

<b>1 SURVEY STOP</b>							
1-1 date	18/04/03 10:51	18/04/03 11:39	18/04/03 11:58	18/04/03 12:21	18/04/03 12:51	18/04/03 18:09	
1-2 name	Sarkoh	Shahrak Jalq	Qaley Omara	Tapook 1st	Tapook 2st	Mashkl	
1-3 latitude (N)	27°35'24"N	27°36'0"N	27°35'23"N	27°36'36"N	27°36'36"N	27°3'36"N	
1-4 longitude (E or W)	62°41'23"E	62°42'36"E	62°42'47"E	62°43'48"E	62°44'24"E	62°42'36"E	
<b>2 ECOLOGY</b>							
2-1 area (ha) of survey	100	10	100	200	200	1000	
2-2 habitat (wadi, plains, dunes, crops)	Crops	Crops	Wadi	Crops	Wadi	Wadi	
2-3 date of last rain	17/04/03	17/04/03	17/04/03	17/04/03	17/04/03	17/04/03	
2-4 rain amount (mm, Low Moderate High. ?)	Low	Low	Low	Low	Low	Low	
2-5 vegetation (dry, greening, green, drying)	Green	Green	Dry	Green	Dry	Green	
2-6 vegetation density (Low Medium Dense)	Dense	Dense	Low	Dense	Medium	Medium	
2-7 soil moisture (wet/dry)	Wet	Wet	Dry	Wet	Wet	Dry	
<b>3 LOCUSTS</b>							
3-1 present or absent	Absent	Absent	Absent	Absent	Absent	Absent	
3-2 area infested (ha)							
<b>4 HOPPERS</b>							
4-1 hopper stages (H123456F)							
4-2 appearance (solitary, transiens, gregarious)							
4-3 behaviour (isolated, scattered, groups)							
4-4 hopper density (/site, /m2, Low Med High)							
<b>5 BANDS</b>							
5-1 band stage (H12345F)							
5-2 band density (/m2 or Low Medium High)							
5-3 band sizes (m2 or ha)							
5-4 number of bands							
<b>6 ADULTS</b>							
6-1 maturity (immature, mature)							
6-2 appearance (solitary, transiens, gregarious)							
6-3 behaviour (isolated, scattered, groups)							
6-4 adult density (/transect, /ha, L M H)							
6-5 breeding (copulating, laying)							
<b>7 SWARMS</b>							
7-1 maturity (immature, mature)							
7-2 swarm density (/m2 or Low Medium High)							
7-3 swarm size (km2 or ha)							
7-4 number of swarms							
7-5 breeding (copulating, laying)							
7-6 flying (direction, time passing)							
7-7 flying height (Low Medium High)							
<b>8 CONTROL</b>							
8-1 pesticide name & formulation							
8-2 application rate (l/ha or kg/ha)							
8-3 quantity (l)							
8-4 area treated (ha)							
8-5 ground or air							
8-6 estimated % kill							
<b>9 COMMENTS</b>							
	T=30c R.H.28% Spot coordinates	T=31c R.H.27% Spot coordinates are a house inside Palm trees present in village	T=30c R.H.23%	T=30c R.H.33% Spot coordinates	T=34c R.H. 22% Spot coordinates	T=18c R.H.17% Spot coordinates	

kc 99.03

Was a GPS used to determine locations? yes

Is a brief interpretation or analysis of the results included? no

Country: **IR. Iran**

Locust Officer : **Joint Survey Team**

date : **30-Apr-03**

cleared by : **Cressman**

date : **30-Apr-03**

<b>1</b>	<b>SURVEY STOP</b>						
1-1	date	18/04/03 18:21	19/04/03 08:36	19/04/03 09:43	19/04/03 10:35	19/04/03 11:38	19/04/03 12:15
1-2	name	Mashki 2st	Kushok	Dehe Kahor Paien	Kahne shahr	Mehrabad	Dehe Bala
1-3	latitude (N)	27°3'36"N	27°3'36"N	27°5'17"N	27°7'11"N	27°33'0"N	27°33'35"N
1-4	longitude (E or W)	62°43'12"E	62°4'12"E	61°52'56"E	61°40'47"E	61°38'24"E	61°37'48"E
<b>2</b>	<b>ECOLOGY</b>						
2-1	area (ha) of survey	700	300	500	500	700	300
2-2	habitat (wadi, plains, dunes, crops)	Wadi	Wadi	Plains	Crops	Crops	Crops
2-3	date of last rain	17/04/03	22/03/03	22/03/03	22/03/03	22/03/03	22/03/03
2-4	rain amount (mm, Low Moderate High. ?)	Low	Low	Low	Low	Low	Low
2-5	vegetation (dry, greening, green, drying)	Green	Green	Green	Green	Green	Green
2-6	vegetation density (Low Medium Dense)	Low	Low	Medium	Dense	Dense	Dense
2-7	soil moisture (wet/dry)	Dry	Dry	Dry	Wet	Wet	Wet
<b>3</b>	<b>LOCUSTS</b>						
3-1	present or absent	Absent	Absent	Absent	Absent	Absent	Absent
3-2	area infested (ha)						
<b>4</b>	<b>HOPPERS</b>						
4-1	hopper stages (H123456F)						
4-2	appearance (solitary, transiens, gregarious)						
4-3	behaviour (isolated, scattered, groups)						
4-4	hopper density (/site, /m2, Low Med High)						
<b>5</b>	<b>BANDS</b>						
5-1	band stage (H12345F)						
5-2	band density (/m2 or Low Medium High)						
5-3	band sizes (m2 or ha)						
5-4	number of bands						
<b>6</b>	<b>ADULTS</b>						
6-1	maturity (immature, mature)						
6-2	appearance (solitary, transiens, gregarious)						
6-3	behaviour (isolated, scattered, groups)						
6-4	adult density (/transect, /ha, L M H)						
6-5	breeding (copulating, laying)						
<b>7</b>	<b>SWARMS</b>						
7-1	maturity (immature, mature)						
7-2	swarm density (/m2 or Low Medium High)						
7-3	swarm size (km2 or ha)						
7-4	number of swarms						
7-5	breeding (copulating, laying)						
7-6	flying (direction, time passing)						
7-7	flying height (Low Medium High)						
<b>8</b>	<b>CONTROL</b>						
8-1	pesticide name & formulation						
8-2	application rate (l/ha or kg/ha)						
8-3	quantity (l)						
8-4	area treated (ha)						
8-5	ground or air						
8-6	estimated % kill						
<b>9</b>	<b>COMMENTS</b>						
		T=28c R.H.18% Spot coordinates	T=22c R.H.26% Spot coordinates	T=27c R.H.23%	T=27c R.H.21%	T=26c R.H.32% Spot coordinates	T=32c R.H.20% Spot coordinates

