)段);
- (f) 乌干达 (第 XV/43 号决定): 缔约方第十五次会议核准了乌干达更改甲基溴基准消费量的请求(从 1.9 ODP 吨改为 6.3 ODP 吨)。2002 年, 即使修订了甲基溴基准数字, 乌干达仍然没有履行《蒙特利尔议定书》第 2H 条规定的义务。乌干达已提交一项行动计划, 以确保迅速恢复遵守甲基溴控制措施。根据该计划, 在不影响《议定书》财务机制运作的前提下, 乌干达承诺, 将甲基溴消费量从 2002 年的 30 ODP 吨减少到 2007 年 1 月 1 日的 0 ODP 吨。根据缔约方第十五次会议第 XV/43 号决定,

执行委员会第四十一次会议决定修订第三十四次会议核准项目提案时商定的甲基溴淘汰时间表(第 41/78 号决定(c)段)

- (g) 乌拉圭 (第 XV/44 号决定): 2002 年, 乌拉圭没有履行《蒙特利尔议定书》第 2H 条规定的义务。乌拉圭已提交一项行动计划, 以确保迅速恢复遵守甲基溴控制措施。根据该计划, 乌拉圭承诺, 将甲基溴消费量从 2002 年的 17.7 ODP 吨减少到 2005 年 1 月 1 日的 0 ODP 吨。

第二节: 执行委员会各成员的评论

15. 根据第 42/49 号决定(b)段的规定, 阿根廷政府提出了关于执行缔约方第 Ex. I/2 号决定问题的评论, 并且提出了确定存在执行困难的加速淘汰甲基溴项目标准的提案, 供执行委员会审议。没有其他执行委员会成员提出评论。

阿根廷政府的评论

16. “阿根廷目前正在执行下述投资项目, 以便在种植下述作物的活动中淘汰甲基溴: 草莓、温室蔬菜和鲜花 (ARG/FUM/30/INV/105 项目) 以及烟草和室外蔬菜 (ARG/FUM/36/INV/129 项目), 阿根廷已经承诺, 最迟在 2007 年完全淘汰这种物质的消费。此外, 本地区许多国家不是执行委员会成员, 但它们正在开展类似的项目。

17. “阿根廷认为, 为了执行第 Ex.I/2 号决定, 执行委员会应该首先商定一套一般标准, 在执行项目的缔约方向执行委员会提交存在执行困难的项目供其审议时, 对每一个具体项目实施这套标准。制订审议存在执行困难项目的一般标准将提高透明度, 并将保证公平和一视同仁地处理提交给执行委员会的个案。

标准提案

18. “为此目的, 特提出确定存在执行困难的加速淘汰甲基溴项目的下列标准, 供执行委员会审议:

- (a) 执行委员会将根据执行项目缔约方的请求, 逐案评价各项目;
- (b) 项目必须已在执行之中, 必须能够显示, 执行活动已经取得实质性进展;
- (c) 执行项目缔约方应向多边基金秘书处提出重新考虑的请求, 并且提供支持重新考虑的所有其他有关资料, 多边基金秘书处应在下次会议之前提前足够的时间向执行委员会各成员转达关于重新考虑的请求;
- (d) 除缔约方认为有关的其他资料外, 缔约方还应提交下述资料:
 - (一) 指出在签署承诺之日没有预见到、但却影响项目发展的各项困难(注: 除其它原因外, 这些困难可能包括市场变化, 市场不再供应拟议的替代物质, 拟议的替代物质不适合当地具体条件或具体作物, 无法注册

替代物质，替代物质的注册被取消，等等)；

- (二) 如果没有预见到的困难是替代物质在技术上或经济上不可行，则应提供在相关地区试用甲基溴替代物质产生负面结果的证明；
 - (三) 提出一项行动计划或另一个淘汰甲基溴时间表(注：提议的行动计划/另一时间表至多应符合《蒙特利尔议定书》甲基溴控制措施)；
- (e) 鉴于农业生产的特点，不能打断技术转让进程，因此，重新谈判支付款项的工作应以不影响项目连续性为优先事项；
- (f) 执行委员会在审议存在困难项目时，应该考虑是否已在非第 5 条国家给与项目所涉作物关键用途例外以及例外所涉数量”。

建立联系小组

19. 根据第 42/49 号决定(c)段的规定，谨提议执行委员会审议有无必要建立一联系小组，讨论秘书处编写的文件以及执行委员会成员提交的任何材料。

表 1

执行委员会迄今核准的第 5 条国家甲基溴投资项目和技术援助项目清单

国家	编号	项目名称	机构	ODP 吨
阿根廷	ARG/FUM/30/INV/105	草莓、受保护蔬菜和鲜花生产淘汰甲基溴	工发组织	331
阿根廷	ARG/FUM/36/INV/129	烟草和非保护蔬菜苗床生产淘汰甲基溴	开发计划署	29
玻利维亚	BOL/FUM/35/INV/16	结束性淘汰甲基溴项目，不包括检疫和装运前消毒处理用途	开发计划署	1.5
波斯尼亚和黑塞哥维那	BHE/FUM/41/INV/17	烟草籽苗、蔬菜和鲜花生产行业淘汰甲基溴	工发组织	11.8
巴西	BRA/FUM/28/INV/142	整个烟草行业淘汰甲基溴	工发组织	84.4
智利	CHI/FUM/32/INV/143	果树生产和种植活动甲基溴土壤杀虫示范和淘汰项目	开发计划署	76.2
中国	CPR/FUM/41/INV/407	国家淘汰甲基溴	工发组织	389
哥斯达黎加	COS/FUM/35/INV/25	全面淘汰瓜类、鲜花、香蕉、烟草籽苗和苗圃生产中的甲基溴熏蒸剂，不包括检疫和装运前消毒处理用途	开发计划署	84.4
科特迪瓦	IVC/FUM/42/INV/19	淘汰甲基溴商品和储存设施甲基溴熏蒸方法	工发组织	8.5
克罗地亚	CRO/FUM/35/INV/14	烟草籽苗生产淘汰甲基溴	工发组织	16.2
古巴	CUB/FUM/26/INV/11	烟草行业淘汰甲基溴	工发组织	48
多米尼加共和国	DOM/FUM/38/INV/33	瓜类、鲜花和烟草行业淘汰甲基溴	工发组织	141
厄瓜多尔	ECU/FUM/26/TAS/23	鲜花种植行业土壤处理甲基溴替代物质测试示范/技术援助项目	世界银行	15
厄瓜多尔	ECU/FUM/38/INV/31	玫瑰苗圃行业技术改革，淘汰甲基溴	世界银行	37.2
埃及	EGY/FUM/38/INV/86	全国园艺和商品杀虫活动淘汰甲基溴	工发组织	185.6
格鲁吉亚	GEO/FUM/37/TAS/13	技术援助，在土壤杀虫活动中淘汰甲基溴	工发组织	6
加纳	GHA/FUM/37/TRA/18	结束性淘汰甲基溴项目培训方案，不包括检疫和装运前消毒处理用途	开发计划署	6.3
危地马拉	GUA/FUM/38/INV/29	全国淘汰甲基溴	工发组织	468
洪都拉斯	HON/FUM/37/INV/10	瓜类和香蕉生产行业和烟草籽苗活动淘汰甲基溴	工发组织	213
印度尼西亚	IDS/FUM/41/INV/158	谷物储存淘汰甲基溴	加拿大	37.8
伊朗	IRA/FUM/29/INV/57	收割后处理活动中，淘汰甲基溴重要的非关键、非必需用途	工发组织	12.4
约旦	JOR/FUM/29/INV/54	约旦彻底淘汰甲基溴	德国	180
肯尼亚	KEN/FUM/38/INV/31	技术转让，促进在鲜花生产中淘汰甲基溴土壤杀虫方法	开发计划署	10
肯尼亚	KEN/FUM/39/INV/33	技术转让，促进所有其他园艺活动淘汰甲基溴土壤杀虫方法	德国	5
吉尔吉斯斯坦	KYR/FUM/41/TAS/08	技术援助项目，引进替代物质，淘汰甲基溴	开发计划署	14.2
黎巴嫩	LEB/FUM/34/INV/44	草莓生产淘汰甲基溴土壤杀虫方法	工发组织	6
黎巴嫩	LEB/FUM/34/INV/46	蔬菜、鲜花和烟草生产行业淘汰甲基溴	开发计划署	25.8
马其顿	MDN/FUM/32/INV/16	烟草籽苗和园艺生产行业淘汰甲基溴	工发组织	27.2
马拉维	MLW/FUM/34/INV/16	淘汰甲基溴所有非必需和非检疫和装运前消毒处理用途国家方案第二笔款项	开发计划署	20.9

国家	编号	项目名称	机构	ODP 吨
墨西哥	MEX/FUM/42/TAS/118	技术援助, 促进实现 2005 年淘汰 20% 甲基溴的目标	工发组织, 加拿大, 西班牙	107.2
摩洛哥	MOR/FUM/29/INV/37	鲜花和香蕉生产淘汰甲基溴	法国	61
摩洛哥	MOR/FUM/32/INV/41	草莓生产淘汰甲基溴土壤杀虫方法	工发组织	155
摩洛哥	MOR/FUM/34/INV/44	西红柿生产淘汰甲基溴土壤杀虫方法	工发组织	109.8
秘鲁	PER/FUM/31/INV/28	淘汰甲基溴土壤杀虫方法	开发计划署	4
罗马尼亚	ROM/FUM/34/INV/19	园艺活动淘汰甲基溴	意大利	93.9
塞内加尔	SEN/FUM/26/INV/12	Novasen Ltd 淘汰花生种子甲基溴杀虫方法	工发组织	0.7
斯里兰卡	SRL/FUM/38/TAS/21	淘汰甲基溴所有剩余用途, 不包括检疫和装运前消毒处理用途	开发计划署	3.3
叙利亚	SYR/FUM/34/INV/80	谷物储存活动淘汰甲基溴	工发组织	5
土耳其	TUR/FUM/31/INV/69	干无花果行业淘汰甲基溴	世界银行	30
土耳其	TUR/FUM/29/INV/56	东地中海地区受保护草莓、椒类和茄子生产及土耳其 Aydm 省草莓生产引进甲基溴替代物质	世界银行	50
土耳其	TUR/FUM/35/INV/74	受保护的西红柿、黄瓜和康乃馨作物生产淘汰甲基溴	工发组织	29.2
乌干达	UGA/FUM/34/INV/08	鲜花生产淘汰甲基溴	工发组织	12
乌拉圭	URU/FUM/34/INV/35	园艺(西红柿和鲜花)活动淘汰甲基溴	工发组织	24
也门	YEM/FUM/41/TAS/21	技术援助方案, 促进在农业活动中淘汰甲基溴	德国	9.1
津巴布韦	ZIM/FUM/31/INV/21	鲜花生产淘汰甲基溴	工发组织	132

MB consumption reported to the Ozone Secretariat (ODP tonnes)

1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	Baseline
169.2	265.8	409.8	465.0	504.6	468.0	465.6	358.8	168.6		411.3

Project proposal:

Phase-out of methyl bromide in strawberry, protected vegetables and cut flower production (ARG/FUM/30/INV/105), implemented by UNIDO

Phase out of MB used for soil disinfestation in protected vegetables (tomato, lettuce, pepper, celery, spinach, cucumber, melon) and cut flower production, covering 728 ha which represents the total commercial production in the country; and 121 ODP tonnes of MB used for soil disinfestation in strawberry production, covering 130 ha for strawberry nurseries and 970 ha for production (open field), representing the entire commercial strawberry production in the country. The alternatives selected are metam sodium, for controlling the main soil-borne pests and diseases in the production of horticulture and flowers (428 ha) and strawberries (790 ha); and steam pasteurization, for controlling weeds and nematodes in heavily infested soil. It includes a training programmes (over 3,900 farmers distributed through out the country, of which 600 work in strawberries production and 3,300 in flowers and vegetables). It also proposes the establishment of farmers’ associations during the first year of project implementation, responsible for: keeping the equipment provided under the project, providing steam service to farmers, distributing consumable agricultural inputs, and collecting fees associated with basic operating costs.

The Committee approved US \$3.183 million as the total funds that will be available to achieve commitments for the phase reduction in the use of MB. Argentina commits to reduce total consumption of controlled uses of MB to no more than the following levels in during the 12-month period of the following listed years : in 2001 no more than 471.9 tonnes, in 2002 no more than 405.8 tonnes, in 2003 no more than 306.6 tonnes and in 2004 no more than 174.4 tonnes. It also commits to sustain this phase-out of MB through the use of bans in the use of MB for, at least, the uses covered by the project. Argentina may have additional projects approved that will add to the reductions noted above. UNIDO agrees to educate related farmers on ways to limit the use of metam sodium through the enhanced use of IPM techniques. UNIDO shall report to the Committee annually on the progress in meeting reductions by this project and on annual costs related to metam sodium and the use of steam boilers. Following initial disbursement of 33% in 2000-2001, funding for later years the project will be disbursed in accordance with the following schedule, with the understanding that a subsequent year’s funding will not be disbursed until the Committee has reviewed the prior years progress report: in 2002, 33% and in 2003, 34% (full text of the agreement is included as Annex III to document UNEP/OzL.Pro/ExCom/30/41).

Project implementation dates:

Date of approval	Signature agreement	Start-up date	1st disbursement	Completion (proposal)	Actual completion
Mar-2000	Feb-2001	Apr-2000	Jul-2000	Sep-2004	

Total amount of MB phased out (ODP tonnes):

	<2000	2001	2002	2003	2004	2005	2006	2007	2008	2009>	Total
<i>Proposed</i>		33.2	66.2	99.2	132.4						331.0
<i>Actual</i>		33.2	92.3	99.0							224.5

Total funds approved by the Executive Committee (US\$):

<i>Approved</i>	3,183,390										3,183,390
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Total funds disbursed by UNIDO to the Government of Argentina (US\$):

<i>Proposed</i>		1,050,500	1,050,500	1,082,390							3,183,390
<i>Actual</i>	3,024	666,816	545,843	662,978							1,878,661

Current status of project implementation:

Phase out of 99 tonnes occurred in 2003 and an additional phase out of 106.6 tonnes is expected in 2004.

Project proposal:

Methyl bromide phase-out in tobacco and non-protected vegetable seedbeds (ARG/FUM/36/INV/129), implemented by UNDP

The alternative technologies in the production of tobacco seedlings are the floating and non-floating tray systems installed in micro-tunnels and alternative chemicals (metam sodium) in specific areas. The selection of these technologies is based on the results of 2 demonstration projects, one for tobacco seedbeds (UNDP) and another for strawberry, cut flower and protected vegetable sectors (UNIDO). In addition, this project will be accompanied by a package of policy measures to ensure that the MB phased out by this project will not be re-introduced at a later stage.

The Executive Committee approved in principle, an additional US \$3,588,000 as the total funds that will be available to Argentina to achieve the complete phase out of MB used in tobacco and non-protected vegetable seedbeds (178 ODP tonnes), excluding quarantine and pre-shipment applications. Of the amount to be phased out from the project, 22.8 ODP tonnes will be phased out without the assistance from the Multilateral Fund. The remaining consumption in the country is 18 ODP tonnes, used for post-harvest fumigation of cotton and citrus. The cost effectiveness of the project is US \$23.15/kg.

