

TABLE VIII Summary of data on vanadium occurrences in Canada

Province/Territory	Name	Number (Map 1321A)	Location	N.T.S. Sheet	Latitude Longitude	Type of Deposit (Table VII)	Ore Minerals or Material	Host Rocks	Age of Host Rock	Size <sup>1</sup> and Grade <sup>2</sup>	
Northwest Territories	Melville Island oil sands	1	Marie Bay	89 A	76°11'05"N 115°00'W	oil sands, sedimentary, bioturbated	bitumen or oil	sandstone	Mesozoic Cretaceous	medium very low	
	Muskox igneous complex	2	Coppermine River area, 60 miles South of Coppermine	86 J	66°35'N 115°00'W	layered ultrabasic intrusive	chromite-sulphide band	pyroxenite	Precambrian Proterozoic	small very low	
	Coppermine River basalt	3	Coppermine River area	86 O-86 N	67°15'N 116°00'W	disseminated extrusive	chromite, titanomagnetite (?)	basalt	Precambrian Proterozoic	large very low	
	Eldorado pitchblende deposit	4	Labine Point, Port Radium, Great Bear Lake	86 K, 4-86 L/1	66°05'N 118°04'W	hydrothermal replacement, aquo-igneous	pitchblende	complex carbonate veins in diabase, etc.	Precambrian Proterozoic	abandoned mine medium	
	Yellowknife Bay gabbro	5	1 mile east of Yellowknife Bay	85 J/9	62°30'20"N 114°16'W	basic intrusive	titanomagnetite (?)	gabbro, olivine-rich base	Precambrian Proterozoic (?)	small very low	
	Fransu's River basic complex	6	East of François River and near north shore of Great Slave Lake	85 I/2	62°05'N 112°50'W	layered ultrabasic intrusive	titanomagnetite (?)	gabbro	Precambrian Proterozoic (?)	small (?) very low	
Yukon Territory	Barn Mountain	1	Northern Yukon	117 A	68°35'N 138°10'W	disseminated sedimentary	carbonaceous matter (?)	shale and gossan	Paleozoic (?)	small very low	
	South Fork, Macmillan River	2	90 miles from mile 238 of the Canal Road	105 J/15	62°52'N 130°40'W	disseminated sedimentary	carbonaceous matter (?)	dark shale	Paleozoic-Mesozoic (?)	large low	
	Watson Lake	3	Watson Lake area—Southern Yukon & Northern B.C.	105 A/2E—105 A/2W	60°-61'N 129°W	disseminated sedimentary	carbonaceous matter (?)	dark shales	Paleozoic	large very low	
British Columbia	Northern B.C.	1	B.C.—Yukon border west of Watson Lake	104 O—104 J	59°N 130°30'W	disseminated sedimentary	carbonaceous matter	dark shales	Paleozoic	large very low	
	Northern B.C.	2	South of Watson Lake	94 L—94 K	58°-59'N 125°-127°W	disseminated sedimentary	carbonaceous matter	dark shales	Paleozoic Ordovician	large very low	
	Springing Lake	3	Headwaters of Gataga River	94 F	57°58'N 125°45'W	disseminated sedimentary and secondary	quartz & limestone	dark shales and limonite gossan	Paleozoic Ordovician	large very low	
	Fort Nelson	4	Alaska Highway (70 miles west of Fort Nelson)	94 K/9	58°38'N 124°25'W	disseminated sedimentary	carbonaceous matter, clay	dark shale and sandstone	Mesozoic Cretaceous	large very low	
	McConnell Creek placer deposit	5	North of Takla Lake (100 miles north of Takla Landing)	94 D	56°47'N 126°20'W	placer, mechanical, sedimentary	heavy mineral concentrates, titanomagnetite, placer gold	gravel, sand, shale (Sautel Group)	Recent; Cenozoic Paleocene	medium very low	
	Sikanni Chief River	6	Alaska Highway (110 miles northwest of Fort St. John)	94 G/2E	57°15'N 122°42'30"W	disseminated sedimentary	carbonaceous matter	shale and sandstone	Mesozoic Cretaceous	medium very low	
	Prince Rupert	7	Near Point Edward	103 J/8E	54°17'N 130°17'W	disseminated sedimentary	carbonaceous matter	shale and slate	Mesozoic (?)	medium very low	