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Is a brief interpretation or analysis of the results included? no

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Locust Officer : **Joint Survey Team**

date : **30-Apr-03**

cleared by : **Cressman**

date : **30-Apr-03**

<b>1 SURVEY STOP</b>						
1-1 date	19/04/03 12:41	19/04/03 13:45	19/04/03 14:14	19/04/03 14:40	20/04/03 09:43	20/04/03 10:15
1-2 name	Chahe Pali	Bakhshan	Sarjoo	Qalea Shahbaz	Balochan Chahe	Spake
1-3 latitude (N)	27°33'28"N	27°22'48"N	27°21'36"N	27°19'58"N	26°59'25"N	26°51'7"N
1-4 longitude (E or W)	61°35'7"E	62°18'36"E	62°19'48"E	62°19'50"E	60°7'9"E	60°9'53"E
<b>2 ECOLOGY</b>						
2-1 area (ha) of survey	500	250	400	100	1000	1000
2-2 habitat (wadi, plains, dunes, crops)	Plains	Crops	Crops	Wadi	Dunes	Dunes
2-3 date of last rain	17/04/03	17/04/03	17/04/03	17/04/03	10/04/03	10/04/03
2-4 rain amount (mm, Low Moderate High. ?)	Low	Low	Low	Low	Moderate	Moderate
2-5 vegetation (dry, greening, green, drying)	Green	Green	Green	Green	Dry	Greening
2-6 vegetation density (Low Medium Dense)	Low	Dense	Dense	Medium	Low	Medium
2-7 soil moisture (wet/dry)	Wet	Wet	Wet	Dry	Dry	Dry
<b>3 LOCUSTS</b>						
3-1 present or absent	Absent	Absent	Absent	Absent	Absent	Absent
3-2 area infested (ha)						
<b>4 HOPPERS</b>						
4-1 hopper stages (H123456F)						
4-2 appearance (solitary, transiens, gregarious)						
4-3 behaviour (isolated, scattered, groups)						
4-4 hopper density (/site, /m2, Low Med High)						
<b>5 BANDS</b>						
5-1 band stage (H12345F)						
5-2 band density (/m2 or Low Medium High)						
5-3 band sizes (m2 or ha)						
5-4 number of bands						
<b>6 ADULTS</b>						
6-1 maturity (immature, mature)						
6-2 appearance (solitary, transiens, gregarious)						
6-3 behaviour (isolated, scattered, groups)						
6-4 adult density (/transect, /ha, L M H)						
6-5 breeding (copulating, laying)						
<b>7 SWARMS</b>						
7-1 maturity (immature, mature)						
7-2 swarm density (/m2 or Low Medium High)						
7-3 swarm size (km2 or ha)						
7-4 number of swarms						
7-5 breeding (copulating, laying)						
7-6 flying (direction, time passing)						
7-7 flying height (Low Medium High)						
<b>8 CONTROL</b>						
8-1 pesticide name & formulation						
8-2 application rate (l/ha or kg/ha)						
8-3 quantity (l)						
8-4 area treated (ha)						
8-5 ground or air						
8-6 estimated % kill						
<b>9 COMMENTS</b>						
	T=27c R.H.21%	T=29c R.H.20%	T=30c R.H.19% Spot coordinates	T=32c R.H.17% Spot coordinates were not reached because on top of mountain 710m from here	T=29c R.H.20%	T=29c R.H.18%

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Is a brief interpretation or analysis of the results included? no

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Locust Officer : **Joint Survey Team**