Project implementation dates:

Date of approval	Signature agreement	Start-up date	1st disbursement	Completion (proposal)	Actual completion
Mar-2002	Aug-2002	May-2002	Apr-2002	Dec-2006	

Total amount of MB phased out (ODP tonnes):

	<2000	2001	2002	2003	2004	2005	2006	2007	2008	2009>	Total
Proposed			29.0	21.0	16.0	33.5	79.3				178.8
Actual			53.6	29.0							82.6

Total funds approved by the Executive Committee (US\$):

Approved			1,720,000	467,000							2,187,000
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Total funds disbursed by UNDP to the Government of Argentina (US\$):

Proposed			1,720,000	467,000	467,000	467,000	467,000				3,588,000
Actual			1,547,990	602,776							2,150,766

Current status of project implementation:

The second year of Argentina’s Methyl Bromide Phase-out Project achieved a phase-out of 29.05 ODP T of methyl bromide in the tobacco production sector, thereby surpassing its 2003 commitment to phase-out 21 ODP T, as per the project’s Agreed Conditions. Despite the deep economic crisis that Argentina faced in 2002, during 2003 the economy recovered greatly, demonstrating growth of 8.7%. In tandem, the tobacco sector expanded its planted area, achieving 19% growth, but as a result of the national project team’s work, and the commitment on the part of grower’s organizations, the sector’s overall consumption of MeBr nevertheless dropped by 31.24%, indicative of the high grade of sustainability in adoption of alternative technology.

The project continued making excellent progress in the northwest region (Misiones, Corrientes and Chaco provinces) through the involvement of thousands of small-scale growers. Since the launch of the project’s implementation over 4,500 growers have received training. Distribution of inputs required for conversion to use of floating tray system continued and will ultimately impact 18,000 growers.

On 16 September 2003, International Ozone Day, in the presence of high level policy makers from the ministries of environment and agriculture, representatives of Argentina’s tobacco growers’ organizations, as well as representatives of the main tobacco companies, a public declaration was signed by all stakeholders as a sign of the sector’s commitment to the principles of the Montreal Protocol and to phase-out MeBr consumption in the sector by 2007.

MB consumption reported to the Ozone Secretariat (ODP tonnes)

1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	Baseline
0.2	0.3	0.3	0.3	1.5	0.6	0.4	1.5	0.3		0.6

Project proposal:

Terminal methyl bromide phase-out, excluding QPS applications (BOL/FUM/35/INV/16), implemented by UNDP

The project will adapt to local conditions the following alternative technologies to MB: solarization in combination with alternative chemicals (strawberry and vegetable nurseries), bio-fumigation and floating tray systems (vegetable nurseries) and steam pasteurization (potato seeds and cut flowers). The main equipment requirements are 3 small-capacity boilers and other farm materials (plastic trays, soil thermometers, seeders). The Government is proposing: to establish a national commission for the replacement of MB, procure and disburse the equipment and materials to nurseries/farms who use MB; implement an initial technology transfer and training programme to a small number of MB users and technicians and then extended to all MB users; raise awareness among farmers about the need to phase out MB; and develop a policy package and MB action plan to ensure that the alternatives selected will be sustainable, and to ensure that MB will not be re-introduced after it has been phased out. This will include measures to restrict imports of MB to comply with the agreed schedule.

Approved taking into account the country's possible non-compliance with the 2002 freeze, and the fact that the project is similar to demonstration projects approved by the Executive Committee in this sector. The project is to be implemented in accordance with the conditions for the phase-out of methyl bromide in Bolivia agreed between the Government of Bolivia and the Executive Committee (Note: the cost effectiveness of project excluding the demonstration component, is US \$33.6/kg).

Project implementation dates:

Date of approval	Signature agreement	Start-up date	1st disbursement	Completion (proposal)	Actual completion
Dec-2001	Aug-2002		Dec-2002	Dec-2004	

Total amount of MB phased out (ODP tonnes):

	<2000	2001	2002	2003	2004	2005	2006	2007	2008	2009>	Total
<i>Proposed</i>		1.5	1.5	0.6							3.6
<i>Actual</i>											

Total funds approved by the Executive Committee (US\$):

<i>Approved</i>		221,032									221,032
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Total funds disbursed by UNDP to the Government of Bolivia (US\$):

<i>Proposed</i>											0
<i>Actual</i>											0

Current status of project implementation:

Workshops to present alternative technologies have taken place together with coordination meetings with national stakeholders. In addition, in February 2003, there was an initial proposal for the Reglamento de Gestion Ambiental de SAO. This Reglamento was circulated to the main stakeholders in each sector (refrigeration, foams, MBR, etc) for comments and discussion. Later during the year, a workshop to discuss their observations took place and modifications to the Reglamento were done based on these discussions. Such process brought improvements to the legislation.

Monitoring of Methyl Bromide use has been carried out regularly. The equipment has been selected and is in the process of being purchased. Materials on Methyl Bromide alternatives have been prepared and distributed to all stakeholders.

MB consumption reported to the Ozone Secretariat (ODP tonnes)

1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	Baseline
2.4	2.4	3.6	3.9	4.2	6.2	6.2	11.8	11.8		3.5

Project proposal:

Phase-out of methyl bromide in tobacco seedling vegetables and flower production sector (BHE/FUM/41/INV/17), implemented by UNIDO

The alternative technologies to replace MB are in the floating tray system for the production of tobacco seedlings, and biofumigation and solarization for the production of vegetables and cut flowers. It includes a training programme in the use of the alternative technologies and application of integrated pest management systems. The Government is committed to phase out the entire consumption of MB (11.8 ODP tonnes) by end of 2006. Upon completion of the project, the Government will issue a regulation banning the use of MB in soil fumigation in the country. It will be implemented by UNIDO in coordination with the Ozone Unit and in cooperation with the Ministries for Agriculture, Water and Forestry and the Government of the District Brcko.

Approved on the understanding that the approval was without prejudice to the operation of the Montreal Protocol's mechanism dealing with non-compliance and in accordance with the conditions for phase-out of MB in horticulture (tomatoes and cut flowers) agreed between the Government of Bosnia and Herzegovina and the Executive Committee.

Project implementation dates:

Date of approval	Signature agreement	Start-up date	1st disbursement	Completion (proposal)	Actual completion
Dec-2003	Dec-2003	Jan-2004		Dec-2006	

Total amount of MB phased out (ODP tonnes):

	<2000	2001	2002	2003	2004	2005	2006	2007	2008	2009>	Total
<i>Proposed</i>						6.2	5.6				11.8
<i>Actual</i>											

Total funds approved by the Executive Committee (US\$):

<i>Approved</i>				229,000							229,000
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Total funds disbursed by UNIDO to the Government of Bosnia and Herzegovina (US\$):

<i>Proposed</i>											0
<i>Actual</i>											0

Current status of project implementation:

Mission to Sarajevo is planned for Mar 2004 to agree on implementation modalities.

MB consumption reported to the Ozone Secretariat (ODP tonnes)

1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	Baseline
564.3	667.0	844.6	756.6	578.3	275.5	430.7	257.6	238.5		711.6

Project proposal:

Phasing out methyl bromide in the entire tobacco sector (BRA/FUM/28/INV/142), implemented by UNIDO

The project proposes to install 240,218 small micro-tunnels (25 m² each) composed of 18 corrosion-protected arches, covered by UV protected plastic sheets. In the interior of the tunnel a small pool made with ceramic holders and black polyethylene film is filled with water to a depth of 6 cm. Expanded polystyrene trays filled with substrate float on the surface of the pool. The equipment set includes manual seeders, substrate compactors for sowing, elastic bidders, clipping devices and polystyrene trays. It will be coordinated by the Ozone Unit. At the completion of the project, the Government will issue a regulation banning the use of methyl bromide in the tobacco sector; in 1999, a register of importers of methyl bromide and re-sellers/ distributors will be established; effective 1999, methyl bromide will be included in the system to control trading of imports and exports; from January 2000, the Government has agreed on a 20% reduction annually on methyl bromide consumption and only essential and critical uses will be allowed beyond January 2005.

Approved a level of funding in the amount of US \$2.34 million as a national incentive and on an exceptional basis, to implement the project to phase-out at least 20% of the current methyl bromide used in the tobacco sector (from 421.8 to 337.4 ODP tonnes or less) over a period of 3 years from the time the project commences. To report back to the Executive Committee 3 years after project initiation with information on the experience gained in the phase-out, including related costs and remaining ODS consumption in the sector.

Project implementation dates:

Date of approval	Signature agreement	Start-up date	1st disbursement	Completion (proposal)	Actual completion
Jul-1999	Feb-2000	Apr-2000	Jun-2000	Aug-2002	Dec-2001

Total amount of MB phased out (ODP tonnes):

	<2000	2001	2002	2003	2004	2005	2006	2007	2008	2009>	Total
<i>Proposed</i>			84.4								84.4
<i>Actual</i>	24.4	60.0									84.4

Total funds approved by the Executive Committee (US\$):

<i>Approved</i>	2,320,784										2,320,784
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Total funds disbursed by UNIDO to the Government of Brazil (US\$):

<i>Proposed</i>											0
<i>Actual</i>	1,623,829	696,954	1								2,320,784

Current status of project implementation:

Final report submitted in May 2002 to the MF Secretariat. PCR completed and submitted.

MB consumption reported to the Ozone Secretariat (ODP tonnes)

1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	Baseline
119.4	176.8	236.2	139.0	298.1	107.1	242.5	239.0	165.2		212.5

Project proposal:

Demonstration and phase-out project for methyl bromide soil fumigation for fruit tree production and replant (CHI/FUM/32/INV/143), implemented by UNDP

To be implemented in 2 phases. In Phase I, alternative technologies to MB (chemical controls; IPM system and cultural practices; solarization in combination with IPM system and substrates and steam in nurseries) will be adapted and their technical and economic feasibility in key agricultural regions will be assessed during two agricultural seasons. Phase II will develop training and extension programmes to ensure that the alternative technologies are adopted by MB users. Phase II will proceed only if effective and economically viable alternatives are identified; however, Phase I has been designed to ensure successful adaptation of viable alternative technologies. Alternatives are proposed to be tested in the field: It includes workshops to assist in the design of the project and establish stakeholders' consultative groups for growers to be informed and consulted with during project implementation and a 'train the trainers' programme for extension staff, technicians and farmers; and training programmes for farmers on how to use the best alternatives. It will include field days, and preparation of brochures, technical manuals and a video. The leading trainers will train 1,000 technicians, extension personnel and farmers, to be selected on the basis that they are able to extend the alternatives effectively to others in the sector. Leading trainers will hold one-day meetings for 10 people on farms, and will make 5 follow-up visits to trainees during the active season.

UNDP will disburse the funds approved in tranches according to the proposed methyl bromide phase out schedule indicated in the agreement between the Government and the Committee; if Chile does not meet the reduction requirements outlined in the agreement, UNDP will withhold funding for the subsequent tranche until such time as the required reduction has been met. Also, UNDP will submit an annual progress report on the implementation of the project to the Fund Secretariat

Project implementation dates:

Date of approval	Signature agreement	Start-up date	1st disbursement	Completion (proposal)	Actual completion
Dec-2000	Aug-2001		Jul-2001	Jun-2006	

Total amount of MB phased out (ODP tonnes):

	<2000	2001	2002	2003	2004	2005	2006	2007	2008	2009>	Total
Proposed				28.0			48.2				76.2
Actual											

Total funds approved by the Executive Committee (US\$):

Approved	805,000										805,000
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Total funds disbursed by UNDP to the Government of Chile (US\$):

Proposed		161,000	161,000	161,000	161,000	161,000					805,000
Actual											0

Current status of project implementation:

Technical trials (substrates & steam) continued during year 2003. Technical training mission for nursery technicians has taken place in May, 2003. Equipment and materials have been procured. Training by national project team is on-going. Policy action plan was launched with the Ministry of Agriculture. Active Monitoring and Evaluation system is in place.

MB consumption reported to the Ozone Secretariat (ODP tonnes)

1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	Baseline
	372.0	720.0	1,356.0	1,960.2	1,598.4	2,100.6	1,567.8	1,087.8		1,102.1

Project proposal:National phase-out of methyl bromide (CPR/FUM/41/INV/407), implemented by UNIDO

MB is used in the fumigation of soil for the production of strawberry, cucumber, tomato, eggplant, hot pepper, flowers and tobacco, and for the fumigation of commodities. The strategy to phase out MB production and consumption will be based on the following principles: enforce production and imports restrictions with a production and import quota system in order to comply with 2005 reduction of consumption; issue licenses for QPS applications for controlling QPS consumption; control MB consumption in the tobacco sub-sector under support of STMA and in the fumigation of commodities under support of State Bureau of Grain Reserve; implement training programmes to transfer the necessary alternate technologies to all MB users; make MB phase out verifiable at the country, state and growers levels; and give priority to the following crops/applications for which alternative technologies are already in use: tobacco seedbeds (floating technology is already in use by 50,000 growers); commodities fumigation (more than 4,000 tonnes of phosphine are already used); cucumbers and eggplants (where farmers have developed simple grafting techniques in use by more than 5,000 growers). The proposed MB alternative technologies by crop/application are as follows: strawberry: metam sodium injected into the soil; cucumber: grafting; tomato: metam sodium injected into the soil; eggplant: floating tray system in micro-tunnels; hot pepper: metam sodium injected into the soil; tobacco: floating tray system; flowers: sterilization; commodities: phosphine (tablets or pellets)

Approved on the understanding that the Government would have flexibility in utilizing the resources available for the phase out of methyl bromide in any crop or application it deems more appropriate; and UNIDO is requested to assist the Government to work towards the completion of a project proposal for the phase out of all controlled uses of MB for submission to the Executive Committee.

Project implementation dates:

Date of approval	Signature agreement	Start-up date	1st disbursement	Completion (proposal)	Actual completion
Dec-2003	Dec-2003	Dec-2003	Apr-2004	Jul-2006	

Total amount of MB phased out (ODP tonnes):

	<2000	2001	2002	2003	2004	2005	2006	2007	2008	2009>	Total
<i>Proposed</i>						389.0					389.0
<i>Actual</i>											

Total funds approved by the Executive Committee (US\$):

<i>Approved</i>				4,086,600							4,086,600
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Total funds disbursed by UNIDO to the Government of China (US\$):

<i>Proposed</i>											0
<i>Actual</i>											0

Current status of project implementation:

Mission to Beijing in Feb 2004 to agree on implementation modalities.

MB consumption reported to the Ozone Secretariat (ODP tonnes)

1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	Baseline
300.0	251.6	275.9	405.6	436.7	454.1	390.0	390.0	280.0		342.5

Project proposal:

Total methyl bromide phase-out used as a fumigant in melons, cut flowers, bananas, tobacco seedbeds and nurseries, excluding QPS applications (COS/FUM/35/INV/25), implemented by UNDP

Replacement of MB with solarization in combination with alternative chemicals (including 1,3-dichloropropene and metam sodium), bio-fumigation, floating tray system (tobacco seedbeds) and steam pasteurization (cut flower crops), in combination with an integrated pest management (IPM) programme (the technologies were selected on the basis of the results from the 2 demonstration projects on alternatives to the use of MB in melons and cut flower crops). The use of chemical alternatives requires modification of the irrigation systems currently available, rotovators and temperature monitors. Steam pasteurization technology requires 16 boilers and temperature monitors. The floating tray system requires the construction of micro-tunnels, manual seeders and conductivity meters. Incremental operating costs have not been claimed. The Government will implement a package of policy measures to ensure that the MB phased out will not be re-introduced at a later stage. The action plan will also ensure that the implemented alternatives to MB will be economically sound and environmentally sustainable. A labeling and certification system is envisaged as one part of the plan. MB import control systems and regulations will also be adopted/amended as necessary.

