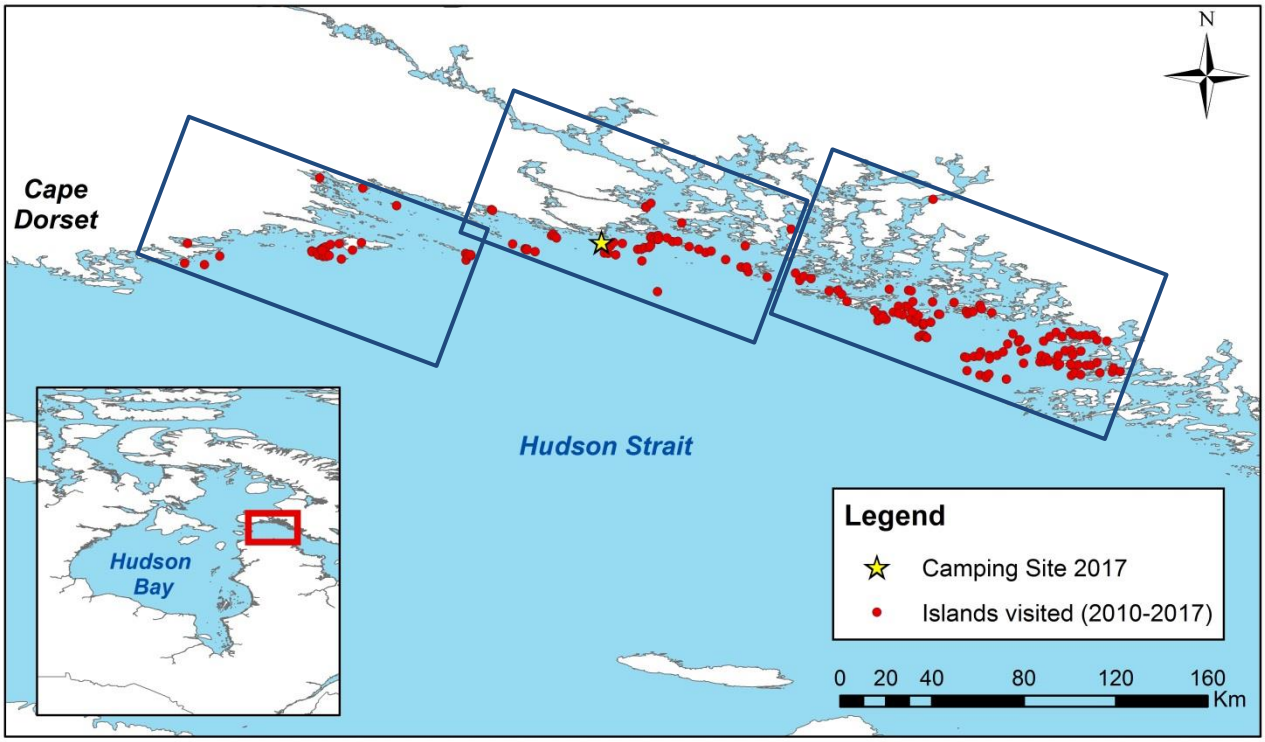
ᓱᓪᓗᐊᓗᒻᒥ ᒥᑎᕐᓂᒃ ᐊᒻᒪ ᓇᓄᕐᓂᒃ ᖃᐅᔨᓴᕐᓂᕆᔭᑦ 2017 ᐊᐅᓪᓚᐅᒪᓂᕆᓯᒪᔭᕐᒥᒃ ᐅᓂᒃᑳᓕᐊᖅ (NUN-SCI-16-02)

ᐱᓕᕆᐊᑉ ᖃᓄᐃᑦᑑᓂᖓ ᐱᔾᔪᑎᖓᓗ

ᑲᓇᑕᐅᑉ ᐅᑭᐅᖅᑕᖅᑐᖓᓂ ᑕᕆᐅᕐᔪᐊᖅ ᐊᓯᔾᔨᖅᐸᓪᓕᐊᕐᔪᐊᖅᓯᒪᓕᖅᐳᖅ ᐊᕐᕌᒍᓂ ᐊᓂᒍᖅᑐᓂ ᐊᑯᓂᐅᙱᑦᑐᒃᑯᑦ, ᐱᔾᔪᑕᐅᓗᐊᖅᓱᓂ ᑐᕙᐃᕈᑎᕚᓪᓕᖅᓯᒪᓂᕆᔭᖅ. ᐊᑕᐅᑦᓯᒃᑯᓪᓗ, ᐱᓕᕆᕝᕕᑦ ᐱᔪᒪᔭᖏᑦ ᑭᓱᓐᓂᐊᕐᓂᖅ ᐊᑐᖅᑕᐅᔪᑦᓴᒫᖑᔪᕆᔭᓐᓂᑦ ᐅᑭᐅᖅᑕᖅᑐᕐᒥ ᐊᑐᖅᑕᐅᒐᓱᐊᖅᐸᓪᓕᐊᒻᒪᑕ. ᑕᒪᒃᑯᐊ ᐊᓯᔾᔨᕐᓂᐅᔪᑦ ᐱᒋᐊᕈᑕᐅᓚᕿᓯᒪᕗᑦ ᐃᒪᕐᒨᓕᖓᔪᓂᒃ ᐸᕐᓇᐅᑎᖃᕐᓂᕐᒧᑦ ᖃᓄᐃᓕᐅᕈᓯᐅᒍᓐᓇᖅᑐᓂᒃ ᐆᒪᔪᕆᔭᑦ ᒥᐊᓂᕆᔭᐅᒍᓐᓇᖁᑦᓱᒋᑦ ᓯᓚᐅᑉ ᐊᓯᔾᔨᖅᐸᓪᓕᐊᓂᖓᓄᑦ ᐊᒻᒪ ᓱᑲᑦᑐᒥ ᐊᑐᖅᑕᐅᔪᑦᓴᒫᓂᒃ ᐱᕙᓪᓕᐊᑎᑦᓯᓂᖅ. ᐃᒪᕐᒨᓕᖓᔪᓂᒃ ᐸᕐᓇᐃᓂᐊᕐᓗᓂ ᑕᒻᒪᖅᓯᒪᒐᑎᒃ ᐅᓪᓗᒥᓕᓴᐅᓂᒃ ᑐᓴᐅᑎᑖᕆᓯᒪᔭᕐᓂᒃ ᐱᑕᖃᕆᐊᖃᖅᐳᖅ ᐊᑑᑎᖃᑦᓯᐊᖁᓪᓗᒍ. ᑭᓯᐊᓂ, ᖃᐅᔨᓴᕐᓂᑯᑦ ᑐᖅᑯᖅᑕᐅᓯᒪᔪᑦ ᐊᑐᕐᓂᐊᕐᓗᒋᑦ ᐃᓂᒋᔭᐅᕙᑦᑐᓄᑦ ᐃᒪᕐᒥᓯᐅᖅᐸᑦᑐᓄᑦ ᑲᓇᑕᐅᑉ ᐅᑭᐅᖅᑕᖅᑐᐊᑕ ᑲᓇᓐᓇᖅᐸᓯᐊᓃᑦᑐᓄᑦ ᐃᓄᐃᓴᓗᐊᕐᒪᑕ ᐊᒻᒪ ᐊᒥᓱᒻᒪᕇᑦ ᐱᑐᖃᓗᐊᓕᖅᓱᑎᒃ. ᑖᓐᓇ ᑲᔪᓯᑎᑕᐅᖏᓐᓇᖅᓯᒪᔪᖅ ᐱᓕᕆᐊᖅ ᓱᓪᓗᐊᓗᒻᒥ ᑕᒪᒃᑯᓂᖓ ᐊᒥᒐᓗᐊᖅᑐᓂᒃ ᑐᓴᐅᑎᒋᔭᐅᒍᓐᓇᖅᑐᓂᒃ ᐃᓗᓪᓕᖅᓱᐃᒍᑕᐅᒐᓱᐊᖅᐳᖅ. ᖃᐅᔨᓴᖃᑦᑕᖅᐳᒍᑦ ᓇᒦᓐᓂᖏᓐᓂᒃ ᖃᑦᓯᐅᑎᒋᓂᖏᓐᓂᓪᓗ ᑕᕆᐅᕐᒥᒃ ᐊᑐᖅᓴᖅᑐᓂᑦ ᑎᒻᒥᐊᓂᑦ ᓱᓪᓗᐊᓗᒃ-ᓴᓂᕋᔭᐅᑉ ᐃᑭᕋᓴᖓᓂᖅᐸᓯᒻᒥ ᖃᖓᑐᐃᓐᓇᖅ ᐊᕐᕌᒍᒥ, ᐊᒻᒪᓗ ᖃᐅᔨᒐᓱᐊᖅᑕᖃᕐᒥᑦᓱᑎᒃ ᓱᓇᑦ ᑎᒥᒋᔭᕐᒥᙶᖅᑐᑦ ᐊᕙᑎᒋᔭᕐᒥᙶᖅᑐᓪᓗ ᐊᑦᑐᐃᓯᒪᓂᖃᕐᒪᖔᑕ ᑕᒪᒃᑯᓄᖓ ᖃᓄᐃᓕᖓᒍᑎᒋᔭᐅᔪᓄᑦ.