date : **30-Apr-03**

cleared by : **Cressman**

date : **30-Apr-03**

<b>1 SURVEY STOP</b>						
1-1 date	20/04/03 11:20	20/04/03 13:15	20/04/03 16:22	20/04/03 17:00	20/04/03 17:28	20/04/03 17:48
1-2 name	Ogin	Nick Shahr	Korsar	Dalsar 1st	Dalsar 2st	Karchan
1-3 latitude (N)	26°34'35"N	26°15'19"N	26°13'11"N	26°13'47"N	26°13'11"N	26°12'7"N
1-4 longitude (E or W)	59°58'26"E	60°16'26"E	60°44'24"E	60°45'0"E	60°45'0"E	60°50'11"E
<b>2 ECOLOGY</b>						
2-1 area (ha) of survey	50	200	400	500	250	600
2-2 habitat (wadi, plains, dunes, crops)	Plains	Wadi	Crops	Crops	Crops	Wadi
2-3 date of last rain	10/04/03	16/04/03	16/04/03	16/04/03	16/04/03	16/04/03
2-4 rain amount (mm, Low Moderate High. ?)	Moderate	Low	Low	Low	Low	Low
2-5 vegetation (dry, greening, green, drying)	Greening	Green	Green	Green	Green	Green
2-6 vegetation density (Low Medium Dense)	Dense	Medium	Medium	Dense	Dense	Medium
2-7 soil moisture (wet/dry)	Dry	Dry	Wet	Wet	Wet	Dry
<b>3 LOCUSTS</b>						
3-1 present or absent	Absent	Absent	Absent	Absent	Absent	Absent
3-2 area infested (ha)						
<b>4 HOPPERS</b>						
4-1 hopper stages (H123456F)						
4-2 appearance (solitary, transiens, gregarious)						
4-3 behaviour (isolated, scattered, groups)						
4-4 hopper density (/site, /m2, Low Med High)						
<b>5 BANDS</b>						
5-1 band stage (H12345F)						
5-2 band density (/m2 or Low Medium High)						
5-3 band sizes (m2 or ha)						
5-4 number of bands						
<b>6 ADULTS</b>						
6-1 maturity (immature, mature)						
6-2 appearance (solitary, transiens, gregarious)						
6-3 behaviour (isolated, scattered, groups)						
6-4 adult density (/transect, /ha, L M H)						
6-5 breeding (copulating, laying)						
<b>7 SWARMS</b>						
7-1 maturity (immature, mature)						
7-2 swarm density (/m2 or Low Medium High)						
7-3 swarm size (km2 or ha)						
7-4 number of swarms						
7-5 breeding (copulating, laying)						
7-6 flying (direction, time passing)						
7-7 flying height (Low Medium High)						
<b>8 CONTROL</b>						
8-1 pesticide name & formulation						
8-2 application rate (l/ha or kg/ha)						
8-3 quantity (l)						
8-4 area treated (ha)						
8-5 ground or air						
8-6 estimated % kill						
<b>9 COMMENTS</b>						
	T=26c R.H.18%	T=35c R.H.16%	T=35c R.H.16% Spot coordinates	T=36c R.H.20% Spot coordinates	T=34c R.H.18% Spot coordinates	T=35c R.H.15%

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Locust Officer : **Joint Survey Team**

date : **30-Apr-03**

cleared by : **Cressman**

date : **30-Apr-03**

<b>1 SURVEY STOP</b>						
1-1 date	20/04/03 19:00	21/04/03 09:00	21/04/03 09:56	21/04/03 10:26	21/04/03 11:40	21/04/03 12:40
1-2 name	Kiborz	Ramin	Kachoo	Beris Area	Gowater	Beris Area 2st
1-3 latitude (N)	25°54'50"N	25°16'16"N	25°14'43"N	25°10'35"N	25°09'52"N	25°07'3"N
1-4 longitude (E or W)	61°31'7"E	60°47'0"E	60°53'31"E	61°8'33"E	61°29'43"E	61°13'40"E
<b>2 ECOLOGY</b>						
2-1 area (ha) of survey	50	500	600	50	100	250
2-2 habitat (wadi, plains, dunes, crops)	Plains	Dunes	Plains	Dunes	Plains	Plains
2-3 date of last rain	16/04/03	28/02/03	28/02/03	28/02/03	28/02/03	28/02/03
2-4 rain amount (mm, Low Moderate High. ?)	Low	Low	Low	Low	Low	Low
2-5 vegetation (dry, greening, green, drying)	Green	Greening	Dry	Green	Green	Dry
2-6 vegetation density (Low Medium Dense)	Low	Low	Low	Low	Medium	Low
2-7 soil moisture (wet/dry)	Dry	Dry	Dry	Dry	Wet	Dry
<b>3 LOCUSTS</b>						
3-1 present or absent	Absent	Absent	Absent	Absent	Absent	Absent
3-2 area infested (ha)						
<b>4 HOPPERS</b>						
4-1 hopper stages (H123456F)						
4-2 appearance (solitary, transiens, gregarious)						
4-3 behaviour (isolated, scattered, groups)						
4-4 hopper density (/site, /m2, Low Med High)						
<b>5 BANDS</b>						
5-1 band stage (H12345F)						
5-2 band density (/m2 or Low Medium High)						
5-3 band sizes (m2 or ha)						
5-4 number of bands						
<b>6 ADULTS</b>						
6-1 maturity (immature, mature)						
6-2 appearance (solitary, transiens, gregarious)						
6-3 behaviour (isolated, scattered, groups)						
6-4 adult density (/transect, /ha, L M H)						
6-5 breeding (copulating, laying)						
<b>7 SWARMS</b>						
7-1 maturity (immature, mature)						
7-2 swarm density (/m2 or Low Medium High)						
7-3 swarm size (km2 or ha)						
7-4 number of swarms						
7-5 breeding (copulating, laying)						
7-6 flying (direction, time passing)						
7-7 flying height (Low Medium High)						
<b>8 CONTROL</b>						
8-1 pesticide name & formulation						
8-2 application rate (l/ha or kg/ha)						
8-3 quantity (l)						
8-4 area treated (ha)						
8-5 ground or air						
8-6 estimated % kill						
<b>9 COMMENTS</b>						
	T=30c R.H.42%	T=32c R.H.30%	T=32c R.H.24%	T=30c R.H.56%	T=33c R.H.40%	T=32c R.H.54%

kc 99.03

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Is a brief interpretation or analysis of the results included? no

