

Un-Cleared: sites that still needs clearance

No.	Entity	Kanton	Municipality	Local community	Cluster munitions identified		Total size of SHA	Size of SHA Cluster munitions on a mine suspected area	Size of SHA Cluster munitions cluster munitions only	Cancellation probability	Time/Days		%
					Number of strike zones	Type of cluster munitions					Teams	Days	
1	Federacija	Zenicko Dobojski	Vares	Okruglica		BL 755	199,601	199,601	0	Low	5	83	13%
2	Federacija	Sarajevski	Ilijas	Mosevici		BL 755	114,758	114,758	0	Low	5	48	7%
3	Federacija	Zenicko Dobojski	Olovo	Krizevici		BL 755	95,222	95,222	0	Low	5	40	6%
4	Federacija	Sarajevski	Hadzici	Kasatici		BL 755	30,896	30,896	0	Low	5	13	2%
5	Federacija	Tuzlanski	Sapna	Sapna		R-262 M87 Orkan	124,137	124,137	0	Low	5	52	8%
6	Federacija	Hercegovacko Bosanski	Glamoc	Koricina		BL 755	86,866	86,866	0	Low	5	36	6%
7	Federacija	Zenicko Dobojski	Zavidovici	Dubravica	1	BL 755	47,773		47,773	Low	2	13	2%
8	Federacija	Zenicko Dobojski	Vares	Mijakovici	1	R-262 M87 Orkan	65,756		65,756	Low	2	19	3%
9	Federacija	Sarajevski	Hadzici	Pazaric	2	BL 755	110,515		110,515	Low	2	25	4%
10	Federacija	Zenicko Dobojski	Zenica	Smetovi	1	BL 755	42,605		42,605	Low	2	10	1%
11	Republika Srpska		Han Pijesak	Japaga	2	CBU 87/B BLU 97	376,178		376,178	Low	2	106	17%
12	Republika Srpska		Krupa na Uni	Donji Petrovici	1	BL 755	43,611		43,611	Low	2	10	2%
13	Federacija	Zenicko Dobojski	Olovo	Solun	1	BL 755	11,117		11,117	Low	2	2	0%
14	Federacija	Zenicko Dobojski	Zavidovici	Ribnica	2	BL 755	42,002		42,002	Low	2	9	1%
15	Federacija	Tuzlanski	Banovici	Catici	1	R-262 M87 Orkan	23,194		23,194	Low	2	7	1%
16	Federacija	Tuzlanski	Sapna	Sapna	2	R-262 M87 Orkan	79,527		79,527	Low	2	22	3%
17	Federacija	Tuzlanski	Kalesija	Tojisi	3	R-262 M87 Orkan	25,120		25,120	Low	2	7	1%
18	Federacija	Tuzlanski	Kalesija	Tojisi	1	R-262 M87 Orkan	1,955		1,955	Low	2	0	0%
19	Federacija	Zenicko Dobojski	Zavidovici	Naselje Krivaja	4	R-262 M87 Orkan	45,919		45,919	Medium/Low	2	13	2%
20	Federacija	Tuzlanski	Gradačac	Mionica	0	R-262 M87 Orkan	0		0	Medium/Low	2	0	0%
21	Federacija	Tuzlanski	Kladanj	Kladanj	1	R-262 M87 Orkan	41,742		41,742	Medium/Low	2	9	1%
22	Federacija	Zenicko Dobojski	Zavidovici	Zavidovici	2	BL 755	30,189		30,189	Medium/Low	2	7	1%
23	Federacija	Zenicko Dobojski	Zavidovici	Novo Naselje	0	R-262 M87 Orkan	0		0	Medium/Low	2	0	0%
24	Federacija	Zenicko Dobojski	Tesanj	Tesanj	1	BL 755	42,214		42,214	Medium/Low	2	9	1%
25	Federacija	Hercegovacko Bosanski	Tomislavgrad	Vinica	1	R-262 M87 Orkan	109,170		109,170	Medium/Low	2	24	4%
26	Federacija	Srednje Bosanski	Travnik	Travnik - centar	1	R-262 M87 Orkan	13,138		13,138	Medium/Low	2	3	0%
27	Republika Srpska		Bratunac	Pobudje	1	BL 755	100,692		100,692	Medium/Low	2	22	3%
28	Republika Srpska		Brod	Novo Selo	2	BL 755	233,171		233,171	Medium/Low	2	52	8%
					31		2,137,068	651,480	1,485,588			642	100%

