

**AGRICULTURE RESEARCH CORPORATION
LAND AND WATER RESEARCH CENTER
SOIL SURVEY - LIBRARY**

Report No.	Soil Survey Report Name	Location	Soil Map Scale	Total Area / feedans	Author	Year	Existence Report
SSD/1	Sennar	Sennar State	1:40,000	30,000	W.A Blokuis	1959/63	12
SSD/2	Kenana Research Abu Na'ama	Sennar State	1:20,000	2000	W.A Blokuis	1960	61
SSD/3	Two pilot Projects in Jebel Marra	West Darfour State	1:20,000	1160	W.A Blokuis	1963	07
SSD/4	Khashm El Grba North , Part I.	Kassala State	1:50,000	500,000	J.O.Chtman	1961	01
SSD/5	Khashm El Girba North Part I.	Kassala State	1:50,000	5,000	W.A Blokuis	1963	05
SSD/6	Um Takal Ext. 24 pum scheme , dueim	White Nile State		14000	J.Ochtman	1962	01
SSD/7	M.C.P.S in Nuba mountains : Habila , Duragas , Tozi, Karandel , Mitamir , Um Lubia , Habila and Mitamir extentions	South Kardofan State	1:25,000	94,000	O.C.Fiinday , H.Du Mmler .F Beinorth. M. Knibbe	1962	03
SSD/8	Mellut East pump Scheme	Upper Nile State	1:50,000	15,240	F.H Beinorth	1963	08
SSD/9	M.C.P.S. in Southern Gedarif , El Rawashda Gaboub Ext \$ Abu Irwa	Gedrif State	1:100,000	97,000	M.Knibbe , et F brinroth	1964	04
SSD/10	Fahal fringe areas and Extensions	Gezira State		63,000	M.A. Ali etat	1966	02
SSD/11	Gezira Fringe areas .	Gezira State		27,220	W. Siderius etat	1966	01
SSD/12	Managil Phase IV , part II Extensions	Gezira State	1:100,000	31,000	W.Siderius etat	1966	01
SSD/13	Green belt , Forestry	Khartoum	1:20,000	7,035	J.Burusink etat	1966	03

	Research .Soba	State					
SSD/14	Gunied Sugar cane proposed Exts.	Gezira State	1:50,000	41,600	M.A. Ali	1969	07
SSD/15	Proposed M.C.S South East Nyala.	South Darfour State		690.000	M.A. Ali	1969	03
SSD/16	Proposed of Tamboul Pilot Farm .	Gezira State	1:10,000	590	M.A. Ali	1968	01
SSD/17	Khashn El Griba phase V and VI, Ext .	Kassala State	1:100.000	90,000	Commissaris	1970	01
SSD/18	Old Wadi Halfa Town .	Northern State	1:25,000	160,000	H.Fadul	1969	07
SSD/19	South Rahad M.C.P .S .area	Gedarif State	1:50,000	44,000	Commissaris etat	1970	01
SSD/20	Sixteen irrigation Schemes .	White Nile State	1:40,000	63,768	A.A. Ali	1970	05
SSD/21	Kadro Abu Halima project .	Khartoum State	1:40,000	14,000	O.A. Tom	1970	02
SSD/22	Gudiya pump Scheme.	Sennar State	1:10,000	502	O.A.Tom	1970	02
SSD/23	Eseilat area .	Khartoum State	1:25,000	146,000	Commissaris	1971	02
SSD/24	El – Suki Scheme .	Blue Nile State .	1:25,000	13,580	K. Fadil	1970	02
SSD/25	Northwest Sennar .	Sennar State	1:50,000	50,630	K. Fadil	1971	02
SSD/26	Northern pump Scheme and their Extensions .	Northern and River Nile	1:25,000	76,340	G. Wood Ruff	1970	01
SSD/27	Agadi – Garabin , Mechanized farm .	Blue Nile State	1:100,000	190,400	H. Dawoud	1971	02
SSD/28	Koka Proposed pump Scheme area .	Northern	1:500,00	8,710	A. Kadeil	1971	02
SSD/29	Gezira Agricultural Research Farm .	Gezira State	1:10,000	980	O.A.Tom	1972	05
SSD/30	South Fung Agricultural Company .	Blue Nile State	1:40,000	11.400	O.Khodary	1971	02
SSD/31	Habila North extension .	South Kordofan					