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Locust Officer : **Joint Survey Team**

date : **30-Apr-03**

cleared by : **Cressman**

date : **30-Apr-03**

<b>1 SURVEY STOP</b>						
1-1 date	21/04/03 13:02	22/04/03 09:35	22/04/03 09:59	22/04/03 12:09	22/04/03 12:35	22/04/03 13:24
1-2 name	Sham	Vashnam 1st	Vashnam 2st	Oraki 1st	Oraki 2st	Balochi
1-3 latitude (N)	25°12'14"N	25°22'48"N	25°25'1"N	25°44'24"N	25°42'35"N	25°26'54"N
1-4 longitude (E or W)	61°06'43"E	60°45'26"E	60°47'46"E	60°56'24"E	60°57'0"E	61°08'17"E
<b>2 ECOLOGY</b>						
2-1 area (ha) of survey	20	250	500	300	250	150
2-2 habitat (wadi, plains, dunes, crops)	Crops	Plains	Plains	Crops	Crops	Plains
2-3 date of last rain	28/02/03	28/02/03	28/02/03	28/02/03	28/02/03	28/02/03
2-4 rain amount (mm, Low Moderate High. ?)	Low	Low	Low	Low	Low	Low
2-5 vegetation (dry, greening, green, drying)	Green	Drying	Greening	Green	Green	Green
2-6 vegetation density (Low Medium Dense)	Dense	Low	Medium	Dense	Dense	Low
2-7 soil moisture (wet/dry)	Wet	Dry	Dry	Wet	Wet	Dry
<b>3 LOCUSTS</b>						
3-1 present or absent	Absent	Absent	Absent	Absent	Absent	Absent
3-2 area infested (ha)						
<b>4 HOPPERS</b>						
4-1 hopper stages (H123456F)						
4-2 appearance (solitary, transiens, gregarious)						
4-3 behaviour (isolated, scattered, groups)						
4-4 hopper density (/site, /m2, Low Med High)						
<b>5 BANDS</b>						
5-1 band stage (H12345F)						
5-2 band density (/m2 or Low Medium High)						
5-3 band sizes (m2 or ha)						
5-4 number of bands						
<b>6 ADULTS</b>						
6-1 maturity (immature, mature)						
6-2 appearance (solitary, transiens, gregarious)						
6-3 behaviour (isolated, scattered, groups)						
6-4 adult density (/transect, /ha, L M H)						
6-5 breeding (copulating, laying)						
<b>7 SWARMS</b>						
7-1 maturity (immature, mature)						
7-2 swarm density (/m2 or Low Medium High)						
7-3 swarm size (km2 or ha)						
7-4 number of swarms						
7-5 breeding (copulating, laying)						
7-6 flying (direction, time passing)						
7-7 flying height (Low Medium High)						
<b>8 CONTROL</b>						
8-1 pesticide name & formulation						
8-2 application rate (l/ha or kg/ha)						
8-3 quantity (l)						
8-4 area treated (ha)						
8-5 ground or air						
8-6 estimated % kill						
<b>9 COMMENTS</b>						
	T=31c R.H.40%	T=33c R.H.52%	T=31c R.H.56%	T=35c R.H.35% Spot coordinates	T=36c R.H.35% Spot coordinates	T=35c R.H.29%

kc 99.03

Was a GPS used to determine locations? yes

Is a brief interpretation or analysis of the results included? no

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Locust Officer : **Joint Survey Team**

date : **30-Apr-03**

cleared by : **Cressman**

date : **30-Apr-03**

<b>1</b>	<b>SURVEY STOP</b>						
1-1	date	22/04/03 13:44	23/04/03 09:20	23/04/03 10:09	23/04/03 10:34	23/04/03 11:04	23/04/03 11:22
1-2	name	Negor	Barak	Kahir	Bir Bala	Bandini	Darak
1-3	latitude (N)	25°22'52"N	25°28'49"N	25°35'21"N	25°27'22"N	25°28'50"N	25°28'7"N
1-4	longitude (E or W)	61°09'25"E	60°31'49"E	60°5'51"E	59°48'50"E	59°34'12"E	59°30'19"E
<b>2</b>	<b>ECOLOGY</b>						
2-1	area (ha) of survey	200	700	200	250	400	150
2-2	habitat (wadi, plains, dunes, crops)	Plains	Dunes	Dunes	Dunes	Plains	Plains
2-3	date of last rain	28/02/03	28/02/03	28/02/03	28/02/03	28/02/03	28/02/03
2-4	rain amount (mm, Low Moderate High. ?)	Low	Low	Low	Low	Low	Low
2-5	vegetation (dry, greening, green, drying)	Green	Green	Green	Green	Green	Green
2-6	vegetation density (Low Medium Dense)	Low	Medium	Medium	Medium	Medium	Medium
2-7	soil moisture (wet/dry)	Dry	Dry	Dry	Dry	Dry	Dry
<b>3</b>	<b>LOCUSTS</b>						
3-1	present or absent	Absent	Absent	Absent	Absent	Absent	Absent
3-2	area infested (ha)						
<b>4</b>	<b>HOPPERS</b>						
4-1	hopper stages (H123456F)						
4-2	appearance (solitary, transiens, gregarious)						
4-3	behaviour (isolated, scattered, groups)						
4-4	hopper density (/site, /m2, Low Med High)						
<b>5</b>	<b>BANDS</b>						
5-1	band stage (H12345F)						
5-2	band density (/m2 or Low Medium High)						
5-3	band sizes (m2 or ha)						
5-4	number of bands						
<b>6</b>	<b>ADULTS</b>						
6-1	maturity (immature, mature)						
6-2	appearance (solitary, transiens, gregarious)						
6-3	behaviour (isolated, scattered, groups)						
6-4	adult density (/transect, /ha, L M H)						
6-5	breeding (copulating, laying)						
<b>7</b>	<b>SWARMS</b>						
7-1	maturity (immature, mature)						
7-2	swarm density (/m2 or Low Medium High)						
7-3	swarm size (km2 or ha)						
7-4	number of swarms						
7-5	breeding (copulating, laying)						
7-6	flying (direction, time passing)						
7-7	flying height (Low Medium High)						
<b>8</b>	<b>CONTROL</b>						
8-1	pesticide name & formulation						
8-2	application rate (l/ha or kg/ha)						
8-3	quantity (l)						
8-4	area treated (ha)						
8-5	ground or air						
8-6	estimated % kill						
<b>9</b>	<b>COMMENTS</b>						
		T=35c R.H.28%	T=27c R.H.74%	T=28c R.H.65%	T=30c R.H.60%	T=30c R.H.62%	T=30c R.H.64%