The Executive Committee agrees to approve, in principle, US \$4,845,283 as the total funds that will be available to achieve the phase-out of methyl bromide used for all purposes in Costa Rica, excluding quarantine and pre-shipment applications (for a total phase out of 426.9 ODP tonnes at a cost effectiveness of US \$11.35/kg), subject to the conditions agreed between the Government of Costa Rica and the Executive Committee.

Project implementation dates:

Date of approval	Signature agreement	Start-up date	1st disbursement	Completion (proposal)	Actual completion
Dec-2001	Jul-2003		Feb-2003	Dec-2007	

Total amount of MB phased out (ODP tonnes):

	<2000	2001	2002	2003	2004	2005	2006	2007	2008	2009>	Total
<i>Proposed</i>			84.4		89.0		83.6	169.9			426.9
<i>Actual</i>											

Total funds approved by the Executive Committee (US\$):

<i>Approved</i>		1,211,321									1,211,321
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Total funds disbursed by UNDP to the Government of Costa Rica (US\$):

<i>Proposed</i>		1,211,321	969,057	969,057	969,057		726,791				4,845,283
<i>Actual</i>											0

Current status of project implementation:

Project launched in mid-03 after delays due to concerns of private sector participants overcome. A national Project Manager (former Minister of Agriculture, indicative of high-level commitment by Government and stakeholders to the process) was appointed and the project team was organised. A work plan was approved by the National Steering Committee and the procurement process was launched. After initial delays, the project is now on track.

MB consumption reported to the Ozone Secretariat (ODP tonnes)

1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	Baseline
13.2	9.0	2.9	8.6	12.0	0.0	11.1	18.0	12.0		8.1

Project proposal:

Phase-out the use of methyl bromide commodities and storage fumigation (IVC/FUM/42/INV/19), implemented by UNIDO

Phase out all controlled uses of MB used for fumigation of commodities by converting to phosphine in carbon dioxide (ecofume technology), applied through the same pipes currently used for MB. The main differences between MB and the use of phosphine in carbon dioxide is the exposition time (1.5 days for MB and 3 days for ecofume under climatic conditions in Cote d'Ivoire), and the need to permanently and accurately monitor phosphine levels during treatment. The materials required are additional polythene cotton sheets to compensate for the longer exposure time required, phosphine detectors and masks for monitoring. Operating savings (4 years NPV) have been estimated. It will be implemented by UNIDO in coordination with the Ozone Unit and the Ministry of Agriculture.

Approved in accordance with the Agreement between the Government and the Executive Committee.

Project implementation dates:

Date of approval	Signature agreement	Start-up date	1st disbursement	Completion (proposal)	Actual completion
Apr-2004		Apr-2004	Apr-2004	Oct-2006	

Total amount of MB phased out (ODP tonnes):

	<2000	2001	2002	2003	2004	2005	2006	2007	2008	2009>	Total
<i>Proposed</i>					2.2	2.5	3.8				8.5
<i>Actual</i>											

Total funds approved by the Executive Committee (US\$):

<i>Approved</i>					222,210						222,210
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Total funds disbursed by UNIDO to the Government of Cote D'Ivoire (US\$):

<i>Proposed</i>											0
<i>Actual</i>											0

Current status of project implementation:

Equipment purchase process will start in July 2004.

MB consumption reported to the Ozone Secretariat (ODP tonnes)

1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	Baseline
16.2	16.8	17.4	16.8	11.7	16.1	10.7	5.4	0.9		15.7

Project proposal:**Phase-out of methyl bromide in tobacco seedlings (CRO/FUM/35/INV/14), implemented by UNIDO**

Installation of micro-tunnels, covered with polyethylene sheets, with plastic trays, a training programme in the use of the alternative technologies (to be organized in collaboration with the Tobacco Institute, Zagreb. Approximately 2,870 farmers will be trained in the use of the floating tray system). The Government is committed to phase out the entire consumption of MB by 2006, with a proposed phase out of 5.4 ODP tonnes each year. Upon completion of the project, the Government will issue a regulation forbidding the use of MB in soil fumigation in the country.

Approved on an exceptional basis, given the unfavourable cost-effectiveness of about US\$30 per kg; the Government of Croatia called upon to undertake the utmost efforts to ensure cost-effectiveness and savings in the implementation of the project and full compliance with the phase-out schedule. The project is to be implemented in accordance with the conditions for the phase-out of methyl bromide agreed between the Government of Croatia and the Executive Committee.

Project implementation dates:

Date of approval	Signature agreement	Start-up date	1st disbursement	Completion (proposal)	Actual completion
Dec-2001	Nov-2002	Jan-2002	Jul-2002	Jan-2007	

Total amount of MB phased out (ODP tonnes):

	<2000	2001	2002	2003	2004	2005	2006	2007	2008	2009>	Total
<i>Proposed</i>			3.2	3.2	3.2	3.2	3.4				16.2
<i>Actual</i>			6.2	3.2							9.4

Total funds approved by the Executive Committee (US\$):

<i>Approved</i>		476,833									476,833
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Total funds disbursed by UNIDO to the Government of Croatia (US\$):

<i>Proposed</i>			14,242	97,900							112,142
<i>Actual</i>											0

Current status of project implementation:

Equipment delivered and phase out of 3.2 tonnes occurred in 2003. An additional phase out of 6.8 tonnes is expected in 2004.

MB consumption reported to the Ozone Secretariat (ODP tonnes)

1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	Baseline
27.0	48.0	63.3	19.8	70.8	62.1	22.8	15.2	21.1		50.5

Project proposal:**Phasing out methyl bromide in the tobacco sector (CUB/FUM/26/INV/11), implemented by UNIDO**

The proposed technology involves the use of soil-less floating seedbeds inside plastics, tunnel-shaped greenhouses. In 1996 the floating tray technology was introduced in the country on an experimental basis, and has now been optimized. According to data from the Cuban Tobacco Institute, the transplants produced by this method are of the best quality and at almost the same operational cost as those produced by the traditional system. The capital cost is for the construction of the tunnel-shaped greenhouses. Training programmes would be implemented in order to transfer the technology to more than 2,000 farmers and cooperative personnel. Incremental operating savings were calculated for 4 years at net present value based on the costs of raw material (methyl bromide, seeds, substrate, Trichoderma), plastic sheets, labor and rental of seedbed land). At the end of the project the use of methyl bromide in tobacco cultivation will be de-certified, and a ministerial decree will be issued sanctioning the use of methyl bromide in tobacco cultivation.

The implementing agency was requested to confer with the Government of Cuba to see if it would be possible to implement the project in less than four years.

Project implementation dates:

Date of approval	Signature agreement	Start-up date	1st disbursement	Completion (proposal)	Actual completion
Nov-1998	Nov-1998	Dec-1998	Mar-1999	Dec-2002	Dec-2001

Total amount of MB phased out (ODP tonnes):

	<2000	2001	2002	2003	2004	2005	2006	2007	2008	2009>	Total
<i>Proposed</i>	19.2	9.6	9.6	9.6							48.0
<i>Actual</i>	32.0	16.0									48.0

Total funds approved by the Executive Committee (US\$):

<i>Approved</i>	1,673,324										1,673,324
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Total funds disbursed by UNIDO to the Government of Cuba (US\$):

<i>Proposed</i>											0
<i>Actual</i>	1,310,304	161,927	138,040	21,213							1,631,484

Current status of project implementation:

Financial completion in December 2003.

MB consumption reported to the Ozone Secretariat (ODP tonnes)

1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	Baseline
49.2	69.0	101.9	102.0	144.0	77.4	176.4	144.0	77.1		104.2

Project proposal:**Phase-out of methyl bromide in melon, flowers and tobacco (DOM/FUM/38/INV/33), implemented by UNIDO**

The selected alternatives are alternative chemicals in combination with solarization (melons), steam pasteurization (cut flowers) and the floating tray system (tobacco). A demonstration project was completed in 2001 and the alternative technologies proven to be technically and economically viable for the prevailing conditions in the country. Specifically, steaming, alternative chemicals (metam sodium and telone) and the floating tray system, have been selected by the farmers to be applied according to specific locations and crops. The use of steam pasteurization in cut flowers crops requires 6 boilers; the floating tray system requires installation of micro-tunnels, with floating trays and conductivity meters. It also includes a training programme and one international consultant. The Government is committed to a permanent reduction in aggregate consumption of controlled uses of MB, and to achieve the complete phase out of MB by 2006, through the implementation of the project in full.

The Executive Committee noted that Dominican Republic's baseline consumption of MB is 104 ODP tonnes, its latest MB consumption reported for 2001 to the Ozone Secretariat is 141 ODP tonnes and, therefore, Dominican Republic might not be in compliance with the 2002 freeze target; agreed that, notwithstanding this fact, and without prejudice to the operation of the Montreal Protocol's mechanisms dealing with non-compliance issues, funding of \$922,900 plus agency support costs is approved in the accordance with the agreement between the Government of Dominican Republic and the Executive Committee approved at the 38th Meeting

Project implementation dates:

Date of approval	Signature agreement	Start-up date	1st disbursement	Completion (proposal)	Actual completion
Nov-2002				Dec-2006	

Total amount of MB phased out (ODP tonnes):

	<2000	2001	2002	2003	2004	2005	2006	2007	2008	2009>	Total
<i>Proposed</i>				40.0		60.0	41.0				141.0
<i>Actual</i>				40.0							40.0

Total funds approved by the Executive Committee (US\$):

<i>Approved</i>			922,900								922,900
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Total funds disbursed by UNIDO to the Government of Dominican Republic (US\$):

<i>Proposed</i>				323,015	323,015	276,870					922,900
<i>Actual</i>				1,763							1,763

Current status of project implementation:

Agreement between the ozone office and the users are under preparation. 40 tonnes of ODS phased out in 2003.

MB consumption reported to the Ozone Secretariat (ODP tonnes)

1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	Baseline
74.4	39.4	70.0	64.3	91.2	122.4	122.4	369.8	40.8		66.2

Project proposal:

Demonstration/technical assistance project for testing methyl bromide alternatives in soil treatment for the flower growing industry (ECU/FUM/26/TAS/23), implemented by IBRD

To demonstrate the application of alternatives to methyl bromide to control pests in flowers (roses and carnations) grown in greenhouses in 4 production areas: Imbabura, Pichincha, Cotopaxi and Azuay. Alternatives to be tested include a combination of solarization, steam pasteurization, substrate modifications, alternative agro-chemicals in low doses and an integrated pest management system (IPM). Each of the alternatives to be tested will include a minimum of 3 field tests in each of the production areas. The expected results are an analysis of utilization of proposed alternatives to methyl bromide, training of at least 5 agronomists and/or crop specialists and dissemination of the results of the demonstration project.

At its 40th Meeting the Executive Committee decided to reclassify the project as a technical assistance project and note that it would achieve additional phase-out of 15 ODP tonnes

Project implementation dates:

Date of approval	Signature agreement	Start-up date	1st disbursement	Completion (proposal)	Actual completion
Nov-1998	Mar-2003	Dec-2003	Dec-2003	Nov-2005	

Total amount of MB phased out (ODP tonnes):

	<2000	2001	2002	2003	2004	2005	2006	2007	2008	2009>	Total
<i>Proposed</i>					15.0						15.0
<i>Actual</i>											

Total funds approved by the Executive Committee (US\$):

<i>Approved</i>	244,244										244,244
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Total funds disbursed by IBRD to the Government of Ecuador (US\$):

<i>Proposed</i>	50,000										50,000
<i>Actual</i>	50,000										50,000

Current status of project implementation:

Six alternative treatments are being tested in the province of Cotopaxi. First results expected by May 2004. Dissemination workshop planned for the second half of 2004. No information on the outcome of the trials available to the Bank yet.

Project proposal:

Technology change for the phase-out of methyl bromide in the rose plant nursery sector (ECU/FUM/38/INV/31), implemented by IBRD

Production under the alternative technology proposed consists of cultivating the graft in a carrier plant, under protected greenhouse conditions; once the graft is strong, it is transplanted into the coconut substrate and wrapped in biodegradable paper. Once the plant reaches maturity, it is stored and prepared for shipping. The plant grown under the proposed alternative is more delicate and requires careful handling during harvesting. In addition, the transportation cost increases because of the higher weight of the plant (wrapped with leaves and hydrated coconut substrate). The company is committed to provide additional financial resources associated with the alternative technology, namely civil works and part of the training costs. The Government is committed to reduce the consumption of MB in the country and in consultation with major stakeholders, will develop policy measures to ensure that the MB phased out in this project will not be re-introduced.

Approved on the understanding that: (a) Ecuador has a baseline consumption of 66.2 ODP tonnes; (b) Ecuador will maintain compliance with the MB freeze during 2003 and 2004; (c) a 56% reduction in the MB baseline consumption will be achieved through implementation of the project, bringing the national level of consumption of controlled uses of MB to a maximum level of 29 ODP tonnes by January 2005; (d) the Government of Ecuador commits to permanently sustain this reduction at the maximum level of consumption of controlled uses of MB (29 ODP tonnes) through implementation of the project and the use of import restrictions and other policies that it might deem necessary; and (e) the World Bank will report to the Executive Committee annually on progress in this project and in full in 2006 once the project had been completed and the phase-out under the project had been achieved

Project implementation dates:

Date of approval	Signature agreement	Start-up date	1st disbursement	Completion (proposal)	Actual completion
Nov-2002	May-2003	Dec-2003	Dec-2003	Nov-2005	

Total amount of MB phased out (ODP tonnes):

	<2000	2001	2002	2003	2004	2005	2006	2007	2008	2009>	Total
<i>Proposed</i>					37.2						37.2
<i>Actual</i>	59,794.0										59,794.0

Total funds approved by the Executive Committee (US\$):

<i>Approved</i>	597,945		597,945								1,195,890
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Total funds disbursed by IBRD to the Government of Ecuador (US\$):

<i>Proposed</i>											0
<i>Actual</i>	59,794										59,794

Current status of project implementation:

Project not yet started. Due to the status of implementation no technical information available yet.

MB consumption reported to the Ozone Secretariat (ODP tonnes)

1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	Baseline
90.0	270.0	190.2	252.0	240.0	409.2	420.0	432.0	270.0		238.1

Project proposal:

National phase-out of methyl bromide in horticulture and commodities fumigation (EGY/FUM/38/INV/86), implemented by UNIDO

Phase out of MB used for soil fumigation in strawberry, flowers, cucumber, pepper, melon, medicinal plants and lettuce crops and fumigation of commodities and structures in Egypt, representing 49 per cent of the total MB consumption in the country.

Implementation of the project will achieve the 20 per cent reduction in MB baseline consumption by 2005.

