ᐆᒪᔪᐃᑦ ᐊᒥᓲᖅᑭᓗᐊᓕᕐᓂᖅᑭᓄᑦ ᒪᓕᒐᐃᑦ
ᐆᒪᔪᐃᑦ ᐊᒥᓱᕈᖅᓯᐊᓇᔭᐅᕙᓐᓂᖅᑭᓄᑦ
ᖃᓄᐃᓕᐅᕈᑎᑦᓴᐃᑦ ᑎᑎᕋᖅᓯᒪᓂᖅᑭᓐᓄᑦ ᐃᓚᒋᔭᖅ

ᐊᒥᓱᕈᖅᓯᐊᓇᔭᐅᓂᖅᑭᓐᓄᑦ ᖃᓄᐃᓕᐅᕈᑎᒃᓴᐃᑦ ᖁᑦᑎᒃᑐᒥᒃ ᖃᑯᖅᑭᓂᖅᓴᓂᒃ ᑐᑐᓂᒃ ᑲᓇᑕᒥ

ᖁᑦᑎᒃᑐᒥᒃ ᖃᑯᖅᑭᓂᖅᓴᐃᑦ ᑐᑐᐃᑦ

2022

Government of Canada Gouvernement du Canada

Canada

ᐊᑐᓕᖅᑯᓯᖅ ᑕᐃᓯᐅᓂᖓᓄᑦ:

ᐊᕙᑎᓕᕆᔩᕐᔪᐊᒃᑯᑦ ᓯᓚᐅᓪᓗ ᐊᓯᔾᔨᖅᐸᓪᓕᐊᓂᖓ ᑲᓇᑕᒥ. 2022. ᐊᒥᓱᕈᖅᓯᐊᕆᔭᐅᓂᖏᓐᓄᑦ ᖃᓄᐃᓕᐅᕈᑎᒃᓴᐃᑦ ᖁᑦᑎᒃᑐᒥᒃ ᖃᑯᖅᓯᖕᓴᓂᒃ ᑐᑐᓂᒃ ᑲᓇᑕᒥ. ᐆᒪᔪᐃᑦ ᐊᒥᓱᕈᖅᓯᐊᕆᔭᐅᕚᓂᖏᓐᓄᑦ ᖃᓄᐃᓕᐅᕈᑎᒃᓴᐃᑦ ᑎᑎᕋᖅᓯᒪᓂᖏᓐᓄᑦ ᐃᓚᒋᔭᖅ. ᐊᕙᑎᓕᕆᔩᕐᔪᐊᒃᑯᑦ ᓯᓚᐅᓪᓗ ᐊᓯᔾᔨᖅᐸᓪᓕᐊᓂᖓ ᑲᓇᑕᒥ, ᐋᑐᕚᒥ xii + 93 pp ᒪᒃᐱᒐᖓᓂ

ᐃᓕᑕᕆᔭᐅᓯᒪᔪᑦ ᑎᑎᕋᖅᓯᒪᓂᖓ
ᐃᓕᑕᕆᔭᐅᓯᒪᔪᑦ ᑎᑎᕋᖅᓯᒪᓂᖓ ᐊᒥᓱᕈᖅᓲᓂᕐᒧᑦ ᑎᑎᖅᑲᐃᑦ ᑕᐃᒃᑯᐊᖑᕗᑦ ᓴᓇᔭᐅᓯᒪᔪᑦ PDF-ᑯᑦ ᑎᑎᖅᑲᓕᐅᕈᑎᒃᑯᑦ. ᑕᒪᕐᒥᒃ ᐊᑦᑕᑦᕿᓖᑦ ᑕᑯᓂᐊᖅᑕᐅᕝᕕᖕᓄᑦ ᖃᕆᑕᐅᔭᒃᑯᒃ ᐊᑐᖅᑕᐅᓚᐅᕐᒪᑕ ᓱᓕ ᑖᒪᓂ ᐅᓪᓗᖓᓂ ᐅᖃᓕᒫᓕᐊᕆᔭᐅᒐᒥᒃ.

ᐃᓕᑕᕆᔭᐅᓯᒪᙱᓂᖏᑦ ᑎᑎᕋᖅᓯᒪᓂᖓ
ᐃᓕᑕᕆᔭᐅᓯᒪᖏᓐᓂᖏᑦ ᑎᑎᕋᖅᓯᒪᓂᖓ ᐊᒥᓱᕈᖅᓲᓂᕐᒧᑦ ᑎᑎᖅᑲᐃᑦ ᑕᐃᒃᑯᐊᖑᕗᑦ ᓴᓇᔭᐅᓯᒪᔪᑦ HTML-ᑯᑦ ᑎᑎᖅᑲᓕᐅᕈᑎᒃᑯᑦ ᐊᒻᒪᓗ ᑕᒪᕐᒥᒃ ᐊᑕᑦᕿᓖᑦ ᑕᑯᓂᐊᖅᑕᐅᕝᕕᖕᓄᑦ ᖃᕆᑕᐅᔭᒃᑯᒃ ᐊᑐᖅᑕᐅᓚᐅᕐᒪᑕ ᓱᓕ ᑖᒪᓂ ᐅᓪᓗᖓᓂ ᐅᖃᓕᒫᓕᐊᕆᔭᐅᒐᒥᒃ.

ᐱᔪᒪᔪᑦ ᐊᔾᔨᖏᓐᓂᒃ ᐅᖃᓕᒫᒐᒃᓴᓂᒃ ᐊᒥᓱᕈᖅᓲᓂᕐᒧᑦ ᖃᓄᐃᓕᐅᕈᑎᒃᓴᓂᒃ, ᐅᕝᕙᓗᓐᓃᑦ ᐱᔪᒪᔪᑦ ᐊᓯᒃᑲᓂᖏᓐᓂᒃ ᖃᐅᔨᕕᐅᔪᓐᓇᖅᑐᓂᒃ ᑕᒪᒃᑯᓂᖓ ᐱᔾᔪᑎᖃᖅᑐᓂᒃ ᐆᒪᔪᐃᑦ ᐊᒥᓲᖏᓗᐊᓕᖅᓂᖏᓐᓂᒃ, ᑕᐃᒃᑯᓂᖓᓗ ᐱᔾᔪᑎᖃᖅᑐᓂᒃ ᑲᑎᒪᔨᕋᓖᑦ ᖃᓄᐃᓕᖓᓂᖏᓐᓄᑦ ᐊᒥᔅᓱᖏᓗᐊᓕᖅᑐᑦ ᐆᒪᔪᐃᑦ ᑲᓇᑕᒥ (ᑳᓯᐃᒃᑯᓄᑦ) ᐅᓂᒃᑳᓕᐊᖏᓐᓂᒃ, ᓇᓃᓐᓂᖏᓐᓂᓗ ᐅᓂᒃᑳᖅᑐᓂ, ᐱᓕᕆᐊᒃᓴᓂᓪᓗ ᐸᕐᓇᐅᑎᓂᒃ ᐱᔾᔪᑎᖃᖅᑐᓂᒃ, ᐊᓯᖏᓐᓂᓗ ᐃᓚᒋᔭᐅᔪᓂᒃ ᑎᑎᕋᖅᓯᒪᔪᓂᒃ ᐊᒥᓱᕈᖅᓯᓇᓱᐊᕈᑕᐅᓂᐊᖅᑐᓂᒃ, ᑕᑯᓂᐊᕈᓇᖅᐳᑦ ᖃᕆᑕᐅᔭᒃᑯᑦ ᐅᕙᓂ ᑐᕌᕈᑎᓕᖕᒥᒃ Species at Risk (SAR) Public Registry[1].

ᖄᖓᓂ ᐊᔾᔨᖁᑎᒃ: ᒧᐊᒐᓐ ᐋᓐᑐᓴᓐ, ᓄᓇᕗᑦ ᒐᕙᒪᐃᑦ, ᐃᖃᓇᐃᔭᕝᕕᖓ ᐊᕙᑎᓕᕆᔨᒃᑯᑦ

Also available in English under the title
"Recovery Strategy for the Peary Caribou (*Rangifer tarandus pearyi*) in Canada"

Également disponible en français sous le titre
« Programme de rétablissement du caribou de Peary au Canada »

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ᐅᖃᓕᒫᓕᐊᖑᓂᖏᓐᓂ ᓄᓇᕐᔪᐊᕐᒥ ᐃᓕᑕᕆᔭᐅᔪᓐᓇᕐᓂᖓ
ISBN 978-0-660-45553-2
ᑎᑭᓴᐃᖃᑕᕐᓂᖁᑦ ᓈᓴᐅᑎᖓ. En3-4/356-2022Iku-PDF

ᐊᒥᓱᕈᖅᓯᐊᕆᔭᐅᓂᖏᓐᓄᑦ ᖃᓄᐃᓕᐅᕈᑎᒃᓴᐃᑦ ᐃᓕᑕᖅᓯᕗᑦ ᐃᒃᐱᒍᓱᒃᓱᑎᓪᓗ ᒪᓕᒐᖅᑎᒍᑦ ᓇᖕᒥᓂᕆᔭᐅᓂᖏᓐᓂᒃ ᖃᐅᔨᒪᔭᐅᓂᖏᓐᓂᒃ ᓯᕗᓪᓕᕐᒥ ᑕᒪᒃᑯᓐᖓ ᐃᓄᖕᓄᑦ ᐊᑐᖅᑕᐅᓗᑎᒃ *ᐃᓄᐃᑦ ᖃᐅᔨᒪᔭᑐᖃᖏᑦ* ᖃᐅᔨᒪᔨᑕᕆᔭᐅᓂᖏᓐᓄᑦ, ᐱᖅᑯᓯᑐᖃᕐᓂᓪᓗ ᖃᐅᔨᒪᓂᖏᓐᓂᒃ ᑎᒥᒎᐊᖅᑎᐅᓂᖏᓐᓂᒃ, ᐃᓐᓇᑐᖃᖏᓪᓗ, ᐊᖑᓇᓱᒃᑏᓪᓗ ᐊᓯᖏᓪᓗ ᖃᐅᔨᒪᓂᕐᒥᒃ ᑐᓴᖅᑎᑦᑎᖃᑦᑕᓚᐅᖅᑐᑦ ᓴᓇᔭᐅᕚᓕᐊᓂᖏᓐᓂ ᑖᒃᑯᐊ ᑎᑎᖃᖅᑯᑎᐅᑦ. ᖃᐅᔨᒪᔾᔪᑎᒃᓴᓂᒃᑕᐅᔪᑦ ᐃᓄᖕᓄᑦ ᑕᒪᐃᓐᓄᑦ ᐸᕐᓇᐅᑕᐅᓂᖏᓐᓂᒃ ᑲᑎᒪᔾᔪᑕᐅᕙᓪᓚᐅᖅᑐᓂᒃ/ᑎᒥᖁᑎᒋᔭᐅᔪᓄᓪᓗ ᑲᑎᒪᕙᓪᓚᐅᕐᓂᖏᓐᓂᒃ ᓇᓗᓇᐃᖅᑕᐅᔪᓐᓇᖏᒪᑕ ᐊᓯᖏᓐᓂᒃ

[1] www.canada.ca/en/environment-climate-change/services/species-risk-public-registry.html