	Porcher Island	8	Coastal island south of Prince Rupert	103 G	53°55'N 130°24'W	layered basic intrusive	titanomagnetite	gabbro	Mesozoic (?)	large low	
	McCaulley Island	9	Coastal island north of Banks Island	103 G	53°49'N 130°15'W	layered basic intrusive	titanomagnetite	gabbro	Mesozoic (?)	large low	
	Banks Island	10	Coastal island south of Prince Rupert	103 G	53°24'N 130°00'W	layered basic intrusive	titanomagnetite	gabbro	Mesozoic (?)	large low	
	Tsitsuit Mountain	11	Northwest slope of Tsitsuit Mountain	93 K/13	54°58'N 125°37'W	hydrothermal vein, aquo-igneous, and sedimentary	limonite (?), carbonaceous matter, manganese, tin	slate	Paleozoic (Permian ?) Tertiary (?) vein	small low	
	Bowron River	12	East of Prince George	93 H/13W	53°50'N 121°55'W	sedimentary, biochemical	coal	sandstone, shale	Cenozoic Tertiary	large low	
	Quesnel	13	South of Quesnel	93 G/1W	53°10'40"N 122°30'W	basic intrusive	titanomagnetite	sandstone, shale	Cenozoic Tertiary (?)	small very low	
	Australian Creek	14	South of Quesnel	93 B	52°41'20"N 123°23'55"W	sedimentary, biochemical	lignite	sandstone, shale	Cenozoic Tertiary	small very low	
	Menzies Bay (north location)	15	North of Campbell River	92 K/3W	50°09'06"N 125°22'06"W	extrusive and sedimentary, biochemical	volborthite, calciovolborthite, chlorite, etc.	andesite-basalt, carbonaceous chert, argillite, and limestone	Mesozoic Triassic	small high	
	Menzies Bay (south location)	16	North of Campbell River	92 K/3W	50°06'30"N 125°23'20"W	extrusive and sedimentary, biochemical	volborthite, calciovolborthite, etc.	andesite-basalt, carbonaceous chert, argillite, and limestone	Mesozoic Triassic	small high	
	Qudra (Valdes) Island	17	Northwest of Gowlland Harbour	92 K/3	50°07'10"N 125°15'40"W	extrusive and sedimentary, biochemical	volborthite, calciovolborthite, etc.	andesite-basalt, carbonaceous chert, argillite, and limestone	Mesozoic Triassic	small medium	
	Cumberland	18	East of Comox Lake	92 F/11E	49°38'N 125°02'W	sedimentary	carbonaceous matter	shale, sandstone	Mesozoic Cretaceous	small very low	
	Nanaimo	19	South of Nanaimo	92 G/4W	49°13'06"N 123°57'W	sedimentary	carbonaceous trash	sandstone, shale, conglomerate	Mesozoic Cretaceous	small very low	
	East Sooke Peninsula	20	Southwest tip of Vancouver Island	92 B/5 E	48°20'30"N 123°42'W	basic intrusive	titanomagnetite	basalt	Cenozoic Eocene	small very low	
	Minto	21	Northwest of Lillooet	92 J	50°52'N 122°48'W	sedimentary	carbonaceous matter, clay, etc.	yellow-stained shale and sandstone	Cenozoic Tertiary	small low	
	Chu Chau	22	North of Kamloops	92 P/8 E	51°20'N 120°10'W	sedimentary	coaly shale	shale, sandstone	Cenozoic Eocene Tertiary	small very low	
Hat Creek	23	West of Ashcroft	92 I/14 W	50°53'N 121°30'W	sedimentary	coaly shale	shale, sandstone	Cenozoic Tertiary	small very low		
Cherry Bluff	24	South of Kamloops Lake	92 I/10 E	50°43'N 120°36'W	veins and basic intrusive	titanomagnetite	Iron Mask batholith	Mesozoic	small very low		
Nicola; Thompson River; Spences Bridge	25	East and north of Lytton	92 I/2	50°10'N 120°30'W	disseminated sedimentary	carbonaceous matter, clay, etc.	sandstone and shale	Mesozoic	small very low		
Merritt	26	North of Merritt	92 I/2	50°06'N 120°41'W	sedimentary	coaly shale	shale, sandstone	Cenozoic Tertiary	small very low		