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<b>1 SURVEY STOP</b>						
1-1 date	23/04/03 11:34	23/04/03 12:04	23/04/03 13:34	23/04/03 14:34	23/04/03 18:42	24/04/03 16:25
1-2 name	Poshti	Moradi Kashagh	Eme	Hojdan 1st	hojdan 2st	Qalae Qazi
1-3 latitude (N)	25°29'46"N	25°39'0"N	25°44'51"N	25°42'31"N	25°39'45"N	27°25'48"N
1-4 longitude (E or W)	59°26'59"E	59°21'0"E	58°37'25"E	57°54'24"E	58°2'16"E	56°33'36"E
<b>2 ECOLOGY</b>						
2-1 area (ha) of survey	5	300	1000	500	400	400
2-2 habitat (wadi, plains, dunes, crops)	Crops	Crops	Dunes	Dunes	Dunes	Crops
2-3 date of last rain	28/02/03	28/02/03	28/02/03	28/02/03	28/02/03	15/04/03
2-4 rain amount (mm, Low Moderate High. ?)	Low	Low	Low	Low	Low	Low
2-5 vegetation (dry, greening, green, drying)	Green	Green	Green	Green	Green	Green
2-6 vegetation density (Low Medium Dense)	Dense	Dense	Medium	Medium	Medium	Dense
2-7 soil moisture (wet/dry)	Wet	Wet	Dry	Dry	Dry	Wet
<b>3 LOCUSTS</b>						
3-1 present or absent	Absent	Absent	Absent	Absent	Absent	Absent
3-2 area infested (ha)						
<b>4 HOPPERS</b>						
4-1 hopper stages (H123456F)						
4-2 appearance (solitary, transiens, gregarious)						
4-3 behaviour (isolated, scattered, groups)						
4-4 hopper density (/site, /m2, Low Med High)						
<b>5 BANDS</b>						
5-1 band stage (H12345F)						
5-2 band density (/m2 or Low Medium High)						
5-3 band sizes (m2 or ha)						
5-4 number of bands						
<b>6 ADULTS</b>						
6-1 maturity (immature, mature)						
6-2 appearance (solitary, transiens, gregarious)						
6-3 behaviour (isolated, scattered, groups)						
6-4 adult density (/transect, /ha, L M H)						
6-5 breeding (copulating, laying)						
<b>7 SWARMS</b>						
7-1 maturity (immature, mature)						
7-2 swarm density (/m2 or Low Medium High)						
7-3 swarm size (km2 or ha)						
7-4 number of swarms						
7-5 breeding (copulating, laying)						
7-6 flying (direction, time passing)						
7-7 flying height (Low Medium High)						
<b>8 CONTROL</b>						
8-1 pesticide name & formulation						
8-2 application rate (l/ha or kg/ha)						
8-3 quantity (l)						
8-4 area treated (ha)						
8-5 ground or air						
8-6 estimated % kill						
<b>9 COMMENTS</b>						
	T=30c R.H.70%	T=34c R.H.47% Spot coordinates	T=33c R.H.69%	T=33c R.H.53%	T=33c R.H.60%	T=31c R.H.49%

kc 99.03

Was a GPS used to determine locations? yes

Is a brief interpretation or analysis of the results included? no

Country: **IR. Iran**

Locust Officer : **Joint Survey Team**

date : **30-Apr-03**

cleared by : **Cressman**

date : **30-Apr-03**



<b>1 SURVEY STOP</b>						
1-1 date	24/04/03 20:07	25/04/03 09:35	25/04/03 09:51	25/04/03 10:17	25/04/03 10:55	25/04/03 11:37
1-2 name	Jalabi	Ganj Abad 1st	Ganj Abad 2st	Sorkh Qala	Shamzan	Chah Shahi
1-3 latitude (N)	27°21'33"N	27°51'35"N	27°49'48"N	27°46'47"N	27°37'11"N	27°25'47"N
1-4 longitude (E or W)	56°46'23"E	57°55'11"E	57°56'23"E	57°57'36"E	57°56'24"E	57°54'36"E
<b>2 ECOLOGY</b>						
2-1 area (ha) of survey	250	300	400	500	400	500
2-2 habitat (wadi, plains, dunes, crops)	Plains	Crops	Crops	Crops	Crops	Crops
2-3 date of last rain	15/04/03	25/03/03	25/03/03	25/03/03	25/03/03	25/03/03
2-4 rain amount (mm, Low Moderate High. ?)	Low	Low	Low	Low	Low	Low
2-5 vegetation (dry, greening, green, drying)	Green	Green	Green	Green	Green	Green
2-6 vegetation density (Low Medium Dense)	Medium	Medium	Dense	Medium	Medium	Dense
2-7 soil moisture (wet/dry)	Dry	Wet	Wet	Dry	Dry	Wet
<b>3 LOCUSTS</b>						
3-1 present or absent	Absent	Absent	Absent	Absent	Absent	Absent
3-2 area infested (ha)						
<b>4 HOPPERS</b>						
4-1 hopper stages (H123456F)						
4-2 appearance (solitary, transiens, gregarious)						
4-3 behaviour (isolated, scattered, groups)						
4-4 hopper density (/site, /m2, Low Med High)						
<b>5 BANDS</b>						
5-1 band stage (H12345F)						
5-2 band density (/m2 or Low Medium High)						
5-3 band sizes (m2 or ha)						
5-4 number of bands						
<b>6 ADULTS</b>						
6-1 maturity (immature, mature)						
6-2 appearance (solitary, transiens, gregarious)						
6-3 behaviour (isolated, scattered, groups)						
6-4 adult density (/transect, /ha, L M H)						
6-5 breeding (copulating, laying)						
<b>7 SWARMS</b>						
7-1 maturity (immature, mature)						
7-2 swarm density (/m2 or Low Medium High)						
7-3 swarm size (km2 or ha)						
7-4 number of swarms						
7-5 breeding (copulating, laying)						
7-6 flying (direction, time passing)						
7-7 flying height (Low Medium High)						
<b>8 CONTROL</b>						
8-1 pesticide name & formulation						
8-2 application rate (l/ha or kg/ha)						
8-3 quantity (l)						
8-4 area treated (ha)						
8-5 ground or air						
8-6 estimated % kill						
<b>9 COMMENTS</b>						
	T=29c R.H.43%	T=30c R.H.32% Spot coordinates	T=30c R.H.31% Spot coordinates	T=34c R.H.27% Spot coordinates	T=34c R.H.24% Spot coordinates	T=34c R.H.33% Spot coordinates