ᑎᑎᕋᖅᓯᒪᕙᖕᒥᔪᓂ ᓯᕗᓂᐊᒍᑦ ᐊᖏᕈᑕᐅᕖᖅᓯᒪᖏᑯᑎᒃ ᐃᓄᖕᓄᑦ, ᐊᖑᓇᓱᒃᑏᓪᓗ ᑲᑎᒪᔨᕋᓛᖏᓄ/ᑲᑐᔾᔨᖃᑎᒌᖏᑦᖏᓐᓄᓪᓗᓐᓂᑦ ᖃᐅᔨᑎᑦᑎᖃᑕᓚᐅᕐᓂᖏᓐᓂᒃ ᑕᐃᒃᑯᐊ. ᑕᐃᒪᓕᖕᒐᒋᕗᑦ ᐅᖃᐅᓯᖃᑦᑕᓚᐅᖅᑐᑦ ᐅᑯᓄᖓ: ᖁᑦᑎᒃᑐᒥ ᖃᑯᖅᑐᑦ ᑐᒃᑐᐃᑦ ᐊᒥᓱᕈᖅᓯᐊᕆᔭᐅᓂᖏᓐᓂᒃ ᐱᕙᓪᓕᐊᔪᓕᕆᔩᑦ ᑲᑎᒪᔨᖏᓐᓂᒃ (ᑲᓇᑕᒥ ᐆᒪᔪᓕᕆᔩᑦ ᐱᔨᑦᑎᕋᐃᔨᖏᓐᓂ (2012, 2013, 2015-ᒥ); ᐃᖃᓗᒃᑐᑦᑎᐊᕐᓂ ᐊᖑᓇᓱᒃᑏᑦ ᖃᑐᔾᔨᖃᑎᒌᖏᑦ 2013, 2016; ᐅᖅᓱᖅᑑᑉ ᐊᖑᓇᓱᒃᑏᑦ ᖃᑐᔾᔨᖃᑎᒌᖏᑦ 2013, 2016; ᐊᐃᕕᖅ ᐊᖑᓇᓱᒃᑏᑦ ᖃᑐᔾᔨᖃᑎᒌᖏᑦ 2013, 2016; ᖁᑕᐃᕈᕐᔪᐊᑉ ᐊᖑᓇᓱᒃᑏᑦ ᖃᑐᔾᔨᖃᑎᒌᖏᑦ 2016; ᐅᓗᒃᕼᐊᖅᑑᕐᒥᐅᑦ ᐊᖑᓇᓱᒃᑏᑦ ᑲᑎᒪᔨᕋᓛᖏᑦ 2013, 2016; ᐸᐅᓗᑑᑉ ᐊᖑᓇᓱᒃᑏᑦ ᑲᑎᒪᔨᕋᓛᖏᑦ 2013, 2016; ᖃᐅᓱᐃᑦᑑᑉ ᐊᖑᓇᓱᒃᑏᑦ ᖃᑐᔾᔨᖃᑎᒌᖏᑦ 2013, 2016; ᐃᑳᕼᐆᑉ ᐊᖑᓇᓱᒃᑏᑦ ᑲᑎᒪᔨᕋᓛᖏᑦ 2013, 2016; ᑕᓗᕐᔪᐊᑉ ᐊᖑᓇᓱᒃᑏᑦ ᖃᑐᔾᔨᖃᑎᒌᖏᑦ 2013, 2016.

ᐊᒥᓱᕈᖅᓯᐊᕆᔭᐅᓂᖏᓐᓄᑦ ᖃᓄᐃᓕᐅᕈᑎᒃᓴᐃᑦ ᖁᑦᑎᒃᑐᒥᒃ ᖃᑯᕐᓂᖅᓴᓂᒃ ᑐᑐᓂᒃ ᑲᓇᑕᒥ 2022

ᐊᕙᑎᓕᕆᔨᕐᔪᐊᒃᑯᑦ ᓯᓚᐅᑉᓗ ᐊᓯᔾᔨᖅᐸᓪᓕᐊᓂᖓᓂ ᑲᓇᑕᒥ ᐆᒪᔪᓕᕆᓂᕐᒥᒃ ᐱᔨᑦᑎᕋᐃᔨᖏᑦ ᓴᓇᔭᐅᑎᑦᑎᓚᐅᖅᑐᑦ ᑖᒃᑯᓂᖓ ᐊᒥᓱᕈᖅᓯᐊᕆᔭᐅᓂᖏᓐᓄᑦ ᖃᓄᐃᓕᐅᕈᑎᒃᓴᓂᒃ ᐃᓚᐅᑎᑦᑎᓗᑎᒃ ᐊᐅᓚᑦᑎᔨᐅᑕᐅᕙᒃᑐᓂᒃ. ᑲᒪᒋᔭᐅᕙᓪᓕᐊᓂᖏᓐᓂ, ᑐᖓᕕᖃᐃᓐᓇᓚᐅᖅᑐᑦ ᐃᓄᐃᑦ ᖃᐅᔨᒪᔭᑐᖃᖏᑦ/ᐊᕙᑎᒥᒃ ᐊᕙᑎᒥᐅᑕᓂᓪᓗ ᖃᐅᔨᒪᔭᐅᔪᓂᒃ, ᓄᓇᓕᖕᓄᑦ ᖃᐅᔨᒪᔭᐅᔪᑦ ᐊᒻᒪᓗ ᖃᐅᔨᓴᖅᑎᓄᑦ ᖃᐅᔨᓴᖅᑕᐅᓯᒪᒧᑦ ᐊᑐᖅᑕᐅᓗᑎᒃ ᓴᓇᔭᐅᓂᖏᓐᓂᒃ ᐊᒥᓱᕈᖅᓲᓂᕐᒧᑦ ᖃᓄᐃᓕᐅᕈᑎᒃᓴᐃᑦ ᓇᓗᓇᐃᖅᑕᐅᖁᓪᓗᒋᓪᓗ ᐱᑕᖃᕆᐊᓕᒻᒪᕇᑦ ᓇᔪᒐᕆᔭᐅᔪᓇᖅᑐᑦ. ᐊᐅᓚᑦᑎᔨᐅᑕᐅᔪᑦ ᑐᓴᕐᕕᐅᖃᑕᓚᐅᖅᑐᑦ ᐱᖓᓱᓂᒃ ᑲᑎᒪᓪᓗᑎᒃ ᔭᓗᓇᕿᒥ, ᓄᓇᓕᖕᓂᓗ ᐱᓕᕆᐊᖑᓂᐊᖅᑐᓂᒃ ᑲᑎᒻᒪᐅᑕᐅᓂᖏᓐᓂ 8-ᖑᓚᐅᖅᑐᓂᒃ ᐊᒃᑐᖅᑕᐅᓯᓂᐊᖅᑐᑦ ᑲᑎᓪᓗᒋᑦ 9-ᖑᔪᓂᒃ ᓄᓇᓕᖕᓂ, ᐅᖄᓚᐅᑎᒃᑯᓪᓗ ᑲᑎᒪᓂᒃᑯᑦ ᑐᓴᕐᕕᐅᖃᑕᓚᐅᖅᑐᑦ, ᐅᖃᐅᔾᔨᖃᑕᖅᓱᑎᒃ ᐃᓱᒪᒋᔭᖏᓂᒃ ᐊᒻᒪᓗ ᐃᓚᐅᓪᓗᑎᒃ ᑐᑭᓕᐅᕈᑕᐅᓂᖏᓐᓂ ᐅᓗᕆᐊᓇᕈᑎᓕᕆᓂᕐᒧᑦ ᑕᒪᒃᑯᓄᖓ. ᖃᐅᔨᒪᔭᐅᓂᖏᑦ ᐊᒻᒪᓗ ᖃᐅᔨᒪᔾᔪᑎᒃᓴᐃᑦ ᑐᑭᓯᔭᐅᓂᖏᑦ ᖃᓄᐃᓕᐅᕈᑎᒃᓴᓂᒃ ᐅᖃᐅᓯᐅᓚᐅᕐᒥᔪᑦ ᑲᑎᒪᔨᕋᐃᓛᖏᓐᓄᑦ ᖃᓄᐃᓕᖓᓕᕐᓂᖏᓐᓄᑦ ᐊᒥᓲᖏᓗᐊᓕᖅᑐᑦ ᐆᒪᔪᐃᑦ ᑲᓇᑕᒥ (ᑲᓱᐃᒃᑯᑦ ᓇᐃᓈᖅᑕᐅᓪᓗᑎᒃ ᖃᓪᓗᓈᑎᑐᑦ), ᐃᓱᒪᒃᓴᖅᓯᐅᕈᑕᐅᓂᖏᓐᓂ ᑕᐃᒃᑯᐊ 2015-ᒥ ᖃᐅᔨᓴᖅᑕᐅᒃᑲᓐᓂᕐᕕᒃᓴᖏᑦ ᖁᑦᑎᒃᑐᒥ ᖃᑯᕐᓂᖅᓴᐃᑦ ᑐᒃᑐᐃᑦ. ᓴᓇᔭᐅᓕᕈᑎᒃ ᐱᓕᕆᐊᒃᓴᓂᒃ ᐸᕐᓇᐅᑏᑦ ᖁᑦᑎᒃᑐᒥᒃ ᖃᑯᖅᑐᓂᒃ ᑐᒃᑐᓕᕆᓂᕐᒧᑦ ᑐᕋᖓᓂᐊᖅᑐᑦ, ᓄᓈᑦ ᐃᓄᐃᑦ ᓄᓇᓕᑐᖃᐃᓪᓗ ᐃᓚᐅᔫᒪᕐᓂᖏᑦ ᑖᒃᑯᐊ ᐱᓕᕆᐊᒃᓴᓂᒃ ᐸᕐᓇᐅᑎᑦ ᓴᓇᔭᐅᕙᓪᓕᐊᓕᕈᑎᒃ ᐊᑑᑎᓕᒻᒪᕆᐊᓘᓛᕐᒪᑕ ᑲᔪᓯᔪᓐᓇᑦᑎᐊᕐᓂᐊᕈᑎᒃ ᐊᒥᓱᕈᖅᓲᓇᓱᐊᕐᓂᖅ ᖁᑎᒃᑐᒥ ᖃᑯᖅᑐᑦ ᑐᒃᑐᐃᑦ.

ᓄᓇᕗᑦ ᓄᓇᑦᓯᐊᑉᓗ ᒐᕙᒪᐃᑦ ᐊᐅᓚᑦᑎᔩᓪᓗ ᑲᑎᒪᔨᖏᑦ ᐱᓗᐊᖅᑐᒥᒃ ᑲᒪᔨᐅᓯᒪᕗᑦ ᓄᓇᐃᓪᓗ ᐆᒪᔪᓕᕆᓂᕐᒧᓪᓗ ᐊᐅᓚᑦᑎᕙᖕᓂᖅ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖃᕐᕕᐅᔪᓂ, ᑭᓯᐊᓂ ᐊᔾᔩᖏᓐᓂᖃᑕᕗᑦ ᐃᓛᒍᑦ. ᐅᒃᑑᑎᒋᓗᒍ, ᒥᕐᖑᐃᖅᓯᕐᕕᓕᕆᔨᒃᑯᑦ ᑲᓇᑕᒥ ᑲᒪᔨᐅᕗᑦ ᑐᒃᑐᐃᑦ ᐱᑕᖃᕐᓲᖑᓂᖏᓐᓂᒃ ᑲᓇᑕᓕᒫᒥ ᒥᕐᖑᐃᖅᓯᕐᕕᖕᓂ, ᑲᓇᑕᒥᓗ ᐃᒪᕐᓂ ᓴᐳᓐᓂᐊᖅᑕᐅᓂᖏᓐᓂᒃ ᐊᒻᒪᓗ ᑲᓇᑕᒥ ᑕᐃᔅᓯᒪᓂᓂᑕᕐᓂᒃ ᐃᓕᑕᕆᔭᐅᓯᒪᔪᑦ ᓄᓇᐃᑦ ᐃᓂᖏᓐᓂᒃ.

ᐊᕙᑎᓕᕆᔨᕐᔪᐊᒃᑯᑦ ᓯᓚᐅᑉᓗ ᐊᓯᔾᔨᖅᐸᓪᓕᐊᓂᖓ ᑲᓇᑕᒥ ᖃᐅᔨᓴᖅᑎᖏᑦ ᐱᓕᕆᐊᒃᓴᓕᕆᔩᑉᓗ ᐱᓕᕆᓚᐅᖅᑐᑦ ᖃᐅᔨᒪᔭᐅᓂᖏᓐᓂᒃ ᑐᑭᓯᓂᐊᕐᓂᕐᒥᒃ (Johnson et al. 2016) ᖁᒃᑎᒃᑐᒥᒃ ᑐᒃᑐᓕᕆᓂᕐᒥᒃ ᐊᑐᖅᐸᓐᓂᖏᓐᓂᒃ ᐃᓄᐃᑦ ᐊᒻᒪᓗ ᐃᓄᕕᐊᓗᐃᑦ ᐊᒻᒪᓗ ᖃᐅᔨᒪᔨᑕᕐᓂᒃ ᑕᐃᑯᓂᖓᓗ ᖃᐅᔨᓴᖅᑎᑦ ᖃᐅᔨᓯᒪᔭᖏᓐᓂᒃ. ᑕᒪᒃᑯᐊ ᖃᐅᔨᒪᔭᐅᓂᖏᑦ ᑐᖓᕕᐅᓪᓚᑲᒃᐳᑦ ᑖᑯᓂᖓ ᓴᕿᑎᑦᑎᓂᖅ ᐊᒥᓱᕈᖅᓲᕐᓂᒧᑦ ᖃᓄᐃᓕᐅᕈᑎᒃᓴᓂᒃ.