ᑕᐃᒪᙵᑦ ᐱᓕᕆᕙᓪᓕᐊᓕᕆᐊᓚᐅᖅᑎᓪᓗᑕ 2010ᒥ, ᐅᒥᐊᒃᑰᖅᓱᑕ ᖃᐅᔨᓴᖅᑕᖃᖅᓯᒪᓕᖅᐳᒍᑦ 200 ᐅᖓᑖᓃᑦᑐᓂᒃ ᕿᑭᖅᑕᓂᒃ ᓱᓪᓗᐊᓘᑉ ᐅᐊᓐᓇᖓᓃᑦᑐᓂᒃ, ᐃᓚᒋᔭᐅᔪᑦᓴᒥᒃ ᐊᑯᓂᐅᔪᒃᑯᑦ ᓇᐅᑦᓯᖅᓱᖅᓯᒪᓂᕆᔭᑦᑎᓐᓂᒃ ᒥᑎᕐᓂᒃ ᐄᔅᑦ ᐸᐃᒥ ᑎᒻᒥᐊᓂᒃ ᓴᐳᒻᒥᕕᒃ. ᑕᒪᒃᑯᐊ ᕿᑭᖅᑕᑦ ᐃᓚᖏᑦ ᐊᒥᓱᐊᖅᑎᖅᓱᑎᒃ ᐅᐸᑦᑕᐅᑦᑕᕐᓯᒪᔪᑦ ᐊᓯᔾᔨᖅᐸᓪᓕᐊᓂᕆᔭᖅ ᑖᒃᑯᓇᓂ ᐊᕐᕌᒍᓂ ᑎᑎᕋᐅᓯᕆᒍᒪᑦᓱᒋᑦ.



2

2017ᒥ, ᓯᓚᑲᒻᒪᐅᖃᑦᑕᕋᓗᐊᖅᑎᓪᓗᒍ, ᐱᓕᕆᖃᑎᒌᑦᑐᖁᑎᕗᑦ ᑎᑭᐅᑎᒍᓐᓇᖅᓯᓯᒪᓚᐅᖅᐳᑦ 37ᓄᑦ ᕿᑭᖅᑕᓄᑦ ᒪᕐᕈᐃᓂᒃ ᖃᐅᔨᓴᕐᓂᖃᖅᓱᑎᒃ ᔪᓚᐃᒃ 6 – 22 ᐊᑯᓐᓂᖏᓐᓂ. ᕿᑭᖅᑕᑦ ᖃᐅᔨᓴᖅᑲᑦ ᑦᓱᐊᒃᐸᒃᒥ ᒥᑭᔫᑕᐅᑦᓱᑎᒃ ᕿᒡᒎᑦᓱᑎᓪᓗ ᐃᕙᕕᐃᑦᓯᐊᕋᑎᒃ ᑕᓯᕋᖃᕋᑎᓪᓗ. 362ᓂᒃ ᐃᕙᕕᓯᐊᓚᐅᖅᐳᑦ ᑦᓱᐊᒃᐸᒃᒥ, 1,935ᓂᓪᓕ ᐃᕙᕕᓯᐊᖅᑎᓪᓗᒋ ᕚᒃᔅ ᕿᑭᖅᑕᖏᓐᓂ. ᑕᒪᑐᒪᓂ ᐊᕐᕌᒍᒥ, ᓇᓄᖅᓯᓚᐅᙱᓚᑦ ᕿᑭᖅᑕᓂ ᖃᐅᔨᓴᕐᕕᐅᔪᓂ.

ᕿᑭᖅᑕᑦ ᖃᐅᔨᔭᕐᕕᐅᔪᑦ ᓱᓪᓗᐊᓘᑉ ᐅᐊᓐᓇᖓᓂ 2010-2017 ᐊᑯᓐᓂᖏᓐᓂ. ᓯᒃᑭᑦᑕᑯᑖᑦ ᓇᓗᓇᐃᖅᓯᓯᒪᕗᑦ ᐊᕕᑦᑐᖅᓯᒪᓂᕆᑎᑕᕐᓂᒃ, ᓴᐅᒥᒻᒥᑦ ᑕᓕᖅᐱᒻᒧᑦ: ᕚᒃᔅ ᐱᓇᓐᓇᖓᑕ ᕿᑭᖅᑕᖏᑦ, ᑦᓱᐊᒃᐸᒃ ᐊᒻᒪ ᑦᓰᒻᐳᓕᓐ.

