



Natural Resources
Canada

Ressources naturelles
Canada

Minisi-Zaaga'igan Gaa-maawadoonigaadegin Biiwiga'iganan Izhichigewin: Wiiba Gaa-mikigaadeg



2016
**Kaanada Gaa-naagajitood Gaa-aabadak gegoo
Kaanada Mitigokewin Gaa-anokaadeg
Gichi-Zaaga'iganiing Mitigokewin Gaa-danakamigak**

Wiindamaagewin Ozhibii'igewin GLC – X – 16

Canada

Minisi-Zaaga'igan Gaa-maawadoonigaadegin Biiwiga'iganan Izhichigewin: Wiiba Gaa- mikigaadeg

**L. Boisvert-Marsh, I. Aubin, R. Fleming, P. Hazlett, D. Morris, L. Venier,
K. Webster, gaye S. Wilson**

Kaanada Gaa-naagajitood Gaa-aabadak gegoo
Kaanada Mitigokewin Gaa-anokaadeg
Gichi-Zaaga'iganiing Mitigokewin Gaa-danakamigak
1219 Ogimaakwe Miikana Waabanong
Baawiting, ON
P6A 2E5

Ontario Ogimaawiwin Gaa-naagajitoowaad Gaa-aabadak gegoo gaye Mitigokewin
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421 Jiimis Miikana Zhaawanong
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Gii-ozhibii'igaade:
Kaanada Gaa-naagajitood Gaa-aabadak gegoo
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Gichi-Zaaga'iganiing Mitigokewin Gaa-danakamigak
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Wiindamaagewin Ozhibii'igewin Agindaason: GLC-X-16
2016

Minisi-Zaaga'igan Gaa-maawadoonigaadegin Biiwiga'iganan Izhichigewin: Wiiba Gaa-mikigaadeg

Mazina'iganigamig gaye Gaa-izhi-naagajichigaadegin Mazina'iganan Kaanada Akiing Gaa-ozhichigaadegin

Minisi-Zaaga'igan Gaa-maawadoonigaadegin Biiwiga'iganan Izhichigewin: Wiiba Gaa-mikigaadeg

(Wiindamaagewin Ozhibii'igewin, GLC-X-16)

Gaye baakwaayishiiwibii'igaade owe dash e-izhinikaadeg "The Island Lake Biomass Harvest Experiment: Early results ". L. Boisvert-Marsh gaye bakaan awiyag 2016.

Gaa-maamaagonigaadeg ozhibii'igaade PDF e-izhi-biijising.

Gaye atewan aaniindi gaa-ondinigaadeg iwe gikendaasowin.

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Bizaanigo daa-aabajichigaade owe wiindamaagewin gaa-ozhibii'igaadeg omaa mazina'iganning giishpin awiya wii-aabajitood wiin igo gemaa odanokiiwining, gaawiin dash memwaach ji-diba'iged gaye ji-gagwedwed, maagizhaa dash eta inind gaawiin ji-izhichigesig.

Gi-gagwejimigoo ji:-

- weweni ji-naasaabibii'aman iwe wiindamaagewin gaa-aabajitooyin;
- ozhibii'an aaniin ezhinikaadeg iwe mazina'igan gaa-naasaabibii'aman gaye ezhinikaadeg iwe izhichigewin gaa-gii-onji-ozhibii'igaadeg; gaye
- ikidon iwe e-naasaabibii'aman iwe ogimaawiwin Kaanada Natural Resources (NRCan) gaa-gii-anookiid ji-ozhibii'igaadenig gaye dash gaawiin gii-dagwiisiiwag ji-naasaabibii'igaadeg ozhibii'igan imaa NRCaning.