kc 99.03

Was a GPS used to determine locations? yes

Is a brief interpretation or analysis of the results included? no

Country: **IR. Iran**

Locust Officer : **Joint Survey Team**

date : **30-Apr-03**

cleared by : **Cressman**

date : **30-Apr-03**

<b>1</b>	<b>SURVEY STOP</b>						
1-1	date	25/04/03 12:37	25/04/03 12:52	25/04/03 13:01	25/04/03 14:43	26/04/03 09:17	26/04/03 09:44
1-2	name	Chah Zardal	Sulan 1st	Toorig	Jaz Murian	Bahador Abad	Sohran
1-3	latitude (N)	27°10'30"N	27°10'41"N	27°11'20"N	27°23'41"N	28°11'10"N	28°05'59"N
1-4	longitude (E or W)	58°31'12"E	58°33'48"E	58°34'52"E	58°26'33"E	57°51'26"E	57°52'12"E
<b>2</b>	<b>ECOLOGY</b>						
2-1	area (ha) of survey	600	500	500	1000	200	500
2-2	habitat (wadi, plains, dunes, crops)	Dunes	Dunes	Dunes	Plains	Plains	Plains
2-3	date of last rain	25/03/03	25/03/03	25/03/03	25/03/03	25/03/03	25/03/03
2-4	rain amount (mm, Low Moderate High. ?)	Low	Low	Low	Low	Low	Low
2-5	vegetation (dry, greening, green, drying)	Green	Green	Green	Dry	Green	Green
2-6	vegetation density (Low Medium Dense)	Low	Medium	Low	Low	Medium	Low
2-7	soil moisture (wet/dry)	Dry	Dry	Dry	Dry	Dry	Dry
<b>3</b>	<b>LOCUSTS</b>						
3-1	present or absent	Absent	Absent	Absent	Absent	Absent	Absent
3-2	area infested (ha)						
<b>4</b>	<b>HOPPERS</b>						
4-1	hopper stages (H123456F)						
4-2	appearance (solitary, transiens, gregarious)						
4-3	behaviour (isolated, scattered, groups)						
4-4	hopper density (/site, /m2, Low Med High)						
<b>5</b>	<b>BANDS</b>						
5-1	band stage (H12345F)						
5-2	band density (/m2 or Low Medium High)						
5-3	band sizes (m2 or ha)						
5-4	number of bands						
<b>6</b>	<b>ADULTS</b>						
6-1	maturity (immature, mature)						
6-2	appearance (solitary, transiens, gregarious)						
6-3	behaviour (isolated, scattered, groups)						
6-4	adult density (/transect, /ha, L M H)						
6-5	breeding (copulating, laying)						
<b>7</b>	<b>SWARMS</b>						
7-1	maturity (immature, mature)						
7-2	swarm density (/m2 or Low Medium High)						
7-3	swarm size (km2 or ha)						
7-4	number of swarms						
7-5	breeding (copulating, laying)						
7-6	flying (direction, time passing)						
7-7	flying height (Low Medium High)						
<b>8</b>	<b>CONTROL</b>						
8-1	pesticide name & formulation						
8-2	application rate (l/ha or kg/ha)						
8-3	quantity (l)						
8-4	area treated (ha)						
8-5	ground or air						
8-6	estimated % kill						
<b>9</b>	<b>COMMENTS</b>						
		T=35c R.H.18%	T=39c R.H.13%	T=36c R.H.14%	T=38c R.H.14%	T=30c R.H.25%	T=32c R.H.20% Spot coordinates