The selected alternative technologies, for each of the crops and applications where MB is currently used, including the estimated costs are the following: Medicinal and lettuce (9.9 tonnes) soilless and substrates; cut flowers (28.0 tonnes) steam pasteurization; strawberry (89.1 tonnes) bio-fumigation; strawberry nursery (32.8 tonnes) steam pasteurization; melon and cucumber (38.7 tonnes) grafting; pepper (16.1 tonnes) soilless and substrates; tomato (13.1 tonnes) bio-fumigation; commodities fumigation (114.0 tonnes) phosphine fumigation; and structural fumigation (36.0 sulphuryl fluoride). The equipment include steaming equipment for cut flowers and strawberry nurseries; mixing and blending equipment for tomato and strawberry production; grafting equipment for melon and cucumber; equipment for expanding bio-antagonist inoculums; phosphine and sulphuryl fluoride fumigation equipment. The Government is committed to a permanent reduction in aggregate consumption of controlled uses of MB, through import restrictions and controlled uses of MB for all non-exempt uses. The Government is also committed to complete phase-out the use of MB by 2009, through the implementation of the project.

Approved on the understanding that Egypt will: (a) meet the MB freeze consumption during 2003 and 2004; (b) permanently sustain the reduction in the consumption of MB through the implementation of this project component, bringing the total aggregate national consumption in controlled uses of MB to 190.4 ODP tonnes. This will enable Egypt to achieve the 20 % reduction in the baseline consumption by 2005; (c) completely phase-out MB consumption by 2009, bringing the national aggregate consumption of controlled uses of MB down to zero, provided that a second portion of the project (agreed funding of \$2,259,408) is approved; and (d) sustain this phase-out of MB agreed above through import restrictions and controlled use of MB for all non-exempt MB uses

Project implementation dates:

Date of approval	Signature agreement	Start-up date	1st disbursement	Completion (proposal)	Actual completion
Nov-2002	Nov-2002	Jan-2003	Sep-2003	Nov-2006	

Total amount of MB phased out (ODP tonnes):

	<2000	2001	2002	2003	2004	2005	2006	2007	2008	2009>	Total
<i>Proposed</i>					80.0	105.6					185.6
<i>Actual</i>											

Total funds approved by the Executive Committee (US\$):

<i>Approved</i>			2,750,592								2,750,592
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Total funds disbursed by UNIDO to the Government of Egypt (US\$):

<i>Proposed</i>											0
<i>Actual</i>				3,209							3,209

Current status of project implementation:

Agreement was signed by the Ministry of Environment. Phase-out should occur upon completion of the project

MB consumption reported to the Ozone Secretariat (ODP tonnes)

1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	Baseline
	21.0	14.4	10.8	8.4	10.5	13.2	10.8	10.5		13.7

Project proposal:

Technical assistance for the phase-out of methyl bromide for soil fumigation (GEO/FUM/37/TAS/13), implemented by UNIDO

The alternatives selected are solarization combined with alternative chemicals (metam sodium, dazomet, oxamyl), bio-fumigation and soiless cultivation, in combination with an integrated pest management programme. The application of metam sodium requires installation of polyethylene pipes, a storage tank and a pump to inject the pesticide into the irrigation flow. Soiless cultivation requires installation of an irrigation system including polyethylene pipes, pump, valves, manometers, and other accessories. Biofumigation requires installation of polyethylene pipes, pressure regulators, valves and other accessories

Approved on the understanding that it was a technical assistance programme that would achieve a phase-out of 6 ODP tonnes of methyl bromide, representing the entire consumption for soil fumigation

Project implementation dates:

Date of approval	Signature agreement	Start-up date	1st disbursement	Completion (proposal)	Actual completion
Jul-2002	Jul-2002	Aug-2002	Feb-2003	Aug-2006	

Total amount of MB phased out (ODP tonnes):

	<2000	2001	2002	2003	2004	2005	2006	2007	2008	2009>	Total
<i>Proposed</i>							6.0				6.0
<i>Actual</i>											

Total funds approved by the Executive Committee (US\$):

<i>Approved</i>			220,000								220,000
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Total funds disbursed by UNIDO to the Government of Georgia (US\$):

<i>Proposed</i>											0
<i>Actual</i>				34,828							34,828

Current status of project implementation:

Sub contract signed, first progress report was sent, workshop done and the first phase completed. Phase-out should occur upon completion of the project

MB consumption reported to the Ozone Secretariat (ODP tonnes)

1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	Baseline
0.0	0.0	0.0	0.0	0.0	4.5	6.3	0.0	0.0		0.0

Project proposal:

Training programme for terminal phase-out of methyl bromide use, excluding QPS applications (GHA/FUM/37/TRA/18), implemented by UNDP

Phase out 6.3 ODP tonnes of MB used for soil fumigation of melons through training and demonstration of alternatives to the use of MB. It will be implemented in 2 stages: Stage I, development of policy package to freeze and reduce MB consumption, initial training and installation of alternatives, demonstration and adaptation of alternatives to local conditions; Stage II, training and installation of alternatives on remaining farms. Alternatives will be transferred from other countries and adapted to local conditions

Project implementation dates:

Date of approval	Signature agreement	Start-up date	1st disbursement	Completion (proposal)	Actual completion
Jul-2002	Dec-2002	Oct-2002		Aug-2005	

Total amount of MB phased out (ODP tonnes):

	<2000	2001	2002	2003	2004	2005	2006	2007	2008	2009>	Total
<i>Proposed</i>						6.3					6.3
<i>Actual</i>											

Total funds approved by the Executive Committee (US\$):

<i>Approved</i>			101,550								101,550
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Total funds disbursed by UNDP to the Government of Ghana (US\$):

<i>Proposed</i>											0
<i>Actual</i>				25,105							25,105

Current status of project implementation:

Formal National Steering Committee established in late 2002 to guide implementation of the project. Policy work conducted and Ozone Depleting Regulations updated in 2003, as per requirements of Phase I of the project. Training mission to train-the trainers scheduled in 2nd quarter of 2004, with further training and adoption of alternatives to continue. Project on track.

MB consumption reported to the Ozone Secretariat (ODP tonnes)

1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	Baseline
57.0	242.7	255.6	525.0	579.5	514.6	702.0	786.6	709.4		400.7

Project proposal:

National phase out of methyl bromide (GUA/FUM/38/INV/29), implemented by UNIDO

Phase out of MB used for soil fumigation in melon, tomato, strawberry and cut flowers crops in Guatemala (60% of the total consumption). The total surface area where melons are produced and MB is applied is 4,665 ha. Of this area, 1,208 ha are owned by non-Article 5 companies, with a total MB consumption of 217.4 ODP tonnes of MB. The selected alternatives are grafting (melons), metam sodium in combination with solarization (tomatoes) and steam pasteurization of the substrate (cut flowers and strawberries). Grafting requires the installation of greenhouses and an acclimatized workshop for grafting, a sowing machine, a germination room, and trays. The application of metam sodium in combination with solarization requires modification to the irrigation system. The use of steam pasteurization in cut flowers and strawberry crops requires 24 boilers of different capacities, a pasteurization kit (PVC sheets with steam inlets) and a pasteurization tunnel. The Government is committed to a permanent reduction in aggregate consumption of controlled uses of MB, banning its use in soil fumigation and any other non-critical uses. The Government is also committed to a complete phase-out in the use of MB by 2008, through the implementation of the project.

The Executive Committee: (a) noted that Guatemala's baseline consumption of MB is 400.7 ODP tonnes, its latest MB consumption reported for 2001 to the Ozone Secretariat is 788.6 ODP tonnes and, therefore, Guatemala might not be in compliance with the 2002 freeze target; (b) agreed that, notwithstanding this fact, and without prejudice to the operation of the Montreal Protocol's mechanisms dealing with non-compliance issues, funding of \$3,257,377 plus agency support costs is approved on the basis that (i) the implementation schedule proposed in the project is planned to achieve a total reduction in consumption of 468 ODP tonnes in 2005; of this amount 100 tonnes would be reduced by non-Article 5 companies. Furthermore, 388 ODP tonnes would be reduced in the calendar year of 2004 and additional 80 ODP tonnes in the calendar year 2005 in order to enable Guatemala to meet the MB freeze and 2005 reduction targets, respectively; (ii) Guatemala commits to permanently sustain the reduction in the consumption of MB through the implementation of the project and the use of import restrictions and other policies that it might deem necessary, bringing the total aggregate national consumption in controlled uses of MB to 320.6 ODP tonnes. This will enable them to achieve the 20% reduction in the baseline consumption by 2005; (iii) Guatemala will completely phase-out MB consumption by 2008, bringing the national aggregate consumption of controlled uses of MB down to zero, provided that a second portion of the project (\$3,264,389) is approved; and (iv) Guatemala will sustain this phase-out of MB agreed above through import restrictions and controlled use of MB for all non-exempt MB uses

Project implementation dates:

Date of approval	Signature agreement	Start-up date	1st disbursement	Completion (proposal)	Actual completion
Nov-2002	Nov-2002	Dec-2002	Mar-2003	Nov-2008	

Total amount of MB phased out (ODP tonnes):

	<2000	2001	2002	2003	2004	2005	2006	2007	2008	2009>	Total
<i>Proposed</i>			79.2	181.4	36.0	132.0	25.0	25.0	24.0		502.6
<i>Actual</i>											

Total funds approved by the Executive Committee (US\$):

<i>Approved</i>			3,257,377								3,257,377
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Total funds disbursed by UNIDO to the Government of Guatemala (US\$):

<i>Proposed</i>											0
<i>Actual</i>				1,036,125							1,036,125

Current status of project implementation:

The working arrangement was signed. The first greenhouse units, for grafted plant production, have been delivered, installation is expected to be completed in January 2004. Delivering and installation of the second unit and completion of 2003/2004 crop season training is expected to be finalized by April 2004. The first tranche of equipment for metam sodium application has been delivered and installed, the related training course has been completed. The project will be completed by end 2008 in line with Dec. 42/14 (a) (b). After the 42nd Meeting of the Executive Committee, decision regarding the new phase out schedule, the project impact has been increased from 468 ODP tonnes to 502.6 ODP tonnes.

MB consumption reported to the Ozone Secretariat (ODP tonnes)

1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	Baseline
	249.9	254.9	263.8	269.1	292.1	377.7	510.9	412.5		259.4

Project proposal:

Phase-out of methyl bromide in melon and banana production sector and tobacco seedling (HON/FUM/37/INV/10), implemented by UNIDO

Phase out of MB used for soil fumigation in melon (360 ODP tonnes) and banana (38.2 ODP tonnes) production and tobacco seedlings (4.7 ODP tonnes) The alternatives are grafting (melons), dazomet in combination with glifosfate (banana) and the floating tray system (tobacco). Grafting requires the installation of greenhouses and acclimatized workshop for grafting, a sowing machine, a germination room, and trays. Tobacco seedbeds will be replaced with the floating tray system in micro-tunnels. Control of the moko disease in banana crops will be achieved through implementation of preventive measures and establishment of a monitoring system, and in cases of infection, through disinfestation of the soil with alternative chemicals. The Government has already issued a regulation banning use of MB in the horticultural sector by the end of 2010; the Government will set limits on the import and national sale of MB. Before completion of the project, the Government will strengthen its efforts to introduce labeling of vegetables produced without the use of MB

Approved noting that the Government of Honduras undertook to permanently sustain this reduction in the consumption of methyl bromide through implementation of the project and the use of import restrictions and other policies that it might deem necessary; requested UNIDO to report to the Executive Committee once the project had been completed and the phase-out under this project had been achieved; and noted that the Executive Committee would consider additional funding of the project for Honduras at that time, if it determined that an additional reduction was a priority

Project implementation dates:

Date of approval	Signature agreement	Start-up date	1st disbursement	Completion (proposal)	Actual completion
Jul-2002	Mar-2003	Aug-2002	Nov-2002	Aug-2007	

Total amount of MB phased out (ODP tonnes):

	<2000	2001	2002	2003	2004	2005	2006	2007	2008	2009>	Total
<i>Proposed</i>				42.5	63.9	106.6					213.0
<i>Actual</i>				102.9							102.9

Total funds approved by the Executive Committee (US\$):

<i>Approved</i>			1,977,454								1,977,454
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Total funds disbursed by UNIDO to the Government of Honduras (US\$):

<i>Proposed</i>											0
<i>Actual</i>			3,190	1,323,936							1,327,126

Current status of project implementation:

The first greenhouse units, for grafted plant production, have been delivered and installed, the first training have been performed. Delivering and installation of the second unit and completion of 2003/2004 crop season training is expected to be finalized in April 2004. The project will be completed by end 2005 in line with Dec. 42/14 (c). The MB consumption reported for 2003 is 309.6 ODP tonnes, corresponding to 102.45 ODP tonnes phased out instead of 42.5 ODP tonnes as planned.

MB consumption reported to the Ozone Secretariat (ODP tonnes)

1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	Baseline
138.6	152.4	118.8	145.2	126.0	0.0	0.0	75.6	37.8		135.6

Project proposal:**Phase-out of the use of methyl bromide in grain storage (IDS/FUM/41/INV/158), implemented by Canada**

To replace all controlled uses of MB in storage applications with phosphine tablets and an integrated stored pest management (ISPM) system. It includes implementation of an ISPM system, training for fumigators in the use of phosphine tablets, and the provision of basic tools and equipment for proper application of phosphine (such as phosphine meters, gas sampling lines and gas masks). It also includes a training programme (six trainers) on insect biology related to sanitation and proper use of equipment and methods of applying phosphine. The trainers will in turn train individuals within the fumigation companies. The ISPM system will be implemented through workshops and manuals amount of rice loss due to insects. BULOG will be the coordinating agency for the ISPM training and will provide the material and equipment required for this purpose. The programme also includes drafting and enforcement of policy, legislative and regulatory actions concerning the import and use of MB.

Approved on the understanding that this project would phase out all remaining controlled uses of methyl bromide and that the Government would not seek additional funding from the Multilateral Fund for the phase out of controlled uses of MB.

Project implementation dates:

Date of approval	Signature agreement	Start-up date	1st disbursement	Completion (proposal)	Actual completion
Dec-2003	Aug-2004	Sep-2004	Sep-2004	Dec-2007	

Total amount of MB phased out (ODP tonnes):

	<2000	2001	2002	2003	2004	2005	2006	2007	2008	2009>	Total
<i>Proposed</i>					9.0	9.0	9.0	10.8			37.8
<i>Actual</i>											

Total funds approved by the Executive Committee (US\$):

<i>Approved</i>				350,000							350,000
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Total funds disbursed by Canada to the Government of Indonesia (US\$):

<i>Proposed</i>					38,400	241,300	66,100	4,200			350,000
<i>Actual</i>											0

Current status of project implementation:

The project was approved at ExCom 41 in December 2003 and has not commenced its activities as of yet. An agreement between the Government of Canada, UNIDO and the Government of Indonesia is currently being discussed and is planned to be signed by August 2004. The first disbursement would be made in September 2004, the same time at which project activities would begin. For 2004, it is proposed the development and reproduction of good phosphine fumigation practices training manual and implementation of public awareness seminars. For 2005, it is proposed to the implementation of training workshops (good phosphine fumigation practices and ISPM train-the-trainers); development and reproduction of ISPM training manual; purchasing of equipment (phosphine fumigation equipment and ISPM equipment); development of policy and regulation framework; and project coordination and monitoring. For 2006, it is proposed the implementation of refreshment training in good phosphine fumigation practices, public awareness seminars and ISPM regional training workshops; and purchasing of additional ISPM equipment.