Gaawiin bagidinigaadesinoon ji-adaawaageng gaa-gii-naasaabibii'igaadeg gaye ji-maajinizha'igaadeg miziwe, gagwedweyin eta ji-bagidinigooyin iwe gi-daa-izhichige NRCan ji-ikidod. Giyaabi wii-gikendaman gegoo, ganoosh NRCan omaa

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**Minisi-Zaaga'igan Gaa-maawadoonigaadegin Biiwiga'iganan
Izhichigewin: Wiiba Gaa-mikigaadeg**

Minisi-Zaaga'igan Gaa-maawadoonigaadegin Biiwiga'iganan Izhichigewin: Wiiba Gaa-mikigaadeg

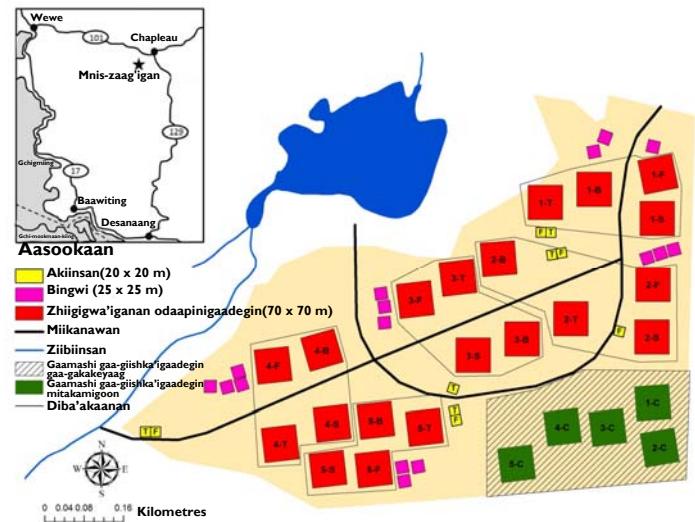
NITAM WIINDAMAAGEWIN

Zhiigigwa'iganan daa-gitaabajichaadewan omaa Kaanada Akiing ji-ozhichigaadeg bakaan gegoo. Mii dash enenjigaadeg daa-aabajichaade o'owe ji-nitaawigiwaad mitigoog ani-akiwang gaye ji-izhi-babeshiimakibana bemaadiziimagak. Mii dash wenji-naniizaanendamong gii-wii-odaapinigaadegin ini zhiigigwa'iganan ji-wanaajichaadeg ge-izhi-mitigokaag ani-akiwang.

Iwe Minisiwi-Zaaga'igan Zhiigigwa'igan Gaa-maawadoonigaadegin Experiment gii-ozhichigaade jinanaando-gikenjigaadeg aanin ge-inishkaagemagak giimitigokeng imaa gaa-izhi-nitaawigiwaad mitigoog gaye awensiwig gaye manijooshag gaye gakina gegoo gaa-nitaawig imaa mitigokaang, gaye aaniin enendaagwak azhashki gaye minogiwig na mitigoog (waabandan Frontline Express #80 gaa-izhinikaadeg giishpin giyaabi wii-gikendaman). O-gagwe-nisidotanaawaa igi gaa-nanaando-gikenjigewaad aaniin mitigo-kewin enishkaagemagak imaa mitigokaang aaniin ge-izhisemagak bimaadiziwin noopimiing. Niibiwa gegoo gaa-bimaadak aapiji gaa-agasing gaa-nitaawigiimagak da-nanaandogikenjigaade, gaye aaniin enishkaagowaad gaye ezhii-wiijiindiimagakin gaye aaniin ge-izhiging gegoo. Gaawin eta da-naasaabanjigaadesinoon noongom gaa-izhi-mitigokeng, o-da-nanaando-gikenjigaade aaniin ezhisemagak gii-migoshkaajichaadeg netawigig, gaye aaniin ge-gii-izhi-anjichigaadegibin mitigokewin. Amii ge-izhichigeng jimanajaajichaadeg gaa-daswewaanagak bemaadiziimagak imaa noopimiing ginwesh niigaan ani-akiwang. Gaye, dagagwe-gikenjigaade aaniin bingwi ge-izhi-minwaabadakibana imaa azhashkiing.