SSD/32	Goz El Reheid . Surhan & Ruweina Ext.	Gezira State	1:100,000	4005	O.Khodary	1971	06
SSD/33	Wad El – Khowi area .	Northern State					
SSD/34	Habila Extension .	South Kordofan	1:100,00	151,230	O.A.Tom	1972	04
SSD/35	El – Mazmum Extension.	Blue Nile State	1:100,000	49,060	O.Khodary	1972	06
SSD/36	Agadi Southern Extension.	Blue Nile State	1:100,000	200,000	K. Fadil	1972	06
SSD/37	Megeinis Extension area .	Upper Nile St	1:100,000	100,000	M.A .karim	1972	06
SSD/38	Abu Muhar Extension .	Blue Nile State	1:100,000	90,000	H.A. Dawoud	1972	03
SSD/39	Goz Rom – Renk District .	Upper Nile St	1:50,000	157,079	A.Kafeil	1972	01
SSD/40	Zeidab Scheme and South Western Ext	River Nile State	1:50,000	33,937	K. Fadil	1972	05
SSD/41	El Fashaga . El Sugra	Gedarif State	1:100,000	74,160	A. Kafeil	1972	02
SSD/42	Hudeibe Research Eastern Extension	River Nile State	1:25,000	2017	H.A.Dawoud	1972	03
SSD/43	Peoples Agr . Scheme Khogalab .	Khartoum State	1:10,000	601	M.A.Karim	1972	06
SSD/44	Hager El Asalaya & Ferdous Ext. Ext Scheme.	White Nile State	1:50,000	37,000	M.A.Karim	1972	01
SSD/45	Shat , Zahrat El dur , El Khanger Ext, El Gerrei Schemes (Kosti and Duweim) part II	White Nile State	1:50,000	29,941	M.A.Karim	1972	04
SSD/46	White Nile Rice pump Scheme .	White Nile State	1:50,000	8,573	K. Fadil	1972	02
SSD/47	South Khartoum .	Khartoum State	1:100,000	52,193	O.A.Tom	1973	01
SSD/48	Upper Atbara.	Kassala State	1:100,000	1,065,900	Sayed Farah	1973	01
SSD/49	Gezira Fertility .	Gezira State	1:20,000	38,493	O.A.Tom etat	1973	03
SSD/50	Mellut Extension	Upper Nile	1:50,000	30,460	O.A.Tom	1973	01

		State					
SSD/51	The Proposed Malakal forage Farm	Upper Nile State	1:26,000	6,000	O.A.Tom	1973	06
SSD/52	Lower Atbara .	River Nile State	1:50,000	34,027	I.Byraymh		
SSD/53	Sag El Naam Project El Fasher.	North Darfour St	1:50,000	184,000	H.A.Dawoud	1973	01
SSD/54	North East Khartoum area.	Khartoum State	1:40,000	129,700	A.I.Adam	1975	04
SSD/55	Mongalla Suger Project area .	Equatoria	150,000	28,000	A.Kafeil	1974	07
SSD/56	El Beida area .	South Kordofan St	1:50,000	102,000	H.A.Dawoud	1974	
SSD/57	Habila South West Extension .	South Kordofan St	1:50,000	39,000	H.A.Dawoud	1974	
SSD/58	Wau and Bussari Farm .	Bhar El Chazal St	1:20,000	1580	A.Kafil	1975	
SSD/59	Abu Hashim pump Irrigation Sc.	River Nile State	1:25,000	3,363	O.Khodary	1973	
SSA/60	Hager Asalaya South Eastern Ext .	White Nile State	1:50,000	42,120	K. Fadil	1973	
SSA/61	Khor El Atshan	Blue Nile State	1:100,000	140,000	A.Kafeil	1971	
SSA/62	Wadi El Khowi	Northern State	1:100,000	283,267	Sayed Farh	1975	
SSA/63	Shendi Wad Banga.	River Nile State	1:25,000	172,000	I.Braymah	1973	
SSA/64	Shendi Canning factory Farm .	River Nile State	1:100,000	6,289	I.Buraymah	1975	
SSA/65	Abu Sabika – Saraf Said . Southern Gedarif	Gedarif State	1:50,000	290,000	M.A Karim	1975	
SSA/66	Agadi Company , Agabowy and Partners	Blue Nile	1:50,000	15,232	M.A.Kraim	1975	
SSA/67	El Damer . El Zeidab and Kelli area.	River Nile State .	1:50,000	195,739	O.Khodary	197	10