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ᑐᙵᓂᖃᕐᓂᒃᑯᑦ ᓇᓚᐅᑦᑖᕆᓂᖅ ᑐᕙᑭᓪᓕᓂᐅᑉ ᐊᑦᑐᐃᓂᕆᔭᖓᓂᒃ ᓇᓄᐃᑦ ᑎᒻᒥᐊᓪᓗ ᐊᒥᓲᒍᓐᓃᖅᐹᓪᓕᕐᓂᐊᓄᑦ

ᐅᑭᐅᖅᑕᖅᑑᑉ ᐊᕙᑎᖓ ᐊᓯᔾᔨᖅᐸᓪᓕᐊᖏᓐᓇᖅᑎᓪᓗᒍ ᐊᐅᔭᒃᑯᑦ ᓯᑯᖃᙱᓐᓂᖅᓴᐅᕙᓕᖅᑐᒥ ᖃᐅᔨᓇᖅᓯᓯᒪᕗᖅ ᓇᓄᐃᑦ ᐊᒥᓲᓂᖅᓴᑦ ᒥᑎᕐᓂᒃ ᒪᓐᓃᔭᐃᖃᑦᑕᕐᓂᖅᓴᐅᓕᖅᑐᑦ, ᑕᐃᒪᐃᓐᓂᖓᓄ ᖃᕆᑕᐅᔭᒃᑯᑦ ᐆᑦᑑᑎᓂᒃ ᐋᖅᑭᑦᓱᐃᕙᓪᓕᐊᔪᒍᑦ ᓇᓚᐅᑦᑖᕈᑎᒋᒍᓐᓇᕋᔭᖅᑕᑎᓐᓂᒃ ᓇᓄᐃᑦ ᐊᑦᑐᐃᓯᒪᓂᖃᕐᓂᕆᔭᖏᓐᓂᒃ ᒥᑎᕐᓄᑦ ᖃᖓᙳᖅᓯᒪᓕᕐᓗᒍ. ᑐᕙᐃᖅᓴᕋᐃᓐᓂᖅᓴᐅᓂᕆᖃᑦᑕᖅᑕᖅ ᓇᓄᕐᓄᑦ ᓄᓈᖅᓴᕋᐃᓐᓂᖅᓴᐅᒍᑎᒋᔭᐅᓕᕐᒪᑦ ᒥᑏᑦ ᓱᓕ ᐃᕙᑎᓪᓗᒋᑦ ᑕᐃᒪᓐᓂᖓᓄᓪᓗ ᒪᓐᓃᔭᐃᓂᖅᓴᐅᖃᑦᑕᓕᖅᐳᑦ. ᐊᒻᒪᒃᑲᓐᓂᖅ, ᖃᐅᔨᒪᓇᖅᑐᖅ ᓇᓄᐃᑦ ᑎᒥᒥᒍᑦ ᐊᑦᓱᕈᕐᓂᖅᓴᐅᓕᖅᐳᑦ ᑐᕙᐃᖅᓴᕋᐃᖃᑦᑕᕐᓂᕐᒧᑦ ᓂᕿᒌᓐᓇᖃᑦᑕᖅᑕᒥᓂᒃ ᓇᑦᓯᕐᓂᒃ ᐱᕙᙱᓐᓂᖅᓴᐅᓕᕋᒥᒃ.

ᑕᐃᒪᙵᓂᑦ 2015-2017, ᐱᓕᕆᐊᖃᖃᑎᒋᑦᑐᖁᑎᕗᑦ 95ᓂᒃ ᕿᑭᖅᑕᓂᒃ ᐅᐸᑦᓯᓯᒪᓕᖅᐳᑦ ᓱᓪᓗᐊᓗᒻᒥ ᐊᒻᒪ ᑎᑎᕋᐅᓯᖃᖅᐸᓪᓕᐊᓪᓗᑎᒃ ᖃᑦᓯᐅᓂᖏᑦ ᐃᕙᕖᑦ ᐊᑐᖅᑕᐅᔪᑦ ᒪᓐᓃᔭᖅᑕᐅᓂᑰᔪᓪᓗ ᓇᓄᖅᑕᖃᓕᓂᐅᓂᖓᓂᓪᓗ. ᑕᒪᒃᑯᐊ ᑎᑎᕋᖅᑕᐅᓂᑯᐃᑦ ᑐᖅᑯᖅᓯᒪᔪᑦ ᐊᑐᖅᓱᒋᑦ ᐆᒃᑐᕋᕈᓐᓇᖅᓯᓕᓚᐅᖅᐳᒍᑦ ᓯᕗᓂᕐᒥ ᖃᓄᐃᑦᑑᒐᔭᕆᐊᖓᓂᒃ ᓇᓄᐃᑦ ᒪᓐᓂᑦᑑᒪᒐᔭᖅᐸᑕ ᑕᒪᑐᒪᓗ ᐊᑦᑐᐃᓯᒪᒐᔭᕐᓂᕆᔭᖓ ᒥᑏᑦ ᐃᕐᓂᐅᖅᐸᓐᓂᕆᒐᔭᖅᑕᖏᓐᓄᑦ. ᐆᑦᑑᑎᓕᐊᕆᓯᒪᔭᑦᑎᒍᑦ ᐃᒪᐃᒍᒥᓇᖅᐳᖅ, ᓇᓄᐃᑦ ᑎᒥᖏᑦ ᐱᐅᒍᓐᓃᖅᐹᓪᓕᖅᓯᒪᒐᔭᖅᑐᑦ ᑐᕙᖃᙱᑦᑐᓕᕋᐃᑉᐸᑦ, ᒪᓐᓂᑑᒪᓂᖅᓴᐅᓕᕋᓗᐊᕈᑎᒃr. ᐃᒫᒃ ᑐᑭᖃᖅᐳᖅ, ᒪᓐᓂᓐᓂᑦ ᐆᒪᑦᑎᐊᕈᓐᓇᕐᓂᖅᑖᕆᔭᐅᕙᑦᑐᖅ ᓇᓪᓕᖅᑑᑎᓯᒪᙱᓚᖅ ᓂᕿᒌᓐᓇᖅᐸᑦᑕᖏᓐᓄᑦ (ᓇᑦᓯᕐᓄᑦ).

ᐊᒻᒪᒃᑲᓐᓂᖅ ᐆᑦᑑᑎᒋᔭᕗᑦ ᓇᓚᐅᑦᑖᑎᑦᓯᒋᕗᑦ ᒥᑏᑦ ᐃᕙᕕᖏᑦ ᒪᓐᓃᔭᖅᑕᐅᖃᑦᑕᖅᑐᑦ ᓇᓄᕐᓄᑦ ᐊᒥᓲᒍᓐᓃᖅᐹᓪᓕᕐᓂᐅᓴᔪᑦ ᐅᖓᓯᒌᓕᖅᐹᓪᓕᕐᓗᑎᓪᓗ, ᑕᒪᓐᓇᓗ ᐊᑦᑐᐃᓯᒪᕕᐅᑎᒐᔭᖅᑐᖅ ᐃᓄᓐᓄᑦ ᒪᓐᓂᑦᑕᕆᐊᓲᓄᑦ ᖁᓂᒍᖅᑕᓲᓄᓪᓗ. ᖃᐅᔨᓴᕋᓱᐊᖏᓐᓇᖅᑐᒍᑦ ᖃᓄᖅ ᓇᓄᐃᑦ ᐊᑦᑐᐃᓯᒪᓂᖃᕐᓂᐊᕐᒪᖔᑕ ᒥᑎᕐᓄᑦ ᑐᕙᑭᓪᓕᕙᓪᓕᐊᖏᓐᓇᖅᑎᓪᓗᒍ ᐊᒻᒪ ᖃᓄᖅ ᑕᒪᓐᓇ ᐊᑦᑐᐃᓯᒪᒪᒐᔭᕐᒪᖔᑦ ᐃᓄᓐᓄ ᐊᑐᖅᓯᕙᑦᑐᓄᑦ ᒥᑎᕐᓂᒃ.