Gii-giishkawaawag mitigoog (40 niimidana daso-biboonagiziwaad okikaandagoog) gii-biboong 2010 biinish 2011 gii-izhiseg niiwing e-gii-odaapinigaadegin zhiigigwa'iganan, daabishkoo: 1) okikaandagoog mitigoog, e-gigaandagiziwaad onakong, miinawaa dash 2) e-gii-odaapinaadeg gakina gegoo gaa-gii-giishkiga'igaadeg, 3) gakina gegoo gii-odaapinigaade daabishkoo giishkida'iganan, gaye

4) gakina gegoo gii-odaapinigaade daabishkoo giishkida'iganan, biiwiga'iganan gaye eteg imaa mitakamig. Gaa-gii-izhiseg gii-dibaabanjigaade wegonen dinookaan mitig gaa-gii-nitaawigi'ind imaa gii-ishkwaa-giishka'aakweng (okitaandagoog gemaa mina'igoog) gaye giishpin bichibowin gaa-aabajichaadegibin imaa. Niswe gaa-izhisemagak noopimiing (oshki-zakideg, mewinsha gaa-gii-zakidegibin, gemaa 40 niimidana daso-biboon gaa-gii-zakidegibin niizhing gaa-nitaawigiwaad mitigoog) da-ganawaabanjigaade. Gaye midaaswi mitigoog gaa-giishkandaagiziwaad gaye gaa-gigaandagiziwaad Gii-onwaadewan gaye aaniindi ge-izhi-maawadoonigaadegin biiwiga'iganan ngoji bakaan imaa nitam (1960s) gaa-gii-izhi-maawadoonigaadegibaniin, gaa-gii-onji-bishagakamishkewaapan azhashki gii-odaapinamowaad. Mii imaa ge-onji-nisidotamang aaniin enishkaagemagak moozhag gii-odaapinigaadeg iwe biiwiga'igan aaniin enishkaag aki gaye bemaadiziimagak imaa akiing.



Akiinsan ezhisingin imaa Minisiwi-zaaga'iganiing BHE

ZHICHIGEWIN DAZHINJIGAADEG

Aarhus Gichi-gikendaasooowigamig (Denmark), Kaanada Ezhiseg Aki Gikendaasooowigamig, Kaanada Bagwadakamig Gikenjigewin, Kaanada Gikendaasooowigamig Mitigokewin gaa-ganawaabanjigaadeg (SEEK), Carleton Gichi-gikendaasooowigamig, Gikendaasooowigamig gaa-naanaagadawaabanjigaadeg Mitigokewin, FPinnovations, Laurentian Gichi-gikendaasooowigamig, McMaster Gichi-gikendaasooowigamig, Modelisation Complexite de la Foret, Museum National d'Histoire Naturelle (Baakwaa'ishiiwakiing), Gaa-Gaa-wiiji'idiwaad gaa-nanaando-gikenjigewaad awiyag imaa Kaanada Noopimiing Wiji'iweewin (Gichi-Zaaga'iganiing Miti-gokewigamigong GLFC), Ontario Ogimaa Gaa-naagajitood Gaa-aabadak Bagwadakamig gaye Mitigokewin (OMNRF) gaye dash aanind gichi-gikendaasooowigamigoon o-nanaando-gikendaanaawaa ezhiseg iwe gakina gaa-nitaawigiimagak gaye azhashki gaye gaa-izhi-minogiwaad mitigoog gaa-badakizowaad owe dash 14 midaaso-shi-niwinoon izhichigewinan. Omaa dash dazhinjigaadewan ini izhichigewinan gaye ge-izhi-bimiwijigaadegin naano-biboon endasozhichigewin.

Minisi-Zaaga'igan Gaa-maawadoonigaadegin Biiwiga'iganan Izhichigewin: Wiiba Gaa-mikigaadeg

