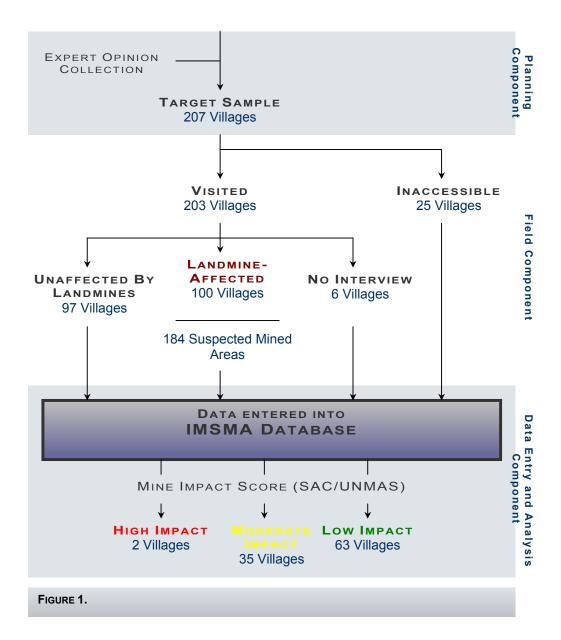
OVERVIEW FOR MAPUTO PROVINCE



The term "village" as used herein has the same meaning as the term "community" used elsewhere.

Schematic of process.

MAPUTO PROVINCE 433 Total Villages



The Mozambique Landmine Impact Survey (MLIS) visited seven of eight Districts in Maputo. Cidade de Maputo, the national capital and a separate Province administratively, and Cidade de Matola were not visited, as they are considered by Mozambican authorities not to be landmine-affected. Of the 203 villages visited, 100 identified themselves as landmine-affected, reporting 184 Suspected Mined Areas (SMAs). Six villages were either unknown to local persons or uninhabited, and 25 villages were inaccessible due to fallen bridges or poor road conditions. Figure 1 provides an overview of the survey process: village selection; data collection; and data-entry into the Information Management System for Mine Action (IMSMA) database, out of which is generated the Mine Impact Score (Appendix I).

Expert Opinion Collection formed the basis for the selection of villages. Information from Official Interviews, data from organizations active in the Province (Accelerated Demining Program, Handicap International) and from the National Demining Institute (DITERS Database) served as a basis for preparing a target list of 207 villages to be visited throughout the Province.

Village Survey Questionnaires were administered in every village found to be landmine-affected to a total of 835 Interviewees. The vast majority of Interviewees (80%) had occupations in agriculture, fishing and related activities, followed by occupations in the public sector and defence (5%). All age groups were well represented. Eight per cent of Interviewees were aged from 15 to 29 years, 32% were aged from 30 to 44 years, and 39% were aged from 45 to 59 years. The remaining 21% were accounted for by Interviewees older than 59 years or of unknown age. Women participated in 86% of group interviews.

Provincial summary indicating number of CIDC village visits, population and reported Suspected Mined Areas and victims.

	Villages		Population	Mined A	Areas and	reas and Victims			
				Victims in					
	Affected	Unaffected	Affected	Number	Last 2	Total			
District	Villages	Villages	Population	of SMAs	Years	Victims			
BOANE	9	9	25,599	17	0	26*			
MAGUDE	16	15	15,605	33	4	30*			
MANHIÇA	17	18	31,734	32	1	28			
MARRACUENE	6	13	3,374	7	1	30			
MATUTUINE	23	18	15,220	48	4	138			
MOAMBA	16	11	17,343	27	2	94*			
NAMAACHA	13	13	17,717	20	1	25*			
Total	100	97	126,592	184	13	371			

^{*} Minimum value: certain communities could not report the precise number of victims

TABLE 1.

Table 1 summarises the principal findings for Maputo by District visited. A further breakdown by village in each District visited can be found at Appendix II.