MB consumption reported to the Ozone Secretariat (ODP tonnes)

1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	Baseline
73.2	15.0	42.0	21.6	28.2	33.0	22.2	27.6	5.4		26.7

Project proposal:

Phasing out of the important non critical, non essential use of methyl bromide for post-harvest treatment (IRA/FUM/29/INV/57), implemented by UNIDO

Phase out all major non-critical, non-essential uses of MB in post-harvest treatment, including the fumigation of dried fruits and vegetables, nuts, grains and seeds, through the use of phosphine. It includes procurement of 100 phosphine detectors for monitoring fumigation space and 100 phosphine detectors for monitoring the surrounding work space, 50 self-contained breathing apparatus, international expertise and two 5-day training programmes. Contracts for implementation of the major project component will be awarded on the basis of competitive bids. Upon completion of the project, the Government will issue a regulation banning the use of MB in non-essential, non-critical stored commodity treatment of dried fruits, dried vegetables, nuts, grains and seeds, and will prohibit it for new applications in non-essential, non-critical treatment for stored commodities. It also agrees to counter the illegal import and use of MB in the country.

Project implementation dates:

Date of approval	Signature agreement	Start-up date	1st disbursement	Completion (proposal)	Actual completion
Nov-1999	Sep-2001	Jan-2000	Apr-2000	Dec-2001	

Total amount of MB phased out (ODP tonnes):

	<2000	2001	2002	2003	2004	2005	2006	2007	2008	2009>	Total
<i>Proposed</i>		12.4									12.4
<i>Actual</i>											

Total funds approved by the Executive Committee (US\$):

<i>Approved</i>	260,698										260,698
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Total funds disbursed by UNIDO to the Government of Iran (US\$):

<i>Proposed</i>											0
<i>Actual</i>	12,009	17,486	1,771	136,436							167,702

Current status of project implementation:

Training took place and equipment delivered. The project will be completed in 2004.

MB consumption reported to the Ozone Secretariat (ODP tonnes)

1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	Baseline
199.8	180.0	180.0	165.0	180.0	88.8	105.3	105.6	90.6		176.3

Project proposal:

Complete phase-out of the use of methyl bromide in Jordan (JOR/FUM/29/INV/54), implemented by Germany

Phased reduction and elimination of all controlled uses of MB in the country. This is the total funding that would be available to Jordan from the Multilateral Fund for the total permanent cessation of all uses of MB controlled by the Montreal Protocol (i.e. quarantine and preshipment use is currently exempt from this agreement). This agreement is predicated on the commitment by Jordan that it will not produce MB. If at any time, Jordan initiates production of MB, then this agreement becomes void, and all payments made pursuant to this agreement must be returned to the Multilateral Fund. Jordan agrees that in exchange for the funding level approved, it will reduce its total consumption/imports of MB (except for quarantine and preshipment uses, which are currently exempt) in accordance with the following schedule: 180 ODP in 2001; 108 ODP in 2004; 54 ODP tonnes in 2006; 27 ODP tonnes in 2008, 0 tonnes by 2015. The funds approved will be disbursed as follows. US \$1 million will be released upon approval at the 29th ExCom Meeting; an additional US \$1 million will be disbursed when Jordan demonstrates, based on audited data, that its consumption has achieved 108 ODP tonnes in 2004, or met the target of 108 ODP tonnes, whichever comes first; an additional US \$900,000 will be provided when Jordan has demonstrated that it has met its agreed target of 54 tonnes not later than 2006; the final funding would be made available to Jordan when it has met its target of 27 tonnes not later than 2008, and demonstrated that it has a sustainable plan to maintain and phase out the remainder of its controlled uses of methyl bromide use by 2015. The ExCom provides Jordan with maximum flexibility in using the agreed funds to meet the reduction requirements agreed. Jordan agrees that the funds agreed in principle for complete cessation of the use of MB for non-quarantine and preshipment uses is the total funding that will be available to it to enable its full compliance with the obligations it assumed above, as well as the obligations it currently has or may in the future assume under the Montreal Protocol, and that no additional Multilateral Fund resources will be forthcoming for any further activities related to the phase-out of MB. Jordan and the Multilateral Fund and its implementing agencies and bilateral donors will neither provide nor request further Multilateral Fund-related funding for the accomplishment of the total phase out of MB in accordance with the schedule noted above and the terms of the strategy being approved (this includes but is not limited to funding for farmer compensation and all technical assistance including training). Jordan understands that if the ExCom meets its obligations under this agreement, but Jordan does not meet the reduction requirements outlined (above), the implementing agency and Multilateral Fund will withhold funding for the subsequent tranche of funding until such time as the required reduction has been met. Jordan understands that the Multilateral Fund will reduce the subsequent tranche and therefore, total funding for the MB phase-out, on the basis of US \$20,000 per ODP tonne of reduction not achieved in any year of this agreement (NEP/OzL/Pro/ExCom/29/65 Annex V).

The Committee approved in principle a total of US \$3.4 million for the phased reduction and elimination of all controlled uses of MB as the total funding that would be available from the Fund for the total permanent cessation of all uses of MB controlled by the Protocol (quarantine and preshipment is exempt). Commitment by Jordan that it will not produce MB; if at any time, Jordan initiates production of MB, then this agreement becomes void, and all payments made pursuant to this agreement must be returned to the Fund. Jordan agrees that in exchange for the funding level, it will reduce its total consumption/imports of MB (except for quarantine and preshipment uses) in accordance with the following schedule: 180 ODP in 2001; 108 ODP in 2004; 54 ODP tonnes in 2006; 27 ODP tonnes in 2008, 0 tonnes by 2015 US \$1 million will be released upon approval at the 29th Meeting. An additional US \$1 million will be disbursed when Jordan demonstrates (audited data) that its consumption has achieved 108 ODP tonnes in 2004, or met the target of 108 ODP tonnes, whichever comes first. An additional US \$900,000 will be provided when it has met its agreed target of 54 tonnes not later than 2006. The final funding would be made available when it has met its target of 27 tonnes not later than 2008, and demonstrated that it has a sustainable plan to maintain and phase out the remainder of its controlled uses of MB use by 2015 (other specific conditions of the agreement are included in Annex V to the document UNEP/OzL.Pro/ExCom/29/65).

Project implementation dates:

Date of approval	Signature agreement	Start-up date	1st disbursement	Completion (proposal)	Actual completion
Nov-1999	Oct-2000	Mar-2000	Mar-2000	Dec-2008	

Total amount of MB phased out (ODP tonnes):

	<2000	2001	2002	2003	2004	2005	2006	2007	2008	2009>	Total
Proposed					72.0		54.0		27.0	27.0	180.0
Actual											

Total funds approved by the Executive Committee (US\$):

<i>Approved</i>	3,063,000										3,063,000
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Total funds disbursed by Germany to the Government of Jordan (US\$):

<i>Proposed</i>	1,000,000				1,000,000		900,000		163,000		3,063,000
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<i>Actual</i>											0
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Current status of project implementation:

MB consumption reported to the Ozone Secretariat (ODP tonnes)

1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	Baseline
216.0	195.0	204.0	236.4	234.6	60.0	92.6	90.0	139.1		217.5

Project proposal:

Technology transfer leading to methyl bromide phase-out in soil fumigation in cut flower component (KEN/FUM/38/INV/31), implemented by UNDP

Replacement of MB with steam pasteurisation and soilless media for cut flower crops. Steam requires 8 boilers and bunkers for steaming the substrate for roses; soilless media includes the use of cocopeat as substrate, receptacles for the media, an irrigation system including injection systems. It also includes training programme, technology transfer and policy development. It proposes to develop policy measures to ensure that the MB phased out will not be re-introduced at a later stage. It will be implemented jointly by the Government of Kenya (funded through a separate project) and by UNDP in co-operation with the Horticultural Crops Development Authority, the Flower Council, the Fresh Produce Exporters Association and the Agro-Chemicals Association under the national co-ordination of the Ozone Unit.

In accordance with the agreement between the Government of Kenya and the Executive Committee approved at the 38th Meeting

Project implementation dates:

Date of approval	Signature agreement	Start-up date	1st disbursement	Completion (proposal)	Actual completion
Nov-2002	Mar-2004			Dec-2009	

Total amount of MB phased out (ODP tonnes):

	<2000	2001	2002	2003	2004	2005	2006	2007	2008	2009>	Total
<i>Proposed</i>					10.0		21.0		22.0	10.0	63.0
<i>Actual</i>											

Total funds approved by the Executive Committee (US\$):

<i>Approved</i>			510,660								510,660
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Total funds disbursed by UNDP to the Government of Kenya (US\$):

<i>Proposed</i>			510,660	287,247	478,743		319,161				1,595,811
<i>Actual</i>											0

Current status of project implementation:

Project approved in Nov. 02. Project implementation delays were incurred in 2003 due to delays in project signature that resulted from a convoluted negotiation process amongst the different national stakeholders. UNDP reminded the Gov't continuously of the performance-based nature of the project & the need to reach specific phaseout levels of MB in order to secure additional funding in future. Interest generated amongst growers at national level during the preparatory phase of the project has nevertheless kept momentum high and growers are ready to launch project activities now that the Project Document is signed.

Project proposal:

Technology transfer leading to methyl bromide phase-out in soil fumigation in all other horticulture (KEN/FUM/39/INV/33), implemented by Germany

Replacement of MB with alternative chemicals for horticultural crops and a floating tray system in seedbeds. The alternative chemical (metam sodium) requires modification of the irrigation systems; the floating tray system requires the construction of micro-tunnels, manual seeders and conductivity meters. It also includes training programme, technology transfer and policy development. It proposes to develop policy measures to ensure that the MB phased out will not be re-introduced at a later stage. It will be implemented jointly by the Government of Kenya and by UNDP (funded through a separate project) in co-operation with the Horticultural Crops Development Authority, the Flower Council, the Fresh Produce Exporters Association and the Agro-Chemicals Association under the national co-ordination of the Ozone Unit.

To be implemented in accordance with the agreement between the Government of Kenya and the Executive Committee approved at the 38th Meeting.

Project implementation dates:

Date of approval	Signature agreement	Start-up date	1st disbursement	Completion (proposal)	Actual completion
Apr-2003	Feb-2004	Apr-2003	Jul-2003	Dec-2009	

Total amount of MB phased out (ODP tonnes):

	<2000	2001	2002	2003	2004	2005	2006	2007	2008	2009>	Total
<i>Proposed</i>					5.0		12.0		12.0	5.0	34.0
<i>Actual</i>											

Total funds approved by the Executive Committee (US\$):

<i>Approved</i>				287,247	172,347						459,594
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Total funds disbursed by Germany to the Government of Kenya (US\$):

<i>Proposed</i>				287,247	172,347	114,898					574,492
<i>Actual</i>											0

Current status of project implementation:

MB consumption reported to the Ozone Secretariat (ODP tonnes)

1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	Baseline
13.8	13.8	15.4	13.8	13.7	15.4	0.0	13.8	12.0		14.2

Project proposal:

Technical assistance project to install alternatives and phase-out methyl bromide (KYR/FUM/41/TAS/08), implemented by UNDP
 MB is mainly used for fumigation of stored wheat to control insect infestations and, to a lesser extent, in flour mills, dried fruit and nut storage, museums and other non-food locations. It proposes the transfer of alternative MB technologies from other countries and their adaptation to local conditions complemented with awareness raising, policy development and training for customs officers. For the second phase, it is proposed training for the remaining MB users and assistance to install alternative technologies. It will be implemented with assistance of the Ozone Centre's workers, the Expedition for Protection of Cereal Reserves and involvement of experts from other organizations.

Approved on the understanding that the Government will not seek additional funding for the phase-out of controlled uses of MB.

Project implementation dates:

Date of approval	Signature agreement	Start-up date	1st disbursement	Completion (proposal)	Actual completion
Dec-2003		Jun-2004		Dec-2008	

Total amount of MB phased out (ODP tonnes):

	<2000	2001	2002	2003	2004	2005	2006	2007	2008	2009>	Total
<i>Proposed</i>						3.0	3.5	3.5	4.2		14.2
<i>Actual</i>											

Total funds approved by the Executive Committee (US\$):

<i>Approved</i>				300,000							300,000
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Total funds disbursed by UNDP to the Government of Kyrgyzstan (US\$):

<i>Proposed</i>											0
<i>Actual</i>											0

Current status of project implementation:

Funds received from MLF Treasurer in February 2004. Project document sent to Government for signature. Work plan for 2004 formulated and to be endorsed by national stakeholders. Training to be organised for 3rd quarter 2004.

MB consumption reported to the Ozone Secretariat (ODP tonnes)

1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	Baseline
136.2	151.2	179.4	168.0	110.9	139.3	234.3	219.0	197.3		152.4

Project proposal:

Sectors phase-out of methyl bromide in vegetable, cut flower and tobacco production (LEB/FUM/34/INV/46), implemented by UNDP

The technologies selected are: solarization in combination with alternative chemicals (metam sodium, 1,3-dichloropropene) and bio-fumigation. The use of chemical alternatives requires modification of the irrigation systems currently available in farms. Replacement of MB in tobacco seedlings requires installation of micro-tunnels covered with polyethylene sheets, with 100 plastic trays. Replacement of MB in cut flowres requires mobile steam boilers with accessories. The Government will be responsible for providing the legal framework for phasing out MB uses; the required infrastructure for reaching the farmers involved; and the institutional support.

Project implementation dates:

Date of approval	Signature agreement	Start-up date	1st disbursement	Completion (proposal)	Actual completion
Jul-2001	Dec-2001	Nov-2001	Jan-2002	Dec-2002	

Total amount of MB phased out (ODP tonnes):

	<2000	2001	2002	2003	2004	2005	2006	2007	2008	2009>	Total
Proposed			25.8	36.0	54.0	36.0	34.3				186.1
Actual			26.0	39.8							65.8

Total funds approved by the Executive Committee (US\$):

Approved		800,000	600,000	500,000							1,900,000
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Total funds disbursed by UNDP to the Government of Lebanon (US\$):

Proposed		800,000	600,000	500,000	400,000	300,000					2,600,000
Actual		702,468	722,615								1,425,083

Current status of project implementation:

During 2003, a total of 1,472.5 dunums converted to the use of alternative technologies, resulting in an actual phase out of 39.76 ODP T of MeBr. The Year 2003 target was therefore exceeded by 10.44 %.

Project activities in the vegetable sector extended over 683 greenhouse sites located in the different agricultural areas of the country. A total of 2,049 farmers were trained on the appropriate application of the alternative methods proposed by the project. The number of farmers that chose non-chemical alternatives proposed by the project (solarization, biofumigation and grafted plants) increased from 85 % in 2002 to 96.63 % in 2003, and from 90 % to 96.54 % in terms of total phase out area.

The elimination of consumption was supported by the following activities: Train the trainers programme; Organization of farmers training sessions in North and South Lebanon and in the Beka'a; Procurement of alternatives and delivery of the alternatives to farmers having successfully completed a training programme; and, Coordination with the Ministry of Agriculture for the establishment of new legislation to control use of methyl bromide.

In coordination with the tobacco Régie of Lebanon and local NGOs, the Methyl Bromide Alternatives Project initiated its activities in the tobacco sector in February 2003, using the floating tray technique as the main alternative. Pool construction was launched and a technical training mission was hosted in August 2003.