ᐅᖃᐅᓯᕐᖓᐅᑏᑦ

ᑲᓇᑕᓕᒫᒃ ᐊᕕᒃᑐᖅᓯᒪᓂᖏᓐᓂ, ᐅᑭᐅᖅᑕᖅᑑᓪᓗ ᒐᕙᒪᒃᑯᖏᓐᓂᒃ ᐊᑎᓕᐅᕐᓂᖏᑦ ᒪᓕᒐᕐᓂᒃ ᐊᖏᕈᑎᓂ ᓴᐳᓐᓂᐊᖅᑕᐅᓂᖏᓐᓄᑦ ᐆᒪᔪᐃᑦ (1996)[2] ᐊᖏᕈᑎᓕᐅᓚᐅᖅᐳᑦ ᓵᕿᑦᑎᓂᕐᒧᑦ ᐃᓚᒋᔭᐅᔾᔨᑎᓂᒃ ᒪᓕᒐᓕᐅᕐᓂᕐᒧᑦ ᐱᓕᕆᖃᑕᐅᓂᕐᒧᓗ ᓴᐳᓐᓂᐊᖅᑕᐅᓂᖏᓐᓄᑦ ᐆᒪᔪᐃᑦ ᐊᒥᓲᖏᓗᐊᓕᐊᖅᑐᑦ ᑲᓇᑕᒥ. ᐊᑐᕐᓗᒋᑦ *ᐆᒪᔪᐃᑦ ᐊᒥᓲᖏᓗᐊᓕᖅᑐᑦ ᒪᓕᒐᖏᑦ* (S.C. 2002, c.29) (SARA-ᓯᐊᔭᑯᑦ ᓇᐃᓈᕐᓗᒋᑦ ᒪᓕᒐᐃᑦ), ᑲᓇᑕᒥ ᒥᓂᔅᑕᐃᑦ ᑲᒪᔨᐅᕙᑦ ᓴᓇᔭᐅᖃᑦᑕᕐᓂᖏᓐᓂᒃ ᐊᒥᓱᕈᖅᔫᓂᕐᒧᑦ ᖃᓄᐃᓕᐅᕈᑕᐅᓂᐊᖅᑐᓂᒃ ᑕᒪᒃᑯᓂᖓ ᐃᓕᔭᐅᓯᒪᓕᖅᑐᓂ ᐆᒪᔪᐃᑦ ᒪᓕᒐᖅᑎᒍᑦ ᑕᐃᔭᐅᔪᓂᒃ ᑲᓇᑕᒥ ᓄᖑᓯᒪᓕᕐᓂᖅ, ᓄᖑᓕᒑᓕᕐᓂᖏᓐᓄᓐᓂᑦ ᐊᒻᒪ ᐅᓗᕆᐊᓇᖅᑑᓕᕐᓂᖏᑦ ᐆᒪᔪᐃᑦ ᑕᒪᒃᑯᐊᓗ ᐱᔾᔪᑕᐅᓂᖏᓐᓂᒃ ᐅᓂᑳᓕᐅᖅᑕᓇᐊᖅᑲᓇᐊᖅᓯᑎᒃ ᑕᓪᓕᒪᐃᑦ 5 ᐊᕐᕌᒍᐃᑦ ᑭᖑᓂᐊᒍᑦ ᐅᖃᓖᒫᒐᓕᐅᓚᐅᕐᓗᑎᒃ ᐊᒥᓲᖏᓗᐊᓕᕐᓂᖏᓐᓄᑦ ᐆᒪᔪᐃᑦ ᒪᓕᒐᖏᓐᓂᒃ ᐃᓄᓕᒫᓄᑦ ᒪᑐᐃᖓᔪᒥᒃ ᑎᑎᖅᑲᖅᑲᕐᕕᖓᓄᑦ ᓵᕿᑎᑕᐅᓯᒪᓗᑎᒃ.

ᒥᓂᔅᑕᖑᑦ ᐊᕙᑎᓕᕆᔨᕐᔪᐊᑯᓐᓄᑦ ᓯᓚᐅᓪᓗ ᐊᓯᔾᔨᖅᐸᓪᓕᐊᓂᖓᓄᑦ ᐊᒻᒪ ᒥᓂᔅᑕᖓ ᒥᕐᖑᐃᖅᓯᕐᕕᓕᕆᔨᒃᑯᓐᓄᑦ ᑲᓇᑕᒥ ᑲᒪᔨᐅᑎᑕᐅᖕᒪᑎᒃ ᒪᓕᒡᓗᒋᑦ ᐊᒥᓱᖏᓗᐊᓕᕐᓂᖏᓐᓄᑦ ᒪᓕᒐᐃᑦ ᑕᒪᒃᑯᓄᖓ ᓴᓇᓯᒪᔭᕆᐊᖃᖅᑐᓂᒃ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᓕᕆᓂᕐᒧᑦ ᐅᑯᓂᖓ ᐊᒥᓱᕈᖅᔫᓂᕐᒧᑦ ᖃᓄᐃᓕᐅᕈᑎᒃᓴᓂᒃ, ᒪᓕᒃᑕᐅᓪᓗᑎᒃ ᐃᓗᓕᖏᑦ 37 ᐊᒥᓲᖏᓗᐊᓕᕐᓂᖏᓐᓄᑦ ᒪᓕᒐᐃᑦ. ᐊᐃᑉᐸᒌᑦᑕᐅᖅ ᐊᔾᔨᓇᖏᓂᓕᒫᖑᓂ, ᓴᓇᔭᐅᓯᒪᒋᕙᑦ ᐱᓕᕆᖃᑎᒋᔭᐅᓪᓗᑎᒃ ᐅᑯᐊ ᐊᔾᔨᒌᖏᑦᑐᑏᑦ ᐊᐅᓚᑦᑎᔨᐅᖃᑕᐅᔪᑦ: ᒐᕙᒪᒃᑯᑦ ᓄᓇᑦᓯᐊᕐᒥ ᐊᒻᒪ ᓄᓇᕗᒥ, ᐆᒪᔪᐃᑦ ᐊᐅᓚᑕᐅᕙᖕᓂᖏᓐᓄᑦ ᐅᖃᐅᔾᔨᒋᐊᖅᑏᑦ ᑲᑎᒪᔨᖏᑦ (ᓄᓇᑦᓯᐊᕐᒥ), ᓄᓇᕗᒻᒥ ᐆᒪᔪᓕᕆᔨᕐᔪᐊᑯᑦ ᑲᑎᒪᔨᖏᑦ, ᓄᓇᕗᒻᒥ ᐊᕕᒃᑐᖅᓯᒪᓂᖏᓐᓂ ᐊᖑᓇᓱᒃᑎᓕᒫᑦ ᑲᑎᒪᔨᖏᑦ, ᐊᖑᓇᓱᒃᑏᑦ ᑲᑐᔾᔨᖃᑎᒌᖏᑦ/ᑲᑎᒪᔨᕋᓛᓪᓗ, ᐊᒻᒪ ᐃᓄᐃᑦ ᐃᓄᕕᐊᓗᐃᑦ 9-ᖑᔪᓂ ᓄᓇᓕᖕᓂ ᐱᑕᖃᕐᕕᐅᕙᒃᑐᓂ ᑕᒪᒃᑯᓂᖓ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ, ᒪᓕᒃᑕᐅᓗᑎᒃ ᐃᓗᓕᖏᑦ 39(1) ᓯᐅᔭᑉ ᐊᒥᓱᖏᓗᐊᓕᕐᓂᖏᓐᓄᑦ ᒪᓕᒐᖏᓐᓂᒃ.

ᑯᔨᔪᓐᓇᑦᑎᕐᓂᖏᑦ ᐊᒥᓱᕈᖅᐸᓪᓕᐊᔪᓐᓇᕐᓂᖏᑦ ᑕᒃᑯᐊ ᐆᒪᔪᐃᑦ ᑐᖓᕕᖃᖅᐳᑦ ᐱᓂᐊᕐᓂᖏᓐᓂᒃ ᐊᒻᒪ ᐱᓕᕆᖃᑎᒌᒍᓐᓇᕐᓂᖏᓐᓂᒃ ᐊᒥᓯᑦ ᐊᔾᔨᒌᖏᑦᑐᑦ ᒐᕙᒪᒋᔭᐅᔪᑦ ᑕᒪᐃᓐᓂ ᐊᑐᖅᑎᑦᑎᕙᓪᓕᐊᓂᖅ ᖃᓄᐃᓕᐅᕐᑯᔭᐅᔪᓂᒃ ᑕᕝᕙᓂ ᖃᓄᐃᓕᐅᕈᑎᒃᓴᓂᒃᑕᐅᓯᒪᔪᓂ ᐊᒻᒪ ᐱᔭᕇᖅᑕᐅᔪᓐᓇᖅᓯᒐᑎᒃ ᑕᐃᒃᑯᓇᙵᐃᓐᓇᖅ ᐊᕙᑎᓕᕆᔨᕐᔪᐊᒃᑯᓐᓄᑦ ᓯᓚᐅᓪᓗ ᐊᓯᔾᔨᖅᐸᓪᓕᐊᓂᖓᓄᑦ ᑲᓇᑕᒥ ᐊᒻᒪ ᒥᕐᖑᐃᖅᓯᕐᕕᓕᕆᔨᒃᑯᓐᓄᑦ ᐊᓯᖏᓄᓐᓃᑦ ᒐᕙᒪᑯᓐᓄᑦ ᐱᓕᕆᕝᕕᐅᔫᒧᑎᒃ ᐃᖕᒥᒍᐃᓐᓇᖅ. ᐊᐅᓚᑦᑎᔨᐅᖃᑕᐅᔪᑦ ᓄᓇᑦᓯᐊᕐᒥ, ᓄᓇᕗᒻᒥᓗ, ᐊᓯᖏᓐᓂᓗ ᐱᓪᓚᑕᐊᓗᖕᓂᒃ ᐃᓚᒋᔭᐅᖕᒪᑕ ᐊᐅᓚᑦᑎᔪᓐᓇᑦᑎᐊᕐᓂᐊᕈᑎᒃ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᓕᕆᓂᕐᒥᒃ. ᑕᒪᕐᒥᒃ ᑲᓇᑕᒥᐅᑦ ᐃᓚᐅᖅᑯᔭᐅᓚᐅᖅᑐᑦ ᐃᑲᔪᖅᓯᐃᖅᑯᔭᐅᓗᑎᒃ ᐊᑐᓕᖅᑎᑦᑎᕙᓪᓕᐊᓗᑎᓪᓗ ᑖᒃᑯᓂᖓ ᖃᓄᐃᓕᐅᕈᑎᒃᓴᓂᒃ ᐃᑲᔪᕐᓂᖅᑲᕐᓂᐊᖅᑐᓂᒃ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᓂᒃ ᑲᓇᑕᒥᐅᓪᓗ ᐃᓄᖁᑎᖏᓐᓂᒃ ᑕᒪᐃᓐᓂᒃ.

ᐅᑯᐊ ᐊᒥᓱᕈᖅᔫᓂᕐᒧᑦ ᖃᓄᐃᓕᐅᕈᑎᒃᓴᐃᑦ ᓯᓕ ᐃᓚᖅᑲᓇᐊᖅᑲᕐᓂᐊᖅᑐᑦ ᑕᐃᔭᐅᔪᓂᒃ ᐱᓕᕆᐊᒃᓴᓂᒃ ᐸᕐᓇᐅᑎᒃᓴᓂᒃ, ᑕᐃᒃᑯᐊᓗ ᐊᒥᓲᓂᖅᓴᓂᒃ ᖃᐅᔨᒪᔾᔨᑎᒃᓴᖅᑲᓇᐊᖅᑲᕐᓂᐊᖅᑐᒃᓴᐅᓪᓗᑎᒃ ᑕᐃᒃᑯᓄᖓ ᑐᕌᒐᔪᓂᒃ ᐊᕙᑎᓕᕆᔨᕐᔪᐊᒃᑯᓐᓄᑦ ᓯᓚᐅᓪᓗ ᐊᓯᔾᔨᖅᐸᓪᓕᐊᓂᖓᓄᑦ ᑲᓇᑕᒥ ᑲᒪᒋᔭᐅᓂᖏᓐᓂ ᐊᒻᒪ ᒥᕐᖑᐃᖅᓯᕐᕕᓕᕆᔨᒃᑯᓐᓄᑦ ᑲᓇᑕᒥ ᓴᓇᔭᐅᓂᐊᖅᑐᓂᒃ, ᑕᒪᑯᓇᖓᓗ ᓄᓇᑦᓯᐊᑉ ᒐᕙᒪᒃᑯᖏᓐᓄᑦ ᐊᒻᒪ ᓄᓇᕗᑦ ᒐᕙᒪᒃᑯᖏᓐᓄᑦ ᐊᒻᒪ ᐆᒪᔪᓕᕆᓂᕐᒥᒃ ᐊᐅᓚᑦᑎᔨᐅᖃᑕᐅᕙᒃᑐᑦ ᑲᑎᒪᔨᖏᓐᓄᑦ, ᐃᓄᖕᓂ ᐊᒻᒪ ᐃᓄᕕᐊᓗᖕᓂ ᑎᒥᖁᑎᖏᓐᓄᑦ ᐃᓚᒋᔭᐅᓗᑎᒃ, ᐊᒥᓱᕐᑎᑦᑎᕙᓪᓕᐊᓇᓱᖕᓂᐊᕐᓗᑎᒃ. ᐊᑐᓕᖅᑎᑕᐅᓂᖏᑦ ᖃᓄᐃᓕᐅᕈᑎᒃᓴᐃᑦ ᒪᓕᒋᐊᖃᖅᐳᑦ ᕿᓇᐅᔭᒃᓴᓂᒃᑕᐅᔪᓐᓇᕐᓂᖏᓐᓂᒃ ᐊᒻᒪ ᓯᕗᓪᓕᐅᕐᑯᔭᐅᔪᓂᒃ ᒪᓕᒡᓗᑎᒃ ᐊᒻᒪ ᐊᑐᒐᒃᓴᓂᒃᑕᐅᓂᖏᓐᓂ ᐊᐅᓚᑕᐅᔪᓐᓇᕐᓂᖏᓐᓄᑦ, ᐃᓚᒋᔭᐅᓗᑎᓪᓗ ᐆᒪᔪᓕᕆᓂᕐᒥᒃ ᐊᐅᓚᑦᑎᔨᐅᖃᑕᐅᔪᑦ ᑎᒥᖁᑎᖏᑦ ᐊᒻᒪ ᑲᑐᔾᔨᖃᑎᒌᖏᑦ.