Landmine-affected villages were identified in each District visited and were most numerous in the District of Matutuíne (23), followed by Manhiça (17) and Magude and Moamba (each with 16). Each of these Districts also reported a high number of SMAs, combined accounting for 76% of the Province's total of reported SMAs. The District of Matutuíne also reported the highest number of victims (138), followed by the District of Moamba (94). Victims within the two years preceding the MLIS were reported in every District visited except Boane, with the highest occurrence in Magude and Matutuíne Districts, with four recent victims each.

VICTIMS AND IMPACTS

VICTIMS

In total, 76 of 100 (76%) landmine-affected villages reported a total of at least 371 victims since the beginning of the Independence Struggle. Eight villages could not specify the number of victims; however, five of these villages reported having had many victims. Victims from nine villages, each with at least ten reported victims, accounted for 165 (44%) of the total victim tally for the Province. The village of Mubobo (Moamba District) reported 28 victims, and the village of Mahau (Matutuíne District) reported 49 victims.

Thirteen landmine victims were reported in 11 villages during the two-year period preceding the MLIS, of whom six were killed and six injured. Information on the type of wound was not available for one victim. The village of Manjangue (Magude District) reported three victims during that period. Of the 12 victims reported during the two years preceding the MLIS on whom data on gender were available, nine (75%) were civilian men of varying ages. Victims reported for this period for whom information was available were most commonly engaged in travel (four of 12, or 33%) and food and water collection (also four of 12, or 33%) at the time of the accident.

IMPACTS ON RESOURCES AND INFRASTRUCTURE

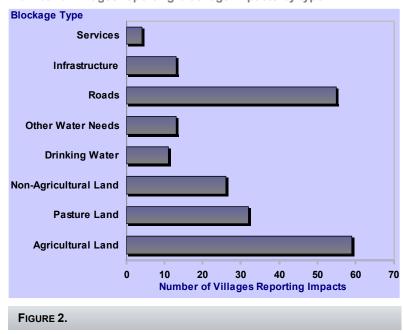
Figure 2 displays the number of villages in Maputo with blocked access to roads, infrastructure (bridges, airstrips, railroads, and powerlines), services (educational, cultural, and health facilities) and a variety of resources (water, agricultural land, pasture land and non-agricultural land).

Blockage impacts on resources were reported as follows, in descending order of frequency: agricultural land (59 of 100 mine-affected villages, or 59%); pasture land (32 of 100 villages, or 32%); and non-agricultural land (used for hunting, gathering fruit and medicinal plants, and collecting firewood and building materials) (26 of 100 villages, or 26%).

Blockage to roads was reported by 55 of 100 villages (55%), followed by blockage to infrastructure points (13%).

Fifteen villages (15%) reported seasonal variation in the severity of impacts: nine reported greater severity during the rainy season; four reported greater severity during the dry season; one reported greater severity during winter; and one indicated that the impacts are more severe during the farming season. The majority of villages (79 of 100, or 79%) reported that there was no particular season during which landmines had a greater impact on their village.

Number of villages reporting blockage impacts by type.



For 79 of 100 (79%) villages, at least one half of Interviewees reported that they worry a great deal about the presence of landmines, while for the remainder of villages (21%), the majority of Interviewees worrv moderately or not at In total, 728 of 835 (87%)Interviewees reported that they worry about landmines in village, with 630 (75%) who reported that they worry a great deal. Overall. 710 Interviewees

(85%) reported that the presence of landmines changes their behaviour.

MINE IMPACT SCORE

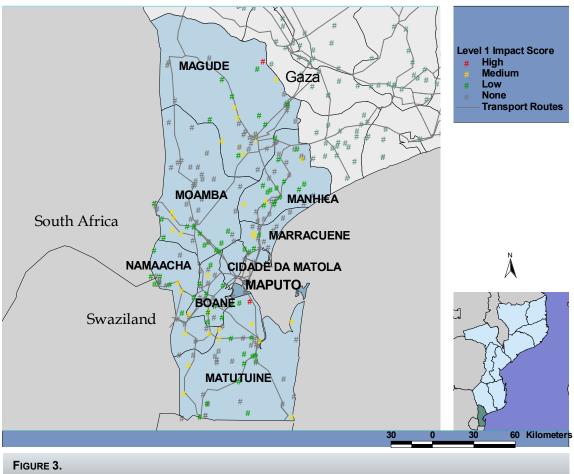
The Mine Impact Score developed by the Survey Action Centre and the United Nations Mine Action Service distils a number of important variables (presence of landmines/UXO, blockage impacts and recent victims) into a single index that permits comparisons among villages. The weights used by the CIDC to generate the scores can be found at Appendix I.