TASK PLANNING OUTPUTS

No.	Entity	Kanton	Municipality	Local community	Cluster munitions identified		SHA	Cancellation through non-technical survey	TS/CI Task area	Technical survey		Clearance	Total	%
					Number of strike zones	Type of cluster munitions				Manual clearance	Released through TS	Manual clearance		
							m²	m²	m²	m²	m²	m²	m²	
1	Federacija	Zenicko Dobojski	Vares	Okruglica		BL 755	199,601		199,601	0	0	199,601	199,601	9.3%
2	Federacija	Sarajevski	Ilijas	Mosevici		BL 755	114,758		114,758	0	0	114,758	114,758	5.4%
3	Federacija	Zenicko Dobojski	Olovo	Krizevici		BL 755	95,222		95,222	0	0	95,222	95,222	4.5%
4	Federacija	Sarajevski	Hadzici	Kasatici		BL 755	30,896		30,896	0	0	30,896	30,896	1.4%
5	Federacija	Tuzlanski	Sapna	Sapna		R-262 M87 Orkan	124,137		124,137	0	0	124,137	124,137	5.8%
6	Federacija	Hercegovacko Bosanski	Glamoc	Koricina		BL 755	86,866		86,866	0	0	86,866	86,866	4.1%
7	Federacija	Zenicko Dobojski	Zavidovici	Dubravica	1	BL 755	47,773		47,773	5,589	18,631	29,142	47,773	2.2%
8	Federacija	Zenicko Dobojski	Vares	Mijakovici	1	R-262 M87 Orkan	65,756		65,756	7,693	25,645	40,111	65,756	3.1%
9	Federacija	Sarajevski	Hadzici	Pazaric	2	BL 755	110,515		110,515	20,887	69,624	40,891	110,515	5.2%
10	Federacija	Zenicko Dobojski	Zenica	Smetovi	1	BL 755	42,605		42,605	8,052	26,841	15,764	42,605	2.0%
11	Republika Srpska		Han Pijesak	Japaga	2	CBU 87/B BLU 97	376,178		376,178	44,013	146,709	229,469	376,178	17.6%
12	Republika Srpska		Krupa na Uni	Donji Petrovici	1	BL 755	43,611		43,611	8,242	27,475	16,136	43,611	2.0%
13	Federacija	Zenicko Dobojski	Olovo	Solun	1	BL 755	11,117		11,117	2,101	7,004	4,113	11,117	0.5%
14	Federacija	Zenicko Dobojski	Zavidovici	Ribnica	2	BL 755	42,002		42,002	7,938	26,461	15,541	42,002	2.0%
15	Federacija	Tuzlanski	Banovici	Catici	1	R-262 M87 Orkan	23,194		23,194	2,714	9,046	14,148	23,194	1.1%
16	Federacija	Tuzlanski	Sapna	Sapna	2	R-262 M87 Orkan	79,527		79,527	9,305	31,016	48,511	79,527	3.7%
17	Federacija	Tuzlanski	Kalesija	Tojiscici	3	R-262 M87 Orkan	25,120		25,120	2,939	9,797	15,323	25,120	1.2%
18	Federacija	Tuzlanski	Kalesija	Tojiscici	1	R-262 M87 Orkan	1,955		1,955	229	762	1,193	1,955	0.1%
19	Federacija	Zenicko Dobojski	Zavidovici	Naselje Krivaja	4	R-262 M87 Orkan	45,919		45,919	5,373	17,908	28,011	45,919	2.1%
20	Federacija	Tuzlanski	Gradačac	Mionica		R-262 M87 Orkan	0		0	0	0	0	0	0.0%
21	Federacija	Tuzlanski	Kladanj	Kladanj	1	R-262 M87 Orkan	41,742		41,742	7,889	26,297	15,445	41,742	2.0%
22	Federacija	Zenicko Dobojski	Zavidovici	Zavidovici	2	BL 755	30,189		30,189	5,706	19,019	11,170	30,189	1.4%
23	Federacija	Zenicko Dobojski	Zavidovici	Novo Naselje		R-262 M87 Orkan	0		0	0	0	0	0	0.0%
24	Federacija	Zenicko Dobojski	Tesanj	Tesanj	1	BL 755	42,214		42,214	7,978	26,595	15,619	42,214	2.0%
25	Federacija	Hercegovacko Bosanski	Tomislavgrad	Vinica	1	R-262 M87 Orkan	109,170		109,170	20,633	68,777	40,393	109,170	5.1%
26	Federacija	Srednje Bosanski	Travnik	Travnik - centar	1	R-262 M87 Orkan	13,138		13,138	2,483	8,277	4,861	13,138	0.6%
27	Republika Srpska		Bratunac	Pobudje	1	BL 755	100,692		100,692	19,031	63,436	37,256	100,692	4.7%
28	Republika Srpska		Brod	Novo Selo	2	BL 755	233,171		233,171	44,069	146,898	86,273	233,171	10.9%
Total							2,137,068	0	2,137,068	232,866	776,219	1,360,849		
%								0.0%	100.0%	10.9%	36.3%	63.7%	2,137,068	100.00%
								of SHA		of task area				