Princeton	27	Northwest of Princeton	92 H/10 E	49°30'N 120°41'W	sedimentary	coaly shale	shale, sandstone	Cenozoic Eocene Tertiary	small very low		
Copper Mountain	28	South of Princeton	92 H/7 E	49°22'N 120°34'W	igneous and hydrothermal aquo-igneous	biotite, mica, chlorite, and copper ore	Copper Mountain granitic stock; altered volcanics	Mesozoic	large very low		
Hope	29	East of Hope	92 H/6 W	49°24'N 121°26'W	sedimentary	graphitic, carbonaceous matter	shale, schist Hazoreum Group	Paleozoic	large very low		
Lodestone Mountain	30	South of Tulumen	92 H/10 W	49°27'N 120°50'W	ultrabasic intrusive	titanomagnetite	peridotite pyroxenite	Mesozoic	medium low		
Alberta	Andrew Lake	1	Northeast corner of Alberta	74 M	59°50'N 110°10'W	hydrothermal replacement	radioactive molybdenite	granitic gneisses and metasediments	Precambrian Archean	small very low	
	Athabasca tar sands	2	McMurray	74 D/11 W	56°42'N 111°24'W	bituminous sandstone, sedimentary biochemical	bitumen or oil	sandstone	Mesozoic Cretaceous	very large very low	
	Peace River iron deposits	3	Hines Creek, Clear Hills	84 D	56°30'N 118°30'W	sedimentary, chemical	oolitic hematite, siderite, chamosite	shale and sandstone	Mesozoic	large very low	
	Edson	4	West of Edson	83 F/9 W	53°32'N 116°26'W	sedimentary	coal	sandstone	Mesozoic Cretaceous	medium very low	
	Jasper	5	South of Jasper	83 D/16 E	52°50'N 118°04'W	sedimentary	carbonaceous matter	carbonaceous shale	Paleozoic Mississippian (?)	large very low	
	Edmonton	6	City of Edmonton	83 H/5 E	53°25'N 113°38'W	sedimentary	coal	sandstone	Mesozoic Cretaceous	medium very low	
	Banff	7	East of Banff	82 O/4 E	51°11'N 115°23'W	sedimentary	carbonaceous matter	carbonaceous shale	Paleozoic Mississippian	large very low	
	Kananaskis River	8	East of Kananaskis River	82 O/3 E	51°05'30"N 115°03'W	sedimentary	carbonaceous matter	carbonaceous shale	Paleozoic Mississippian	large very low	
	Drumheller	9	South of Drumheller	82 P/7	51°23'00"N 112°36'W	sedimentary	coal	sandstone	Mesozoic Cretaceous	medium very low	
	Crowe mine	10	North of Crownsnest Lake	82 G/10 E	49°38'N 114°44'W	sedimentary, chemical	phosphatic shale	shale	Mesozoic Jurassic	small very low	
	Crownsnest Pass phosphate rock	11	Crownsnest Lake	82 G/10 E	49°37'30"N 114°42'W	sedimentary, chemical	phosphatic shale, collophanite (?), etc.	cherty limestone	Paleozoic Devonian and Mississippian	small very low	
	Burnis	12	Cow Creek, northwest of Burnis	82 G/9 W	49°40'30"N 114°19'30"W	sedimentary, mechanical	titanomagnetite	sandstone, iron sands	Mesozoic Cretaceous	medium very low	
	Dungarvan Creek	13	South of Pincher Creek	82 H/4 W	49°12'N 113°54'W	sedimentary, mechanical	titanomagnetite	sandstone, iron sands	Mesozoic Cretaceous	medium very low	
	Saskatchewan	Beaverledge uranium ore	1	Ace-Verna mines	74 N/9 W	59°38'N 108°24'W	hydrothermal, aquo-igneous	uraninite, pitchblende	mylonite and metasediments	Precambrian Archean	medium low
		Granite and Johnson Lakes	2	West of Flin Flon	63 L	54°50'N 102°25'W	metamorphic	graphite	graphitic schist	Precambrian Archean	medium very low
		Esterhazy	3	East of Esterhazy	62 L	50°40'N 102°07'W	sedimentary	clay and oil	dolomitic argillite and oil shale	Paleozoic Devonian	medium very low
Southern Saskatchewan lignite deposits		4	Estevan, Bienfait, East End	62, 72	49°-50'N 108°-107°W	sedimentary, biochemical	lignite	sandstone, shale, ashrock	Cenozoic Tertiary	large very low	