4

ᖃᐅᔨᔭᖃᕐᓂᖅ ᓯᕗᓂᖓᓂ ᒥᑏᑦ ᕿᑭᖅᑕᓂ ᐃᕙᕙᒍᓯᕆᓯᒪᔭᖏᓐᓂᒃ ᑕᓰᑦ ᐃᖅᑲᖓᑕ ᓄᓇᖓᓂᒃ ᖃᐅᔨᓴᕐᓂᒃᑯᑦ

ᕿᑭᖅᑕᑦ ᑕᓯᕋᖃᖅᑐᑦ ᐃᕙᕕᒃᑯᒥᒋᔭᐅᕗᑦ ᒥᑎᕐᓄᑦ ᑐᑭᖅᓰᓕᕋᐃᒐᒥᒃ ᐃᒥᖃᑦᑕᕆᐊᖃᓲᖑᒐᒥᒃ ᑕᓯᕐᓂᑦ. ᑕᐃᒫᑦᓴᐃᓐᓇᖅ ᑕᓯᕋᐃᑦ ᐊᑐᖅᑕᐅᒍᓐᓇᖅᐳᑦ ᖃᖓᙳᖅᓯᒪᓕᖅᓱᒍ ᕿᑭᖅᑕᐅᑉ ᖃᓄᐃᑦᑑᕙᒍᓯᕆᓯᒪᔭᖓᓂᒃ ᖃᐅᔨᒍᑕᐅᒍᓐᓇᕐᒪᑕ. 9ᓂ ᕿᑭᖅᑕᓂ ᐃᕙᕕᐅᓲᖑᔪᓂ ᓱᓪᓗᐊᓗᒻᒥ, ᐃᖅᑲᖓᓃᑦᑐᒥᒃ ᐃᔾᔪᕐᒥᒃ ᑲᑎᖅᓱᖅᑕᐅᔪᖃᓚᐅᖅᐳᖅ ᑐᑭᓯᑦᓯᐊᒋᐊᕈᑎᒋᓂᐊᕋᑦᑎᒍᑦ ᐃᕙᔭᖅᑐᖅᐸᑦᑐᑦ ᐊᒥᓲᑎᒋᓂᕆᔭᖏᑦ ᖃᓄᐃᖅ ᐊᓯᔾᔨᖃᑦᑕᕐᓂᑰᓯᒪᒻᒪᖔᑦ. ᔅᑕᕈᑦ ᐊᒻᒪ ᔅᑕᓄᑦ, ᐱᑕᖃᐃᓐᓇᓲᑦ ᑭᓱᑐᐃᓐᓇᐃᑦ ᐆᒪᔪᑦ ᐊᓇᖏᓐᓂ ᐃᓚᖏᓐᓂ ᐱᑕᖃᕐᓂᖅᓴᐅᑦᑕᖅᓱᑎᒃ ᐃᓚᖏᓐᓂᓗ ᐱᑕᖃᙱᓐᓂᖅᓴᐅᑦᑕᖅᓱᑎᒃ ᐊᑐᖅᑕᐅᓚᐅᖅᐳᑦ ᖃᐅᔨᒋᐊᕈᑎᒋᔭᐅᑦᓱᑎᒃ ᖃᖓᙳᖅᓱᒍ ᖃᓄᑎᒋ ᒥᑎᕐᓄᖅ ᐊᓇᖅᑕᐅᓂᑯᑕᖃᖅᑎᒋᒻᒪᖔᖅ. ᐱᑕᖃᖅᑎᒋᓂᕆᔭᖓ ᐱᕈᖅᑐᕕᕐᓂᑦ ᔅᑖᓅᓪ ᐊᓇᕕᓂᕐᓂᓪᓗ ᑯᓚᔅᑐᓘᓪ (ᐱᑕᖃᖃᑦᑕᖅᑐᖅ ᒥᑎᕐᓂᒃ ᐊᓇᖃᑦᑕᕐᕕᐅᕐᔪᐊᕐᓂᑰᒐᐃᒐᒥ), ᑕᐃᔭᐅᑦᑕᖅᑐᖅ “ᐃᒪᕐᒥᐅᑦᑕᑦ ᑎᒻᒥᐊᑦ ᐱᑕᖃᖅᑎᒋᓂᕆᑎᑕᖓ”, ᖃᐅᔨᒪᒍᑕᐅᑦᑕᖅᓱᓂᓗ, ᑲᑎᖅᓱᖅᓯᒪᓪᓗᒋᑦ ᐃᒻᒥᒃᑰᖅᑎᓯᒪᓪᓗᒋᓪᓗ ᐊᒥᓲᓂᕆᔭᖏᑕ ᐊᓯᔾᔨᖅᐸᓪᓕᐊᓂᖓ ᖃᐅᔨᔭᐅᓪᓗᓂ ᐊᓇᖏᓐᓂᙶᖅᓯᒪᓪᓗᑎᒃ ᑕᓯᕋᕐᓂ.

ᑕᒪᐃᓐᓂ ᖃᐅᔨᓴᕐᓂᕆᔭᑦᑎᓂᕐ ᕿᑭᖅᑕᓂ ᓱᓪᓗᐊᓗᒻᒥ, ᑕᒪᒃᑭᒃ ᐊᐃᓱᑑᑉ ᐊᒻᒪᓗ ᔅᑐᕈᑦ ᑕᐃᒪᐃᓐᓂᕋᐃᔪᐃᓐᓇᐅᑦᓱᑎᒃ ᖃᑦᓰᓐᓇᕈᖅᐹᓪᓕᖅᓯᒪᓕᕆᐊᖏᑦ ᖃᖓᙳᖅᓯᒪᓕᖅᑎᓪᓗᒍ, ᐱᓗᐊᖅᑐᒥ ᐊᑉᐸᑳᓪᓚᑦᓯᒪᑦᓱᑎᒃ 1900 ᕿᑎᒐᓚᖏᓐᓂᑦ (ᐊᑖᓂ ᑕᑯᑦᓴᐅᑎᓯᒪᕗᖅ). 60% ᐊᒻᒪ 90%−ᒐᓚᐃᑦ ᒥᑏᑦ ᐃᕙᓲᑦ ᓱᓪᓗᐊᓗᒻᒥᒐᓚᒃ ᐅᑮᔭᖅᑐᖅᐸᒻᒪ ᐊᑯᑭᑦᑐᑦ ᓄᓈᓐᓄᑦ ᖃᐅᔨᒋᐊᕋᓱᒍᑎᒋᓕᓚᐅᖅᑕᕗᑦ ᑕᐅᕙᓂ ᐊᓯᔾᔨᖅᓯᒪᓂᖅᓯᐅᓕᓚᐅᕋᑦᑕ