Izhichigewin Gaa-wiindeg	Gaa-gii-dagwiiwaad gaa-nanaando-gikenjigewaad*	Gaa-daswewaanagakin bemaadiziimagakin, enanokiimagakin gaa-izhi-gikenjigaadeg
Aaniin ezhigiwaad mitigoog		
I. Ezhi-badakizowaad mitigoog jibwaa- gaye ishkwaaw maawa-doonigaadegin biiwiga'iganan	Rob Fleming <i>Dave Morris¹</i>	Gaa-onjiimagak omii-jimimiwa mitigoog (e-gikenjigaadeg wegoneniwang) Gaa-izhigiwaad mitigoog (D8H, gaa-apiitakizowaad) Maamaw edashiwaad eniginiwaad
Ezhiseg azhashki		
2. Enishkaagemagak gii-maawadoonigaadegin biiwiga'iganan imaa gaa-miijimiwang azhashki	Dave Morris ¹ <i>Paul Hazlett</i>	Aaniin minik jibwaa-mitigokeng gaye gii-ishkwaaw-mitigokeng Giishkida'iganan gaye ojiblikoon Enendaagwak azhashki (pH, C gaye gaa-miijimiwang)
3. Enishkaagemagak gii-maawadoonigaadegin biiwiga'iganan gii-onjiseg ge-wiilkwanaandamowaad mitigoog gaye iwe azhashki	Kara Webster	Azhashki gaa-onjiimagak gaa-ikwanaandeg Ezhi-minoseg iwe gaa-ishkwaaw-ikwanaandeg
4. Ezhisemagak gii-dagonigaadeg bingwi imaa ji-miijimiwang azhashki	Bill Peng ² <i>Neal Scott² Paul Hazlett</i>	N Gii-onaadakin aniiibiishan gaye biigijiisag e-onji-ozhi' oomagak azhashki gaye gii-nibiiwang azhashki zaaga'iganing dash gii-inaazhigawig iwe nibi
Gaa-izhiwebak Imaa Besho Eta		
5. Bakaan izhiweban imaa besho eta, gaye iwe azhashki bakaan da-inishkaa iwe gii-maawadoonigaadegin biiwiga'iganan	Elyn Humphreys ³ <i>Rob Fleming Kara Webster</i>	Gaa-ikwanaandamang gaa-naagwasinog gaye azhashki epiichi-giizhawag Epiichi-zhakaag Azhashki eniibiwang gemaa zhakaag Epiitaanimag aaniindi gaye wendaanimag E-aniozhaawashkobagaag giizis dash gaa-izhichiged Gii-gimiwang
Wegonen Dinookaan Bemaadiziimagak		
6. Enishkaagowaad mooseg bingwi mitiigon gaa-onjiimagak	Paul George ⁴ <i>Zoe Lindo⁴ Paul Hazlett Lisa Venier</i>	Endashiwaad mooseg gaye ezhinaagoziwaad enendaagoziwaad
Ezhisemagak azhashki owe gii-izhiseg: 7. gii-maawadoonigaadegin biiwig-a'iganan 8. gii-dagonigaadeg bingwi	Emily Smenderovac ⁵ <i>Genevieve Noyce⁵ Nathan Basiliko⁶ Kara Webster</i>	Enendaagwak azhashki gaye miziwe imaa aki gaa-ayaamagak
9. Enishkaagowaad gii-maawadoonigaadegin biiwiga'iganan bemaadiziwaad gaa-okaniwisigwaa dinookaanag daabishkoo mooseg gaye amwaabigewiswag	Joseph Bowden ⁷ <i>Jan Klimaszewski⁸ Tim Work⁹ Dave Morris¹ Paul Hazlett Lisa Venier</i>	Asabikeshiwag gaye mitakamig gaye noobing gaa-ayaawaad manijooshag
10. Gaa-izhi-wiijindiaad gaye ezhimaaadiziwaad awensiwig jinanaando-gikenimindwaa	Laurent Rousseau ⁹ <i>Tanya Handa⁹ Marco Moretti¹⁰ Sandrine Salmon¹¹ Lisa Venier</i>	Gaa-agaashiiwiwaad aapiji manijooshensag azhashkiing gaa-dazhiikewaad



Minisiwi-zaaga'iganing gaa-danakamigak (ogijiya''ii) gaye gii-ishkwaaw-maawadoonigaadegin (aapitawiya''ii) gaye dash ezhigiwe-nitaawigig 2015 gii-izhiseg (anaaming)

