



LEGEND

- MESZOZOIC**
 - 21 Basalt and diabase; 21a, diabase (may be pre-Triassic)
 - 20 Conglomerate, sandstone, shales include ANNOPIUS FORMATION of Nova Scotia, and QUADO and LEPPALE FORMATIONS of northern New Brunswick
- CARBONIFEROUS**
 - PENNSYLVANIAN**
 - 19 Sandstone, shales, conglomerate, coal; volcanic rocks include the WYVERN FORMATION and the COALS OF Nova Scotia, and the NEW BRUNSWICK FORMATION of northern New Brunswick. In shales, fossiliferous Middle Devonian beds.
 - MISSISSIPPIAN OR PENNSYLVANIAN**
 - 18 Shale, sandstone, conglomerate, limestone, volcanic rocks; include the MISSISSIPPIAN RIVER FORMATION, the BOULMER GROUP, the BONAVENTURE FORMATION, and the MISSISSIPPIAN RIVER FORMATION.
 - MISSISSIPPIAN**
 - 17 Sandstone, shales, conglomerate, limestone, volcanic rocks; include the MISSISSIPPIAN RIVER FORMATION, the BOULMER GROUP, the BONAVENTURE FORMATION, and the MISSISSIPPIAN RIVER FORMATION.
 - 16 Sandstone, shales, conglomerate, limestone, volcanic rocks; include the MISSISSIPPIAN RIVER FORMATION, the BOULMER GROUP, the BONAVENTURE FORMATION, and the MISSISSIPPIAN RIVER FORMATION.
- DEVONIAN**
 - UPPER DEVONIAN**
 - 15 PERRY FORMATION (conglomerate, sandstone, shales, volcanic rocks)
 - MIDDLE DEVONIAN**
 - 14 GASPE FORMATION (sandstone, conglomerate)
 - LOWER DEVONIAN**
 - 13 Granite, gabbro, and allied rocks
 - 12 Volcanic rocks; minor sedimentary rocks
 - 11 Shale, limestone, conglomerate, sandstone, shales, volcanic rocks; include the MIDDLE DEVONIAN FORMATION, the MIDDLE DEVONIAN FORMATION, the MIDDLE DEVONIAN FORMATION, and the MIDDLE DEVONIAN FORMATION.
 - SILURIAN**
 - 10 Conglomerate, sandstone, shales, limestone, argillite, quartzite, etc.; include the SILURIAN FORMATION, the SILURIAN FORMATION, the SILURIAN FORMATION, and the SILURIAN FORMATION.
- ORDOVICIAN**
 - UPPER ORDOVICIAN**
 - 9 MARIANNE GROUP (sandstone, shales, argillite, quartzite)
 - MIDDLE ORDOVICIAN**