ᐊᒥᓱᕈᖅᓯᐊᓇᔭᐅᓂᖏᓐᓄᑦ ᖃᓄᐃᓕᐅᕈᑎᒃᓴᐃᑦ ᐊᖅᑮᓂᐊᖅᑐᑦ ᖃᓄᐃᑦᑐᓐᓃᕈᑕᐅᕆᐊᖅᓯᐊᖅᑐᓂᒃ ᐅᕝᕙᓗᓐᓃᑦ ᐃᓪᓗᐊᓄᖕᓖᖅ ᐊᒥᓱᕈᖅᓯᐊᓇᔭᐅᕆᐊᖅᓯᐊᖅᑐᓂᒃ ᐆᒪᔪᐃᑦ ᑕᒪᒃᑯᐊ, ᐃᑎᑕᓇᔭᐅᓗᑎᓪᓗ ᐱᑕᖃᓇᐊᓪᓕᒪᓇᑦ ᓇᔪᕈᓇᕐᓂᐊᖅᑕᖏᑦ, ᐊᔪᕐᓇᖏᓂᓕᒫᒥ. ᑲᓇᑕᒥᐅᑕᓂᒃ ᖃᐅᔨᒪᔾᔪᑕᐅᓂᐊᖅᑐᑦ ᐃᑲᔫᑕᐅᓂᖏᓐᓂᒃ ᖃᓄᐃᓕᐅᕈᒪᓂᕐᒧᑦ ᐆᒪᔪᐃᑦ ᓴᐳᓐᓂᐊᖅᑕᐅᓂᖏᓐᓄᑦ. ᐃᓕᑕᕆᔭᐅᒍᑎᒃ ᓄᓇᐃᑦ ᐱᑕᖃᕐᕕᒋᒪᓂᖏᑦ ᓇᔪᒐᕆᔭᐅᕙᓐᓂᐊᖅᑐᑦ ᑕᐃᒃᑯᐊ ᐊᒥᓱᕈᖅᓯᐊᓂᖏᑦ ᖃᓄᐃᓕᐅᕈᑎᖏᑦ ᐅᖃᐅᓯᐅᓯᒪᔪᑦ ᐅᕝᕙᓗᓐᓃᑦ ᐱᓕᕆᐊᒃᓴᖏᓐᓂ ᐸᕐᓇᐅᑎᓂ, ᐊᒥᓲᖏᓗᐊᓕᕐᓂᖏᓐᓄᑦ ᒪᓕᒐᐃᑦ ᒪᓕᒐᖏᑦ ᒪᓕᒃᑕᐅᓗᑎᒃ ᐱᑕᖃᕐᕕᒋᒪᓂᐊᖅᑐᖏᑦ ᓇᔪᖅᑕᕕᐅᒃᓴᐃᑦ ᓴᐳᓐᓂᐊᖅᑕᐅᓯᒪᓕᓇᐊᖅᑐᑦ.

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[2] www.canada.ca/en/environment-climate-change/services/species-risk-act-accord-funding.html#2

ᖃᖓᑐᐃᓐᓇᖅ ᐱᑕᖃᕐᓂᐊᖃᕐᓂᖏᑦ ᓇᓗᓇᐃᖅᑕᐅᒍᑎᒃ ᓄᓇᒥᐅᑕᓄᑦ ᐆᒪᔪᕐᓄᑦ ᑐᕌᖓᔪᑦ, ᑎᖕᒥᐊᕐᓄᓪᓗ ᐅᑎᖅᐸᒃᑐᑦ ᓂᕿᒃᓴᕆᔭᐅᕙᖕᒥᔪᓄᑦ, ᐊᒥᓲᖏᓗᐊᓕᕐᓂᖏᓐᓄᑦ ᒪᓕᒐᐃᑦ ᐃᓚᖃᖅᐳᑦ ᑕᒪᒃᑯᐊ ᐱᑕᖃᓕᐊᓕᒻᒪᓈᑦ ᐃᓕᑕᕆᔭᐅᓂᖏᑦ ᑲᓇᑕᐅᑉ ᓴᕙᒪᐃᑦ ᓄᓇᕐᑯᑎᖏᓐᓂᑦᑐᑦ[3] ᐅᖃᐅᓯᐅᖃᑕᐊᖃᖅᑐᑦ ᐅᓂᒃᑳᖅᑕᐅᓗᑎᒃ ᑲᓇᑕᐅᑉ ᓴᕙᒪᒃᑯᑦ ᑐᓴᒃᓴᓕᐅᕐᕙᖓᓂ ᐱᕚᓪᓕᐊᔪᓂᒃ ᑕᐃᔭᐅᔪᒥᒃ *Canada Gazette* ᐃᓄᐊᓂ 90 ᐅᓪᓗᐃᑦ ᐊᒥᓱᑭᖅᓯᐊᕆᔭᐅᓂᖏᓐᓄᑦ ᖃᓄᐃᓕᐅᕈᑎᒃᓴᐃᑦ ᐅᕝᕙᓗᓐᓃᑦ ᐱᓕᕆᐊᒃᓴᓄᑦ ᐸᕐᓇᐅᑎᓕᐊᓂ ᐃᓕᑕᕆᔭᐅᒍᑎᒃ ᐱᑕᖃᓕᐊᖃᒻᒪᕆᒃᑐᑦ ᓄᓇᐃᑦ ᐅᖃᐅᓯᐅᓂᐊᕐᒥᔪᑦ ᐃᓄᓕᒫᓄᑦ ᒪᑐᐃᖓᔪᒥᒃ ᑐᓴᒃᓴᓕᐅᕐᕕᖓᓐᓂ. ᐊᔪᓕᖅᑎᑦᑎᓂᖅ ᓱᕋᖅᑎᖅᑕᐅᔪᓐᓇᕐᓂᖏᓐᓂ ᐱᑕᖃᓕᐊᓕᒻᒪᓈᑦ ᓄᓇᐃᑦ ᐅᖃᐅᓯᐅᓂᖏᑦ ᐃᓄᓕᖏᓐᓂ 58(1)-ᒥ ᐊᑐᓕᖅᑎᑕᐅᓂᐊᖅᑐᑦ 90 ᐅᓪᓗᐃᑦ ᑮᖑᓂᐊᒍᑦ ᐅᖃᐅᓯᐅᓚᐅᕐᓗᑎᒃ ᐱᑕᖃᓕᐊᖃᒻᒪᕆᓐᓂᖅᑐᑦ ᓄᓇᐃᑦ ᓇᔪᖓᕆᔭᐅᔪᒃᓴᐃᑦ ᑕᐃᑲᓂ ᐅᖃᓖᒪᖏᓐᓂ *Canada Gazette*.

ᐱᑕᖃᓕᐊᓕᒻᒪᓈᑦ ᓄᓇᐃᑦ ᐊᓯᖏᓐᓃᑦᑐᑦ ᑲᓇᑕᐅᑉ ᓄᓇᕐᑯᑎᖏᓐᓂ, ᑕᐃᓐᓇ ᒥᓂᔅᑕᕆᔭᐅᔪᖅ ᐅᓂᑳᕆᐊᖅᑲᕐᓂᐊᖅᑐᖅ ᓛᓐᓇᐅᔪᖅ ᒪᓕᒐᖅᑎᒍᑦ ᓴᐳᓐᓂᐊᖅᑕᐅᓂᖏᓐᓂᒃ ᐅᕝᕙᓗᓐᓃᑦ ᒪᓕᒐᓕᐅᕆᐊᓕᒃ ᐊᔪᕐᓇᖅᑎᑕᐅᓂᐊᕐᒪᑦ ᓱᕋᖅᑎᖅᑕᐅᔪᓐᓇᕐᓂᖏᓐᓄ ᓄᓇᐃᑦ ᐱᑕᖃᓕᐊᓕᒻᒪᓈᑦ ᐊᑐᓕᖅᑎᑕᐅᓂᐊᕐᒪᑕ.

ᐱᑕᖃᓕᐊᓕᒻᒪᓈᑦ ᓄᓇᐃᑦ ᐆᒪᔪᕐᓄᑦ ᐊᑐᖅᑕᐅᔪᓐᓇᕆᐊᓖᑦ ᑲᓇᑕᐅᑉ ᓄᓇᕐᑯᑎᓐᓂ ᓴᐳᓐᓂᐊᖅᑕᐅᓯᒪᖏᑦᑐᑦ ᐊᒻᒪᓗ ᑲᓇᑕᐅᑉ ᓄᓇᕐᑯᑎᖏᓐᓈᖏᑦᑐᑦ, ᐱᖏᓪᓗᒋᑦ ᑕᐃᒃᑯᐊ ᑲᓇᑕᒥᐅᑕᐃᓐᓇᕐᓄᑦ ᐊᑐᖅᑕᐅᔪᓐᓇᕐᓂᖏᑦ ᑰᓇᐅᔭᓕᐅᕐᕕᐅᔪᓐᓇᕐᓂᖏᑦ ᐅᕝᕙᓗᓐᓃᑦ ᑲᓇᑕᐅᑉ ᓄᓇᕐᑯᑎᐊᓗᐊᓃᑐᐃᓐᓇᖅᑐᑦ, ᐊᑐᕈᓐᓇᖅᐳᑦ ᑕᐃᒃᑯᓂᖓᐃᓐᓇᖅ ᓱᕋᒃᑎᖅᑕᐅᔭᕆᐊᖅᑭᖏᓐᓂᖏᓐᓂ ᓄᓇᒥ ᐊᑐᖅᑕᐅᔪᓐᓇᕐᓂᐊᖅᑐᑦ ᓇᔪᖅᑕᐅᔪᓐᓇᕐᓂᖏᓐᓂ ᐃᓕᑕᕆᔭᐅᓂᖏᑦ ᒪᓕᒐᓕᐅᕈᑕᐅᓚᐅᖅᑐᓂ ᐊᑐᖅᓱᑎᒃ *ᑎᖕᒥᐊᕐᓄᑦ ᐅᑎᖅᐸᒃᑐᑦ ᓂᕿᒃᓴᕆᔭᐅᕙᒃᑐᑦ ᑲᑎᒪᐅᑕᐅᓗᑎᒃ ᒪᓕᒐᓕᐊᕆᔭᐅᓂᖏᓐᓂᒃ 1994*-ᒥ ᐊᑐᖅᑕᐅᖕᒪᑕ ᐆᒪᔪᐃᑦ ᐊᒥᓲᖏᓗᐊᓕᕐᓂᖏᓐᓄᑦ ᒪᓕᒐᐃᑦ ᐃᓄᓕᖏᑦ 58(5.1) ᐊᒻᒪᓗ ᐃᓄᓕᖏᑦ 58(5.2).