Except in the improbable evant that large numbers of recent victims (victims reported within the two-year period preceding the MLIS) are widespread, the Mine Impact Score assigns a large number of villages to the low-impact category. The need has therefore been expressed in Mozambique for a tool that would assist in establishing priorities among those low-impact villages. Some alternative indices are discussed in the national report.

Two villages in Maputo Province, one situated in Magude District near the northern border with Gaza Province and the other in Matutuíne District near Maputo City, fell into the high-impact category (Figure 3). A total of 35 moderately impacted villages were identified, including villages from all seven Districts visited. The aggregate population of the highly and moderately impacted villages totals approximately 38,000 persons, with individual village populations ranging from 41 to over 3,000 inhabitants. Low-impact villages, of which there were 63, were also identified in each District visited, with particular concentrations in the central part of the Province.

Of the 100 villages impacted, 37 (37%) identified the impacts of landmines as becoming more severe with time, while 31 (31%) reported the impacts as becoming less severe with time.

Map of Maputo Districts illustrating the distribution of group interviews and their Mine Impact Score.

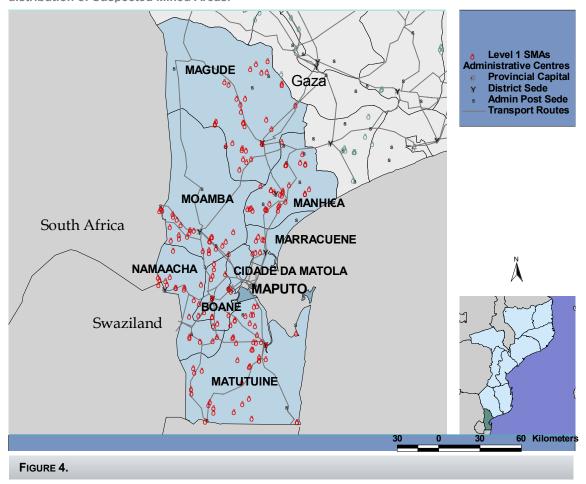


MINE CONTAMINATION

DISTRIBUTION OF SUSPECTED MINED AREAS

Figure 4 illustrates that landmine contamination appears most concentrated in the central part of the Province, adjacent to and inland from the Bay of Maputo, and in the northeast portion of the Province in Manhiça and parts of Magude.

Map of Maputo Districts and administrative centres, illustrating the distribution of Suspected Mined Areas.



Of the 100 landmine-affected villages identified in Maputo, 43% reported a single SMA and 52% reported two or three SMAs. Four villages identified four SMAs each: Pessene in Moamba District; Malatxota in Matutuíne District; Macandzene in Manhiça District; and Timanguene in Magude District. One village (Bairro 151 in Matutuíne District) identified seven SMAs.

Information on the year in which landmines were first laid and the year in which they were last laid was reported for 56% and 52% of SMAs respectively. Landmines in one SMA were first reportedly laid in 1977, after which SMAs were reportedly created every year between 1981 and 1991. The majority of mine-laying took place between 1984 and 1988, accounting for 75% of all SMAs. The earliest year in which landmines were last reportedly laid in individual SMAs was 1982. The temporal pattern thereafter is similar to that of first mine-laying.

TERRAIN AND TYPES OF ORDNANCE

SMAs were predominantly described as having a flat ground profile (74%). Mixed vegetation was reported as the most common vegetation cover, accounting for 61% of SMAs, followed by grasses accounting for 21% of SMAs.

Most commonly, SMAs were classified as former military installations (28 of 184, or 15%). Twenty-three SMAs were classified as being proximate to trails (13%), ten (5%) proximate to roads, and nine (5%) proximate to a water source.