 - 7, 8, 7a, 7b, 7c, 7d, 7e, 7f, 7g, 7h, 7i, 7j, 7k, 7l, 7m, 7n, 7o, 7p, 7q, 7r, 7s, 7t, 7u, 7v, 7w, 7x, 7y, 7z, 7aa, 7ab, 7ac, 7ad, 7ae, 7af, 7ag, 7ah, 7ai, 7aj, 7ak, 7al, 7am, 7an, 7ao, 7ap, 7aq, 7ar, 7as, 7at, 7au, 7av, 7aw, 7ax, 7ay, 7az, 7ba, 7bb, 7bc, 7bd, 7be, 7bf, 7bg, 7bh, 7bi, 7bj, 7bk, 7bl, 7bm, 7bn, 7bo, 7bp, 7bq, 7br, 7bs, 7bt, 7bu, 7bv, 7bw, 7bx, 7by, 7bz, 7ca, 7cb, 7cc, 7cd, 7ce, 7cf, 7cg, 7ch, 7ci, 7cj, 7ck, 7cl, 7cm, 7cn, 7co, 7cp, 7cq, 7cr, 7cs, 7ct, 7cu, 7cv, 7cw, 7cx, 7cy, 7cz, 7da, 7db, 7dc, 7dd, 7de, 7df, 7dg, 7dh, 7di, 7dj, 7dk, 7dl, 7dm, 7dn, 7do, 7dp, 7dq, 7dr, 7ds, 7dt, 7du, 7dv, 7dw, 7dx, 7dy, 7dz, 7ea, 7eb, 7ec, 7ed, 7ee, 7ef, 7eg, 7eh, 7ei, 7ej, 7ek, 7el, 7em, 7en, 7eo, 7ep, 7eq, 7er, 7es, 7et, 7eu, 7ev, 7ew, 7ex, 7ey, 7ez, 7fa, 7fb, 7fc, 7fd, 7fe, 7ff, 7fg, 7fh, 7fi, 7fj, 7fk, 7fl, 7fm, 7fn, 7fo, 7fp, 7fq, 7fr, 7fs, 7ft, 7fu, 7fv, 7fw, 7fx, 7fy, 7fz, 7ga, 7gb, 7gc, 7gd, 7ge, 7gf, 7gg, 7gh, 7gi, 7gj, 7gk, 7gl, 7gm, 7gn, 7go, 7gp, 7gq, 7gr, 7gs, 7gt, 7gu, 7gv, 7gw, 7gx, 7gy, 7gz, 7ha, 7hb, 7hc, 7hd, 7he, 7hf, 7hg, 7hh, 7hi, 7hj, 7hk, 7hl, 7hm, 7hn, 7ho, 7hp, 7hq, 7hr, 7hs, 7ht, 7hu, 7hv, 7hw, 7hx, 7hy, 7hz, 7ia, 7ib, 7ic, 7id, 7ie, 7if, 7ig, 7ih, 7ii, 7ij, 7ik, 7il, 7im, 7in, 7io, 7ip, 7iq, 7ir, 7is, 7it, 7iu, 7iv, 7iw, 7ix, 7iy, 7iz, 7ja, 7jb, 7jc, 7jd, 7je, 7jf, 7jg, 7jh, 7ji, 7jj, 7jk, 7jl, 7jm, 7jn, 7jo, 7jp, 7jq, 7jr, 7js, 7jt, 7ju, 7jv, 7jw, 7jx, 7jy, 7jz, 7ka, 7kb, 7kc, 7kd, 7ke, 7kf, 7kg, 7kh, 7ki, 7kj, 7kk, 7kl, 7km, 7kn, 7ko, 7kp, 7kq, 7kr, 7ks, 7kt, 7ku, 7kv, 7kw, 7kx, 7ky, 7kz, 7la, 7lb, 7lc, 7ld, 7le, 7lf, 7lg, 7lh, 7li, 7lj, 7lk, 7ll, 7lm, 7ln, 7lo, 7lp, 7lq, 7lr, 7ls, 7lt, 7lu, 7lv, 7lw, 7lx, 7ly, 7lz, 7ma, 7mb, 7mc, 7md, 7me, 7mf, 7mg, 7mh, 7mi, 7mj, 7mk, 7ml, 7mm, 7mn, 7mo, 7mp, 7mq, 7mr, 7ms, 7mt, 7mu, 7mv, 7mw, 7mx, 7my, 7mz, 7na, 7nb, 7nc, 7nd, 7ne, 7nf, 7ng, 7nh, 7ni, 7nj, 7nk, 7nl, 7nm, 7nn, 7no, 7np, 7nq, 7nr, 7ns, 7nt, 7nu, 7nv, 7nw, 7nx, 7ny, 7nz, 7oa, 7ob, 7oc, 7od, 7oe, 7of, 7og, 7oh, 7oi, 7oj, 7ok, 7ol, 7om, 7on, 7oo, 7op, 7oq, 7or, 7os, 7ot, 7ou, 7ov, 7ow, 7ox, 7oy, 7oz, 7pa, 7pb, 7pc, 7pd, 7pe, 7pf, 7pg, 