ᖃᖓᑐᐃᓐᓇᖅ ᓇᐅᒃᑯᑐᐃᓐᓇᖅ ᐃᓚᒋᔭᐅᔪᑦ ᐱᑕᖃᕐᓂᐊᖃᕐᓂᖏᓐᓄᑦ ᓇᔪᖓᕆᔭᐅᔪᓐᓇᕆᐊᖃᕐᓂᖏᑦ ᑲᓇᑕᐅᑉ ᓄᓇᕐᑯᑎᒋᔭᖏᓐᓂᖏᑦᑐᑦ, ᒥᓂᔅᑕᖓᓄᑦ ᐃᓱᒪᓕᐅᕈᓐᓇᖅᐳᖅ ᓇᐅᒃᑯᑐᐃᓐᓇᖅ ᐃᓚᒋᔭᐅᖃᑕᐅᔪᑦ ᐱᑕᖃᓕᐊᒃᒪᕆᖕᖏᓐᓂᒃ ᓇᔪᖓᕆᔭᐅᓂᐊᖅᑐᓂ ᓴᐳᓐᓂᐊᖅᑕᐅᕝᕕᖃᖏᑦᑐᖅ ᒪᓕᒐᖅᑎᒍᑦ ᐅᕝᕙᓗᓐᓃᑦ ᐊᑐᖅᑕᐅᓂᖏᓐᓂ ᐆᒪᔪᐃᑦ ᐊᒥᓲᖏᓗᐊᓕᕐᓂᖏᓐᓄᑦ ᒪᓕᒐᖅᑎᒍᑦ ᐱᑕᖃᖏᑦᑐᓄᑦ ᓱᓕ (ᓯᐊᔾᔭᒃᑯᑦ) ᐊᓯᐊᒍᓪᓗᓐᓃᑦ ᑲᓇᑕᐅᑉ ᒪᓕᒐᓕᐅᖅᑎᖏᓐᓄᑦ ᒪᓕᒐᓕᐅᕐᕕᐅᓯᒪᓐᖏᑦᑐᑦ, ᒪᓕᒐᖃᖏᑦᑐᓪᓗᓐᓃᑦ ᑲᓇᑕᐅᑉ ᐊᕙᒃᑐᖅᓯᒪᓂᖏᓐᓂ ᐅᕝᕙᓗᓐᓃᑦ ᐅᑭᐅᖅᑕᖅᑑᑉ ᐊᕙᒃᑐᖅᓯᒪᓂᖏᓐᓂ, ᑕᐃᒃᑯᐊ ᒪᓕᒐᐃᑦ ᐆᒪᔪᐃᑦ ᐊᒥᓲᖏᓗᐊᓕᕐᓂᖏᓐᓄᑦ ᐃᓄᓕᖃᕐᒪᑕ ᒥᓂᔅᑕᐅᔪᖅ ᐊᑐᓕᕐᑯᔭᓕᐅᕆᐊᖃᕐᓂᖅ ᑲᓇᑕᒥ ᒥᓂᔅᑕᖏᓐᓂᒃ ᐊᖅᑯᑎᒋᓗᒍ ᑲᒥᓯᓇᕐᔪᐊᖓᑦ ᒪᓕᒐᓕᐅᕐᑯᔭᐅᓗᑎᒃ ᒥᓂᔅᑕᐃᑦ ᑲᑎᒪᔨᖏᑦ ᓱᕋᖅᑎᖅᑕᐅᑦᑕᐃᒪᓂᐊᕐᒪᑕ ᓇᔪᖓᕆᔭᐅᔪᓐᓇᕆᐊᖏᑦ ᓄᓇᐃᑦ. ᓇᔪᖓᕆᔭᐅᔪᓐᓇᕐᓂᖏᓐᓂ ᓄᓇᐃᑦ ᓴᐳᓐᓂᐊᖅᑕᐅᔭᕆᐊᖃᕐᓂᖏᑦ ᑲᓇᑕᐅᑉ ᓴᕙᒪᒃᑯᑦ ᓄᓇᕐᑯᑎᖏᓐᓈᓐᖏᑦᑐᑦ ᐊᓯᐊᒍᑦ ᓴᐳᓂᖅᑕᐅᓯᒪᒃᐹᓪᓕᖃᓐᖏᑦᑐᑦ ᑎᒍᒥᐊᖅᑕᐅᕙᒃᑐᑦ, ᐃᓱᒪᓕᐅᕈᑕᐅᖃᑦᑕᕈᓐᓇᕐᒪᑦ ᒥᓂᔅᑕᐃᑦ ᑲᒥᓯᓇᕐᔪᐊᖓᒍᑦ ᖃᐅᔨᑎᑕᐅᓗᑎᒃ.

[3] ᐅᑯᐊ ᑲᓇᑕᓖᒥ ᓴᐳᓂᐊᖅᑕᐅᓯᒪᕝᕖᑦ: ᑲᓇᑕᓖᒥ ᒥᕐᖑᐃᓯᕐᕕᖓᑦ ᑕᐃᔭᐅᔪᖅ ᐅᖃᐅᓯᐅᓯᒪᓗᓂᓗ ᒪᓕᒐᓕᐊᕆᔭᐅᓚᐅᕐᓂᖅ ᓈᓴᐅᑎᓕᖕᒥᒃ 1 ᑕᐃᑰᓇ *ᑲᓇᑕᒥᓕᒫᒥ ᒥᕐᖑᐃᖅᓯᕐᕕᓕᕆᓂᕐᒧᑦ ᒪᓕᒐᖕᒐᒍᑦ*, ᑕᐃᓐᓇ ᐊᐅᐸᔾᔪᕐᓂᕋᖅᑕᐅᔪᖅ ᑲᓇᓕᑖᒥ ᒥᕐᖑᐃᓯᕐᕕᖕᒥ ᓴᑎᑕᐅᓚᐅᖅᑐᖅᓯ ᒪᓕᒐᓕᐅᖅᓱᑎᒃ ᐊᐅᐸᔾᔪᖅᑐᒥᒃ *ᑕᐃᔭᐅᔪᒥᒃ ᑲᓇᑕᓖᒥ ᒥᕐᖑᐃᖅᓯᕐᕕᖕᒥ*, ᑕᑕᐅᕐᒥ ᓴᐳᓐᓂᐊᑕᐅᓂᖅ ᐊᑐᖅᑕᐅᓗᓂ *ᑕᑕᐅᓕᑎᓂᕐᒧᑦ ᒪᓕᒐᐃᕐ*, ᑕᐃᒃᑯᐊ ᑎᖕᒥᐊᖅᑲᕐᕖᑦ ᐊᑐᖅᑕᐅᓗᑎᒃ *ᑎᖕᒥᐊᓕᑎᓂᕐᒥᒃ ᑲᑎᒪᑕᐅᑕᐅᓂᕐᒥ ᒪᓕᒐᓕᐊᑎᔭᐅᔪᑦ, 1994*-ᒥ ᐅᕝᕙᓗᓐᓃᑦ ᑲᓇᑕᓕᒥ ᐆᒪᔪᓕᑎᓂᕐᒧᑦ ᒪᓕᒐᖅᑎᒍᑦ ᐊᑐᖅᑕᐅᓪᓗᑎᒃ *ᑲᓇᑕᒥ ᐆᒪᔪᓕᑎᓂᕐᒧᑦ ᒪᓕᒐᐃᕐ*, ᑕᑯᓗᒋᑦ ᐃᓄᓕᖏᑦ 58(2) ᐊᒥᓲᖏᓗᐊᓕᕐᓂᖏᓐᓄᑦ ᐆᒪᔪᐃᑦ ᒪᓕᒐᖏᑦ.

ᐃᓕᑕᕆᓯᐅᓂᖏᑦ

ᐊᕙᑎᓕᕆᔨᕐᔪᐊᒃᑯᑦ ᓯᓚᐅᓪᓗ ᐊᓯᔾᔨᖅᐸᓪᓕᐊᓂᖓᓄᑦ ᑲᓇᑕᒥ ᐊᒻᒪᓗ ᒥᕐᖑᐃᖅᓯᕐᕕᓕᕆᔨᒃᑯᑦ ᑲᓇᑕᒥ ᖁᔭᓕᓂᕐᒥᓂᒃ ᖃᐅᔨᑎᑦᑎᔪᒪᔪᑦ ᐃᓄᖕᓂᒃ ᐊᒻᒪᓗ ᐃᓄᕕᐊᓗᖕᓂᒃ ᐊᐅᓚᑦᑎᔨᐅᖃᑕᐅᔪᓂᒃ ᖃᐅᔨᑎᑦᑎᕙᓪᓚᐅᕐᓂᖏᓐᓂᒃ ᖃᐅᔨᒪᔭᖏᓐᓂᒃ ᑕᒪᒃᑯᓂᖓ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ ᐃᑲᔪᖅᓯᐃᓪᓗᑎᒃ ᐊᒥᓱᕈᖅᓯᐊᕆᔭᐅᓂᖏᓐᓂᒃ ᑕᒪᒃᑯᐊ. ᐃᓄᐃᑦ ᐊᒻᒪᓗ ᐃᓄᕕᐊᓗᐃᑦ ᑕᐃᒪᖓᑦ ᓴᐳᓂᐊᖅᑕᐅᖁᔨᖓᒪᑕ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᓐᓂᒃ ᑕᐃᒪᐃᑦᑕᕆᐊᖃᕐᓂᖏᓄᑦ, ᑕᒪᒃᑯᐊ ᑐᒃᑐᐃᑦ ᐊᑕᓪᓚᕆᖓᒪᑕ ᐃᓕᖅᑯᓯᖏᓐᓄᑦ, ᑭᓇᒃᑰᓂᖏᑦ ᐊᒻᒪᓗ ᐱᑕᖃᐃᓐᓇᕈᓐᓇᕐᓂᖏᓐᓄᑦ ᓄᓇᓕᖕᓄᑦ. ᐊᕙᑎᓕᕆᔨᕐᔪᐊᒃᑯᓐᓄᑦ ᓯᓚᐅᓪᓗ ᐊᓯᔾᔨᖅᐸᓪᓕᐊᓂᖓᓄᑦ ᑲᓇᑕᒥ ᖁᔭᓕᔪᑦ ᐅᖃᐅᓯᒃᓴᓂᒃᑕᐅᖃᑦᑕᓚᐅᕐᓂᖏᓐᓂᒃ ᐊᖑᓇᓱᒃᑏᑦ ᑲᑐᔾᔨᖃᑎᒌᖏᑦᓐᓄᑦ ᓄᓇᑦᓯᐊᕐᒥ, ᓄᓇᕗᒻᒥᓗ ᐊᒻᒪᓗ ᐃᓄᐃᑦᑲ ᐃᓄᕕᐊᓗᐃᓪᓗ ᑎᒥᖁᑎᖏᓐᓂᒃ ᐃᓄᖁᑎᖏᓐᓂᓪᓗ ᖃᐅᔨᒪᔭᒥᒃ ᐅᖃᐅᔾᔨᐊᕙᓪᓚᐅᖅᑐᑦ ᐊᑐᖃᑦᑕᖅᓯᒪᔭᖏᓐᓂᓪᓗ ᐃᑲᔪᕈᒪᓪᓗᑎᒃ ᐊᒥᓱᕈᖅᓯᐊᕆᔭᐅᓂᖏᓐᓂ ᖃᓄᐃᓕᐅᕈᑎᒃᓴᐃᑦ. ᐃᓄᐃᑦ ᖃᐅᔨᒪᔭᒥᓂᒃ ᖃᐅᔨᑎᑦᑎᕙᓪᓕᐅᖅᑐᑦ ᑕᒪᐅᓇ ᐃᓄᐃᑦ ᖃᐅᔨᒪᔭᑐᖃᖏᓐᓂᒃ ᐊᒻᒪᓗ ᐱᐅᓯᑐᖃᕐᓂᒃ ᐊᕙᑎᒥᒃ ᐊᕙᑎᓕᕆᓂᕐᒥᓪᓗ ᖃᐅᔨᒪᔾᔪᖏᓐᓂᒃ ᐊᒻᒪᓗ ᐃᓄᐃᑦ ᐃᓄᕕᐊᓗᐃᓗ ᓄᓇᓖᑦ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ ᐆᒪᔪᓇᕐᓂᖏᓐᓂᒃ, ᓇᓃᖃᑦᑕᕐᓂᖏᓐᓂᒃ, ᖃᓄᐃᓕᖓᓂᖏᓐᓂᒃ, ᐅᓗᕆᐊᓇᕐᓂᖃᖅᑐᓂᒃ ᑕᒪᒃᑯᓄᖓ ᐊᒻᒪᓗ ᓴᐳᓐᓂᐊᖅᑕᐅᔭᒪᓂᖏᓐᓂᒃ ᑕᒪᒃᑯᐊᓗ ᖃᐅᔨᒪᔭᐅᓂᖏᑦ ᐃᓚᔭᐅᓯᒪᓗᑎᒃ, ᐊᔪᕐᓇᖏᓐᓂᓕᒫᒃᑯᑦ, ᐃᓚᒋᔭᐅᓗᑎᒃ ᖃᐅᔨᓴᖅᑎᓄᑦ ᖃᐅᔨᓴᖅᑕᐅᓯᒪᔪᓂᒃ ᓴᕿᑎᑕᐅᓂᖏᓐᓂ ᐅᑯᐊ ᐊᒥᓱᕈᖅᓲᕐᓂᕐᒧᑦ ᖃᓄᐃᓕᐅᕈᑎᒃᓴᐃᑦ.