ᐊᒥᓲᒍᓐᓃᖅᐸᓪᓕᕈᑎᒋᔭᐅᑐᐃᓐᓇᕆᐊᓕᒻᒥᒃ. ᖃᓄᐃᓕᐅᖅᑕᐅᓂᕆᕙᒍᓯᒃᑯᑦ, ᐃᒪᐃᑐᐃᓐᓇᕆᐊᓕᒃ ᐊᑯᑭᑦᑐᒥᐅᑦ ᖃᓂᒋᔭᖃᕐᓂᖅᓴᐅᑐᐃᓐᓇᕆᐊᖃᕐᒪᑕ ᒥᑏᑦ ᐃᕙᕕᒋᕙᑦᑕᖏᓐᓄᑦ, ᐊᑐᖅᓯᓂᖅᓴᐅᕙᑦᓱᑎᒃ ᒥᑎᕐᓂᒃ ᕿᑭᖅᑕᖁᑎᒥᓐᓃᑦᑐᓂᒃ (ᓲᕐᓗ., ᖁᓂᖑᖅ, ᒪᓐᓃᑦ, ᓂᕿᐊ ᐊᒻᒪ ᐊᒥᖏᑦ). ᖃᖓᙳᖅᑎᓪᓗᒍ ᒥᑏᑦ ᐃᕐᓂᐅᖅᐸᑦᑐᑦ ᐊᒥᓲᒍᓐᓃᖅᐸᓪᓕᐊᒻᒪᑕ, ᐊᑯᑭᑦᑐᒥᐅᑦ ᐅᑮᔭᖅᑐᖅᐸᑦᑐᓂᒃ ᐊᑐᖅᓯᓂᖅᓴᐅᓕᕐᓂᖅᐳᑦ. ᑕᐃᑦᓱᒪᓂᑦᓴᐃᓐᓇᖅ ᖁᑭᐅᑎᖃᐅᕐᓂᖅᓴᐅᓕᖅᓱᑎᒃ ᑎᒻᒥᐊᕐᓂᐅᑎᖃᐅᕐᓂᖅᓴᐅᓕᖅᓱᑎᓪᓗ, ᐊᐅᓚᐅᑎᓕᓐᓂᓪᓗ ᐅᒥᐊᖃᓕᕐᒥᑦᓱᑎᒃ, ᑕᐃᒪᐃᓂᖓᓄᑦ ᐅᖓᓯᓐᓂᖅᓴᒦᑦᑑᒐᓗᐊᓂᒃ ᒥᑎᕐᓂᒃ ᐱᔭᕆᔭᖃᕈᓐᓇᕐᓂᖅᓴᐅᓕᖅᓱᑎᒃ.

Year

1750 1800 1850 1900 1950 2000

ᑎᒻᒥᐊᑦ ᔅᑐᕈᖃᖅᑐᑦ ᖃᑦᓯᐅᓂᖏᑦ

0.10

0.15

0.20

0.25

0.30

0.35

0.40

0.45

0.50

ᓇᐃᑐᔨᓐ ᐊᐃᓱᑑᑉ (‰)

11

12

13

14

15

16

ᐊᕐᕌᒎᑕᒫᑦ ᖁᑭᐅᑏᑦ

ᑕᐅᖅᓰᖃᑎᒌᒍᑕᐅᕙᑦᑐᑦ
/ᓂᐅᕕᖅᑕᐅᕙᑦᑐᑦ

ᑲᓛᖦᖡᑦ ᓄᓈᓐᓂ

0

500

1000

1500

2000

2500

3000 ᕿᑭᖅᑕᖅ A044

ᖃᖓᓂᑕᐅᓂᖅᐹᖅ

ᓄᑖᖑᓂᖅᐹᖅ

ᐊᕕᑦᑐᐃᓂᖅ

ᓄᐊᑦᓯᓂᖅ

ᓴᐅᒥᐊᓂ: ᒥᑎᕐᓄᑦ ᐃᕙᕕᐅᕙᑦᑐᑦ ᖃᓂᒋᔮᓂᑦ ᑕᓯᕋᐃᑦ ᐃᖅᑲᖓᓂᙶᖅᑐᑦ ᐊᒡᒍᖅᑕᐅᓪᓗᑎᒃ ᖃᓄᐃᑦᑑᓂᕆᔭᖏᓐᓄᑦ ᖃᖓᐅᑎᓪᓗᒍ. ᑕᓕᖅᐱᐊᓂ: ᒪᕐᕉᒃ ᐊᔾᔨᒌᙱᑦᑑᒃ ᖃᐅᔨᒪᓐᓇᐅᑏᒃ ᒥᑎᕐᓂᒃ ᐱᑕᖃᕐᓂᖓᓂᒃ ᐊᕐᕌᒍᑦ ᑕᖅᓴᓪᓛᖑᑎᓯᒪᓪᓗᑎᒃ ᓇᓗᓇᐃᖅᓯᒪᓪᓗᑎᒃ ᕿᑭᖅᑕᑦ ᐃᓚᖓᓐᓂ
ᑕᒪᓐᓇᓕ ᐃᓱᖅᑕᖅ ᓇᓗᓇᐃᖅᓯᓯᒪᔪᑦ ᓂᐅᕐᕈᑕᐅᕙᓐᓂᕆᔭᑦ ᑕᐅᖅᓰᔾᔪᑕᐅᕙᓐᓂᕆᔭᑦ ᖁᑭᐅᑎᓂᒃ ᑎᒻᒥᐊᕐᓂᐅᑎᓂᓪᓗ ᑲᓛᖦᖠᑦ ᓄᓈᓐᓂ (ᐊᑯᑭᑦᑐᓂ) 1850ᒥᑦ 1955ᒧᑦ

5

ᐊᔾᔨᒌᙱᓐᓂᖏᑦ ᐱᑕᖃᖅᑎᒋᓂᕆᓯᒪᔭᖅ ᐃᔾᔪᕐᒥ ᒪᓂᕐᒥᓗ ᐆᑦᑐᕋᒐᑦᓴᒧᑦ ᐱᔭᐅᓯᒪᔪᓂᑦ ᐃᓗᐃᓕᕐᒥᑦ, ᕿᑭᖅᑕᓂᑦ ᐃᕙᕕᐅᕙᙱᑦᑐᓂᑦ ᐃᕙᕕᐅᓗᐊᖅᐸᙱᑦᑐᓂᓘᓐᓃᑦ ᐊᒻᒪ ᕿᑭᖅᑕᓂᑦ ᐊᒥᓱᓄᑦ ᒥᑎᕐᓄᑦ ᐃᕙᕕᐅᓲᖑᔪᓄᑦ. ᑕᐃᒃᑯᐊ ᕿᑭᖅᑕᐃᑦ ᐊᒥᓱᓄᑦ ᐃᕙᕕᐅᓲᑦ ᐊᖏᓂᖅᓴᒥᒃ ᓇᐃᑐᕈᔭᓐᖃᖅᐳᑦ (ᐱᕈᖅᑐᓄᑦ ᐱᕈᑦᓯᐊᕈᑎ) ᐃᓗᐃᓕᕐᒥᐅᖓᓂᑦ.

ᒥᑏᑦ `ᐆᒪᔫᖃᑎᒌᓄᑦ ᓇᔪᒐᖃᕐᕕᖏᓐᓂᒃ ᓴᓇᔩᑦ’