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Manitoba	Wilson Lake	1	South of Lynn Lake	63 N	53°15'N 101°05'W	metamorphic	graphite	graphitic schist	Precambrian Archean	medium very low	
	Star Lake	2	South of Lynn Lake	63 N/2	55°10'N 100°52'W	metamorphic	graphite	graphitic schist	Precambrian Archean	medium very low	
	Cross (Pipestone) Lake	3	South side of Pipestone Lake	63 I/12 E	54°30'N 97°25'W	igneous, layered basic intrusive	titanomagnetite	gabbro-anorthosite	Precambrian Archean	medium low	
	Swan River	4	South of Swan River	63 C/3 J	52°05'N 101°15'W	sedimentary	carbonaceous matter	dark grey shale	Mesozoic Cretaceous	large very low	
	Bird River	5	North of Bird River	52 L/5	50°25'N 95°42'W	igneous, ultrabasic intrusive	chromite	peridotite, gabbro	Precambrian Archean	large very low	
	Morden	6	Pembina valley, south of Morden	62 G/1 W	49°05'N 98°22'W	sedimentary	selemite, bentonite	grey-brown shales, yellow stained	Mesozoic Cretaceous	large very low	
	Ontario	Northwestern Ontario	1	North of Lake Superior	52	49°-52'N 85°-96'W	igneous, extrusive, and pyroclastic	titanomagnetite	gneiss, schist, greenstone	Precambrian Archean	large total very low
		Gordon Lake	2	North of Wernier Lake, north of Mimica	52 L/11	50°43'N 95°02'W	igneous, ultrabasic intrusive	chromite	peridotite and gneiss	Precambrian Archean	small very low
		Bad Vermilion Lake	3	South of Mine Centre	52 C	48°42'30"N 92°44'50"W	igneous, basic intrusive	titanomagnetite, ilmenite	gabbro-anorthosite	Precambrian Archean	medium low
		Steeprock Lake	4	North of Aitkorn	52 B	48°48'N 91°37'W	sedimentary, aquo-igneous, metamorphic	goethite, hematite, ilmenite, magnetite (?)	ashrock, pinitrook, and iron ore	Precambrian Archean	large very low
		Puddy Lake	5	West of Lake Nipigon	52 H	49°58'N 89°31'W	igneous ultrabasic intrusive	nickelferrous magnetite	peridotite	Precambrian Proterozoic	small (?) very low
		Black Bay	6	Southwest of Nipigon	52 A/10 E	48°40'N 88°32'W	sedimentary, mechanical, unconsolidated	titanomagnetite	beach sand	Cenozoic Recent	small low
		Haystack Mountain	7	West of Willet station, CNR, north of Lake Nipigon	52 I/8 W	50°01'N 80°34'W	igneous, basic intrusive	titanomagnetite	diabase	Precambrian Proterozoic	small very low
		Nipigon	8	East of Nipigon	52 H/1 E	49°01'N 88°04'W	sedimentary, secondary	radioactive nodules	orange-red argillite	Precambrian Post-Huronian, (Amiskivi), Proterozoic	small very low
Bamooos Lake		9	North of Heron Bay	42 D/16	48°48'30"N 86°19'30"W	igneous, intrusive, alkaline complex	titanomagnetite	larvikite, (basic alkaline syenite)	Precambrian Proterozoic (?)	small (?) low	
Pic River		10	East of Marathon	42 D/9 W	48°42'30"N 130°17'W	igneous, intrusive, basic alkaline complex	titanomagnetite	alkaline gabbro	Precambrian Proterozoic (?)	small (?) very low	
Neneqos, Neneqosenda River, and Lackner Lake		11	Southeast of Chatham, McNaught, and Lackner, Townships	41 O/14	47°59'N 83°07'W	alkaline carbonatic, intrusive	titanomagnetite, apatite	alkaline syenite, carbonatite	Precambrian Proterozoic (?)	medium (?) very low	
Sault Ste. Marie (north of)		12	Batchawana Bay	41 K/15 E	46°56'30"N 84°34'W	sedimentary, secondary	hematite	red sandstone	Paleozoic Cambrian	small very low	
Sault Ste. Marie		13	East of Sault Ste. Marie	41 K/9 W	46°31'N 84°25'W	sedimentary	carbonaceous matter	dark shale	Paleozoic Ordovician	small very low	