In order to support the overall sustainability of the project, plant production residues, traditionally burned for disposal, causing negative air quality concerns, were composted, turning the waste into organic material suitable for use as a soil amendment. From an economic perspective this initiative contributes to reduction of production costs for farmers who can make use of the compost originating from their sites instead of purchasing organic material. In addition, Lebanese production capacity in grafted plants increased from one agricultural company to four in 2003, the results of positive promotion of the alternative by farmers. And lastly, a local initiative to recycle used polyethylene allowed farmers to be compensated for used PE by the tonne, while in turn also provided more cost-effective, locally produced materials required for the sustainable use of alternatives.

Completion (proposal) date for the project should read December 2006, not December 2002.

Project proposal:

Phase-out of methyl bromide for soil fumigation in strawberry production (LEB/FUM/34/INV/44), implemented by UNIDO

The technology selected is negative pressure steam which requires installation of pipes in the soil, an electric fan, and the use of 12

steam generators. The Government will be responsible for providing the legal framework for phasing out MB uses; the required infrastructure for reaching the farmers involved; and the institutional support.

Project implementation dates:

Date of approval	Signature agreement	Start-up date	1st disbursement	Completion (proposal)	Actual completion
Jul-2001	Jul-2001	Mar-2001	Apr-2002	Dec-2002	

Total amount of MB phased out (ODP tonnes):

	<2000	2001	2002	2003	2004	2005	2006	2007	2008	2009>	Total
<i>Proposed</i>			6.0	10.1	14.2	11.1	9.0				50.4
<i>Actual</i>			6.0	10.1							16.1

Total funds approved by the Executive Committee (US\$):

<i>Approved</i>		350,000	421,946	450,000							1,221,946
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Total funds disbursed by UNIDO to the Government of Lebanon (US\$):

<i>Proposed</i>		350,000	421,946	450,000	350,000	250,000					1,821,946
<i>Actual</i>			129,502	228,667							358,169

Current status of project implementation:

Phase I and phase II completed, phase III approved at the 41st Meeting of the Executive Committee (December 2003). Additional equipment and training expected in 2004 with a phase out of 14.20 tonnes. Due to the escalating cost of diesel oil, operating cost for soil steam pasteurization has increased sharply. At the present time soil steam pasteurization is not economically viable any more. The progress report has been submitted, asking to reorient the project implementation, as for decision Ex.I/2 para 2. - First Extraordinary Meeting of the Parties, Montreal, March 2004.

MB consumption reported to the Ozone Secretariat (ODP tonnes)

1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	Baseline
	12.0	12.0	12.0	12.9	27.2	23.4	19.9	5.3	0.0	12.2

Project proposal:

Phase-out of methyl bromide in tobacco seedling and horticulture production sector (MDN/FUM/32/INV/16), implemented by UNIDO

The alternative technology to replace MB in the production of tobacco seedlings is the floating tray system, which requires installation of micro-tunnels with a surface area of 10 m², covered with polyethylene sheets, with 36 plastic trays. The alternative technology selected for the seedlings in greenhouses and protected crops is solarization in combination with biofumigation (farmers readily accept this alternative technology since it is an effective method for soil treatment, improves soil fertility and is cheap). It also includes training programmes in the use of the alternative technologies, which is organised in collaboration with the kombinats and provided by the staff of the Faculty of Agriculture. Approximately 12,570 farmers will be trained in the use of the floating tray system including installation of micro-tunnels; handling and cleaning a seeder and pelletized seeds; preparation of trays; monitoring water conductivity; clipping the seedlings; selecting pesticides; transplanting of the seedlings to an open field; in addition, 1,200 farmers will be trained in the use of solarization in combination with biofumigation technology

UNIDO will disburse the funds approved in tranches according to the proposed methyl bromide phase out schedule indicated in the agreement between the Government and the Committee; if Macedonia does not meet the reduction requirements outlined in the agreement, UNIDO will withhold funding for the subsequent tranche until such time as the required reduction has been met. Also, UNIDO will submit an annual progress report on the implementation of the project to the Fund Secretariat

Project implementation dates:

Date of approval	Signature agreement	Start-up date	1st disbursement	Completion (proposal)	Actual completion
Dec-2000	Dec-2000	Dec-2000	Oct-2001	Jan-2006	

Total amount of MB phased out (ODP tonnes):

	<2000	2001	2002	2003	2004	2005	2006	2007	2008	2009>	Total
<i>Proposed</i>			15.0	2.5	1.9	7.8					27.2
<i>Actual</i>			15.0	4.4							19.4

Total funds approved by the Executive Committee (US\$):

<i>Approved</i>	1,075,207										1,075,207
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Total funds disbursed by UNIDO to the Government of Macedonia (US\$):

<i>Proposed</i>	322,562		268,802	268,802	215,041						1,075,207
<i>Actual</i>		247,190	673,760	50,800							971,750

Current status of project implementation:

Training of farmers continued as planned and 4.4 tonnes of ODS phased out in 2003 including the planned phase out of 1.9 tonnes of 2004. Progress Report submitted to the 41st ExCom Meeting.

MB consumption reported to the Ozone Secretariat (ODP tonnes)

1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	Baseline
121.8	98.2	124.8	102.0	126.0	129.0	79.2	68.0	55.4		112.7

Project proposal:

Second payment under the national programme for the phase out of all non-essential and non-quarantine and pre-shipment applications of methyl bromide (MLW/FUM/34/INV/16), implemented by UNDP

The main activities to be implemented are: train of trainers and farmers in construction and use of micro-tunnel float system, use of basamid and IPM programmes; visit a country where the floating tray system is already implemented by representatives of farmers and trainers; construction of micro-tunnels by farmers, led by trainers; preparation by farmers of seedbeds with basamid; monitor performance of alternatives versus MB (such as seed germination rate, seedling survival, seedling growth, transplant survival; tobacco yields, quality and grade of leaf, costs); farm visits by trainers to follow up and on-site assistance; continuous training of farmers for later sowings; preparation of additional basamid beds for late sowing; field days for farmers and technicians to see alternative plots to MB; farmer-to-farmer information exchange; discuss with potential local suppliers of trays and soilless media and develop a plan for future in-situ production (possibly by 2003); prepare detailed workplan for implementation of Phase II; preparation for video; review and amend work plan for 2002 as required and necessary; preparation and dissemination of information through ARET'S phone hotline, including comparison of yields, tobacco leaf quality, costs, profits, and farmer views and 2-day workshop with trainers and farmers to get feedback before submission of a full report.

Project implementation dates:

Date of approval	Signature agreement	Start-up date	1st disbursement	Completion (proposal)	Actual completion
Jul-2001	Apr-2001		Apr-2002	Aug-2002	

Total amount of MB phased out (ODP tonnes):

	<2000	2001	2002	2003	2004	2005	2006	2007	2008	2009>	Total
<i>Proposed</i>		19.3	20.9	41.1	49.3						130.6
<i>Actual</i>											

Total funds approved by the Executive Committee (US\$):

<i>Approved</i>		1,000,000		750,000							1,750,000
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Total funds disbursed by UNDP to the Government of Malawi (US\$):

<i>Proposed</i>		1,000,000	750,000	1,249,824							2,999,824
<i>Actual</i>											0

Current status of project implementation:

To date, a total of 77.51 ODP T of Methyl Bromide have been phased out. In 2001, 18.45 ODP T were phased-out, in 2002, 24.35 ODP T were phased out, and in 2003, phase out of 34.71 ODP T was achieved, falling slightly short of the 41.1 ODP T goal. This shortfall will be addressed during 2004, thanks to the strong national commitment to the project's aims.

The project contracted a regional consultant from Zimbabwe, Dr. Upenyu Mazarura, an expert in floating tray systems to conduct training and lead field days. ARET scientists and extension staff trained by Dr. Mazarura continued to conduct training over the remainder of the year. A total of 15 field days and demonstrations were organized for commercial and smallhold farmers and extension officers, with members of government, NGOs, the Tobacco Association of Malawi (TAMA) and members of the press invited to attend. In total 783 people received training in 2003 in situ on producing farms and estates. These sessions were organized in close cooperation with companies that supply alternatives to MeBr in order to allow farmers to evaluate their respective effectiveness and use

In 2003, the project intensified research to produce substrates locally using pine bark, through consultation with a local company, Wood Industries Corporation (WICO). Such initiative is aimed at encouraging long term sustainability of the MeBr phase-out achieved.

Amendments to Malawi's Environmental Management Act, to include MeBr control, that have been submitted to Ministry of Justice and will allow for enforcement of the ban on MeBr after 31st December 2004.

The Project is implemented by the Environmental Affairs Department through Agricultural Research and Extension Trust (ARET). Project implementation is guided by the Project Steering Committee (PSC) which is chaired by the Ministry of Agriculture,

Irrigation and Food Security. Other members of the PSC include Environmental Affairs Department as secretariat, ARET as executing agency, Tobacco Association of Malawi (TAMA), Pesticide Association of Malawi, Agricultural Development and Marketing Corporation (ADMARC), Ministry of Finance, Bunda College of Agriculture, Coordination Unit for Rehabilitation of Environment (CURE), National Smallholder Farmers Association of Malawi (NASFAM), Pesticides Control Board and UNDP-Malawi.

The information under the section entitled "Total funds disbursed to the Government by the bilateral/implementing agency" should be revised. In 2000, US \$400,000 of the total approval value (US\$2,999,824) was approved and disbursed as a 'demonstration' component of the overall phase-out project. As a result, the value of the final tranche of funding stands at US \$849,824, to be disbursed in 2004. In addition, the US \$750,000 tranche under this section should fall under the year 2003, as it was only requested and approved for disbursement in July 2003. The US \$1,000,000 tranche, while approved in 2001, was only disbursed over the course of late 2001-2002 due to delays in finalisation of the demonstration phase.

MB consumption reported to the Ozone Secretariat (ODP tonnes)

1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	Baseline
3,252.6	1,438.3	750.6	1,126.8	1,207.5	839.4	867.0	1,100.1	1,067.5		1,130.8

Project proposal:

Technical assistance to comply with 2005 phase-out of 20% of methyl bromide (MEX/FUM/42/TAS/118), implemented by UNIDO, Canada, Spain

The Government is proposing to enforce MB import restrictions to ensure a maximum consumption level of 904.6 ODP tonnes of MB by January 2005; implement a training programme with all MB users on available alternative technologies (phase-out activities will focus on awareness, training, verification and dissemination of results achieved by those farmers who are volunteering to achieve substantial reductions in their consumption); implement technology transfer phase-out programmes working closely with farmers; and verify reductions in MB consumption at the regional, state and country levels. The proposed alternative technologies include: the use of an alternative chemical for soil fumigants alone or with solarization and the use of non-chemical alternatives (bio-fumigation, soilless substrates, steam, floating tray system and grafting), all of them to be implemented with integrated pest management systems.

The project is being jointly implemented by the Governments of Canada and Spain (bilateral cooperation) and UNIDO.

Project implementation dates:

Date of approval	Signature agreement	Start-up date	1st disbursement	Completion (proposal)	Actual completion
Apr-2004				Dec-2005	

Total amount of MB phased out (ODP tonnes):

	<2000	2001	2002	2003	2004	2005	2006	2007	2008	2009>	Total
<i>Proposed</i>					162.3						162.3
<i>Actual</i>											

Total funds approved by the Executive Committee (US\$):

<i>Approved</i>					1,105,000						1,105,000
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Total funds disbursed by UNIDO, Canada, Spain to the Government of Mexico (US\$):

<i>Proposed</i>											0
<i>Actual</i>											0

Current status of project implementation:

MB consumption reported to the Ozone Secretariat (ODP tonnes)

1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	Baseline
530.4	778.8	651.0	399.0	959.4	409.2	870.2	1,621.4	387.0		697.1

Project proposal:Phase-out of methyl bromide use in the cut flower and banana production (MOR/FUM/29/INV/37), implemented by France

Phase out of 36 ODP tonnes of MB use in banana production and 25 ODP tonnes in cut flower production, which represent the entire consumption of the respective subsectors. The alternative technologies are negative pressure steam pasteurization (covering a surface of 9 ha) and alternative chemicals (dichloropropene and metam sodium) combined with soil solarization. Banana is cultivated in plastic houses along the Atlantic coast; the producers are organized in an association (Association des Producteurs de la Banane). MB fumigation is only applied once in four years. The main cut flowers are carnations, roses, gladioli and sterlitzia. Only carnations are cultivated in plastic houses, the others are either cultivated in plastic houses and in open fields. The producers are organized in an association (Association Marocaine des Producteurs et Exportateurs des Fleurs). The soil of the beds is fumigated between the end of the harvest and the transplanting of the new seedlings in the same beds over a 2-month period (May and June). It includes a training programme covering approximately 400 end-users. It will be implemented in cooperation with the Direction de la Protection des Végétaux, des Contrôles Techniques et de la Repression des Fraudes and the Institut Agronomique et Vétérinaire Hassan II. The Government has established a register of MB importers and re-sellers/distributors. Upon completion of the project, the Government will issue a regulation which prohibits the use of MB in the whole cut flower and banana production subsector.

Project implementation dates:

Date of approval	Signature agreement	Start-up date	1st disbursement	Completion (proposal)	Actual completion
Nov-1999				Dec-2003	

Total amount of MB phased out (ODP tonnes):

	<2000	2001	2002	2003	2004	2005	2006	2007	2008	2009>	Total
Proposed			40.0	21.0							61.0
Actual											

Total funds approved by the Executive Committee (US\$):

Approved	1,006,652										1,006,652
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Total funds disbursed by France to the Government of Morocco (US\$):

Proposed											0
Actual											0

Current status of project implementation:

Set up of a DB to monitor the use of MB, through a detailed survey per year. Awareness day carried out in Kenitra on 9 April. Trainers have been identified. Part of the equipment arrived. On-site training was carried out. MB use decreased by 2 ODP tonnes in the banana sector, and by 8.4 ODP tonnes in the cut flower sector.

Project proposal:Phase out of methyl bromide for soil fumigation in strawberry production (MOR/FUM/32/INV/41), implemented by UNIDO

The alternative technologies selected for phasing out MB are: solarization in combination with metam sodium (in 285 ha); solarization in combination with dichloropropene (in 223 ha); biofumigation (in 247 ha); and negative pressure steam (in 169 ha), all in combination with an IPM programme. The use of chemical alternatives requires modification of the irrigation systems currently available in farms. Negative pressure steam technology requires installation of perforated pipes in the soil (at a depth of at least 60 cm to be protected from plugging) and an electric fan, and the use of 9 steam generators. Each steam generator is used to treat a surface area of 20 ha. It also includes training programmes in the use of the alternative technologies, which will be organized in collaboration with the Association Marocaine des Producteurs de Fraise. Approximately 370 farmers and 5 extension agents will be trained in the proposed alternative techniques. The extension agents or trainers will first receive a two-week training by national and international experts in the field of IPM. During the five years of the project, extension agents will train 370 farmers. Upon completion of the project in 2005, the Government will issue a regulation banning MB in the entire strawberry production subsector.