SSA/68	South East Roseiris Area .	Blue Nile State .	1:50,000	44,000	M.Akaim	1975	10
SSA/69	Agadi South Western Extension.	Blue Nile State .	1:100,000	200,000	M.A.Karim	1974	11
SSA/70	Kenana Sugar Project (S.E Ext).	White Nile State .	1:50,000	81,710	A.I.Adam .	1975	20
SSA/71	Renk – Jalhak area .	Upper Nile State .	1:75,000	90,000	I.Buraymah	1976	20
SSA/72	Tonj Kenaf Scheme .	Bahr El chazal St .	1:25,000	13,231	Sayed Farah	1976	20
SSA/73	Kassala .	Kassala State .	1:1,000,000	125,,120 Km ²	W.Kevie& B	1976	08
SSA/74	Jebel Lado Scheme .	East Equatoria .	1:100,000	20972	Sayed Farah	1975	15
SSA/75	Kapure M . .C. P .S	East Equatoria	1:100,000	5,783	Sayed Farah	1976	10
SSA/76	Mongalla Sugar Project area .	East Equatoria	1:50,000	28,500	A. Kafeil	1976	48
SSA/77	Beryab Canning Factory Farm	Gezira State	1:20,000	3,480	M. A .Ali	1976	02
SSA/78	El Damazine Agric \$ Animal Project .	Blue Nile State		89,000	M.A.Ali	1976	25
SSA/79	El Lar Proposed Scheme.	Northern State	1:25,000	11,536	O. Khodary	1976	19
SSA/80	Blue Nile , White Nile . Kh .State	BN.WN.G.Kh	1:1:000,000	163,000 Km ²	Purnell etat	1976	01
SSA/81	Exploratory Survey of Kordofan .	Kordofan (State (N,S,W)	1:1,000,000	350,000 Km ²	H.Dawoud	1976	19
SSA/82	Kheiranto – Wadi Proposed Scheme .	Northern State .	1:50,000	7,000	O.Khodary	1979	20
SSA/83	Soba Fattening Scheme.	Khartoum State .	1:50,000	10,000	K.Fadil	1975	12
SSA/84	Khor Musa Basha pump Scheme .	Northern State .	1:20,000	416	O.Khodary	1976	25

SSA/85	S.E Roseiris (Sudanese Egyptian Agric Co	Blue Nile State .	1:100,000	125,745	A.I Adam	1977	20
SSA/86	Rotun milk Dairy Farm .	Equatoria State .	1:10,000	1,224	Kafeil	1976	27
SSA/87	Gadambaliya area	Gedarif State .	1:100,000	275,140	I.Buraymah	1977	03
SSA/88	Saeed Factory Farm	Khartoum State	1:25,000	3,200	K.Fadil etat	1977	08
SSA/89	Karamah Farm (Samed) .	Khartoum State	1:20,000	219.7	M.A.Karim.etat	1975	07
SSA/90	Jungoli	Upper Nile	1:250,000	1,395,400	M.A.Karim.etat	1978	02
SSA/91	El Rugeiba Scheme Sudanese Saudi(Co)	Blue Nile State	1:50,000	83,500	K.Fadil	1976	01
SSA/92	White Nile Pump Scheme .	White Nile State	1:200,000	87,800	H.Fadil	1976	01
SSA/93	Um Agaga area.	South Darfour	1:40,000	100,000	H.Fadil	1975	03
SSA/94	El Berdab – I Kadi .	South Kordofan State	1:50,000	13,200	H.Dawoud	1978	03
SSA/95	Sabaloka .	Khartoum State .	1:25,000	30,000	H. Fadul	1978	04
SSA/96	Akad – Binna Project .	Northern State	1:50,000	7,200	H.Fadul	1978	03
SSA/97	Agadi Agricultural Company Fam .	Blue Nile State	1:40,000	14,280	M.Badawi	1978	09
SSA/98	Nine Proposed Irrigation Projects .	River Nile State	1:50,000	24,163	O.Kodary	1979	21
SSA/99	Safiab Project .	Khartoum State .	1:50,000	4,000	H.Fadul	1979	16
SSA/100	Kordegeili Scheme .	Gezira State	1:50,000	17.000	B. Suliman	1979	40
SSA/101	Suki Scheme Extension .	Sennar State	1:250,000	5,825	S.Farah	1979	20
SSA/102	Ertedi – El Khannag .	Northern State	1:50,000	2,891	H.Fadul	1979	10
SSA/103	Shagra – Scheme .	North Darfour	1:50,000	10,000	H.Dawoud	1979	15