The majority of SMAs (120 of 184, or 65%) were reported to have no marking (signs or fences) that would indicate the area to be landmine-contaminated.

Of 100 landmine-affected villages, nine (9%) reported harbouring solely unexploded ordnance (UXO), and an additional 16 (16%) reported harbouring both landmines and UXO. The remainder reported solely landmines.

SIZE AND DISTANCE OF SUSPECTED MINED AREAS

A vast range of SMA sizes were reported, from several reports of single UXOs to the largest SMA covering 8.5 square kilometers reported in

Frequency histogram of various Suspected Mined Area sizes

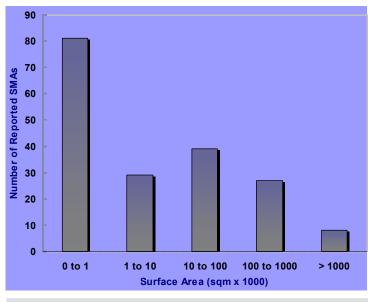


FIGURE 5.

Pochane, Matutuíne District. Figure 5 shows the range of size estimates for the reported SMAs in Maputo. Fortyfour per cent of SMAs were reported to be less than or equal to 1000 m², many of which are mined infrastructure points.

Seventy-two per cent of SMAs were reported to occur within 4 km of the affected village, and 97% were estimated to occur within 10 km. The most distant SMA was reported at a distance of 20.2 km from the affected village.

CONCLUSION

The principal findings of the MLIS in Maputo are as follows:

- Matutuíne District reported the highest number of landmine-affected villages, SMAs, and victims, followed by the Districts of Manhiça, Moamba, and Magude;
- Over 126,000 persons out of a total of 300,321 live in villages harbouring landmines, with at least 371 reported victims, 13 of whom were reported within the two years preceding the MLIS;
- Two villages were considered highly impacted and 35 villages were considered to be moderately impacted based on the Mine Impact Score;
- Blocked access to agricultural land was the most commonly reported impact of landmines on villages, followed by blockage to roads.

APPENDIX I - MINE IMPACT SCORE WEIGHTS

Variable	Weight
Types of Ordnance	
Landmines	2*
Unexploded Ordnance (UXO)	1*
Blockage Impacts	
Rainfed cropland	2
Irrigated cropland	0
Fixed Pasture	2
Migratory pasture	0
Non-agricultural land	1
Drinking Water	2
Other water uses	1
Housing area was blocked	0
Roads	1
Other infrastructure	1
Victims	
Victims within last 24 months	2*

FIRECE LYMPIGICUSTS VALUE USE COUNTINGS DESCRIPTION OF DESCRIPTION

Weightings Assigned to Variables in Calculation of the Village Mine Impact Scores

APPENDIX II - VILLAGE VISITS

LANDMINE-FREE VILLAGES:

District	Villages
MOAMBA	B.COMERCIAL
	BAGAMOYO
	BIGUANE
	CHIVONANHELETI
	FANGO
	LANGUANA
	MADINGUINE
	MAHULANA
	MUCATINE
	NHOQUENE
	TIRELE
BOANE	BELULUANA
	CIRCULO GIMO
	MASSACA-II
	MAVOCO
	MUZINGUIRE
	RADIO MARCONI
	SALDANHA
	UMPALA
	WACAMBO
NAMAACHA	ALTO ENCHIZA
	CASCATA
	CHIGUBUTA 1A1
	DONGUENE
	GOBA ESTACAO
	KULULA
	MAHELANE
	MATIANINE 1C1
	MATSEQUENHA
	MAZIMINHAMA
	MICHANGULENE
	NAMAACHA
	NDIMBIDUANE

District	Villages
MAGUDE	BAIRRO-4
	BAIRRO '20'
	BAIRRO '30'
	BAIRRO-2
	CHICAENE
	CHICHUCO
	CUAMULA
	HEROIS MOCAMBICANOS
	INHONGANE
	MACHAMBUIANA
	MANGAJANE
	MATCHABE
	MBUIYENE
	UNGUBANA-1
	UNGUBANA-2
MATUTUINE	BAIRRO-1
	BAIRRO-3
	CUMBANE DAMBO
	DJABULA
	HUCO
	KETICANE
	LIDZACA (TUCHAMANINE)
	MABILIBILI
	MAMOLI
	MANHIHANE
	MASSINDLA
	MUDISSA
	NCASSANE
	NCUNVANA
	SALAMANGA A
	ZIHALE
	ZITUNDO