Izhichigewin Gaa-wiindeg	Gaa-gii-dagwiiwaad gaa-nanaando-gikenjigewaad*	Gaa-daswewaanagakin bemaadiziimagakin, enanokiimagakin gaa-izhi-gikenjigaadeg
11. Ezhi-wiijii'igowaad biigijiisag oojiisag gaye wiinjiigag gaa-izhinikaazowaad manijooshag gaye ozhashkwedowag	Cédric Boué ⁹ <i>Alexis Brodeur⁹ Charbel Hanna⁹ Steve Kembel⁹ Tim Work⁹ Lisa Venier</i>	Ojjiisag, wiinjiigag gaa-izhinikaazowaad manijooshag gaye wazhashkwedowag
12. Ezhichigewaad ji-gagwe-gikendamowaad aanin ezhigiking bemaadiziimagakin imaa azhashkiing	Jesse Hoage ⁶ <i>Nathan Basiliko⁶ Terri Porter¹² Kara Webster Lisa Venier</i>	Ezhichigewaad ji-gagwe-gikendamowaad aanin ezhigiking bemaadiziimagakin imaa azhashkiing
13. Gaa-aanjiseg gaa-daswewaanagiziwaad bemaadiziwaad imaa azhashkiing gaye gaa-izhi-bimaadiiziwaad	Idaline Laigle ¹³ <i>Christian Messier¹⁴ Isabelle Aubin</i>	Azhashkiing gaa-ayaamagakin gitigaanan gaa-daswewaanagakin
14. Ji-maamawi-naagadaabanjigaadeg aaniin ezhigingin gitigaanan gaye awensiwig gaye azhashki	Idaline Laigle ¹³ <i>Dominique Gravel¹³ Marco Moretti¹⁰ Isabelle Aubin and all study researchers</i>	Ezhi-bakaanendaagwakin netaawigikin gegoongan imaa azhashkiing gaa-izhikwaamaawadoonigaadegin biiwiga'iganan

*NRCan izhinikaade. ¹OMNRF, ²Gichi-ogimaakwe Gichi-gikendaasoowigamig, ³Carleton Gichi-gikendaasoowigamig, ⁴Ningaabii'anong Gichi-gikendaasoowigamig, ⁵Gichi-gikendaasoowigamig Toronto, ⁶Laurentian Gichi-gikendaasoowigamig, ⁷Aarhus Gichi-gikendaasoowigamig, ⁸Laurentian Mitigokewigamig (CFS), ⁹Gichi-gikendaasoowigamig Quebec Montreal, ¹⁰Swiss Gichi-nanaando-gikenjigewigamig.

¹¹Gete-gegoongan gaa-izhi-ganawenjigaadegin, ¹²McMaster Gichi-gikendaasoowigamig, ¹³Gichi-gikendaasoowigamig Sherbrooking, ¹⁴Gichi-gikendaasoowigamig Quebec Ootaweng.

Gaa-opimesingin ozhibii'iganan amii igiwe ge-ozhibii'amawindwaa.

Minisi-Zaaga'igan Gaa-maawadoonigaadegin Biiwiga'iganan Izhichigewin: Wiiba Gaa-mikigaadeg

ZHEMAAK GAA-WIINDEG GEKENJIGAADEG

I. Gaa-badakizowaad mitgoog (geyaabi dash)

Amii gaa-izhi-waabanjigaadeg igi mitigoog gaa-gii-onji-odaapinigaadegin zhiigigwa'iganan nawach noongom dakwaakoziwig apiich wiin odaanaang gaa-gii-akwaakoziwaad. Gaa-gii-nitaawigi'indwaa mitigoonsag niizho-biboon gaa-izhiseg awashime 95% minigok gii-minogiwig gaa-izhi-niizhwewaanagiziwaad mitigoog. Igi dash wiin okikaandagoog gaawiin aapiji gii-ginoozisiiwig gii-ishkwwaa-maawadoonigaadegin biiwiga'iganan. Igi dash wiin mina'igoog nawach gewiinawaa bangii eta gii-nitaawigiwig iwe bezhigwan inakeya''ii.

2. Gaa-izhi-bakaanendaagwak Gaa-mijjimiwang Ashashki (geyaabi dash)

Imaa gaa-gii-onji-odaapinigaadegin ini biiwiga'iganan (gii-bashkobijigaadegin) nawach bangii gii-ayaamagan iwe gaa-bagidanaamong gaye gaa-miijimiwang. Gii-odaapinigaadegin giishkada'iganan, gaawiiin aapiji bakaan gii-inendaagwasinoon. Imaa dash gaa-gii-izhi-ginigawinigaadeg bingwi, nawach niibiwa biwaabik gii-ayaamagan (K, Ca, Mg) ebaatiinoomagak iwe bingwi.