SSA/104	Wad Gabi – Abu Gussi Project .	Northern State	1:50,000	15,346	H.Fadul	1979	07
SSA/105	East Labab .	Northern State	1:40,000	4,263	H.Fadul	1979	06
SSA/106	Seteit .	Kassala State	1:50,000	65,000	A.Raouf	1980	06
SSA/107	South Akon area (El – Adham Block) .	Upper Nile State	1:100,000	66,64	M.Badawi	1980	05
SSA/108	El – Mantiga El Atsana .	White Nile State	1:25,000	379,475	K.Fadil	1979	09
SSA/109	El Tebeilab Project (M.Ugul & Parts) .	Blue Nile State	1:50,000	70,500	B. Suliman	1980	01
SSA/110	Proposed Tajuj Onion Factory Farm	Kassala State	1:20,000	1,500	I.Buarmah	1980	03
SSA/111	Wad Medani Town Extension	Gezira State	1:50,000	8326	M.Badawi	1980	07
SSA/112	Sahm Um Saga Seragia & ElGabeid Areas	South Kordofan State	1:50,000	5,630	O.Khodary	1980	20
SSA/113	El Tadamun Scheme	Blue Nile State	1:50,000	50,456	O.Khodary	1980	07
SSA/114	El Meshisha and El – Haeazaya Areas	South Kordofan State	1:50,000	21,263	O.Khodary	1978	15
SSA/115	Agabat El Kulus – pump Scheme	Northern State	1:25,000	1,8000	H.Fadul	1980	07
SSA/116	Emirates and Gezria Investments Co	Gezira State	1:20,000	895	H.Fadul	1980	09
SSA/117	Gum Research Farm	North Kordofan State	1:20:000	610	S.Farah	1980	07
SSA/118	El – Aman Agric – Scheme	Sennar State	1:100,000	30464	M.A.Karim	1981	07
SSA/119	El Saraf El – Ahamar . Research Farm	South Kordofan State	1:25,000	1811	S.Farah	1981	02
SSA/120	Mukabrab Project Volume	River Nile	1:20,000	35,513	H.A.Dawoud	1981	01

	I,II,III	State					
SSA/121	Eseilat proposed Scheme	Khartoum – Gezira State	1:25,000	3595	K.Fadil	1986	06
SSA/122	EI – Fuda Research Farm	South Kordofan State	1:50,000	8,378	S,Farah	1982	01
SSA/123	Gash – Kassala	Kassala	1:25,000	20,964	A.Kafail	1983	02
SSA/124	EIGuneid Sugarcane	Gezira State	1:20,000	3,405	O.Khodary	1984	02
SSA/125	Fertility Survey of Four Farm m Damazine	Blue Nile State		300,000	S.Farah	1984	02
SSA/126	Um Arda Project	Khartoum State	1:40000	3,560	S.Farah	1987	03
SSA/127	EI – Tura El Khadra Pump Project	White Nile State	1:25,000	4,292	A,Rahman A	1988	02
SSA/128	Tow plit Farm of El Sheikh Company	Blue Nile State	1:25,000	2,000	Sami .Hikal	1988	01
SSA129	EI – Bereyab Agric Scheme	Gezira State	1:20,000	3,500	O.Khodary	1989	04
SSA/130	Gezira Scheme . South Group	Gezira State	1:20,000	182,802	Dahab F &S	1990	01
SSA131	Um Dom Farm	Khartoum State	1:10,000	2,929	Fawzi M.Salih	1990	01
SSA/132	Gezira Scheme Central Group	Gezira State	1:20,000	141,000	I.Buraymah	1992	02
SSA/133	The Fertility Survey if Sawagi - Kassala	Kassala State	1:25,000	1,032	Saeed Badawi	1990	01
SSA/134	Gezira Scheme Messalyamia Group	Gezira State	1:20,000	150,356	M.I.Idris	1994	
SSA/135	Atbara Food Security Scheme	River Nile State			Fawzi & Magid	1995	
SSA/136	Atbara Food Security Scheme Extensions		1:20,000		O.El Sharif	1990	04
SSA/137	NW Sennar Irrigation Sugarcane	Sennar State	1:20.000	11,137	M.I..Idris	1990	02
SSA/138	A.A Aid Seed Production	River Nile	1:25,000	21,866	H.Fadul	1994	03