TASK PLANNING INPUT DAYS

Land Release Plan March 2021 - August 2022 Overview of needed team/days per working method												
No.	Entity	Kanton	Municipality	Local community	Cluster munitions identified		Activity (CI/TS)	Task area (m ²)	Team/days			
					Number of strike zones	Type of cluster munitions			Technical survey	Clearance	Total	%
									Manual teams	Manual teams		
1	Federacija	Zenicko Dobojski	Vares	Okruglica		BL 755	CI	199,601	0	83	83	30.64%
2	Federacija	Sarajevski	Ilijas	Mosevici		BL 755	CI	114,758	0	48	48	17.61%
3	Federacija	Zenicko Dobojski	Olovo	Krizevici		BL 755	CI	95,222	0	40	40	14.62%
4	Federacija	Sarajevski	Hadzici	Kasatici		BL 755	CI	30,896	0	13	13	4.74%
5	Federacija	Tuzlanski	Sapna	Sapna		R-262 M87 Orkan	CI	124,137	0	52	52	19.05%
6	Federacija	Hercegovacko Bosanski	Glamoc	Koricina		BL 755	CI	86,866	0	36	36	13.33%
Total number of team/days									0	271	271	100.00%
Total number of month/days									0.0	14	14	
7	Federacija	Zenicko Dobojski	Zavidovici	Dubravica	1	BL 755	CI/TS	47,773	2	10	12	3.64%
8	Federacija	Zenicko Dobojski	Vares	Mijakovici	1	R-262 M87 Orkan	CI/TS	65,756	3	14	17	5.01%
9	Federacija	Sarajevski	Hadzici	Pazaric	2	BL 755	CI/TS	110,515	8	14	23	6.65%
10	Federacija	Zenicko Dobojski	Zenica	Smetovi	1	BL 755	CI/TS	42,605	3	6	9	2.56%
11	Republika Srpska		Han Pijesak	Japaga	2	CBU 87/B BLU 97	CI/TS	376,178	18	80	98	28.64%
12	Republika Srpska		Krupa na Uni	Donji Petrovići	1	BL 755	CI/TS	43,611	3	6	9	2.62%
13	Federacija	Zenicko Dobojski	Olovo	Solun	1	BL 755	CI/TS	11,117	1	1	2	0.67%
14	Federacija	Zenicko Dobojski	Zavidovici	Ribnica	2	BL 755	CI/TS	42,002	3	5	9	2.53%
15	Federacija	Tuzlanski	Banovići	Čatići	1	R-262 M87 Orkan	CI/TS	23,194	1	5	6	1.77%
16	Federacija	Tuzlanski	Sapna	Sapna	2	R-262 M87 Orkan	CI/TS	79,527	4	17	21	6.06%
17	Federacija	Tuzlanski	Kalesija	Tojisići	3	R-262 M87 Orkan	CI/TS	25,120	1	5	7	1.91%
18	Federacija	Tuzlanski	Kalesija	Tojisići	1	R-262 M87 Orkan	CI/TS	1,955	0	0	1	0.15%
19	Federacija	Zenicko Dobojski	Zavidovici	Naselje Krivaja	4	R-262 M87 Orkan	CI/TS	45,919	2	10	12	3.50%
20	Federacija	Tuzlanski	Gradačac	Mionica		R-262 M87 Orkan	CI/TS	0	0	0	0	0.00%
21	Federacija	Tuzlanski	Kladanj	Kladanj	1	R-262 M87 Orkan	CI/TS	41,742	3	5	9	2.51%
22	Federacija	Zenicko Dobojski	Zavidovici	Zavidovici	2	BL 755	CI/TS	30,189	2	4	6	1.82%
23	Federacija	Zenicko Dobojski	Zavidovići	Novo Naselje		R-262 M87 Orkan	CI/TS	0	0	0	0	0.00%
24	Federacija	Zenicko Dobojski	Tesanj	Tesanj	1	BL 755	CI/TS	42,214	3	5	9	2.54%
25	Federacija	Hercegovacko Bosanski	Tomislavgrad	Vinica	1	R-262 M87 Orkan	CI/TS	109,170	8	14	22	6.57%
26	Federacija	Srednje Bosanski	Travnik	Travnik - centar	1	R-262 M87 Orkan	CI/TS	13,138	1	2	3	0.79%
27	Republika Srpska		Bratunac	Pobudje	1	BL 755	CI/TS	100,692	8	13	21	6.06%
28	Republika Srpska		Brod	Novo Selo	2	BL 755	CI/TS	233,171	18	30	48	14.02%
Total number of team/days									94	248	342	100.00%
Total number of month/days									5	13	18	