District	Villages
MANHIÇA	BAIRRO - 3 (TANINGA)
	BAIRRO 121
	BAIRRO 151
	C.CAMBEVE
	CHIBUCUTSU
	CHICHAVANINE
	CHITUTO
	CIR. MALUANA
	HUNGUANA
	MACHOVANA
	MALUNGANA
	MANGOINE
	MIRONE
	MOBANA
	NWAMATIBYANA
	PATEQUE
	PATI
	XINAVANE
MARRACUENE	BOBOLE
	CUMBEZA
	GIMO OCOSSA
	GUAVA
	HOBJANA
	MACANETA II
	MARRACUENE
	MATIMANA
	MICHAFUTENE
	MUCIZE
	MURONDZANE
	NANDJA
	SAMORA MACHEL

LANDMINE-AFFECTED VILLAGES:

District	Admin Post	Village	Village Population	Number of SMAs	Total	Recent Victims	Mine Impact Score
	Aumin Post	Village	ropulation	SIVIAS	VICUIIIS	Victilis	Score
BOANE							
	BOANE	50445					
		BOANE	Unknown	2	N/A	0	Low
		TCHOMISSA	782	2	10	0	Medium
		25 DE JUNHO	713	1	2	0	Low
		MARIAN NGUABI	1167	2	7	0	Medium
		EDUARDO	1922	1	0	0	Medium
		MAHUMANA MAHANHANE	125 224	2 1	0 3	0	Low Medium
	MATOLA RIC		224	<u>'</u>	3	U	Medium
	MATOLATIC	MULOTANA	794	3	3	0	Low
		MATOLA-RIO	2650	3	1	0	Low
MAGUDE	=						
	MAGUDE						
		MAGUDE	Unknown	2	N/A	1	Medium
		COLO	813	2	4	0	Low
		CHICHANDUCO MOINE-SEDE	719 637	1 3	1 N/A	0	Medium Medium
		MOINE-SEDE SIMBE	330	3 2	N/A N/A	0	Medium
		GUINHANA	Unknown	1	N/A	0	Low
		TIMANGUENE	343	4	1	0	Medium
	MAHELE						
		MAHELE-SEDE	293	2	1	0	Low
		CHICUTSO MANJANGUE	337 478	2 3	3 9	0 3	Low High
		MATONGOMANA	258	2	N/A	0	Low
	MOTAZE						
		MACHAVANA MANGUZULANA	117 125	2 1	2 0	0	Medium Low
		MOTAZE	961	1	3	0	Medium
	PANJANE						
		PANJANE-SEDE CHIVONGUINE	302 415	3 2	5 0	0	Medium Medium
MANHIÇ	Λ	CHIVONGOINE	410	2	U	U	Medium
WANTI	3 DE FEVERE	EIRO					
		3 DE FEVEREIRO	5066	3	0	0	Low
		ALDEIA MALAVEL	4619	1	4	0	Low
	CALANGA	MATUCUTANE	167	1	1	0	Medium
		CHIPUCO	771	1	0	0	Low
	II II & 16 6 11 11	CHECUA	1008	2	4	0	Low
	ILHA JOSINA	MACHEL ILHA JOSINA MACHE	Unknown	3	8	0	Low
	MALUANA	ILITA GOOTNA IVIAGNE	OHRHOWH	3	J	J	LUW
		MACANDZENE	1119	4	0	0	Medium
		PHATENE	1375 2577	1 3	1 3	1 0	Medium
	MANHIÇA	XERINDA	2577	J	3	U	Low
		CHAFUTENE	1545	2	1	0	Low
		NHAMBI	1208	2	0	0	Low
		MITILENE MACHECANA	2065 1099	2 2	1 0	0 0	Low Low
		MANHICA	306	1	0	0	Low
		MACIANA-SEDE	6096	2	4	0	Low
	XINAVANE	MARAGRA - SEDE	607	1	0	0	Low
	MINAVAILE	MATLOLO	2106	1	1	0	Low
Cour	D ON NEXT D						
CONTINUE	ED ON NEXT PAG)E					