	Project ,Shandi	State					
SSA/139	Re- Evaluation of El Guneid Scheme	Gezira State	1:50,000	37,500	M.I.Idris	1995	02
SSA/140	El Ghaba Project	Northern State	1:20,000	14,000	M.I.Idris	1995	07
SSA/141	Rahad Project , N – Jebel Fau Vol I,II,III	Gezira State	1:100,000	230,000	M.I.Idris	1966	
SSA/142	Rahad Project , S – Jebel Fau Vol I,II,III	Gedarif State			M.A.Karim	1970	01
SSA/143	Central Clay Plain Area	Central State		575,000	U.N.D.P	1997	01
LWSSR/144	Gandil Company Agric, Rahad Scheme	North Kordofan State	1:20,000	10,925	M.I.Idris	1997	02
LWSSR/145	Gandil Company , Abu Hamad Scheme	River Nile State	1:25,000	8,283	A.Magid	1997	01
LWSSR/146	Gezira Scheme , North Group	Gezira State	1:20,000	201,304	Hagwa& Saeed	1999	1
LWSSR/147	Gezira Scheme . Wadi – Shair Group	Gezira State	1:20,000	167,110	Fawzi & Magid		
LWSSR/148	Gezira Scheme . Wad Habouba Group		1:20,000				
LWSSR/149							
LWSSR/150	Mukabrab Proposed Irrigated Project	River Nile State	1:25,000	44,180	M.I.Idris	2000	02
LWSSR/151	ElMultaga Scheme	Northern State	1:25,000	15,000	M.A.Karim	1999	01
LWSSR/152	Sudanese Arabian Kenaf Irrigated	Sennar State	1:20,000	32,000	A .Magid	2000	02
LWSSR/153	North Koka Project	Northern State	1:25,000	9983	A. Magid		
LWSSR/154	South Koka Project	Northern State	1:25,000	5430	A.Magid		
LWSSR/155	Korba Scheme	Northern State	1:20,000	17970	Fawzi M. Salih		
LWSSR/156	Abu Gidian Project – Korti	Northern	1:25,000	11,911	Fawzi & Bushra		02

		State					
LWSSR/157	Studies of pilot Sites , N – Kordofan (FAO)	N-Kordofan State		28,000	Hagwa & Ahmed	2001	
LWSSR/158	A.AAID project at West Omdurman	Khartoum State	1:100,000	110,000	O.A.Tom	2001	
LWSSR/159	Taha El Rubi Agric. scheme	White Nile State	1:50,000	100,000	Fawzi M. Salih	2001	-
LWSSR/160	West Nuba lake – Argean	Northern State	1:850,000	2,089,192	Fawzi M. Salih	2002	-
LWSSR/161	Original Area, Merowe to Kerma- Vol.3A- DIU	Northern State	1:50.000	938057	Lahmeyer & LWRC		
LWSSR/162	Extension Area- West Dongola, I & II, Vol 3A DIU	Northern State	1:100.000	368568	Lahmeyer & LWRC		
LWSSR/163	Agric. Engineers Scheme- west Omduraman		1:5.000	4,315	Fawzi.M.Salih	2001	
LWSSR/164	New Amri-Korti (DIU)	Northern State			Fawzi.M.Salih		
LWSSR/165	Reclamation of Salty Soil & Sand Stabilization, - Volume 3B & 3D - DIU	Northern State			Lahmeyer & LWRC		
LWSSR/166	Kiheila Survey- Abu Hamed- DIU	Northern State		64,294	Fawzi.M.Salih	2005	
LWSSR/167	El Salla Scheme-White Nile	White Nile state			Ibrahim. M.Buraymah		
LWSSR/168	Red sea Exploratory Survey	Red Sea state			Ibrahim. M.Buraymah		
LWSSR/169	Faculty of Agric.-Abu Haraz	Gezira state		1,000	Fawi.M.Salih		
LWSSR/170	ELShohada Project- Shendi	River Nile state			Abd magid.A.Mobarak		
LWSSR/171	Sabina Sugar , Kosti	White Nile state		204,977	Fawzi.M.Salih		
LWSSR/172	Blue Nile Sugar – Sennar	Sennar state		114,000	Ibrahim. M.Buraymah		
LWSSR/173	White Nile Sugar, Salt affected Soils	White Nile state		154,920	Abdalla..A. EL Hagwa		