3. Gii-bagidanaamoomagak azhashki gaye iwe gaa-bagidanaamoomagak (geyaabi dash)

Aanawi gii-ani-agaasiinadak gaa-bagidanaamoomagak azhashki gii-ganawaabananjigaadeg aaniin ezhigingen gitigaanan, iwe CO₂ (gaa-zaagijijiwang) nawach gii-ginwaakoziwig mitigoog, gaye ini giish-kida'iganan August gii-bimangizod gaawiiin aapiji e-ozhaawashkobagaag imaa anaamaatig. Andawenjigaade ji-ayaamagak ge-izhi-dibaabanjigaadeg iwe ji-gikenjigaadeg ezhiseg gii-odaapinigaadegin biiwiga'iganan, ji-gikenjigaadeg wegonen ge-izhichigeng ji-minogikin gegoongan gaa-nitaawigigin gaye ezhimijimoomagakin.

**4. Ezhiseg gii-dagonigaadeg bingwi imaa
gaa-izhibagidanaamoomagak (geyaabi dash)**

Gaawiin aapiji gichi-bakaan inendaagosinoon gi-dagonigaadeg bingwi imaa azhashkiing mitakamig noopimiing gaye angobiboon gii-achigaadeg imaa. Gaa-gii-izhi-achigaadeg bingwi gaawiin niibiwa gii-zaagijigawizinoon imaa azhashkiing gii-nibiikaag daabishkoo bakaan gaa-gii-izhiseg.

5. Gaa-izhiwebak besho eta imaa (*gevaghi dash*)

3. Gaa-izihwedaaq desho (gii-dabi dash) Gaa-apiichi-gizhawaag iwe azhashki amii daabishkoo aaniin min-ik gaa-gii-ishkonigaadeg biiwiga'igan imaa gii-ishkwaa-giishka'aakweng, gii-odaapinigaadegin biiwiga'iganan gii-gizhawaayaagm nawach gii-dipaabaawe iwe azhashki gaawiin maawiin aapiji gii-nitaawigizingin gitigaanan imaa, aapiji wenji-bagidanaamoomagazinog aki.

6. Enishkaagowaad mooseg gii-achigaadeeg bingw (Gii-giizhichigaade 2014 gii-izhiseq)

Gii-baatiinowag mooseg iwe apii gaawiin dash wiin ozaam gegoon gii-doojigaadeg gaa-izhi-dazhiikewaad. Daa-onizhishin ji-ganawaabanjigaadeg gaa-iniginiaaad igi mooseg (aanuin enendaagoziwaad) nawach daa-onizhishin iwe ji-gikenjigaadeg gegoo daabishkoo aanuin ezhiseg azhashki ji-gikendamowaad gaa-naagajitooaad iwe dinookaan.

7. Aaniin ezhiseg iwe azhashki gii-gichi-giishka'aakweng

(Gii-giizhichigaade 2014 giizhiseg)

Gii-bakaanendaagwak minik gaa-giishka'aakweng, gii-bakaanendaagwan gaa-nitaawigik imaa bagwadakamig, gaawiin dash wiin igo aapiji gii-naagosinoon. Gaawiin ginwesh apii, gii-bakaanendaagwan ezhiseg gii-maawadoonigaadegin ini biiwiga'iganan. Gaa-ani-niizhobiboonagaak gii-ishkwaakamigak, gii-bakaanendaagwan ezhii-nitaawigigin imaa gegoongan. Gii-waabanjigaade aaniin gaa-izhinaagwak bakaan imaa gaa-gii-izhi-zakidegiban, amii dash gaa-inendamowaad gaawiin daa-gichi-bakaanendaagosinoon iwe izhiseg.

8. Ezhiseg iwe azhashki gii-dagonigaadeg bingwi (Gii-gizhichigaade 2015 gii-izhiseg)

Nitam gii-dagonigaadeg bingwi imaa azhashkiing bakaan gii-inendaagwan gaa-nitaawigii magak imaa azhashkiing. Nawach dash niibiwa bingwi gii-ani-dagonigaadeg, gaawiin aapiji bakaan gii-inendaagosinoon, memindage gaa-gii-izhinaagwak gii-ishkwaa-zakideg ako.