ᐅᑯᐊ ᐃᓚᐅᕙᓪᓚᐅᖅᑐᑦ ᑖᓇ ᐱᒐᓘ, ᓯᐅ-ᓕᖕ ᕼᐋᓐ, ᑖᓐ ᐆᓄᓘᓯ, ᐄᒥ ᒑᓐᑕᓐ, ᐃᓴᐱᐊᓚ ᑑᒃᓘᔅ ᐊᒻᒪᓗ ᓖᓴ ᐱᐅᕆ ᐊᕙᑎᓕᕆᔨᕐᔪᐊᒃᑯᓐᓄᑦ ᓯᓚᐅᓪᓗ ᐊᓯᔾᔨᖅᐸᓪᓕᐊᓂᖓᓄᑦ ᑲᓇᑕᒥ ᐃᖃᓇᐃᔭᖅᑎᖏᑦ ᓯᕗᓕᐅᖅᑎᐅᓚᐅᖅᑐᑦ ᐸᕐᓇᐃᕙᓪᓕᐊᓂᖏᓐᓂᒃ ᑖᒃᑯᓂᖓ ᐊᒥᓱᕈᖅᓯᐊᕆᔭᐅᓂᖏᓐᓄᑦ ᖃᓄᐃᓕᐅᕈᑎᒃᓴᐃᑦ ᑕᐃᓐᓇ ᐊᖏᕈᑎᓕᐅᕈᔾᔭᐅᓯᒪᓗᓂ ᐃᖃᓇᐃᔭᖅᑎᑕᐅᓚᐅᖅᑐᖅ ᐃᑲᔪᖅᑎᕆᔭᐅᓪᓗᓂ ᓇᑦᓯᓪ ᒪᐃᐱᐅᕆ.

ᐅᑯᐊᓗ ᓯᐅᕈᓪ ᐋᓐ ᔫᓐᓴᓐ, ᐋᒡᓂᔅ ᕆᑦᓯᑦ, ᐃᐅᕆᓐ ᓅᕝ, ᓯᐊᔭ ᐹᖕᑭᔅ ᐊᒻᒪᓗ ᐹᓖᓐ ᑯᐊᓂᐅᓪ ᓯᕗᓪᓕᐅᖅᑎᐅᓚᐅᖅᑐᑦ ᖃᐅᔨᒪᔭᐅᓂᖏᓐᓂᒃ ᑐᑭᓯᓂᐊᖃᑦᑕᕐᓂᕐᒥᒃ.

ᐊᕙᑎᓕᕆᔨᕐᔪᐊᒃᑯᓐᓄᑦ ᓯᓚᐅᓪᓗ ᐊᓯᔾᔨᖅᐸᓪᓕᐊᓂᖓᓄᑦ ᑲᓇᑕᒥ ᖁᔭᓕᔪᒪᔪᑦ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ ᐊᒥᓱᕈᖅᓲᕐᓂᕐᒧᑦ ᖃᓄᐃᓕᐅᕈᑎᒃᓴᓂᒃ ᐱᓕᕆᖃᑎᖃᓚᐅᕐᓂᖏᓐᓄᑦ ᑕᐃᒃᑯᓂᖓ ᐊᒥᓱᕈᖅᓲᕐᓂᕐᒧᑦ ᖃᓄᐃᓕᐅᕈᑎᒃᓴᓂᒃ ᑲᒪᔨᐅᔪᓂᒃ ᑕᐃᒪᖓ ᐱᕆᐊᓕᕌᕐᓂᖏᓐᓂ

ᓄᓇᕗᑦ

- ᖃᐅᓯᐃᑦᑑᑉ ᐊᖑᓇᓱᒃᑏᑦ ᖃᑐᔾᔨᖃᑎᒌᖏᑦ – *ᐱᓕᒃ ᒪᓂᒃ, ᐊᖓᔪᒃᓯᖅ, ᓄᓇᓖᑦ ᖃᐅᓯᐃᑦᑐᕐᒥ*
- ᐃᖃᓗᒃᑐᑦᑎᐊᕐᓂ ᐊᖑᓇᓱᒃᑏᑦ ᑲᑐᔾᔨᖃᑎᒌᖏᑦ – *ᕼᐊᐅᕚᑦ ᒍᓇᓐᓕ, ᔭᐃᒥᓯ ᐸᓂᐅᔭᖅ, ᔾᔪᐊᔾᔾ ᐊᖑᕼᐃᐊᑦᑐᖅ, ᔾᒥ ᕼᐊᓂᓕᐊᖅ, ᓄᓇᓖᑦ ᐃᖃᓗᒃᑑᑦᓯᐊᕐᒥ*
- ᐊᐃᕙᖅ ᐊᖑᓇᓱᒃᑏᑦ ᖃᑐᔾᔨᖃᑎᒌᖏᑦ – *ᐋᓖᓐ ᐊᕿᐊᕈᖅ, ᔭᐃᐱᑎ ᐊᕿᐊᕈᖅ, ᑦᓴᐅᓕ ᓄᐊ, ᓄᓇᓖᑦ ᐊᐅᓯᐃᑦᑐᕐᒥ*
- ᐅᖅᓱᖅᑑᑉ ᐊᖑᓇᓱᒃᑏᑦ ᑲᑐᔾᔨᖃᑎᒌᖏᑦ – *ᔾᐃᒥᓯ ᕿᑦᓯᐊᓕᒃ ᑕᖃᐅᓚᖅ, ᓄᓇᓖᑦ ᐅᖅᓱᖅᑑᕐᒥ*
- ᖁᑕᐃᕈᕐᔪᐊᑉ ᐊᖑᓇᓱᒃᑏᑦ ᑲᑐᔾᔨᖃᑎᒌᖏᑦ – *ᔫᓐ ᖃᔭᖅᓴᖅ, ᑯᓕ ᐆᓚᖅ, ᑲᓚᑉᐸᓐ ᐳᔪᐊᕐᔪᒃ, ᓄᓇᓖᑦ ᑰᓚᕿᕈᕐᒥ*
- ᑕᓗᕐᔪᐊᑉ ᐊᖑᓇᓱᒃᑏᑦ ᑲᑐᔾᔨᖃᑎᒌᖏᑦ – *ᐋᐳᓪ ᐊᖅᑲᖅ, ᐲᑕ ᖃᐟᔫᑐᓐᓄᐊᖅ, ᐊᖓᔪᒃᓯᖅ, ᓄᓇᓖᑦ ᑕᓗᕐᔪᐊᕐᒥ*
- ᓄᓇᕗᑦ ᒐᕙᒪᒃᑯᖏᑦ – *ᒍᐊᒐᓐ ᐋᓐᑐᓴᓐ, ᑎᐊᐱ ᔭᓐᑭᓐᔅ, ᑯᓄ ᒫᑐᓇ*
- ᕿᑎᖅᒥᐅᑦ ᐊᕕᒃᑐᖅᓯᒪᓂᖏᓐᓂ ᐊᖑᓇᓱᒃᑎᓕᒪᑦ ᑲᑎᒪᔨᖏᑦ – *ᐋᒪ ᖃᒡᒍᑕᖅ, ᓴᐃᒪᓐ ᕿᓇᖅᑑ*
- ᕿᑭᖅᑖᓗᖕᒥ ᐊᖑᓇᓱᒃᑎᓕᒪᑦ ᑲᑎᒪᔨᖏᑦ – *ᔫᑭ ᐳᕋᐃᔅ, ᒪᐃᑯᓪ ᕗᓚᓴᓐ*
- ᓄᓇᕗᑦ ᑐᓐᖓᕕᒃᑯᑦ ᑎᒥᖁᑎᖓᑦ – *ᐯᕕᑦ ᓖ, ᐸᓪ ᐃᕐᖓᐅᑦ, ᐹᑦ ᐯᓐ*
- ᓄᓇᕗᒻᒥ ᐆᒪᔪᓕᕆᔨᕐᔪᐊᑯᑦ ᑲᑎᒪᔨᖏᑦ – *ᐹᑕ ᑭᑦ, ᑳᕐᓚ ᓕᐊᑐ*

ᓄᓇᑦᓯᐊᖅ

- ᐃᑳᕼᐆᑉ ᐊᖑᓇᓱᒃᑏᑦ ᑲᑎᒪᔨᖏᑦᑐᖅ – *ᐊᐃᓴᒃ ᐃᑌᓂᒃ, ᕗᓇᓐ ᐋᒎᔅ, ᔮᓐ ᓗᑲᔅ ᓄᑲᖅᓯᖅ, ᔪᐃ ᑳᐱᓐᑐ, ᓄᓇᓖᑦ ᐃᑳᕼᐅᒃᒥ*
- ᐅᓗᒃᕼᐊᒃᑑᕐᒥ ᐊᖑᓇᓱᒃᑏᑦ ᑲᑎᒪᔨᖏᑦᑐᖅ –*ᐳᕌᑦᓕ ᑳᐱᐊᓐᑐ, ᔮᓯᐊ ᐅᓕᒃᑐᐊᖅ, ᓄᓇᓖᑦ ᐅᓗᒃᕼᐊᖅᑑᕐᒥ*
- ᐸᐅᓗᑑᑉ ᐊᖑᓇᓱᒃᑏᑦ ᑲᑎᒪᔨᖏᑦᑐᖅ – *ᓅᓚᓐ ᐲᐃᓐ, ᐊᖓᔪᒃᓯᖅ, ᓄᓇᓖᑦ ᐸᐅᓗᖅᑐᕐᒥ*
- ᑐᒃᑐᖅᑑᑉ ᐊᖑᓇᓱᒃᑏᑦ ᑲᑎᒪᔨᖏᑦᑐᖅ – *ᑦᓴᐅᓕ ᔫᐲᐱᓐ, ᑕᐃᐲᓐ ᕌᑎ*
- ᓄᓇᕗᑦ ᒐᕙᒪᒃᑯᖏᑦ – *ᑐᓅᓯ ᐂᕕᑦᓴᓐ, ᔪᐊᓇ ᐅᐃᓪᓴᓐ*

- ᐆᒪᔪᐃᑦ ᐊᐅᓚᑕᐅᕙᖕᓂᖕᒋᓐᓄᑦ ᐅᖃᐅᔾᔨᕇᐊᖅᑏᑦ ᑲᑎᒪᔨᖕᒋᑦ (ᐆᒪᔪᓕᕆᓂᕐᒧᑦ ᐅᖃᐅᔾᔨᕆᐊᖅᑏᑦ ᑲᑎᒪᔨᕐᔪᐊᖕᒋᑦ-ᓄᓇᑦᓯᐊᕐᒥ) – ᔮᓐ ᓘᑲᔅ ᓄᑲᖅᓯᖅ, ᓵᐅᓪᓕ ᔫᑭᐊᖅ, ᕗᓇᓐ ᐄᒪᔅ, ᕉᔅᒥ ᓇᑐᒃ

ᐊᓯᖏᑦ:
- ᒥᕐᖑᐃᖅᓯᕐᕕᓕᕆᔩᒃᑯᑦ ᑲᓇᑕᒥ – *ᔪᐋᓐ ᑕᒃᐅᐃᓪ, ᐋᓄᑮ ᒫᕼᐅᕐ, ᒥᓯᐊᓖᓐ ᒪᓐᔩ ᐊᒻᒪᓗ ᐱᑕ ᓯᖏᑭᓐᔅ*
- ᐊᕙᑎᓕᕆᔨᕐᔪᐊᒃᑯᓐᓄᑦ ᓯᓚᐅᓪᓗ ᐊᓯᔾᔨᖅᐸᓪᓕᐊᓂᖓᓄᑦ ᑲᓇᑕᒥ - *ᖃᐅᔨᓴᖅᑐᓕᕆᔨᓪᓗ ᐱᓕᕆᐊᒃᓴᓕᕆᔩᓪᓗ ᑳᑎ ᓂᐅᓪᓴᓐ, ᑦᓯᐅᕈᓪ ᔫᓐᓴᓐ ᐊᒻᒪᓗ ᐋᒡᓂᔅ ᕆᑦᓯᑦᔅ*