7ph, 7pi, 7pj, 7pk, 7pl, 7pm, 7pn, 7po, 7pp, 7pq, 7pr, 7ps, 7pt, 7pu, 7pv, 7pw, 7px, 7py, 7pz, 7qa, 7qb, 7qc, 7qd, 7qe, 7qf, 7qg, 7qh, 7qi, 7qj, 7qk, 7ql, 7qm, 7qn, 7qo, 7qp, 7qq, 7qr, 7qs, 7qt, 7qu, 7qv, 7qw, 7qx, 7qy, 7qz, 7ra, 7rb, 7rc, 7rd, 7re, 7rf, 7rg, 7rh, 7ri, 7rj, 7rk, 7rl, 7rm, 7rn, 7ro, 7rp, 7rq, 7rr, 7rs, 7rt, 7ru, 7rv, 7rw, 7rx, 7ry, 7rz, 7sa, 7sb, 7sc, 7sd, 7se, 7sf, 7sg, 7sh, 7si, 7sj, 7sk, 7sl, 7sm, 7sn, 7so, 7sp, 7sq, 7sr, 7ss, 7st, 7su, 7sv, 7sw, 7sx, 7sy, 7sz, 7ta, 7tb, 7tc, 7td, 7te, 7tf, 7tg, 7th, 7ti, 7tj, 7tk, 7tl, 7tm, 7tn, 7to, 7tp, 7tq, 7tr, 7ts, 7tt, 7tu, 7tv, 7tw, 7tx, 7ty, 7tz, 7ua, 7ub, 7uc, 7ud, 7ue, 7uf, 7ug, 7uh, 7ui, 7uj, 7uk, 7ul, 7um, 7un, 7uo, 7up, 7uq, 7ur, 7us, 7ut, 7uu, 7uv, 7uw, 7ux, 7uy, 7uz, 7va, 7vb, 7vc, 7vd, 7ve, 7vf, 7vg, 7vh, 7vi, 7vj, 7vk, 7vl, 7vm, 7vn, 7vo, 7vp, 7vq, 7vr, 7vs, 7vt, 7vu, 7vv, 7vw, 7vx, 7vy, 7vz, 7wa, 7wb, 7wc, 7wd, 7we, 7wf, 7wg, 7wh, 7wi, 7wj, 7wk, 7wl, 7wm, 7wn, 7wo, 7wp, 7wq, 7wr, 7ws, 7wt, 7wu, 7wv, 7ww, 7wx, 7wy, 7wz, 7xa, 7xb, 7xc, 7xd, 7xe, 7xf, 7xg, 7xh, 7xi, 7xj, 7xk, 7xl, 7xm, 7xn, 7xo, 7xp, 7xq, 7xr, 7xs, 7xt, 7xu, 7xv, 7xw, 7xx, 7xy, 7xz, 7ya, 7yb, 7yc, 7yd, 7ye, 7yf, 7yg, 7yh, 7yi, 7yj, 7yk, 7yl, 7ym, 7yn, 7yo, 7yp, 7yq, 7yr, 7ys, 7yt, 7yu, 7yv, 7yw, 7yx, 7yy, 7yz, 7za, 7zb, 7zc, 7zd, 7ze, 7zf, 7zg, 7zh, 7zi, 7zj, 7zk, 7zl, 7zm, 7zn, 7zo, 7zp, 7zq, 7zr, 7zs, 7zt, 7zu, 7zv, 7zw, 7zx, 7zy, 7zz
 - ARCHAEO PROTEROZOIC**
 - 2 Volcanic rocks; minor sedimentary rocks; include the ARCHAEOPROTEROZOIC FORMATION, the ARCHAEOPROTEROZOIC FORMATION, and the ARCHAEOPROTEROZOIC FORMATION.
 - 1 Limestone, dolomite, quartzite, argillite, volcanic rocks; include the ARCHAEOPROTEROZOIC FORMATION, the ARCHAEOPROTEROZOIC FORMATION, and the ARCHAEOPROTEROZOIC FORMATION.
 - PRE-CARBONIFEROUS**
 - C Mainly granitic rocks and metamorphosed sediments
 - B MICHIGANA (Celtic-bearing) SERIES; include the MICHIGANA FORMATION, the MICHIGANA FORMATION, and the MICHIGANA FORMATION.
 - A Granite, gabbro, and allied rocks; younger than 2