9. Gaa-inishkaagowaad gii-maawadoonigaadegin biiwiga'iganan imaa manijooshing (Geyaabi dash)

Gii-wanashkwechigaadeg iwe mitakamig, daabishkoo gii-waanikeng, onji-bakaanendaagwan gaa-ayaamagak imaa azhash-kiing. Igi manijooshag gaa-dazhiikewaad azhashkiing o-gii-maanishkaagowaa gii-maawadoonigaadegin biiwiga'iganan mitakamig, gaawiin dash wiin aapiji giishpin gaawiin gegoo gichi -izhichigeng. Igi wiinjiigag gii-ganawaabanjigaazowaad onji-gikenjigaade aaniin ezhigig aki noopimiing gaa-izhi-minwaakwaag.



Gii-anokaajigaade owe naagadawaabanjigewin Minisi-zaaga'iganiing Azhashki gaa-bagidanaamoomagak (ogijiya'ii) gaye gii-odaapinaawag manijooshag (anaaming)

Minisi-Zaaga'igan Gaa-maawadoonigaadegin Biiwiga'iganan Izhichigewin: Wiiba Gaa-mikigaadeg

10. Awensiwig ji-dibaabanjigaazowaad aaniin ezhiseg aki (Geyaabi dash)

Gii-bashkoga'igaadeg iwe aki, geget aanjisemagan gaa-izhi-dazhiikewaad awensiwig gakina gegoo igo gaye gaa-izhi-ayaamagak azhashki, e-gikenjigaadeg gii-maawadoonigaadegin biiwiga'iganan.

11. Epiitendaagwak iwe biigijiisagong gaa-dazhiikewaad bemaadiziwaad (Geyaabi dash)

Ninanaando-gikendaamin aaniin epiitendaagwak iwe biigijiisag gaa-bimaakoshing mitakamig, aaniin ezhi-dazhiikewaad imaa manijooshag. Nin-gii-onji-dasoonaanaanig manijooshag gaye oojiinsag imaa biigijiisagong. Gaye nin-gii-odaapinaamin giish-kida'igoon ji-waabandamaang giishpin ji-nitaawigig imaa gegoo daabishkoo aasaakamig, wazhashkwedowag gaye bakaan gegoo. Da-onizhishin ji-nanaandogikenjigaadeg biigijiisag aaniin da-gikenjigaade aaniin ezhi-miijiwaad gaa-nitaawigininig imaa biigijiisagong manijooshag.



Gii-waawaabanjigaade azhashki ezhinaagwak gii-ayaayaang noopimi-ing

12. Aaniin ezhigiwaad manijooshag gaye awensiwig gaa-dazhiikewaad azhashkiing (Geyaabi dash)

Megwaa nindazhiikaamin ge-izhi-minoseg ji-naanaagadawaabandamaang ezhi-dazhiikewaad awensiwig gaye manijooshag azhashkiing gii-maawadoonigaadegin biiwiga'iganan. Noongom aazha nin-gashkitoomin ji-gikendamaang aaniin ezhiging gegoon imaa azhashkiing gaa-gii-odaapinamaang, noongom dash mbiitoomin ji-gikendamaang.

13. Anaamaatig gaa-nitaawigiimagakin gitigaanan (Geyaabi dash)

Niizho-biboon aazha ni-waabandaamin bakaan e-inendaagwak gaa-inakamigaak noopimiing gii-odaapinigaadeg bangii azhashki gaye giishkida'iganan gaye, gawiin dash wiin gii-giishka'aakweng gaye gaa-iniginiwaad mitigoog.

14. Maamaw gaa-nanaando-gikenjigeyaang (Geyaabi dash)

Megwaa ninganawaabandaamin aaniin ezhisemagak gii-maawadoonigaadegin biiwiga'iganan imaa gaa-izhi-miijiwaad awensiwig gaye ezhi-daswewaanagiziwaad bemaadiziwaad imaa mitakamig. Ni-wii-gagwe-gikendaamin wegonen menoseg imaa mitakamig. Waabandamaang aaniin ezhigiwaad gaa-daswewaanagiziwaad da-onji-naagwan aaniin ezhiseg gii-migoshkaajichigaadeg gegoo imaa gaa-daswewaanagak, emigoshkaaji'igowaad iinzan. Aanind dash daswewaan bemaadiziimagakin nin-ga-ganawaabandaamin ji-gikendamaang aaniin enishkaagemak iwe.