Project implementation dates:

Date of approval	Signature agreement	Start-up date	1st disbursement	Completion (proposal)	Actual completion
Dec-2000	Dec-2000	Feb-2001	Jan-2001	Jan-2006	

Total amount of MB phased out (ODP tonnes):

	<2000	2001	2002	2003	2004	2005	2006	2007	2008	2009>	Total
<i>Proposed</i>		23.4	15.6	20.4	42.2	50.0					151.6
<i>Actual</i>		36.0	23.0	20.4							79.4

Total funds approved by the Executive Committee (US\$):

<i>Approved</i>	2,189,729										2,189,729
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Total funds disbursed by UNIDO to the Government of Morocco (US\$):

<i>Proposed</i>		547,432	547,432	547,432	547,433						2,189,729
<i>Actual</i>		107,044	244,572	536,756							888,372

Current status of project implementation:

Phase I is completed and phase II will start soon. A phase out of 20.4 tonnes occurred in 2003. Additional equipment expected in 2004 with a phase out of 42.2 tonnes. Since more phase out was achieved in previous years than planned in the agreement, the phase out target for 2005 is only 33.4 ODP tonnes. Due to the escalating cost of diesel oil, operating cost of soil steam pasteurization has increased sharply. The alternative, at the present time, is not economically viable any more. For the implementation of the phase II the project strategy has to be re-evaluated accordingly, as for decision Ex.I/2 para 2. - First Extraordinary Meeting of the Parties, Montreal, March 2004.

Project proposal:

Phase-out of methyl bromide for soil fumigation in tomato production (MOR/FUM/34/INV/44), implemented by UNIDO

Replacement of MB with solarization in combination with alternative chemicals (including 1,3-dichloropropene and metam sodium), bio-fumigation and negative pressure steam pasteurization, in combination with an integrated pest management (IPM) programme. These technologies have been selected on the basis of the results from the demonstration project on alternatives to the use of MB in horticulture. The use of chemical alternatives requires modification of the irrigation systems currently available in farms; negative pressure steam technology requires installation of pipes in the soil, electric fans and 8 steam generators.

Project implementation dates:

Date of approval	Signature agreement	Start-up date	1st disbursement	Completion (proposal)	Actual completion
Jul-2001	Jul-2001	Mar-2001	Oct-2002	Dec-2006	

Total amount of MB phased out (ODP tonnes):

	<2000	2001	2002	2003	2004	2005	2006	2007	2008	2009>	Total
<i>Proposed</i>			109.8	52.9	52.1	77.9	97.2				389.9
<i>Actual</i>											

Total funds approved by the Executive Committee (US\$):

<i>Approved</i>		400,000									400,000
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Total funds disbursed by UNIDO to the Government of Morocco (US\$):

<i>Proposed</i>		400,000	1,185,948	1,185,948	1,185,948						3,957,844
<i>Actual</i>			1,684	2,578							4,262

Current status of project implementation:

Government is requesting restructuring of the project. Due to the escalating cost of diesel oil, operating cost of soil steam pasteurization has increased sharply. The alternative, at the present time, is not economically viable any more. Therefore the soil steam pasteurization component has to be re-evaluated accordingly, as for decision Ex.I/2 para 2. - First Extraordinary Meeting of the Parties, Montreal, March 2004.

MB consumption reported to the Ozone Secretariat (ODP tonnes)

1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	Baseline
1.3	0.8	0.1	0.3	3.9	3.1	29.3	0.1	0.1		1.3

Project proposal:**Phase-out of methyl bromide in soil fumigation (PER/FUM/31/INV/28), implemented by UNDP**

To demonstrate 5 techniques to MB: tray method (soil is replaced with a substrate); steam heat; soil solarization; biological controls; and a reduced use of chemicals, under an IPM framework. The project will commence in demonstration plots in leading farms as the basis for demonstration and training (training of trainers followed by training of farmers). Training modules and teaching materials will be developed by technicians and experts together with MB users. Training will take place at farm level and will include farm visits, field workshops and tuition from technicians. Field workshops will be held to demonstrate partial results and to share successful experiences between farmers. Through targeted communication channels, information on demonstrative plots and shared experiences will be disseminated to other MB users. The best alternatives to MB will be transferred to other farmers through training programmes. A package of policy measures will be developed to ensure that by the end of 2002, MB consumption will be reduced to the baseline level, and will be completely phased out by the end of 2005. Additionally, measures taken to ensure that MB is not re-introduced after users have stopped using it.

Approved on the understanding that UNDP would disburse the funds approved in tranches according to the proposed methyl bromide phase-out schedule indicated in the project proposal; if Peru did not meet the reduction requirements outlined in the proposal, UNDP would withhold funding for the subsequent tranche of funding until such time as the required reduction had been met; UNDP would submit an annual progress report on the implementation of the project to the Fund Secretariat; a package of policy measures would be developed to ensure that, by the end of 2002, methyl bromide consumption for soil fumigation would be reduced to the baseline level, and would be completely phased out by the end of 2005. Such measures would also ensure that methyl bromide was not re-introduced after users had stopped using it.

Project implementation dates:

Date of approval	Signature agreement	Start-up date	1st disbursement	Completion (proposal)	Actual completion
Jul-2000	Dec-2000	Dec-2000	Mar-2001	Aug-2003	

Total amount of MB phased out (ODP tonnes):

	<2000	2001	2002	2003	2004	2005	2006	2007	2008	2009>	Total
<i>Proposed</i>				4.0							4.0
<i>Actual</i>											

Total funds approved by the Executive Committee (US\$):

<i>Approved</i>	209,770										209,770
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Total funds disbursed by UNDP to the Government of Peru (US\$):

<i>Proposed</i>											0
<i>Actual</i>											0

Current status of project implementation:

The project has complied with the established objective of phasing out 4 ODP tones of MB in the fumigation of soil, thanks to the commitment of the local institutions and users. The main users have committed to stop the use of MB and the imports have been reduced. In order to ensure the definitive phase out, the formulation of a national regulation to ban the MB was approved. It has been formulated based on the initiatives of the users and other stakeholders, and has been reviewed by the different institutions involved.

The MB alternatives were identified and validated, and there was consensus at the regional teams on the alternatives that should be adopted and mainstreamed in the crops that had traditionally used MB. Thirteen evaluations of different selected alternatives to the MB were done in each one of the regions, achieving that the users adopt the most efficient and less expensive ones. Steam was adopted in tobacco, solarization and the use of Trichoderma were adopted in the production of the basic seed of potatoes, the production of almacigo for onion and paprika. In addition, fifteen technical training events were completed and 25 awareness activities on the problematic of MB and its alternatives were completed with active participation of the different stakeholders involved in the project.

MB consumption reported to the Ozone Secretariat (ODP tonnes)

1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	Baseline
12.0	172.0	100.2	71.1	102.6	33.6	20.0	18.1	70.9		111.5

Project proposal:Phase out of methyl bromide in horticulture (ROM/FUM/34/INV/19), implemented by Italy

The alternatives selected are solarization combined with metam sodium (covering 110 ha) and grafting (covering also 110 ha), applied in combination with an integrated pest management programme. The application of metam sodium requires installation of polyethylene pipes, a storage tank and a pump to inject the pesticide into the irrigation flow. It also includes a training programme in the use of the alternative technologies for farm managers, national experts and a group of employees selected from each farm's staff. It will be conducted at the Research and Development Institute for Horticultural Products Marketing (Horting Institute). The Government is committed to phasing out the entire consumption of MB by 2005. Upon completion of the project, the Government will issue a regulation forbidding the use of MB in the entire tobacco and horticultural producing subsectors. The Government has already issued a regulation banning use of MB in the entire horticultural sector by the end of the year 2001; however, this regulation has not been enforced. In order to accomplish the proposed phase-out schedule, it will establish fixed limits on imports and national sale of MB. The Government is also considering the introduction of a labelling programme for vegetables produced without MB, possibly by 2004.

The Government of Italy should disburse the funds allocated in tranches according to the proposed MB phase-out schedule indicated in the project proposal; if Romania does not meet the reduction requirements outlined in the proposal, the Multilateral Fund, through Government of Italy will withhold funding for the subsequent tranche until such time as the required reduction has been met.

Project implementation dates:

Date of approval	Signature agreement	Start-up date	1st disbursement	Completion (proposal)	Actual completion
Jul-2001	Aug-2001	Jan-2002	Feb-2002	Aug-2005	

Total amount of MB phased out (ODP tonnes):

	<2000	2001	2002	2003	2004	2005	2006	2007	2008	2009>	Total
<i>Proposed</i>			9.4	28.1	27.9	28.5					93.9
<i>Actual</i>			9.4	28.1	22.1						59.6

Total funds approved by the Executive Committee (US\$):

<i>Approved</i>		630,517									630,517
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Total funds disbursed by Italy to the Government of Romania (US\$):

<i>Proposed</i>			207,209	207,209	216,099						630,517
<i>Actual</i>			207,209	207,209							414,418

Current status of project implementation:

Metam sodium and dazomet in combination with grafted seedlings, are effective alternative technologies under the Romanian environment. The proposed alternative technologies have been adopted at the commercial scale. For the production of grafted seedlings (a relatively complex process), a pilot nursery unit is under current installation (to be completed by August 2004) and will be used during the 2004-2005 crop season. About technology development and transfer we are now working on alternatives efficiency and costs and crops quality. Further improvement concerning weeds control using biodegradable mulching films, the efficacy of the alternatives and the quality of the crops produced with non-MB fumigation, are under current consideration.

MB consumption reported to the Ozone Secretariat (ODP tonnes)

1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	Baseline
209.6	199.2	12.0	0.7	0.7	0.7	0.0	0.0	0.0		53.2

Project proposal:

Phase-out of methyl bromide used in peanut seed fumigation in Novasen Ltd. (SEN/FUM/26/INV/12), implemented by UNIDO

Complete elimination of the current use of methyl bromide in the country by replacing it with phosphine which has been demonstrated as an effective, economic and practical alternative treatment. It includes a series of 5-day phosphine fumigation procedures in the presence of Novasen technicians who will receive on-the-job training. Operational guidelines will be issued. A seed viability check will be carried out in the Kaolack laboratory to monitor any changes as a consequence of fumigation. The second part of the project is the implementation of the use of phosphine in the company on a full commercial scale. Fumigation technicians will be trained in the principles of phosphine fumigation, alternative stacking arrangements to the pyramid prior to fumigation, application of phosphine tablets, sealing sheets and maintaining gas-tightness, gas measurement, safe application of fumigant and disposal of residues, correct handling and storage of fumigation sheets, and Integrated Commodity Management (ICM). The project states that policy measures against methyl bromide import, trade and use (license) have to be combined with the investment project to assist Novasen in the phase out of methyl bromide.

Project implementation dates:

Date of approval	Signature agreement	Start-up date	1st disbursement	Completion (proposal)	Actual completion
Nov-1998	Sep-1999	Apr-1998	Dec-1999	Dec-2000	Dec-2001

Total amount of MB phased out (ODP tonnes):

	<2000	2001	2002	2003	2004	2005	2006	2007	2008	2009>	Total
<i>Proposed</i>	0.7										0.7
<i>Actual</i>		0.7									0.7

Total funds approved by the Executive Committee (US\$):

<i>Approved</i>	62,945										62,945
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Total funds disbursed by UNIDO to the Government of Senegal (US\$):

<i>Proposed</i>											0
<i>Actual</i>	44,539	9,916	5,169								59,624

Current status of project implementation:

Project completed. PCR submitted in October 2002.

MB consumption reported to the Ozone Secretariat (ODP tonnes)

1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	Baseline
0.0	2.7	8.3	1.6	3.8	6.5	4.8	1.1	1.9		4.1

Project proposal:

Methyl bromide phase-out for all remaining uses excluding QPS applications (SRL/FUM/38/TAS/21), implemented by UNDP

Development of policies (licensing scheme, awareness initiatives, links with relevant agencies including Customs, Import Control, Agriculture, Environment, and regulations under the Environment Act and Pesticides Act) to meet the phase-out commitments, adapt MB alternatives to Sri Lanka's conditions and training to farmers. Through the implementation of the proposed activities, 3.2 ODP tonnes of MB used in agriculture and protection of stored products (flowers, ornamental plants, potatoes, peppers, tomatoes and strawberries) will be phased out. Some MB is also used for stored products, in particular by the Paddy Marketing Board and for timber. The Government is also proposing to put in place appropriate modalities (such as incentives, legislation and regulations) to ensure and enforce the phase out of MB in the country. It will be overseen by a national advisory committee.

Project implementation dates:

Date of approval	Signature agreement	Start-up date	1st disbursement	Completion (proposal)	Actual completion
Nov-2002	Nov-2003			Nov-2005	

Total amount of MB phased out (ODP tonnes):

	<2000	2001	2002	2003	2004	2005	2006	2007	2008	2009>	Total
<i>Proposed</i>						3.3					3.3
<i>Actual</i>											

Total funds approved by the Executive Committee (US\$):

<i>Approved</i>			130,000								130,000
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Total funds disbursed by UNDP to the Government of Sri Lanka (US\$):

<i>Proposed</i>											0
<i>Actual</i>											0

Current status of project implementation:

Project Manager has been engaged. The technical expert has been identified. The work plan was endorsed by National Management team. Technical mission slated for Quarter 2 of 2004. After slight delays with regard to ProDoc signature, project is now on track.

MB consumption reported to the Ozone Secretariat (ODP tonnes)

1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	Baseline
	153.0	289.2	240.0	72.0	89.3	112.3	165.1	152.7		188.6

Project proposal:

Phase-out of the use of methyl bromide in grain storage (SYR/FUM/34/INV/80), implemented by UNIDO

Phase out all uses of MB in storage and structural applications, through the use of phosphine. This technology has been selected on the basis of the results from the demonstration project on alternatives to the use of MB in horticulture and commodity fumigation in Syria. It includes procurement of 135 phosphine detectors for monitoring fumigation space, installation of gas sampling lines and enhancement of the sealing of facilities to reduce the consumption of phosphine and a training programme. Fumigation with phosphine will be implemented in stages, as the grains currently stored (and treated with MB) are being consumed.

UNIDO is requested to disburse the funds allocated in tranches according to the proposed MB phase out schedule indicated in the project proposal; if Syria does not meet the reduction requirements outlined in the proposal, the Multilateral Fund, through UNIDO will withhold funding for the subsequent tranche until such time as the required reduction has been met.

Project implementation dates:

Date of approval	Signature agreement	Start-up date	1st disbursement	Completion (proposal)	Actual completion
Jul-2001	Jul-2001	Oct-2001	Aug-2002	Dec-2005	

Total amount of MB phased out (ODP tonnes):

	<2000	2001	2002	2003	2004	2005	2006	2007	2008	2009>	Total
<i>Proposed</i>			5.0	29.8	34.8	35.4					105.0
<i>Actual</i>				5.0							5.0

Total funds approved by the Executive Committee (US\$):

<i>Approved</i>		300,000		351,725							651,725
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Total funds disbursed by UNIDO to the Government of Syria (US\$):

<i>Proposed</i>		300,000	351,725	216,828	215,586						1,084,139
<i>Actual</i>			165	41,594							41,759

Current status of project implementation:

Training is ongoing. Equipment will be delivered by the end of April 2004. Equipment for phase II will be delivered in June 2004. Additional training planned.