ᓇᓄᐃᑦ ᒪᓐᓂᑦᑑᒪᕙᓐᓂᕆᔭᖓ ᐱᒋᐊᓪᓚᓐᓂᐊᖅᑐᕆᔭᐅᕗᑦ, ᒥᑏᑦ ᑲᑎᙵᐅᕐᓗᑎᒃ ᐊᒥᓲᓗᑎᒃ ᐃᕙᕙᒍᓐᓃᑐᐃᓐᓇᕆᐊᓖᑦ. ᒥᑏᑦ ᓂᕿᖃᖅᐳᑦ ᑕᕆᐅᕐᒥᐅᑦᑕᓂᒃ ᓴᐅᓂᖃᙱᑦᑐᓂᒃ ᑭᓯᐊᓂ ᐃᕙᓲᑦ ᓄᓇᒥ ᕿᑭᖅᑕᓂ ᓄᓇᒧᑦ ᖃᓂᓗᐊᙱᑦᑐᓂ. ᓅᑎᕆᒍᓐᓇᖅᐳᑦ ᑕᕆᐅᕐᒥᙶᖅᑐᓂᒃ ᐱᕈᑦᓯᐊᖅᐹᓪᓕᕈᑎᓂᒃ ᓂᕿᒋᔭᒥᓐᓂᑦ ᓄᓇᒧᐊᕈᔾᔨᓪᓗᑎᒃ ᐃᕙᕕᒋᔭᕐᒥᓐᓄᑦ. ᐱᕈᑦᓯᐊᖅᐹᓪᓕᕈᑎᑦ ᐃᓚᖃᑐᐃᓐᓇᕆᐊᖃᖅᐳᑦ ᒪᑯᓂᖓ ᑎᒥᒥᓂᑦ ᐊᓂᐊᕆᓂᒃᑯᑦ (ᐃᓛᒃ. ᐊᓇᒃᑯᑦ), ᑎᒥᕕᓂᖅᑎᒍᑦ, ᓱᓗ/ᖁᓂᒍᕐᒥᑦᑎᒍᑦ, ᐊᒻᒪ ᒪᓐᓃᑦ ᖄᕕᓂᖏᑦᑎᒍᑦ. ᐅᑭᐅᖅᑕᖅᑑᑉ ᓄᓇᖓ ᐱᕈᑦᓯᐊᖅᐹᓪᓕᕈᑎᖃᓗᐊᖅᐸᙱᒻᒪᑦ, ᐃᒪᐃᒍᒥᓇᕐᓂᖃᕐᔪᐊᖅᐳᖅ ᐱᕈᑦᓯᐊᖅᐹᓪᓕᑖᖅᑎᑦᓯᓂᕆᔭᖅ ᒥᑎᕐᓂᑦ
ᖃᖓᙳᕐᔪᐊᕐᓗᒍ ᐊᑦᑐᐃᓯᒪᒐᔭᕆᐊᖓᓂᒃ.

ᕿᑭᖅᑕᐃᑦ ᒥᑎᕐᓄᑦ ᐅᐸᑦᑕᐅᕙᑦᑐᑦ ᐃᑲᔪᖅᑕᐅᑐᐃᓐᕆᐊᖃᖅᑐᒥᓃᑦ ᑖᒃᑯᓇᙵᑦ ᓂᕆᑕᐅᕙᑦᑐᓂᑦ, ᐱᕈᖅᑐᖃᕐᓂᖅᓴᐅᓕᖅᓱᓂ ᐱᕈᑦᓯᐊᒐᓚᓐᓂᒃ. ᑕᐃᒫᖑᓕᖅᑎᓪᓗᒍ, ᑕᒪᓐᓇ ᐱᑕᖃᓕᖅᑎᑦᓯᒍᓐᓇᖅᑐᖅ ᐃᔾᔪᒥᒃ ᓄᓇᐃᓐᓇᕐᒥᒃ ᒥᑏᑦ ᐃᓂᒋᓚᐅᖅᑕᖏᓐᓂ, ᓴᖅᑭᔮᖅᑎᑦᓯᓪᓗᓂ ᐃᕙᕝᕕᑦᓯᐊᕙᐅᓚᐅᕐᓂᖓᓂᒃ ᑎᒻᒥᐊᓄᑦ, ᐊᒻᒪᓗ ᐃᑲᔫᑎᓂᓪᓗ ᕿᒪᑦᑕᖏᓐᓂᒃ ᐱᕈᕈᑕᐅᒍᓐᓇᖅᑐᓂᒃ ᐱᓯᒪᐃᓐᓇᕐᓂᕐᒥᒃ. ᐊᑯᓂᐅᔪᒥ, ᑕᒪᓐᓇ ᑕᐃᒪᐃᓕᐅᖃᑦᑕᕐᓂᖅ ᐱᑕᖃᓕᖅᑎᑦᓯᑐᐃᓐᓇᕆᐊᖃᖅᑐᒥᓂᖅ ᐊᔾᔨᒌᙱᑦᑑᑎᓂᒃ ᐆᒪᔪᖅᑕᖃᕐᓂᖓᓂᒃ ᑕᑯᖃᑦᑕᖅᑕᑦᑎᓐᓂᒃ ᕿᑭᖅᑕᓂ ᒥᑎᕐᓄᑦ ᐅᐸᑦᑕᐅᕙᑦᑐᓄᑦ ᐅᓪᓗᒥ, ᑕᐃᒪᐃᓕᖓᓂᖓᓗ ᓇᓄᕐᓄᑦ ᐊᑲᐅᙱᓕᐅᕈᑕᐅᓯᒪᔪᖅ.

ᑕᒪᒃᑯᐊ ᖃᐅᔨᒐᓱᐊᖅᓱᑎᒍᑦ ᑐᖅᑯᖅᑕᐅᓯᒪᓂᐊᖅᑐᓂᒃ ᑲᑎᖅᓱᐃᓚᐅᖅᐳᒍ, ᓄᓇᙳᐊᓅᑎᕆᓪᓗᑕ ᐃᓂᒋᔭᐅᓲᑦ ᖃᓄᐃᑦᑑᓂᖏᓐᓂᒃ ᕿᑭᖅᑕᓂᑦ ᓱᓪᓗᐊᓗᒃᐸᓯᒻᒦᑦᑐᓂᑦ. ᓄᐊᑎᕆᓚᐅᖅᐳᒍᑦ ᐱᕈᖅᑐᓂᒃ, ᐃᔾᔪᕐᓂ, ᑕᓯᕋᕐᓂ ᖁᐱᕐᕈᐊᕐᔪᓐᓂᒃ ᐊᒻᒪ ᒥᑏᑦ ᐊᓇᖏᓐᓂᒃ ᓱᕐᕌᙱᑦᑐᓂᒃ ᐃᓚᐅᖅᑑᑎᓯᐅᕐᕕᒋᓪᓗᒋᑦ ᐊᒻᒪ ᖃᐅᔨᓴᖅᓱᒋᑦ ᐱᕈᑦᓯᐊᕈᑎᕚᓪᓕᐅᔪᑦ.

ᖃᐅᔨᔭᑦᑎᒍᑦ ᖃᐅᔨᒪᓇᖅᓯᑎᓯᒪᕗᖅ ᕿᑭᖅᑕᑦ ᐊᒥᓲᓂᖅᓴᓂᒃ ᒥᑎᕐᓄᑦ ᐃᕙᕕᐅᓲᑦ ᐃᔾᔪᖓ ᐱᕈᖅᑐᓄᑦ ᐱᕈᑦᓯᐊᕈᑎᖃᕐᓂᖅᓴᐅᕗᑦ ᐊᓯᖔᖏᓐᓂᑦ ᕿᑭᖅᑕᓂᑦ ᐊᒥᓲᙱᓐᓂᖅᓴᓄᑦ ᒥᑎᕐᓄᑦ ᐃᕙᕕᐅᕙᑦᑐᓄᑦ. ᐊᒻᒪᓗ ᑕᒪᒃᑯᐊ ᐱᕈᑦᓯᐊᕈᑕᐅᓲᑦ ᐊᔾᔨᒋᔭᐅᙱᓚᑦ ᖃᓂᒋᔭᖓᓃᑦᑐᒧᑦ ᐃᓗᐃᓕᐅᑉ ᓯᔾᔭᖅᐸᓯᐊᓃᑦᑐᒧᑦ ᖃᐅᔨᒪᓇᕈᑎᒋᔭᐅᓕᖅᓱᓂ ᐊᓯᖔᖓᓂᑦ ᐱᕈᑦᓯᐊᕈᑎᑖᖅᐸᑦᑑᓂᖓᓂᒃ (ᐃᓛᒃ. ᒥᑏᑦ).