Gaa-gii-ganawaabanjigaade aaniin enishkaagemagak gii-ishkonigaadeg iwe gaa-gii-bashkoga'igeng imaa gaa-danakamigizing

Minisi-Zaaga'igan Gaa-maawadoonigaadegin Biiwiga'iganan Izhichigewin: Wiiba Gaa-mikigaadeg

Owe dash naanaagadawaabanjigan nin-ga-aabajitoomin nawach geyaabi ji-nisidotamaang aaniin enishkaagemagak imaa mitakamig iwe gii-maawadoonigaadegin biiwig-a'iganan. O-da-wiiji'igonaawaa owe wiindamaagewin igi gaa-naagajitoowaad owe dinookaan gaye igi gaa-ozhitoowaad inaakonigewin, dazhinjigaadeg aaniin ezh-minosemagak mitigokewin gaye giishka'aakwewin. Gegapii dash, iwe Minisi-zaaga'igan naanaagadawaabanjigan niibiwa daswewaan gikendaasowin e-aab aadak ji-ganawaabanjigaadeg ezhisemagak gegoo imaa noopimiing, da-onji-gikenjigaade ezhiseg imaa besho, gaye miziwe omaa akiing. Iwe gaye 20-biboon Ontario okikaandagoog gaye mina'igoog gaa-gii-izhi-dibaabanjigaazowaad Ginwesh Azhashki Ezhi-anokiimigak Izhichigewin gaa-gii-achigaadegin (18 maamaw) nawach geyaabi e-gikenjigaadeg ezhiseg gaawiin eta omaa, wedi agaamakiing inake, da-oshki-gikenjigaadewan dash aaniin ezhiseg gii-ishkwaasakideg. Geyaabi dash da-dibaabanjigaade aaniin ezhiseg giishpin ajina eta waabanjigaadeg gaye ji-naagadawaabanjigaadeg ge-izhiseg ginwesh izhiseg, aaniin enakizowaad mitigoog gaye gaa-biiwising mitakamig.

GAA-GII-DAGWIIMAGAKIN GIKENDAASOOIWIGAMI- GOON GAYE AWIYAG

Aarhus Gichi-gikendaasooiwigamig(Denmark), Kaanada Ezhiseg Aki Gikendaasooiwigamig, Kaanada Bagwadakamig Gikenjigewining, Kaanada Gikendaasooiwigamig Mitigokewin gaaganawaabanjigaadeg (SEEK), Carleton Gichi-gikendaasooiwigamig, Gikendaasooiwigamig gaa-naanaagadawaabanjigaadeg Mitigokewin, FPinnovations, Laurentian Gichi-gikendaasooiwigamig, McMaster Gichi-gikendaasooiwigamig, Modelisation Complexite de la Foret, Museum National d'Histoire Naturelle (Baakwaa'ishiiwakiing), Gaa-naanaagadawaabanjigaadeg Aki gaye Ozhichigewin omaa Kaanada, Giwedonong-waabonong Gikendaasowin gaye Wiindamaagewin, Giwedonong-waabonong Superior Noopimiing Dazhiikewin, Giwedonong-waabonong Superior Ogimaakaanag gaa-maamawiwaad, Ontario Ogimaawiwin gaa-naagajichigaadeg Aabadak gegoo gaye Mitigokewin, Ontario Waasigan, Quebec Gikendaasooiwigamig, Gichi-ogimaakwe Gichi-gikendaasooiwigamig, Swiss Gichi-gikendaasooiwigamig, Tembec, Quebec gaye Montreal Gichi-gikendaasooiwigamig, Quebec Gichi-gikendaasooiwigamig imaa Otawe, Quebec Gichi-gikendaasooiwigamig imaa Nimooski, Sherbrook Gichi-gikendaasooiwigamig, Gichi-gikendaasooiwigamig imaa Toronto, gaye iwe Ningaabii'anong Gichi-gikendaasooiwigamig



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