MB consumption reported to the Ozone Secretariat (ODP tonnes)

1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	Baseline
	421.2	578.4	504.0	415.2	342.6	342.6	43.8	280.8		479.7

Project proposal:

Introduction of alternatives to methyl bromide in protected strawberry, pepper and eggplant in East Mediterranean region and in strawberry in Aydm province of Turkey (TUR/FUM/29/INV/56), implemented by IBRD

Phase out of MB used for soil disinfestation in strawberry, pepper and eggplant crops in the East Mediterranean region. In the first year, the project will demonstrate and evaluate the economic and technical feasibility of steam pasteurization, substrates, soil solarization, biological control, low doses of alternative chemicals and bio fumigation in combination with an IPM system. In the second year, the best alternative technologies will be used for developing a training and extension programme which will be pilot-tested with selected groups of farmers. In years 2 and 3, training programmes will be implemented to ensure that farmers consuming 50% of the MB become competent in replacing it with the alternative technology selected (2,100 strawberry farmers, 600 pepper producers and 300 eggplant producers). Strawberry farmers in the Aydm province will also be trained on alternatives of MB. Policy development and awareness raising will also be undertaken to ensure that 90 ODP tonnes of MB will be phased-out permanently by 2008.

Project implementation dates:

Date of approval	Signature agreement	Start-up date	1st disbursement	Completion (proposal)	Actual completion
Nov-1999	Mar-2000	Mar-2000	Oct-2000	Dec-2002	Jul-2003

Total amount of MB phased out (ODP tonnes):

	<2000	2001	2002	2003	2004	2005	2006	2007	2008	2009>	Total
Proposed			50.0								50.0
Actual											

Total funds approved by the Executive Committee (US\$):

Approved	366,440										366,440
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Total funds disbursed by IBRD to the Government of Turkey (US\$):

Proposed											0
Actual	366,440										366,440

Current status of project implementation:

The project has been completed successfully and the PCR is under preparation. Progress report available for distribution.

Project proposal:

Phase-out methyl bromide in the dried fig sector (TUR/FUM/31/INV/69), implemented by IBRD

To demonstrate the use of CO₂ under pressure (modified atmosphere) and magnesium phosphide in combination with heat as alternative technologies for MB used for the fumigation of dried figs. The modified atmosphere technology uses CO₂ at a very high pressure (20-30 bars pressure) for a short period of time (2 to 3 hours). It requires field trials before being introduced into routine fumigation systems, and thus it is proposed to undertake semi-field studies using a modified atmosphere fumigation chamber. The Government will absorb any additional cost that it may realize for phasing out the 30 ODP tonnes of MB used for fumigation of dried figs by 2003, with no additional request for funding. It will be implemented by the Agricultural Faculties of Ankara and Ege Universities. The Aegean Exporters' Union and the Union of Agricultural Sales Cooperatives (TARIS) will provide infrastructure, laboratory facilities and technical personnel, and will be responsible for disseminating project results to stakeholders.

Approved on the understanding that the Government would ensure that the total national aggregate methyl bromide consumption in the sector would be permanently reduced to a level no higher than its 1999 national aggregate consumption, less the phase-out proposed in the project; the Government of Turkey, through the World Bank, would provide to the Fund Secretariat an annual progress report on the implementation of the project, including data on aggregate methyl bromide consumption phased out by the project.

Project implementation dates:

Date of approval	Signature agreement	Start-up date	1st disbursement	Completion (proposal)	Actual completion
Jul-2000	Oct-2000	Oct-2000	Jun-2001	Oct-2002	Jul-2004

Total amount of MB phased out (ODP tonnes):

	<2000	2001	2002	2003	2004	2005	2006	2007	2008	2009>	Total
<i>Proposed</i>		10.0	10.0	10.0							30.0
<i>Actual</i>											

Total funds approved by the Executive Committee (US\$):

<i>Approved</i>	479,040										479,040
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Total funds disbursed by IBRD to the Government of Turkey (US\$):

<i>Proposed</i>											0
<i>Actual</i>	357,320										357,320

Current status of project implementation:

Contract signed with the supplier and equipment under delivery. Due to the status of implementation, no technical information available yet.

Project proposal:**Phase-out of methyl bromide in protected tomato, cucumber and carnation crops (TUR/FUM/35/INV/74), implemented by UNIDO**

Replacement of MB with solarization in combination with alternative chemicals, bio-fumigation, soil-less media and negative pressure steam pasteurization, in combination with an integrated pest management (IPM) programme (the technologies have been selected on the basis of the results from the demonstration project on alternatives to the use of MB in protected horticulture and ornamental crops). The use of chemical alternatives requires modification of the irrigation systems currently available in farms, including the installation of a metam sodium storage tank, a Venturi-injector (for a uniform distribution of the chemical) and additional piping. The negative pressure steam technology (for carnations) requires installation of perforated pipes in the soil, electric fans and 10 steam generators that will be shared among growers. The soil-less culture technology requires installation of inert media. It also includes a training programme and project management. Incremental operating costs have not been claimed. The Government will be responsible for providing the legal framework for phasing out MB in vegetables and cut flower production; the infrastructure for reaching all farmers involved; and the institutional support for implementing and monitoring progress.

The Executive Committee approved in principle US \$3,408,844 as the total funds that will be available to Turkey to achieve the complete phase-out of MB used in protected tomato, cucumber, and carnation crops (for a total phase out of 292.2 ODP tonnes with a cost effectiveness of US \$11.67/kg), subject to the conditions agreed between the Government of Turkey and the Executive Committee.

Project implementation dates:

Date of approval	Signature agreement	Start-up date	1st disbursement	Completion (proposal)	Actual completion
Dec-2001	Feb-2003	Jan-2002	Aug-2002	Dec-2006	

Total amount of MB phased out (ODP tonnes):

	<2000	2001	2002	2003	2004	2005	2006	2007	2008	2009>	Total
<i>Proposed</i>			29.2	58.0	58.0	89.0	58.0				292.2
<i>Actual</i>				29.2							29.2

Total funds approved by the Executive Committee (US\$):

<i>Approved</i>		1,000,000		1,000,000							2,000,000
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Total funds disbursed by UNIDO to the Government of Turkey (US\$):

<i>Proposed</i>		1,000,000	1,000,000	700,000	708,844						3,408,844
<i>Actual</i>			3,363	60,415							63,778

Current status of project implementation:

Phase I was completed in December 2003. Additional equipment expected for April and June 2004. Training programme will continue.

MB consumption reported to the Ozone Secretariat (ODP tonnes)

1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	Baseline
	1.5	1.8	10.2	11.7	10.5	15.9	22.2	30.0		6.3

Project proposal:Phase-out of methyl bromide in cut flowers (UGA/FUM/34/INV/08), implemented by UNIDO

The project is to replace all MB uses with steam pasteurization in combination with an integrated pest management system. The steam technology requires the use of three steam generators. The markets in Europe are demanding flowers grown without MB and with limited use of other chemicals such as metam sodium, dichloropropene and dazomet. Several growers in Uganda have been requested to either join a flower-labeling programme and/or produce following the Code of Practice developed by the Ugandan Flower Exporters Association, which also limits the use of pesticides. The Government has already established an import licensing system preventing the increase in the use of MB. Once the project is fully implemented, the Government will ban the use of MB. The MB baseline consumption has been established at 1.9 ODP tonnes and the 2000 consumption at 12 ODP tonnes. The Government is aware that it would not be possible to comply with the MB freeze; however, expects to phase out the use of MB in soil fumigation by the end of 2005, through the implementation of this project.

Project implementation dates:

Date of approval	Signature agreement	Start-up date	1st disbursement	Completion (proposal)	Actual completion
Jul-2001	Jul-2001	Aug-2001	Oct-2002	Aug-2007	

Total amount of MB phased out (ODP tonnes):

	<2000	2001	2002	2003	2004	2005	2006	2007	2008	2009>	Total
<i>Proposed</i>					6.0	18.0	1.2	4.8			30.0
<i>Actual</i>											

Total funds approved by the Executive Committee (US\$):

<i>Approved</i>		228,800									228,800
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Total funds disbursed by UNIDO to the Government of Uganda (US\$):

<i>Proposed</i>											0
<i>Actual</i>			11,415	8,279							19,694

Current status of project implementation:

MB consumption reported to the Ozone Secretariat (ODP tonnes)

1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	Baseline
13.8	14.9	2.7	16.4	10.8	21.7	23.8	37.8	17.7		11.2

Project proposal:**Phase-out of methyl bromide in horticulture (tomatoes and cut flowers) (URU/FUM/34/INV/35), implemented by UNIDO**

Phase out the entire consumption of MB used for soil disinfestation in horticulture (88% of total consumption), cut flowers (7%) and other crops (4%). The use of MB for commodity fumigation, quarantine and other applications is negligible. Based on the results from the demonstration project on alternatives to the use of MB as a soil fumigant in protected horticultural crops, seedbeds, and nurseries the technologies selected are solarization in combination with metam sodium and bio-fumigation (for horticultural crops) and steam (for cut flowers). The use of metam sodium requires additional accessories and modification to the irrigation systems currently available in the greenhouses, equipment for incorporating organic matter to the soil and 2 boilers for the use of steam. It also includes a training programme. The country has effective means to control the use and import of pesticide, including MB, through the Ministry of Agriculture, Livestock and Fisheries. The Government proposes to establish additional systems to monitor and control the consumption of MB.

The MB baseline consumption has been established at 11.6 ODP tonnes and the 2000 consumption at 25.5 ODP tonnes. The Government is aware it will not be able to meet the 2002 MB freeze; however, by implementing this project, the total consumption of MB in soil fumigation will be completely phased out by the end of 2005

UNIDO is requested to disburse the funds allocated in tranches according to the proposed MB phase out schedule indicated in the project proposal; if Uruguay does not meet the reduction requirements outlined in the proposal, the Multilateral Fund, through UNIDO will withhold funding for the subsequent tranche until such time as the required reduction has been met.

Project implementation dates:

Date of approval	Signature agreement	Start-up date	1st disbursement	Completion (proposal)	Actual completion
Jul-2001	Dec-2001	Aug-2001	Feb-2002	Aug-2005	

Total amount of MB phased out (ODP tonnes):

	<2000	2001	2002	2003	2004	2005	2006	2007	2008	2009>	Total
<i>Proposed</i>			4.0	8.0	8.0	4.0					24.0
<i>Actual</i>			5.0	8.0							13.0

Total funds approved by the Executive Committee (US\$):

<i>Approved</i>		469,370									469,370
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Total funds disbursed by UNIDO to the Government of Uruguay (US\$):

<i>Proposed</i>											0
<i>Actual</i>			145,213	111,026							256,239

Current status of project implementation:

Training of farmers continued as planned and 8.0 ODP tonnes of ODS phased out in 2003. Uruguay was not in compliance with its obligations under Article 2H of the Montreal Protocol. The 15th Meeting of the Parties accepted the plan of action submitted by Uruguay to ensure prompt return to compliance. The action plan is based on the targets agreed with the Executive Committee for the implementation of the project.

MB consumption reported to the Ozone Secretariat (ODP tonnes)

1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	Baseline
	1.2	1.2	1.2	0.6	57.6	60.0	65.4	52.8		1.1

Project proposal:

Technical assistance programme for the phase-out of methyl bromide in agriculture (YEM/FUM/41/TAS/21), implemented by Germany

MB is used in soil fumigation for production of cucumber, tomato, ornamental trees, onion, okra, eggplant, pepper and others. It will assist farmers to apply alternative technologies to MB, including solarization in combination with bio-fumigation, alternative chemicals within an integrated soil pest management (IPM) approach. The technologies will be selected mainly on the basis of discussions as well as limited demonstrations with the concerned farmers themselves. Strategic proposals for policy, legislative and regulatory action concerning the trade and use of MB will be worked out in close cooperation with the Government as well as the authorities in governorates and tribal areas.

Approved on the understanding that approval was without prejudice to the operation of the Montreal Protocol's mechanisms dealing with non compliance issues.

Project implementation dates:

Date of approval	Signature agreement	Start-up date	1st disbursement	Completion (proposal)	Actual completion
Dec-2003		Feb-2004	Feb-2004	Dec-2006	

Total amount of MB phased out (ODP tonnes):

	<2000	2001	2002	2003	2004	2005	2006	2007	2008	2009>	Total
<i>Proposed</i>					9.1						9.1
<i>Actual</i>											

Total funds approved by the Executive Committee (US\$):

<i>Approved</i>				250,000							250,000
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Total funds disbursed by Germany to the Government of Yemen (US\$):

<i>Proposed</i>											0
<i>Actual</i>											0

Current status of project implementation:

MB consumption reported to the Ozone Secretariat (ODP tonnes)

1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	Baseline
376.8	405.6	424.2	579.0	819.0	490.3	370.7	544.2	250.2		557.0

Project proposal:**Phase-out of methyl bromide in cut flowers (ZIM/FUM/31/INV/21), implemented by UNIDO**

The application of the steam technology requires the use of 20 mobile steam generators, 14 units with a capacity of 400-600 kg/h and 6 units with a capacity of 1,800-2,000 kg/h. The steam generators will be distributed to about 270 farmers through the main flower growers association, the Export Flower Growers Association of Zimbabwe. During the first phase of the project, 2 to 3 steam generators will be purchased in order to determine treatment conditions for particular pests and soil types in the different growing areas. It includes training programmes in the use of the alternative technologies using extension personnel from EFGAZ in conjunction with the Blackfordby Agricultural Training Institute. The Government has agreed to (i) prevent the increase in the use of MB in the cut-flower sector by establishing an import license system for MB; (ii) work closely with EFGAZ to ascertain the phase-out of MB according to the following phase out schedule: 26.4 ODP tonnes during the second year of the project, 39.6 ODP tonnes during the third year and complete phase out (66 additional ODP tonnes) during the fourth year of the project; and (iii) enactment of a regulation banning the use of MB in the production of cut flowers once the project is completed.

Approved on the understanding that UNIDO would disburse the funds approved in tranches according to the proposed methyl bromide phase-out schedule indicated in the project proposal; if Zimbabwe did not meet the reduction requirements outlined in the proposal, UNIDO would withhold the subsequent tranche of funding until such time as the required reduction had been met; the Government would ensure that the total national aggregate methyl bromide consumption in the sector would be permanently reduced to a level no higher than its 1999 national aggregate consumption, less the phase-out proposed in the project; the Government of Zimbabwe, through UNIDO, would provide to the Fund Secretariat an annual progress report on the implementation of the project, including data on aggregate methyl bromide consumption phased out by the project.

Project implementation dates:

Date of approval	Signature agreement	Start-up date	1st disbursement	Completion (proposal)	Actual completion
Jul-2000	Nov-2000	Aug-2000	Mar-2001	Aug-2004	

Total amount of MB phased out (ODP tonnes):

	<2000	2001	2002	2003	2004	2005	2006	2007	2008	2009>	Total
<i>Proposed</i>			41.0	39.6	51.4						132.0
<i>Actual</i>			41.0	39.6							80.6

Total funds approved by the Executive Committee (US\$):

<i>Approved</i>	904,200										904,200
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Total funds disbursed by UNIDO to the Government of Zimbabwe (US\$):

<i>Proposed</i>	298,386		298,386	307,428							904,200
<i>Actual</i>		174,670	630,958	13,206							818,834

Current status of project implementation:

Training of farmers continued as planned and 39.60 tones of ODS phased out in 2003. Changes in the staff of the Ozone Unit have caused some disruption in data reporting.