DEPARTMENT OF MINES AND RESOURCES
MINES, FORESTS AND SCIENTIFIC SERVICES BRANCH
GEOLOGICAL SURVEY OF CANADA
MAP 910A
(PUBLISHED, 1949)
GEOLOGICAL MAP
OF THE
MARITIME PROVINCES
(NEW BRUNSWICK, NOVA SCOTIA,
AND PRINCE EDWARD ISLAND)

SCALE: ONE INCH TO TWELVE MILES = 762,320
MILES 0 12 24 36 48 60
KILOMETRES 0 20 40 60 80

EXPLANATORY NOTES

This map is designed to show on a comprehensive scale the available information on the geology of the three maritime provinces. It shows the East and Centre sheets of the map of Southern Quebec, a compilation on the same scale issued in 1943. In its preparation the more recent source maps were made use of first, and for the remaining parts an earlier series, many on a scale of 1 inch to 1 mile in Nova Scotia and on a scale of 1 inch to 2 miles in New Brunswick and Prince Edward Island were employed, and in places were interpreted in the light of later information. Previous regional geological maps of Nova Scotia and New Brunswick, published in 1927 and 1931 respectively, on a scale of 1 inch to 2 miles, were also used. Like them the present map has been geologically coloured throughout, although the known information in some parts is much more complete than in others. The legend, with its double column indicates such differences, and emphasizes the large amount of geological work that still remains to be done.

Nova Scotia and New Brunswick contain numerous and varied mineral occurrences of which only the more important are shown on the map. Much the largest single item of production is that of coal, all of which is derived from formations of Pennsylvanian age, those of the Riverbank group being the oldest and those of the Cumberland and Pictou groups successively younger. Gypsum and salt are produced from the Windsor group of late Mississippian age, and the early Mississippian Albert formation of New Brunswick provides natural gas and petroleum and contains extensive deposits of oil shale and rock salt, as well as gypsum and glauconite. Exploitation for petroleum, natural gas and rock salt in the Maritimes is in progress.

Both Nova Scotia and New Brunswick contain a large number of properties that have produced small quantities of manganese oxides. In Nova Scotia, too, are scores of deposits in the Meguma (Gold-bearing) series that have yielded gold, and a number of these are now producing. Iron has been produced from magnetite-hematite ores in the region south of Bathurst, and in the Lonsdale area of the same province. Antimony has been obtained from stibnite-bearing veins at Lake George, York County, New Brunswick, and at West Gore, Hants County, Nova Scotia. In addition there are numerous occurrences of copper, zinc, and lead minerals, most of which, as of the other metallic minerals of deep-seated origin, are related to the Devonian intrusions.

Miscellaneous non-metallic products include important deposits of barite, which is mined in quantity at Walton, Nova Scotia. Fluorite occurs in veins with barite in the East Lake Annis district, Cape Breton Island, and at Merrimack East, New Brunswick. Extensive deposits of limestone and dolomite occur in the Green Head formation of the Lake Umbagog district, and high-calcium limestone occurs at numerous points in rocks of Silurian age and in the Windsor group. They are quarried for soil amendment, structural lime and for the manufacture of pulp. Red, grey and black granites and related rocks are quarried for monumental and building stone, and Carboniferous sandstones are used for structural purposes and abrasives. Numerous deposits of sphagnum moss are known in the Maritimes, particularly in New Brunswick where the manufacture of litter and other products is increasing rapidly. Diatomite occurs in many places and has found some application in industry. While quartzite is quarried west of Sydney for the manufacture of silica brick, and silica sand is obtained in southern Inverness County for use as a flux. Quartzite pebbles suitable for grinding purposes occur at Kinnearville, west of Louisbourg, and on Leach Beach near Cabotus. Fire clay is found at Middle Musquodoboit and at Sydney. Clay suitable for the manufacture of brick and tile is abundant and manufactured at several plants. Widespread deposits of sand and gravel have proved constantly useful as constructional materials.