kc 99.03

Was a GPS used to determine locations? yes

Is a brief interpretation or analysis of the results included? no

Country: **IR. Iran**

Locust Officer : **Joint Survey Team**

date : **30-Apr-03**

cleared by : **Cressman**

date : **30-Apr-03**

<b>1 SURVEY STOP</b>						
1-1 date	26/04/03 10:56	26/04/03 11:31	26/04/03 12:39	26/04/03 13:09	26/04/03 14:23	26/04/03 14:52
1-2 name	Shah Abad	Chah Hassan	Kahoor Abad	Mirmeqdad	Abas Abad	Chil Mashal
1-3 latitude (N)	27°53'24"N	27°50'24"N	27°44'59"N	27°48'20"N	27°49'47"N	27°49'11"N
1-4 longitude (E or W)	58°11'21"E	58°19'12"E	58°19'12"E	58°19'59"E	58°3'35"E	58°6'0"E
<b>2 ECOLOGY</b>						
2-1 area (ha) of survey	600	250	400	500	500	200
2-2 habitat (wadi, plains, dunes, crops)	Dunes	Crops	Plains	Dunes	Crops	Crops
2-3 date of last rain	25/03/03	25/03/03	18/04/03	18/04/03	25/03/03	25/03/03
2-4 rain amount (mm, Low Moderate High. ?)	Low	Low	Low	Low	Low	Low
2-5 vegetation (dry, greening, green, drying)	Green	Green	Green	Green	Drying	Drying
2-6 vegetation density (Low Medium Dense)	Medium	Dense	Low	Medium	Dense	Dense
2-7 soil moisture (wet/dry)	Dry	Wet	Dry	Dry	Dry	Dry
<b>3 LOCUSTS</b>						
3-1 present or absent	Absent	Absent	Absent	Absent	Absent	Absent
3-2 area infested (ha)						
<b>4 HOPPERS</b>						
4-1 hopper stages (H123456F)						
4-2 appearance (solitary, transiens, gregarious)						
4-3 behaviour (isolated, scattered, groups)						
4-4 hopper density (/site, /m2, Low Med High)						
<b>5 BANDS</b>						
5-1 band stage (H12345F)						
5-2 band density (/m2 or Low Medium High)						
5-3 band sizes (m2 or ha)						
5-4 number of bands						
<b>6 ADULTS</b>						
6-1 maturity (immature, mature)						
6-2 appearance (solitary, transiens, gregarious)						
6-3 behaviour (isolated, scattered, groups)						
6-4 adult density (/transect, /ha, L M H)						
6-5 breeding (copulating, laying)						
<b>7 SWARMS</b>						
7-1 maturity (immature, mature)						
7-2 swarm density (/m2 or Low Medium High)						
7-3 swarm size (km2 or ha)						
7-4 number of swarms						
7-5 breeding (copulating, laying)						
7-6 flying (direction, time passing)						
7-7 flying height (Low Medium High)						
<b>8 CONTROL</b>						
8-1 pesticide name & formulation						
8-2 application rate (l/ha or kg/ha)						
8-3 quantity (l)						
8-4 area treated (ha)						
8-5 ground or air						
8-6 estimated % kill						
<b>9 COMMENTS</b>						
	T=33c R.H.17%	T=34c R.H.21% Spot coordinates	T=35c R.H.13% Spot coordinates	T=38c R.H.13%	T=40c R.H.13% Spot coordinates	T=40c R.H.10% Spot coordinates

kc 99.03

Was a GPS used to determine locations? yes

Is a brief interpretation or analysis of the results included? no

Country: **IR. Iran**

Locust Officer : **Joint Survey Team**

date : **30-Apr-03**

cleared by : **Cressman**

date : **30-Apr-03**

<b>1</b>	<b>SURVEY STOP</b>						
1-1	date	27/04/03 09:31	27/04/03 12:55	27/04/03 13:27	27/04/03 13:48	28/04/03 08:44	28/04/03 09:11
1-2	name	Bagher Abad	Chah Mohammad	Chah Alvand	Nemat Abad	Sardegal 1st	Sardegal 2st
1-3	latitude (N)	27°46'48"N	27°32'55"N	27°32'20"N	27°32'59"N	27°14'22"N	27°13'56"N
1-4	longitude (E or W)	58°34'12"E	59°20'24"E	59°17'47"E	59°17'47"E	60°25'27"E	60°23'35"E
<b>2</b>	<b>ECOLOGY</b>						
2-1	area (ha) of survey	250	500	200	150	500	500
2-2	habitat (wadi, plains, dunes, crops)	Crops	Plains	Crops	Plains	Dunes	Dunes
2-3	date of last rain	25/03/03	25/03/03	25/03/03	25/03/03	25/03/03	25/03/03
2-4	rain amount (mm, Low Moderate High. ?)	Low	Low	Low	Low	Low	Low
2-5	vegetation (dry, greening, green, drying)	Green	Drying	Green	Drying	Dry	Dry
2-6	vegetation density (Low Medium Dense)	Dense	Low	Dense	Low	Low	Low
2-7	soil moisture (wet/dry)	Wet	Dry	Wet	Dry	Dry	Dry
<b>3</b>	<b>LOCUSTS</b>						
3-1	present or absent	Absent	Absent	Absent	Absent	Absent	Absent
3-2	area infested (ha)						
<b>4</b>	<b>HOPPERS</b>						
4-1	hopper stages (H123456F)						
4-2	appearance (solitary, transiens, gregarious)						
4-3	behaviour (isolated, scattered, groups)						
4-4	hopper density (/site, /m2, Low Med High)						
<b>5</b>	<b>BANDS</b>						
5-1	band stage (H12345F)						
5-2	band density (/m2 or Low Medium High)						
5-3	band sizes (m2 or ha)						
5-4	number of bands						
<b>6</b>	<b>ADULTS</b>						
6-1	maturity (immature, mature)						
6-2	appearance (solitary, transiens, gregarious)						
6-3	behaviour (isolated, scattered, groups)						
6-4	adult density (/transect, /ha, L M H)						
6-5	breeding (copulating, laying)						
<b>7</b>	<b>SWARMS</b>						
7-1	maturity (immature, mature)						
7-2	swarm density (/m2 or Low Medium High)						
7-3	swarm size (km2 or ha)						
7-4	number of swarms						
7-5	breeding (copulating, laying)						
7-6	flying (direction, time passing)						
7-7	flying height (Low Medium High)						
<b>8</b>	<b>CONTROL</b>						
8-1	pesticide name & formulation						
8-2	application rate (l/ha or kg/ha)						
8-3	quantity (l)						
8-4	area treated (ha)						
8-5	ground or air						
8-6	estimated % kill						
<b>9</b>	<b>COMMENTS</b>						
		Spot coordinates		Spot coordinates		DL 8 yrs ago	

kc 99.03

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Is a brief interpretation or analysis of the results included? no