LWSSR/174	El Hilaliya Project	Gezira state		6,000	Abdalla..A. EL Hagwa		
LWSSR/175	Kenana I Area, Vol. I&II-DIU	Sennar state	1:50.000	369,000	Abd magid.A.Mobarak		
LWSSR/176	Kenana II area- Vol. I&II -DIU	Sennar state	1:50.000	390,481	Abdalla..A. EL Hagwa		
LWSSR/177	Rahad II Area- Vol. I&II-DIU	Gedaref state	1:50.000	441,264	Bushra.Mehisi		
LWSSR/178	Rahad North area- Vol. I&IDIU	Gezira state	1:50.000	559,000	Pio.Ding.Kour		
LWSSR/179	Roseries Area – Vol. I&II-DIU	Sennar-B.N states	1:50.000	465,714	Omer. A.Dahab		
LWSSR/180	Gafa Sugar – White Nile	White Nile		137,624	Ibrahim. M.Buraymah		
LWSSR/181	Sanbil – Dongla area (E&A)	Northern state		3,000	Fawzi.M.Salih		
LWSSR/182	Wad Meskin – Shoura consult Co	Gedarif state		21,600	Abd magid.A.Mobarak		
LWSSR/183	Gimma Agricultural Scheme-Sheni for Giad	River Nile					
LWSSR/184	Some White Nile pump schemes-Naifur group.	White Nile	1:25.000;	15000	Abdalla El Hagwa		
LWSSR/185	Hadaf-Wad el fadul for irrigated sugarcane	Gezira	1:50.000	53.000	El Sadig Mohamed Hassan		
LWSSR/186	Sufiya Project for irrigated agriculture	White Nile	1:	160894	Hagwa		
LWSSR/187	Giad Northwest Omdurman –Area I	Khartoum		2000	Fawzi .M.Salih		
LWSSR/188	Giad Northwest Omdurman –Area II	Khartoum		3000	Fawzi.M.Salih		
LWSSR/189	QATAR MEAT AND LIVESTOCK TRADE PROJECTS IN NORTH-WEST OMDURMAN, SUDAN. Smei-detailD	Khartoum	1:10000	12500	Elaftih Elaagib		
LWSSR/190	Semi-detailed soil survey	River Nile	1:50000	250000	elfatih	2013	

	and land evaluation of Taba Agric. Project						
LWSSR/191	Reconnaissance soil survey and land evaluation of Faapy extension farm	River Nile	1:10000	15186	Elfatih	2013	
LWSSR/192	Soil survey and land evaluation of Redais extension for irrigated agriculture and sugarcane production	White Nile	1:50000	61779	Elhagwa	2013	
LWSSR/193	Semi-detailed survey and land evaluation of West Golid project	Northern state	1:50000	50923	Mohamed zain	2013	
LWSSR-194	Semi-detailed soil survey and land evaluation of SABINA AGRICULTURAL SCHEME – SOUTH WEST KOSTI-WHITE NILE STATE	White Nile	1:500000	243000	Elfatih	2014	
LWSSR-195	ASSALAYA SUGAR COMPANY-WEST EXTENSION-RABAK-WHITE NILE	White Nile	1:10000	5000	Elfatih	2015	
LWSSR-196	ELSHARAFAT PROPOSED PROJECT-GEZIRA STATE	Gezira	1:10000	8000	Abdelmagid	2016	
LWSSR-197	ELtannour –WEST DONGOLA	Northern State	1:100000	100000	Fawzi	2016	

Level of Soil Survey	*المساحة بالفدان Area /Feddan	من مساحة الحصر % of % Total Surveyed Areas	عدد التقارير لكل مستوى Number Survey of Reports
Detailed Survey	1,401,671	%1	33
Semi-detailed	8,499,788	5%	104
Reconnaissance	10,240,916	6%	42
Exploratory	155,356,152	89%	5
Total	175,498,527	%100	194