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ᖃᓂᒻᒪᐅᓯᕐᒥᒃ ᓇᐅᑦᓯᖅᓱᐊᖃᕐᓂᖅ

ᑕᐃᒪᙵᓂᑦ 2012ᒥ, ᓯᔾᔭᖅᐸᓯᒻᒥᐅᑕᐃᑦ ᒥᑏᑦ ᓄᓇᕗᒻᒥ ᓄᓇᕕᒻᒥᓗ ᓇᐅᑦᓯᖅᑐᐊᖑᐃᓐᓇᖅᐳᑦ ᖃᓂᒻᒪᐅᓯᖃᓕᙱᒃᑲᓗᐊᕆᐊᑦᓴᖏᓐᓂᒃ ᓄᕙᓐᓂᐊᓘᔮᖅᑐᒥᒃ ᑎᒻᒥᐊᑦ ᐋᓐᓂᐊᖏᓐᓂ. ᐅᓪᓗᒥᒧᑦ, ᓄᕙᓐᓂᐊᓘᔮᖅᑐᖅ ᖃᐅᔨᔭᐅᓯᒪᕗᑦ ᓄᓇᓕᓐᓄᑦ ᖃᓂᑦᑐᒧᑦ ᓄᓇᕕᒻᒥ (ᐊᐅᐸᓗᒃ ᐊᒻᒪ ᐃᓄᒃᔪᐊᖅ), ᐊᒻᒪᑦᑕᐅᖅ ᐄᔅᑦ ᐸᐃᒥ, ᓴᓪᓕᐅᑉ ᕿᑭᖅᑕᖓᓂ. ᖃᐅᔨᓇᖅᓯᒪᙱᓚᑦ ᓄᕙᓐᓂᐊᓘᔮᖅᑐᖅᑕᖃᕐᓂᖓᓂᒃ ᑭᙵᐃᑦ ᖃᓂᒋᔮᓂ, ᑭᓯᐊᓂ ᓇᐅᑦᓯᖅᓱᐊᕆᔭᐅᖏᓐᓇᖅᐳᑦ ᕿᑭᖅᑕᐃᑦ ᖃᓂᒻᒪᐅᓯᖅ ᓄᐃᒐᔭᖅᐸᑦ ᖃᐅᔨᔭᐅᑦᓴᐅᑎᒋᒍᓐᓇᕐᓂᐊᕐᒪᑦ.

ᑐᓴᕐᕕᒋᒃᑲᓐᓂᕋᓱᐊᕐᓗᒍ ᐅᓂᒃᑲᐅᑎᒐᓱᐊᕐᓗᒍᓘᓐᓃᑦ ᓄᕙᓐᓂᐊᓘᔮᖅᑐᖅᑕᖃᖅᓱᕆᓂᕐᒥᒃ ᒥᑎᕐᓄᑦ ᓇᔪᖅᑕᐅᔪᓄᑦ ᐅᖃᐅᑎᓗᒍ ᑳᑐᓂᒻ ᓲᔅ (ᐊᕙᑎᓕᕆᔨᒃᑯᑦ ᐊᒻᒪᓗ ᓯᓚᐅᑉ ᐊᓯᔾᔨᖅᐸᓪᓕᐊᓂᖓ ᑲᓇᑕᒥ, Catherine.Soos@Canada.ca) ᐅᕝᕙᓘᓐᓃᑦ ᑲᓇᑕᒥ ᐆᒪᔪᑦ ᐋᓐᓂᐊᖃᕐᓇᙱᑦᑐᓕᕆᓂᕐᒧᑦ ᑲᑐᔾᔨᕕᒃ (1-800-567-2033).

ᓯᕗᓂᕐᒧᑦ ᐸᕐᓇᐅᑎᑦ
• ᕿᒥᕐᕈᓯᓂᖅ ᐊᖏᑎᒋᓂᖅᓯᐅᕐᓂᕐᓗ ᐊᑦᑐᐃᓯᒪᓂᖃᕐᓂᕆᔭᖓᓂᒃ ᓇᓄᕐᓄᑦ ᐱᔭᐅᒐᓱᐊᖃᑦᑕᕐᓂᒃᑯᑦ ᒥᑏᑦ ᖃᑦᓯᐅᓂᖏᓐᓂᒃ ᐃᕙᕝᕕᖏᑕᓗ ᐱᑐᖃᐅᑎᒋᓂᖓᓂᒃ ᐊᒻᒪ ᓇᔪᖅᑕᖃᐃᓐᓇᕐᓂᕆᔭᖏᓐᓄᑦ.
• ᓇᓗᓇᐃᖅᑎᕆᓂᖅ ᓇᒥᓪᓚᕆᒃ ᓱᓪᓗᐊᓗᒻᒥ ᒥᑏᑦ ᐊᒥᓲᒍᓐᓃᕐᓂᖅᓴᐅᑐᐃᓐᓇᕆᐊᖃᕐᒪᖔᑕ ᐊᒻᒪ ᓇᒥᓪᓚᕆᒃ
ᐊᒥᓱᕈᕐᓂᖅᓴᐅᑐᐃᓐᓇᕆᐊᖃᕐᒪᖔᑕ.
• ᐃᓱᒪᑖᕈᑎᖃᕐᓂᖅ ᖃᓄᖅ ᓇᓄᕐᓄᑦ, ᑎᕆᒐᓐᓂᐊᓄᑦ, ᓇᐅᔭᓄᑦ ᐊᒻᒪ ᐃᓄᓐᓄᑦ ᐱᔭᐅᒐᓱᐊᖅᐸᓐᓂᕆᔭᖏᑦ
ᐊᑦᑐᐃᓯᒪᓂᖃᕐᓂᐊᕐᒪᖔᑦ ᒥᑏᑦ ᖃᑎᓯᐅᓂᖏᓐᓄᑦ.
• ᕿᒥᕐᕈᔭᖃᕐᓂᖅ ᖃᓄᖅ ᒥᑏᑦ ᐊᒻᒪ ᑎᒻᒥᐊᑦ ᐊᓯᖏᑦ ᑖᑦᓱᒥᖓᑦᓴᐃᓐᓇᖅ ᕿᑭᖅᑕᒥᒃ ᓇᔪᕐᕕᖃᑦᓯᐊᖅᑑᓲᖑᒻᒪᖔᑕ (ᓲᕐᓗ. ᖁᐸᓄᐊᑦ ᐊᒪᐅᓖᒐᐃᑦ, ᖃᖅᓴᐅᑦ).
• ᒥᐊᓂᕆᔭᖃᐃᓐᓇᕐᓂᖅ ᑎᒻᒥᐊᑦ ᖃᓂᒻᒪᐅᓯᕆᕙᑦᑕᖓᓂᒃ ᑎᒻᒥᐊᓂ ᒥᒃ ᐊᓯᖏᓐᓂᓪᓗ ᐋᓐᓂᐊᕆᔭᐅᕙᑦᑐᓂᒃ
ᑎᒻᒥᐊᓄᑦ.
• ᓄᓇᓕᒻᒥᐅᓄᑦ ᐱᓴᑦᓴᑖᖅᑐᖅᑎᑦᑎᕙᓪᓕᐊᖏᓐᓇᕐᓂᖅ ᓇᐅᑦᓯᖅᓱᐊᖃᕐᓂᕐᒥᒃ ᒥᑎᕐᓂᒃ.