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Locust Officer : **Joint Survey Team**

date : **30-Apr-03**

cleared by : **Cressman**

date : **30-Apr-03**

<b>1 SURVEY STOP</b>						
1-1 date	28/04/03 09:46	28/04/03 10:13	28/04/03 11:24	28/04/03 12:02	29/04/03 07:50	29/04/03 08:16
1-2 name	Shams Abad 1st	Shams Abad 2st	Hossein Abad	Nokjub	Baghdania	Dawari Motor
1-3 latitude (N)	27°12'29"N	27°11'36"N	27°10'45"N	27°11'26"N	27°10'48"N	27°07'33"N
1-4 longitude (E or W)	60°20'56"E	60°20'20"E	60°27'56"E	60°30'35"E	60°42'35"E	60°43'48"E
<b>2 ECOLOGY</b>						
2-1 area (ha) of survey	250	150		100	50	500
2-2 habitat (wadi, plains, dunes, crops)	Plains	Dunes	Crops	Town	Town	Dunes
2-3 date of last rain	25/03/03	25/03/03	25/03/03	25/03/03	25/03/03	25/03/03
2-4 rain amount (mm, Low Moderate High. ?)	Low	Low	Low	Low	Low	Low
2-5 vegetation (dry, greening, green, drying)	Drying	Green	Green	Green	Green	Greening
2-6 vegetation density (Low Medium Dense)	Low	Medium	Dense	Medium	Medium	Low
2-7 soil moisture (wet/dry)	Dry	Dry	Dry	Wet	Dry	Dry
<b>3 LOCUSTS</b>						
3-1 present or absent	Absent	Absent	Absent	Absent	Absent	Absent
3-2 area infested (ha)						
<b>4 HOPPERS</b>						
4-1 hopper stages (H123456F)						
4-2 appearance (solitary, transiens, gregarious)						
4-3 behaviour (isolated, scattered, groups)						
4-4 hopper density (/site, /m2, Low Med High)						
<b>5 BANDS</b>						
5-1 band stage (H12345F)						
5-2 band density (/m2 or Low Medium High)						
5-3 band sizes (m2 or ha)						
5-4 number of bands						
<b>6 ADULTS</b>						
6-1 maturity (immature, mature)						
6-2 appearance (solitary, transiens, gregarious)						
6-3 behaviour (isolated, scattered, groups)						
6-4 adult density (/transect, /ha, L M H)						
6-5 breeding (copulating, laying)						
<b>7 SWARMS</b>						
7-1 maturity (immature, mature)						
7-2 swarm density (/m2 or Low Medium High)						
7-3 swarm size (km2 or ha)						
7-4 number of swarms						
7-5 breeding (copulating, laying)						
7-6 flying (direction, time passing)						
7-7 flying height (Low Medium High)						
<b>8 CONTROL</b>						
8-1 pesticide name & formulation						
8-2 application rate (l/ha or kg/ha)						
8-3 quantity (l)						
8-4 area treated (ha)						
8-5 ground or air						
8-6 estimated % kill						
<b>9 COMMENTS</b>						
	Spot coordinates not DL habitat	Spot coordinates in palm trees	Spot coordinates. palms + wheat crop in a town			

kc 99.03

Was a GPS used to determine locations? yes

Is a brief interpretation or analysis of the results included? no

Country: **IR. Iran**

Locust Officer : **Joint Survey Team**

date : **30-Apr-03**

cleared by : **Cressman**

date : **30-Apr-03**

<b>1</b>	<b>SURVEY STOP</b>					
1-1	date	29/04/03 08:41	29/04/03 09:37			
1-2	name	Dasht naigon	Mehmari			
1-3	latitude (N)	27°6'52"N	27°7'40"N			
1-4	longitude (E or W)	60°42'59"E	60°40'17"E			
<b>2</b>	<b>ECOLOGY</b>					
2-1	area (ha) of survey	500	250			
2-2	habitat (wadi, plains, dunes, crops)	Dunes	Dunes			
2-3	date of last rain	25/03/03	25/03/03			
2-4	rain amount (mm, Low Moderate High. ?)	Low	Low			
2-5	vegetation (dry, greening, green, drying)	Drying	Green			
2-6	vegetation density (Low Medium Dense)	Low	Low			
2-7	soil moisture (wet/dry)	Dry	Dry			
<b>3</b>	<b>LOCUSTS</b>					
3-1	present or absent	Absent	Absent			
3-2	area infested (ha)					
<b>4</b>	<b>HOPPERS</b>					
4-1	hopper stages (H123456F)					
4-2	appearance (solitary, transiens, gregarious)					
4-3	behaviour (isolated, scattered, groups)					
4-4	hopper density (/site, /m2, Low Med High)					
<b>5</b>	<b>BANDS</b>					
5-1	band stage (H12345F)					
5-2	band density (/m2 or Low Medium High)					
5-3	band sizes (m2 or ha)					
5-4	number of bands					
<b>6</b>	<b>ADULTS</b>					
6-1	maturity (immature, mature)					
6-2	appearance (solitary, transiens, gregarious)					
6-3	behaviour (isolated, scattered, groups)					
6-4	adult density (/transect, /ha, L M H)					
6-5	breeding (copulating, laying)					
<b>7</b>	<b>SWARMS</b>					
7-1	maturity (immature, mature)					
7-2	swarm density (/m2 or Low Medium High)					
7-3	swarm size (km2 or ha)					
7-4	number of swarms					
7-5	breeding (copulating, laying)					
7-6	flying (direction, time passing)					
7-7	flying height (Low Medium High)					
<b>8</b>	<b>CONTROL</b>					
8-1	pesticide name & formulation					
8-2	application rate (l/ha or kg/ha)					
8-3	quantity (l)					
8-4	area treated (ha)					
8-5	ground or air					
8-6	estimated % kill					
<b>9</b>	<b>COMMENTS</b>					
		If green, good DL breeding area. Very high sand dunes	Wheat crop irrigated by tubewell			

kc 99.03

Was a GPS used to determine locations? yes

Is a brief interpretation or analysis of the results included? no

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date : **30-Apr-03**

cleared by : **Cressman**

date : **30-Apr-03**