Index to recent geological maps in the Maritime Provinces, published by the Geological Survey.

No.	MAP No.	TITLE	SCALE	No.	MAP No.	TITLE	SCALE
1	620A	Malapetua	1 inch to 1 Mile	20	409A	Oxford (East Half)	1 inch to 1 Mile
2	421A	Campbellton	1 inch to 1 Mile	21	87A	St. John	1 inch to 1 Mile
3	641A	Jacquet River	1 inch to 2 Miles	22	87AA	Lonsdale	1 inch to 1 Mile
4	640B	Tangier River	1 inch to 1 Mile	23	43A	New Glasgow	1 inch to 2000'
5	362B	Single River	1 inch to 2 Miles	24	1396 (137A)	Arsling	1 inch to 4000'
6	P. 18, 19, 20	Plant River	1 inch to 1 Mile	25	1397 (128A)	Arsling-Kingsburgh	1 inch to 1 Mile
7	1709	Barnhill Brook	1 inch to 1 Mile	26	P.M. 46-12	St. John of Capreol	1 inch to 1/2 Mile
8	360A	Woodville	1 inch to 1 Mile	27	P.M. 46-3	Horn Mountain	1 inch to 1 Mile
9	2108	Minto (East Half)	1 inch to 1 Mile	28	P.M. 46-2	St. George	1 inch to 1 Mile
10	2107	Chapman (West Half)	1 inch to 1 Mile	29	P.M. 46-1	St. George	1 inch to 1 Mile
11	650A	Alford Brook	1 inch to 1 Mile	30	P.M. 46-2	St. George	1 inch to 1 Mile
12	650B	Saltford	1 inch to 1 Mile	31	407A	Salt Pond	1 inch to 1 Mile
13	390A	St. John	1 inch to 1 Mile	32	407B	Salt Pond	1 inch to 1 Mile
14	282A	Lake Annis	1 inch to 1 Mile	33	479A	Lock Lumber (West Half)	1 inch to 1 Mile
15	390B	St. John	1 inch to 1 Mile	34	479B	Lock Lumber (East Half)	1 inch to 1 Mile
16	360A	Sydney (West Half)	1 inch to 1 Mile	35	437A	New Ross	1 inch to 1 Mile
17	360B	Sydney (East Half)	1 inch to 1 Mile	36	437B	Shelburne Lake	1 inch to 1 Mile
18	362A	St. John	1 inch to 1 Mile	37	1396 (No. 87)	Chesler Basin	1 inch to 1 Mile
19	641A	Pettibone (West Half)	1 inch to 1 Mile	38	438A	Kilmorylan Lake (West Half)	1 inch to 1 Mile
20	641B	Pettibone (East Half)	1 inch to 1 Mile	39	438B	Malgas Lake (West Half)	1 inch to 1 Mile
21	842A	Sydney	1 inch to 1 Mile	40	438C	Malgas Lake (East Half)	1 inch to 1 Mile
22	842B	Sydney	1 inch to 1 Mile	41	2154 (No. 89)	Bidgewater	1 inch to 1 Mile
23	331A	Springhill	1 inch to 1 Mile	42	450A	Liverpool (West Half)	1 inch to 1 Mile
24	331B	Springhill	1 inch to 1 Mile	43	450B	Liverpool (East Half)	1 inch to 1 Mile
25	1796	Mt. Allison	1 inch to 1 Mile	44	450C	Liverpool (West Half)	1 inch to 1 Mile
26	410A	Oxford (West Half)	1 inch to 1 Mile	45	1396 (No. 91)	Napier Cove	1 inch to 1 Mile

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