Manitowlin Island		14	North of Little Current	41 H/13 W	45°58'30"N 81°55'W	sedimentary	carbonaceous matter	dark shale	Paleozoic Ordovician	small very low	
Spanish	15	South of Spanish	41 J/1 W	46°11'20"N 82°21'W	sedimentary	magnetite (?)	greywacke-quartzite	Precambrian Pre-Huronian Archean	small (?) very low		
Chelmsford	16	Northwest of Sudbury	41 I/11 E	46°34'N 81°13'W	sedimentary	carbonaceous matter	dark tuffaceous shale	Precambrian Proterozoic	small very low		
Vevee River	17	East of Sudbury	41 I/8 W	46°28'N 80°30'W	igneous, basic intrusive	titanomagnetite, ilmenite	gabbro	Precambrian Proterozoic (?)	small very low		
Timagami	18	Northwest of Timagami	31 M/4 W	47°08'N 79°47'W	igneous, extrusive, sedimentary	iron ore, hematite, titanomagnetite (?)	chlorite schist	Precambrian Archean	small very low		
Cobalt	19	West of Cobalt	31 M/5 E	47°24'N 79°40'W	sedimentary	tailings from Ag-Co ore	diabase, greenstone, calcic vein	Precambrian Huronian	large very low		
Angus and Flett Townships	20	Southeast of Timagami	31 L/13 E	46°51'N 79°33'W	igneous, basic intrusive	titanomagnetite	diabase	Precambrian Proterozoic (?)	medium very low		
Eastern Ontario	21	West of Ottawa	31 SW		igneous, basic intrusive	titanomagnetite	gabbro-anorthosite	Precambrian Archean (?) Proterozoic (?)	small low		
Lount Township	22	Northeast of Parry Sound	31 E/13 E	45°46'N 79°40'W	igneous, basic intrusive	titanomagnetite	gabbro (?)	Precambrian Archean (?) Proterozoic (?)	small very low		
Brazeau-Wood property	23	Lots 16-20, Concs. IV and V Papineau township	31 L/2 E	46°13'N 78°42'W	igneous, intrusive, and metamorphic complex	titanomagnetite	garnetiferous mafic gneisses	Precambrian Archean (?) Proterozoic (?)	medium low		
Mattawa	24	East of Mattawa	31 L/7 E	46°18'N 78°43'W	igneous, intrusive, and metamorphic complex	titanomagnetite (?)	gneiss	Precambrian Archean (?) Proterozoic (?)	small very low		
Pucey or Pine Lake	25	East of Gooderham	31 D/16 W	44°55'N 78°23'W	igneous, basic intrusive	titanomagnetite	gabbro	Precambrian Archean (?) Proterozoic (?)	small low		
Blithfield	26	South of Calabogie	31 F/7 E	45°18'N 76°45'W	igneous, basic intrusive	titanomagnetite	gabbro	Precambrian Archean (?) Proterozoic (?)	small low		
Innisville	27	North of Innisville	31 F/1 E	45°07'N 76°14'W	igneous, metamorphic	titanomagnetite (?)	rusty gneiss	Precambrian Archean (?) Proterozoic (?)	small very low		
Elgin	28	North of Kingston	31 C/9	44°36'N 76°13'W	sedimentary, mechanical, and secondary	magnetite, hematite, pyroclastic	mottled arkose and sandstone	Paleozoic Cambro-Ordovician	small very low		
Blessington (Eagle Lake)	29	South of Sharbot Lake	31 C/10	44°40'N 76°42'W	igneous, basic intrusive	titanomagnetite	gabbro-anorthosite	Precambrian Archean (?) Proterozoic (?)	small low		
Mathews & Chaffey	30	Newboro Lake	31 C/9	44°38'N 76°20'W	igneous, intrusive	titanomagnetite	gabbro-anorthosite	Precambrian Archean (?) Proterozoic (?)	large low		
Orton & Ricketts	31	North of Madoc	31 C/12 E	44°42'N 77°40'W	igneous, intrusive	titanomagnetite	gabbro	Precambrian Archean (?) Proterozoic (?)	small (?) low		
Pershing	32	South of Havelock	31 C/5 W	44°26'N 77°31'W	igneous, intrusive	titanomagnetite	gabbro (?)	Precambrian Archean (?) Proterozoic (?)	medium low		
Milton	33	East of Guelph	30 M/12 W	43°30'N 79°55'W	sedimentary, chemical	hematite, clay	red shale	Paleozoic Silurian	medium very low		
Kettle Point	34	South of Grand Bend									