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ᖃᐅᔨᓴᕐᓂᕐᒧᑦ ᐱᓕᕆᖃᑎᒌᑦ ᑮᓇᐅᔭᑎᒍᓪᓗ ᐃᑲᔪᖅᓱᐃᓂᖅ

ᐅᑭᐅᖅᑕᖅᑐᕐᒥ ᖃᐅᔨᓴᕐᓂᖅ ᐊᑐᖅᑎᒐᓱᐊᖅᓱᒍ ᐱᔭᕆᑐᕗᖅ ᐱᓕᕐᔪᐊᕐᓇᕕᐅᑎᑦᓱᓂᓗ, ᑲᔪᖏᑦᓯᐊᖅᑐᓂᒃ ᓴᐱᓕᖅᑕᙱᑦᑐᓂᒃ ᐃᖅᑲᓇᐃᔭᖃᑎᒌᒍᑕᐅᒋᐊᖃᖅᓱᓂ. ᖁᔭᒋᓯᒪᕐᔪᐊᖅᐸᕗᑦ ᖃᐅᔨᑎᑕᐅᖃᑦᑕᓚᐅᕐᓂᕐᑎᓐᓄᑦ ᐃᑲᔪᖅᑕᐅᑦᓯᐊᓚᐅᕐᓂᑦᑎᓐᓄᓪᓗ ᐅᑯᓄᖓ, ᓅᒪ ᐅᑦᑐᕿ, ᓵᓗᒨᓂ ᐊᓐᓂᕐᒥᐅᖅ, ᖁᕕᐊᓇᖅᑐᑦ ᐅᑦᑐᕿ, ᐊᒻᒪ ᑲᐃᕆᓕ ᕿᐊᑦᓱᒃ. ᖁᔭᒋᓯᒪᒻᒥᔭᕗᑦ ᐃᑲᔪᐃᖏᓐᓇᕐᓂᕆᓚᐅᖅᑕᖓᓄᑦ ᐋᓂ ᓱᕕᖓ ᐊᒻᒪ ᐊᐃᕕᖅ ᐊᖑᓇᓱᒃᑐᓕᕆᔨᒃᑯᑦ ᑲᑎᒪᔨᖏᑦ ᑭᙵᕐᓂ. ᐱᓗᐊᖅᑐᒥ, ᓄᓇᕗᒻᒥ ᐆᒪᔪᓕᕆᔨᕐᔪᐊᒃᑯᑦ ᑲᑎᒪᔨᖏᑦ ᐊᒻᒪᓗ ᕿᑭᖅᑖᓗᒻᒥ ᐆᒪᔪᓕᕆᓂᕐᒧᑦ ᑲᑎᒪᔨᑦ ᑲᒪᒋᔭᖃᑦᓯᐊᓚᐅᕐᒪᑕ ᑖᒃᑯᐊ ᐊᐅᓪᓚᐅᒪᒍᔾᔨᔪᑦ ᐊᑭᓕᖅᓱᖅᑕᐅᓂᖏᓐᓂᒃ.

ᐅᑭᐅᖅᑕᖅᑐᕐᒥ ᖃᐅᔨᓴᕐᓂᖅ ᐊᑭᑐᔪᕐᔪᐊᕌᓘᒻᒪᑦ ᐊᒻᒪ ᑮᓇᐅᔭᖃᖅᑎᑕᐅᓂᖅ ᑲᑐᔾᔭᐅᕙᒻᒪ ᐱᓕᕆᖃᑎᒌᑦᑐᓄᑦ ᐅᑯᓂᖓ ᐃᓚᖃᖅᓱᑎᒃ: ᐊᕙᑎᓕᕆᔨᒃᑯᑦ ᐊᒻᒪᓗ ᓯᓚᐅᑉ ᐊᓯᔾᔨᖅᐸᓪᓕᐊᓂᖓ ᑲᓇᑕᒥ ᐆᒪᔪᓂᒃ ᖃᐅᔨᓴᖅᑎᓕᕆᔩᑦ, ᑲᓇᑕᒥ ᐆᒪᔪᕐᓄᑦ ᐱᔨᑦᓯᕋᕐᕕᒃ, ᓄᓘᔮᓐᓂ ᐅᔭᕋᕐᓂᐊᕐᕕᒃ, ᒥᑕᒃᔅ, ᐱᐅ ᑮᓇᐅᔭᖅᑖᖅᑎᑦᓯᔩᑦ, ᐅᑭᐅᖅᑕᖅᑐᕐᒥ ᐃᒪᕖᑦ, ᓄᓇᕗᒻᒥ ᓇᐅᑦᓯᖅᓱᐊᖃᕐᓂᕐᒧᑦ ᐸᕐᓇᐃᓂᖅ, ᐅᑭᐅᖅᑕᖅᑐᒥᒃ ᑐᑭᓯᒋᐊᖃᑎᒌᑦ, ᐅᑭᐅᖅᑕᖅᑐᕐᒥᒃ ᖃᐅᔨᒪᓂᖅ ᑲᓇᑕᒥ, ᐅᑭᐅᖅᑕᖅᑐᕐᒥ ᖃᐅᔨᓴᕐᓂᕐᒧᑦ ᐱᓕᒻᒪᑦᓴᐃᕕᒻᒥ ᐱᓕᕆᐊᑦᓴᖅ, NSERC, ᑳᕐᑕᓐ ᓯᓚᑦᑐᖅᓴᕐᕕᔾᔪᐊᖓᓂᑦ, ᐊᒻᒪ ᕗᐃᓐᓱ ᓯᓚᑦᑐᖅᓴᕐᕕᔾᔪᐊᖓᓂᑦ,.

ᖃᐅᔨᒋᐊᕐᕕᑦᓴᒻ

ᐊᐱᖅᑯᓯᖃᕈᑦᓯ, ᐅᖃᐅᓯᑦᓴᖃᕈᑦᓯ, ᐃᓱᒫᓘᑎᖃᕈᑦᓯ ᐅᓇ ᑐᓴᖅᑎᓪᓗᒍ:

ᒪᐃᑯᓪ ᔮᓐᓯᐊᓐ ᒍᕌᓐᑦ ᒋᐅᑯᕆᔅᑦ
ᐆᒪᔪᓂᒃ ᖃᐅᔨᓴᖅᑎᓕᕆᔩᑦ ᐆᒪᔪᓂᒃ ᖃᐅᔨᓴᖅᑎᓕᕆᔩᑦ
ᐊᕙᑎᓕᕆᔨᒃᑯᑦ ᐊᒻᒪᓗ ᓯᓚᐅᑉ ᐊᓯᔾᔨᖅᐸᓪᓕᐊᓂᖓ ᑲᓇᑕᒥ ᐊᕙᑎᓕᕆᔨᒃᑯᑦ ᐊᒻᒪᓗ ᓯᓚᐅᑉ ᐊᓯᔾᔨᖅᐸᓪᓕᐊᓂᖓ ᑲᓇᑕᒥ

ᐅᖄᓚᐅᑦ: (613) 991 - 9973 ᐅᖄᓚᐅᑦ: (613) 998 - 7364
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