D:		Ven	Village	Number of	Total		Mine Impact
District	Admin Post	Village	Population	SMAs	victims	Victims	Score
MARRAC	UENE						
	MARRACUEN	lE					
		MAPULANGO	727	1	7	0	Low
		MALI	782	1	5	0	Low
		MUMEMO NDIXE	313 509	1 1	3 5	0	Low Medium
		MATALANE	917	1	5	1	Medium
		NHONGONHANE	126	2	5	0	Low
MATUTU	INE						
	CATEMBE						
		MUGAZINE (Catembe)	Unknown	1	4	0	Low
		FELIPE	536	1	1	0	Low
		POVOACAO(DJABIS	206	1	4	0	Low
		CUACHE	260	1	0	0	Medium
	CATUANE	BAIRRO 151	383	7	6	1	High
	CATUANE	MAHAU	1373	3	49	1	Medium
		MALATXOTA	1	4	3	0	Low
		MANHANGANE	3211	2	4	0	Medium
		CATUANE	96	1	1	0	Low
	MACHANGUL						
		MACHANGULO	Unknown	1	0	0	Medium
	MISSEVENE						
		BELA VISTA	Unknown	2	3	0	Medium
		HINDANE POCHANE	648 827	2 2	4 19	0	Medium Low
		MADJUBA	632	2	6	1	Medium
		CAPEZULO	131	2	2	0	Medium
		DUNHA	215	1	2	0	Low
		SALAMANGA B	1024	1	15	0	Low
		TANGA	291	3	4	0	Low
		MACASSANE	710	2	1	0	Low
		TINONGANINE SANTACA	446 287	2 3	8 0	0	Low Low
	ZITUNDO	SANTACA	201	3	U	U	LOW
	LITORIDO	PONTA D10URO	1243	2	2	1	Medium
		PHUZA	395	2	0	0	Low
MOAMBA	4						
	MOAMBA						
		MOAMBA	Unknown	1	0	0	Low
		CHIMEZANE	41	2	6	1	Medium
		JOSINA MACHEL	70	1	3	0	Low
	PESSENE	DECOEME	Links	4		•	1
		PESSENE MAGUAZA	Unknown 156	4 2	5 N/A	0 0	Low Low
		DAMO	528	1	11	0	Low
		UACHAVANE	226	1	9	0	Low
		HLANGUENE	645	1	3	0	Low
		TENGA	578	2	11	0	Low
	DE00 1112	MACHAMBUTANA	990	1	0	0	Low
	RESSANO GA		University	2	44	0	Law
		RESSANO GARCIA CHANCULO	Unknown 369	3 3	11 0	0 0	Low
		CHANCULO	223	3 1	0	0	Medium Low
		MOVENE	273	2	5	0	Medium
		MUBOBO	198	1	28	1	Medium
		PANGANE	165	1	2	0	Low
NAMAAC	HA						
	CHANGALAN	IE					
		PORTO HENRIQUE	1535	2	N/A	0	Medium
		CHANGALANE-SE	1703	3	1	0	Medium
	NAMAACHA	DEMAGRANCE	20				
		BEMASSANGO MATIANINE 1A1	22 385	1 2	0 4	0 0	Low
		MACUACUA	385 341	2	4 11	0	Low Low
		COCOMELA	615	1	0	0	Low
		MATIAMINE B	199	1	5	0	Low
		GERMANTINO	75	1	1	0	Low
		MANDEVO	1560	2	0	0	Medium
		MANDEVO MAFAVUCA I	348	2	2	1	Medium
		MANDEVO MAFAVUCA I MUDAVENE	348 598	2 1	2 0	1 0	Medium Low
		MANDEVO MAFAVUCA I	348	2	2	1	Medium