Summary of resources	Manual team
Days per team	614
Months per team	32.6

Average productivity		Manual teams on TS (6 operstors per team)	Manual teams on clearance (6 operstors per team)
Number of operators	13	190	220
Team productivity per day		2,470	2,860

Average monthly working days 2021			
Working days per months	Months		Holidays, Travels, Vacations
	January	10	
	February	22	
	March	22	
	April	22	
	May	21	
	June	22	
	July	22	
	August	10	
	September	22	
	October	21	
	November	22	
	December	10	
	Total	226.00	
	Average	18.83	Average
Average working days per month		18.83	

LAND RELEASE PLANNING

Characteristics of strike site for cluster munition BL 755		
Dimension of strike site	200	50
Dimension of outer border of strike site increased for 25 m of safety distance	250	100
Size of footprint rectangle (m ²)	25,000	
Size of footprint outer ellipse (m ²)	19,625	
Dimension of outer border of strike site increased for 25 m of safety distance and 25 m of buffer for technical survey	300	150
Size of footprint outer ellipse + buffer 25 m width for systematic technical survey (m ²)	35,325	
Size of buffer 25 m width for systematic technical survey (m ²)	15,700	

Assesment of size of footprint for clearance and technical survey within identified strike site for cluster munition BL 755		
Clearance (m ²)	Technical survey (m ²)	
	Buffer around derailed area 25 m width	
274,750	63%	172,543

Characteristics of strike site for cluster munition R-262 M87 Orkan		
Dimension of strike site	165	180
Dimension of outer border of strike site increased for 25 m of safety distance	215	230
Size of footprint rectangle (m ²)	49,450	
Size of footprint outer ellipse (m ²)	38,818	
Dimension of outer border of strike site increased for 25 m of safety distance and 25 m of buffer for technical survey	265	280
Size of footprint outer ellipse + buffer 25 m width for systematic technical survey (m2)	58,247	
Size of buffer 25 m width for systematic technical survey (m2)	19,429	

Assesment of size of footprint for clearance and technical survey within identified strike site for cluster munition R-262 M87 Orkan		
Clearance (m ²)	Technical survey (m ²)	
	Buffer around derailed area 25 m width	
582,274	39%	228,773.53

Manual work productivity		
Operators/daily productivity per operator	30	m ²
Daily productivity for all operators	1	4,200
Days per month	19	79,800
Working months	16	1,276,800

Land release plan			
Clearance		857,024	40.1%
Technical survey	Systematic	501,646	23.5%
	Internal sampling	50,165	2.3%
Technical survey		501,646	23.5%
Non-technical survey		778,398.59	36.4%
Total		2,137,068	100.0%

Plan of clearance and technical survey for identified cluster strike sites				
According assessment of size of footprint for cluster munition BL 755	Execution coefficient		100%	Total for footprint (m²)
	Clearance (m²)	Systematic technical survey within buffer (m²)		
	274,750.00	63%	172,543.00	
			447,293	
According assessment of size of footprint for cluster munition R-262 M87 Orkan	Execution coefficient		100%	Total for footprint (m2)
	Clearance (m²)	Systematic technical survey within buffer (m²)		
	582,273.75	39%	228,774	
			811,047	
Total for assessed size of footprint		857,024	401,317	1,258,340
According productivity of available manual work capacity	Remaining for manual work within technical survey			419,776
	Contribution of manual work within technical survey	Method	%	m²
		Systematic	30%	150,493.70
		Internal sampling	10%	50,164.57
		Clearance (m2)	857,024	
	Technical survey m²			
	Systematic (buffer + % additional searching)	25%		501,646
		501,645.66		
	Targeted		-	
Grand total for clearance and technical survey (m²)				1,358,669