ᖃᒥᕐᕈᐊᖅᑏᑦ:
ᖁᔭᓕᑦᑎᐊᕆᕗᒍᑦ ᑕᐃᒪᓐᓂᒃ ᐅᖃᐅᔾᔨᕆᐊᖅᑎᐅᕙᓚᐅᖅᑐᓂᒃ ᐊᒻᒪᓗ ᑐᓴᖅᑎᑦᑎᕙᓚᐅᖅᑐᓂᒃ ᐃᑲᔫᑎᒃᓴᓂᒃ ᓴᓇᔭᐅᓂᖕᒋᓐᓂ ᑖᒃᑯᐊ ᐊᒥᕆᕈᖅᔫᓂᕐᒧᑦ ᖃᓄᐃᓕᐅᕈᑎᒃᓴᓂᒃ: ᒫᑎᐅ ᕼᐊᓐᑦᓕ, ᐹᓪ ᔪᕼᐋᓐᓴᓐ, ᒪᕇ-ᐊᓄᔫ ᑭᐅᓇᔪ, ᕇᑦᓯᓪ ᕙᓪᓚᓐᑐ, ᑯᐊᓇ ᑖᑦ ᐊᒻᒪᓗ ᕖᒃᑐᐊᕆᔭ ᓴᓅᐸᓪ (ᐊᕙᑎᓕᕆᔨᕐᔪᐊᒃᑯᓐᓄᑦ ᓯᓚᐅᓪᓗ ᐊᓯᔾᔨᖅᐸᓪᓕᐊᓂᖓᓄᑦ ᑲᓇᑕᒥ, ᑲᓇᑕᒥ ᐆᒪᔪᓕᕆᓂᕐᒧᑦ ᐱᔨᑦᑎᕋᐃᔩᑦ – ᑲᓇᑕᐅᑉ ᕙᓚᖕᒋᓐᓂᒃ ᐊᐅᓚᑦᑎᕙᖓᓂᒃ), ᐊᒻᒪᓗ ᑯᕆᓐ ᑰᑎ-ᔮᓚᓂ, ᐹᔅᑳᓪ ᓵᐅᕕᔾ, ᒥᒐᓐ ᕋᔅ, ᓖᓴ ᐅᐊᑎᖕᑕᓐ ᐊᒻᒪᓗ ᕼᐋᓕ ᕋᐸᑦᔅ (ᐊᕙᑎᓕᕆᔨᕐᔪᐊᒃᑯᓐᓄᑦ ᓯᓚᐅᓪᓗ ᐊᓯᔾᔨᖅᐸᓪᓕᐊᓂᖓᓄᑦ ᑲᓇᑕᒥ, ᑲᓇᑕᒥ ᐆᒪᔪᓕᕆᓂᕐᒧᑦ ᐱᔨᑦᑎᕋᐃᔩᑦ – ᐅᑭᐅᖅᑕᖅᑐᒥ ᐊᕙᑐᖅᓯᒪᓂᖕᒋᓂ).

ᐊᐅᓚᑦᑎᔨᓄᑦ ᑐᕌᖓᔪᑦ ᓇᐃᓈᖅᑕᐅᓪᓗᑎᒃ

ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᕆᑦ ᒥᑭᓛᖑᔪᑦ ᐅᑭᐅᖅᑕᖅᑐᒥ ᑐᒃᑐᓂ ᐊᒻᒪᓗ ᐃᓚᒋᔭᐅᓪᓗᑎᒃ ᓯᑕᒪᓄᑦ ᐃᓕᑕᕆᔭᐅᓂᖅᐹᖑᔪᓂᒃ ᑐᒃᑐᕆᑦ ᑕᒫᓂ ᑲᓇᑕᒥ. ᒫᓐᓇᓵᖅ ᓂᕈᑐᔪᒥᒃ ᐊᒥᓱᓂᕆᓐᓂᒃ ᓇᓚᐅᑖᖅᑕᐅᓚᐅᖅᑐᑦ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᐃᑦ ᑕᒫᓂᓐᓂᖅ 13,200-ᓂᒃ ᐱᕈᐊᓂᒃᓯᒪᓂᕆᓐᓂ, ᑲᑦᑎᒃᓯᒪᓪᓗᑎᒃ ᐃᒫᒃ ᖃᓂᒋᔭᕆᓐᓂ 22,000 ᑕᒫᓂ 1987-ᒥ.

ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᕆᑦ ᒫᓐᓇᐅᔪᖅ ᐃᓕᔭᐅᓯᒪᕗᑦ ᓄᖑᓕᓛᓕᕐᓂᖁᖅᑕᐅᓂᖅ ᒪᓕᒐᓕᐅᕈᑕᐅᓪᓗᑎᒃ 1-ᒥ ᑲᓇᑕᒥ *ᐆᒪᔪᐃᑦ ᐊᒥᓲᕐᒋᓗᐊᓕᕐᓂᕐᒋᓐᓄᑦ ᒪᓕᒐᖅᑎᒍᑦ* of (ᓱᐅᔭᒃᑯᑦ) ᑐᖓᕕᐅᓪᓗᑎᒃ ᑲᑎᒪᔩᓄᑦ ᖃᓄᐃᓕᖓᓕᕐᓂᕐᒋᓐᓄᑦ ᐊᒥᓲᕐᒋᓗᐊᓕᖅᑐᑦ ᐆᒪᔪᐃᑦ ᑲᓇᑕᒥ (ᑳᓯᐃᒃᑯᑦ ᑲᑎᒪᔨᖁᑎᖏᓐᓄᑦ) 2004-ᒥ ᐆᒪᔪᐃᑦ ᖃᐅᔨᓴᖅᑕᐅᒐᒥᒃ. ᒫᓐᓇᓵᖑᔪᓕᐅᖅᑐᕐᓕ, ᑖᒃᑯᐊ ᐆᒪᔪᐃᑦ ᖃᐅᔨᓴᖅᑕᐅᒃᑲᓐᓂᖁᒥᒃ ᑕᐃᔭᐅᓕᓚᐅᖅᑐᑦ ᐅᓗᕆᐊᓇᖅᑑᓂᖁᖅᑕᐅᓗᑎᒃ ᑕᐃᒃᑯᓄᖓ ᑳᓯᐃᒃᑯᑦ ᑲᑎᒪᔨᖁᑎᖏᓐᓄᑦ ᑕᒫᓂ ᓄᕕᐱᕆ 2015-ᒥ. ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᕆᑦ ᐱᑕᖃᖅᐳᑦ ᓄᓇᕗᒻᒥ ᓄᓇᑦᓯᐊᕐᒥᓗ, ᓇᓂᑐᐃᓐᓇᕐᒧᓂ ᑲᓇᑕᐅᑉ ᖁᑦᑎᒃᑐᒥᒃ ᑭᕿᖅᑕᓗᖕᒋᓐᓂ ᐊᒻᒪᓗ ᐃᓚᖏᓐᓂ ᐊᖏᕐᕌᖏᓐᓂᕐᒥᒃ ᓄᓇᖅᐱᐅᓂᕐᒥ.

ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᕆᑦ ᒫᓐᓇᐅᔪᖅ ᐱᑕᖃᖅᑐᑦ ᓯᑕᒪᓂᒃ ᒪᑯᓇᓂ: 1) ᐃᑳᕼᐆᑉ ᕿᑭᖅᑕᖓᓂ – ᐅᐊᖕᓇᖅᐸᓯᖓᑕ ᐱᖓᖕᓇᖓᓂ ᑭᓪᓕᓂᐅᑉ ᕿᑭᖅᑕᓕᒃᓴᖏᓐᓂ, 2) ᑭᖓᐃᓚᐅᑉ ᑕᓇᐅᕚᓗᐊᑕ ᐱᖓᖕᓇᖓᓂ ᕿᑭᖅᑕᓕᒃᓴᖏᑦ, 3) ᑭᖓᐃᓚᐅᑉ ᑕᓇᐅᕚᓗᐊᑕ ᑲᓇᖕᓇᖓᓂ ᕿᑭᖅᑕᓕᒃᓴᖏᑦ ᐊᒻᒪᓗ, 4) ᑭᖓᐃᓚᐅᑉ ᕿᑭᖅᑕᖓᓂ – ᑰᒐᓇᕘᑉ ᕿᑭᖅᑕᐃᑦ ᐊᑯᓂᖓᓂ – ᐃᑦᑐᐊᖅᑐᕐᕕᐅᑉ ᓄᕗᐊᓂ. ᑕᒪᒃᑯᐊ ᓄᓇᐄᑦ ᑲᑎᖓᓂᖅᑕᐅᕙᖕᒋᑦᑐᑦ ᐊᓯᒥᓄᑦ ᐅᖓᓯᒃᑐᒥ ᑕᐃᒪᐃᓕᖓᓇᓱᒋᔭᐅᓪᓗᑎᓪᓗ ᑕᑯᔭᐅᖃᑦᑕᕐᓂᖏᓐᓂᕐ ᕿᑭᖅᑕᓕᒃᓴᖕᓄᐊᖃᑦᑕᕐᓂᖏᑦ, ᐊᐅᖕᒥᒍᓪᓗ ᐃᓕᑕᕆᔭᐅᔪᓐᓇᕐᓂᖏᑦ ᖃᐅᔨᓴᖅᑕᐅᓯᒪᓂᖏᓐᓄᑦ ᐊᒻᒪᓗ ᖃᐅᔨᒪᔪᓄᑦ ᐃᓱᒪᒋᔭᐅᓂᖏᓐᓄᑦ, ᑕᐃᒃᑯᓄᖓ ᐃᓄᐃᑦ ᖃᐅᔨᒪᔭᑐᖃᖏᓐᓄᑦ, ᐱᐅᓯᑐᖃᒥᒃ ᐊᕙᑎᒥᒃ ᐊᕙᑎᒥᐅᑕᓂᓪᓗ ᖃᐅᔨᒪᔭᐅᔪᓂᒃ, ᓄᓇᓕᖕᓄᑦ ᖃᐅᔨᒪᔭᐅᓂᖏᓐᓂᒃ ᐊᒻᒪᓗ ᖃᐅᔨᓴᖅᑎᓂᒃ ᑐᑭᓯᔭᐅᓯᒪᓂᖏᓐᓂᒃ.

ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᕆᑦ ᐊᖏᔪᐊᓕᖕᒥ ᓄᓇᖅᑲᓇᐊᖅᐳᑦ ᐊᔾᔨᒋᙱᒃᑑᑎᓂᒃ ᓄᓇᒥᐅᑕᖅᑐᓂᒃ. ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᕆᑦ ᓅᖃᑦᑕᕐᒪᑕ ᓄᓇᒃᑯᑦ ᐊᒻᒪᓗ ᑕᓇᐅᑉ ᓯᑯᐊᒍᑦ ᑎᑭᓐᓇᓱᖕᓂᖃᒧᑦ ᐊᔾᔨᒋᙱᑦᑑᑎᐅᔪᓂᒃ ᓇᔪᖅᐸᒃᑕᖏᓐᓄᑦ ᐆᒪᔫᓇᕐᓂᕐᒋᓐᓄᑦ ᐊᑐᖅᐸᒃᑕᖏᓐᓂ. ᓄᕐᓇᓗᐊᖅᑕᕈᓐᓇᕐᓂᕐᒧᑦ ᐊᔪᕈᑕᐅᑲᓂᕈᓐᓇᓇᓪᓗᑎᒃ ᐱᓪᒪᑎᐅᔪᒥᒃ ᓯᓗᓕᕈᓐᓇᕐᓂᖅ ᐅᕝᕙᓗᓐᓅᑦ ᓂᕿᒃᓴᓂᒃ ᓇᓂᓯᔪᓐᓇᐃᓕᖅᑕᕐᓂᕐᒧᑦ, ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᕆᑦ ᐃᓚᖏᓐᓂ ᓇᔪᖅᑕᒥᓂ ᐊᒥᓱᕈᖅᐸᓪᓕᐊᓗᐊᕈᓐᓇᖅᑐᑦ ᐊᒥᓲᓂᕐᓯᒪᓂᖏᓐᓂᒃ. ᓯᓚᐅᑉ ᐊᓯᔾᔨᖅᐸᓪᓕᐊᓂᖓ ᐱᓪᒪᑎᐅᓂᖅᐹᖅ ᐅᓗᕆᐊᓇᖅᑕᐅᕗᖅ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᕆᓄᑦ ᓇᔪᐃᓇᖅᑕᕆᓂᖓᓄᑦ, ᐱᓗᐊᖅᑐᒥᒃ ᐃᑯᒪᓕᐅᕐᓂᕆᔭᐅᓪᓗᓂ ᓯᑯᐊᓘᓐᓇᓱᓕᖅᑐᒃᑯᑦ ᐊᒻᒪᓗ ᐊᒥᓱᕈᖅᐸᓪᓕᐊᑐᐃᓐᓇᖅᑐᓂᒃ ᐊᒻᒪᓗ ᐱᓪᓚᑦᑕᐅᓂᖏᓐᓂᒃ ᓯᑯᐃᑦᑐᖅᐸᓪᓕᐊᓂᖏᓐᓄᑦ. ᓯᓚᐅᑉ ᐊᓯᔾᔨᖅᐸᓪᓕᐊᓂᖓᓄᑦ ᐱᔭᕇᖅᑕᐅᓯᒪᔪᑦ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᕆᑦᑕ ᐊᒥᓲᓂᖏᑦ ᑕᐃᒃᑯᓇᖓᑦ ᑕᓇᐅᑉ ᐃᒪᖅ ᖁᕝᕙᓯᒃᓯᕙᓪᓕᐊᓂᖏᓐᓂᒃ ᐊᒻᒪᓗ ᐊᓯᔾᔨᖅᐸᓪᓕᐊᓂᖏᓐᓄᑦ ᓇᔪᖅᐸᒃᑕᖏᑦ (ᓲᕐᓗ ᐱᕈᖅᑐᖅᓯᒪᔪᓕᕆᓂᖅ), ᐊᒻᒪᓗ ᐊᓯᐊᒍᑦ ᑕᒪᒃᑯᐊ ᐱᔾᔪᑕᐅᓗᐊᕐᓂᖅᑕᕆᓂᖏᑦ ᐊᒃᑐᖅᑕᐅᔫᓇᕐᓂᖏᑦ ᐊᒻᒪᓗ ᓯᑯᓯᐅᑎᑦ ᐊᑐᖅᑕᐅᖃᑦᑕᕐᓂᖏᑦ ᐅᒥᐊᕐᔪᐊᑦ ᑕᓇᐅᑉ ᐃᒪᖓᓂ, ᐱᑕᖃᓕᖅᐸᓪᓕᐊᓂᖏᓐᓄᓪᓗ ᖁᐱᕈᐃᑦ ᕿᒃᑐᓇᐊᑦ/ᐊᓇᖏᑦ ᐊᒻᒪᓗ ᐋᓐᓂᐊᓕᕈᑕᐅᔫᓇᖅᑐᑦ ᐊᒻᒪᓗ ᐊᒥᓱᕈᖅᐸᓪᓕᐊᔫᓇᕐᓂᖏᑦ ᑐᒃᑐᓂᒃ ᓂᕿᒃᓴᖅᓯᐅᕈᓐᓇᖅᑐᑦ, ᐆᒪᔪᐃᓪᓗ ᐱᓂᖅᓴᐅᓇᓱᐊᕈᓐᓇᕐᓂᖏᑦ. ᑕᒪᐃᓐᓂᒃ ᑕᒪᒃᑯᐊ ᓯᓚᐅᑉ ᐊᓯᔾᔨᖅᐸᓪᓕᐊᓂᖓᓄᑦ ᓂᕈᐅᕆᔭᐅᕗᑦ ᐱᑕᖃᓕᖅᐸᓪᓕᐊᔪᓐᓇᕐᓂᖅ ᐊᑯᓐᓂᖓᓂ ᕿᑭᖅᑕᓕᒃᓴᐃᑦ ᐅᕙᓗᓐᓅᑦ ᒥᑭᓪᓕᕆᐊᕈᑕᐅᓪᓗᑎᒃ ᓇᔪᖅᑕᐅᔪᓐᓇᕐᓂᖏᓐᓂ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᕆᓄᑦ.

ᐊᒥᓱᕈᖅᓯᐊᕈᑎᓴᐅᓂᖏᑦ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᕆᑦ ᑲᓇᑕᒥ ᐃᓱᒪᒋᔭᐅᕗᑦ ᐊᔪᕐᓇᖑᔭᖏᓐᓂᖅ, ᑭᓯᐊᓂ ᖃᐅᔨᒪᔭᐅᖏᑦᑐᑦ ᐱᑕᖅᐳᑦ ᑕᒃᑯᓇᖓᑦ ᓯᓚᐅᑉ ᐊᓯᔾᔨᖅᐸᓪᓕᐊᓂᖓᓂᒃ ᐊᒃᓱᐊᖅᑕᐅᔫᓇᖅᑐᑦ ᐊᒥᓱᕈᖅᓯᐊᕈᑎᐅᔫᓇᕐᓂᖏᓐᓄᑦ. ᑕᒃᑯᐊ ᓇᑲᓇᖁᑦᑕᐅᖅᑎᓪᓗᒋᑦ, ᐊᒻᒪᓗ ᐅᔾᔨᖅᑐᑦᑎᐊᖅᐸᒌᖕᓇᐊᖅᓯᓐᓂᕐᒧᑦ ᒪᓕᒃᑕᐅᖅᑕᕈᓂᑦ, ᐅᑯᐊ ᐊᒥᓱᕈᖅᓲᓂᕐᒧᑦ ᖃᓄᐃᓕᐅᕈᑎᒃᓴᐃᑦ ᓴᓇᔭᐅᓯᒪᔪᑦ ᒪᓕᒃᑕᐅᓗᑎᒃ ᐃᓗᓕᖕᒋᓐᓂᑦ 41(1)-ᒥ ᓱᐊᔭᑉ ᐊᒥᓲᕐᒋᓗᐊᓕᕐᓂᕐᒋᓐᓄᑦ ᒪᓕᒐᖕᒋᓐᓂ.

ᐊᒦᓱᓂᕐᒋᓐᓂ ᐊᒻᒪᓗ ᓇᓃᓐᓂᕐᒋᓐᓂᒃ ᖃᐅᔨᔭᐅᓂᖅ ᐅᕙᖓᑦ:

- ᑕᐃᒪᐃᓕᖓᑎᑕᐅᓗᑎᒃ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᕆᑦ ᑕᒪᐃᓐᓂ ᑲᓇᑕᒥ ᐱᑕᖃᕐᓂᕐᒋᓐᓂ ᒫᓐᓇ.
- ᑕᒪᕐᒥᒃ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᐃᑦ ᓯᓚᑕᓅᑦᑐᑦ ᖃᓄᐃᖕᒋᑦᑎᐊᕐᑯᓗᕐᒋᑦ, ᐱᑕᖃᐃᓐᓇᕈᓐᓇᕐᑯᓗᕐᒋᓪᓗ ᓯᕗᓂᒃᓴᒥ ᐃᓅᔫᒥᕐᒥᔪᓄᑦ.
- ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᕆᑦ ᐊᒦᓱᓂᕐᒋᑦ ᐊᓯᔾᔨᖃᑦᑕᕐᒪᑕ ᐱᐅᓯᑐᖃᕐᒥᒍᑦ ᐊᓯᔾᔨᖃᑦᑕᕐᓂᕐᒋᓐᓂᒃ ᒪᓕᑐᐃᓐᓇᖅᑐᓂᒃ.
- ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᕆᑦ ᓇᒧᖓᐅᔫᓇᖃᑦᑕᕐᓗᑎᒃ ᓇᓂᑐᐃᓐᓇᖅ ᓄᓇᒥ ᐊᒻᒪᓗ ᑕᓇᐅᕐᒥ ᓱᑯᒃᑯᑦ (ᑕᒫᓂ ᐊᑯᓐᓂᕐᒋᓐᓂᓗ ᕿᑭᖅᑕᓕᒃᓴᐃᑦ) ᐱᐅᓯᑐᖃᕐᒥᒍᑦ ᐅᔾᔨᖅᑐᑦᑎᐊᕈᒪᓪᓗᑎᒃ (ᐊᔭᖅᑎᑕᐅᑕᐃᓕᒪᓂᕐᒋᑦ ᓇᒧᖓᐅᖃᑕᐅᓇᕐᓂᕐᒋᓐᓂᒃ/ᓅᑎᑕᐅᔭᕆᐊᖃᕐᓂᕐᓪᓗᑎᒃ) ᓇᔪᖅᐸᒃᑕᕐᒋᓐᓄᑦ ᐊᒻᒪᓗ ᓇᒧᖓᐅᖃᑦᑕᕈᓐᓇᕐᓂᕐᒋᓐᓄᑦ ᓱᓚᓗᒃᔪᐊᖅᑐᐊᓘᓕᕈᓐᓇᕐᓂᕐᒧᑦ.

- ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ ᓄᓇᓖᑦ ᓯᓚᑖᓂ ᐊᒥᓵᓂᖏᑦ ᓈᒻᒪᖁᓪᓗᒋᑦ ᑐᒃᑐᓯᐅᕐᕕᐅᔪᓇᖅᑕᕐᓂᐊᕐᒪᑕ ᐃᓄᖕᓄᑦ-ᐃᓄᕕᐊᓗᖕᓄᓪᓗ ᒪᓕᒃᑐᓂᒃ ᐊᒥᓲᓂᖏᓐᓂᒃ ᐊᔾᔨᖃᑕᕐᓂᖏᓐᓂᒃ.

ᐅᑯᐊ ᐊᒥᓲᕈᖅᔫᓂᕐᒧᑦ ᖃᓄᐃᓕᐅᕈᑎᒃᓴᓂᒃ ᐱᑕᖃᕈᑕᐅᕗᑦ ᓂᕈᑐᔪᓂᒃ ᖃᓄᐃᓕᐅᕈᑎᒃᓴᓂᒃ ᐊᒻᒪᓗ ᑕᒪᐃᓐᓂᒃ ᖃᓄᐃᓕᖓᔪᓐᓇᕐᓂᖏᓐᓂᒃ ᑎᑭᐅᑎᓂᐊᕐᒪᑕ ᐊᒦᓲᓂᖏᑦ ᐊᒻᒪᓗ ᓇᓅᓐᓂᖏᑦ ᖃᐅᔮᔪᓐᓇᕐᓂᖅ ᐊᒻᒪᓗ ᖃᓄᐃᓕᐅᕈᑕᐅᔪᓐᓇᕐᓂᖏᓐᓂᒃ ᐅᓗᕆᐊᓇᕈᑕᐅᔪᑦ ᐱᑕᖃᕈᓐᓇᕐᓂᖏᓐᓂᒃ ᐊᒻᒪᓗ ᐊᒥᓲᕈᖅᓯᐊᕆᔭᐅᔪᓐᓇᕐᓂᖏᑦ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ, ᐱᓕᕆᐊᒃᓴᓄᑦ ᐸᕐᓇᐅᑎᓕᐊᓂᒃ.

ᑕᐃᒃᑯᐊ ᑭᓯᐊᓂ ᑕᕆᐅᒃᑯᑦ ᓯᑯᒃᑯᑦ ᐃᑳᕆᐊᖅᑐᕐᕕᒋᕚᒃᑕᖏᑦ ᐃᓕᑕᕆᔭᐅᓯᒪᑲᓚᐅᖅᐸᑦ ᐱᑕᖃᕆᐊᖃᒻᒪᕆᖕᓂᖏᓐᓄᑦ ᓇᔪᕆᔭᐅᕙᖕᓂᖏᑦ. ᑐᑭᓕᐅᖅᑕᐅᓯᒪᙱᑕ ᑕᐃᒃᑯᐊ ᐱᑕᖃᕆᐊᖃᒻᒪᕆᖕᓂᖏᑦ ᓇᒻᒪᖖᓂᐊᕈᑎᒃ ᐊᖑᒪᔪᓐᓇᕐᓂᖅ ᐊᒦᓲᓂᖏᓐᓂ ᐊᒻᒪᓗ ᓇᓅᓐᓂᖏᓐᓂ ᖃᐅᔨᔭᐅᔪᓐᓇᕐᓂᖅ. ᖃᐅᔨᓴᖅᑕᐅᓯᒪᔪᑦ ᐃᓚᒋᔭᐅᒋᕗᑦ ᑐᑭᓯᓂᐊᕐᕕᐅᔪᓐᓇᕐᓂᖅ ᐱᔭᕇᖅᑕᐅᖁᓪᓗᒋᑦ ᐃᓕᑕᕆᔭᐅᔪᓐᓇᕐᓂᖏᑦ ᓄᓇᐃᑦ ᐱᑕᖃᕆᐊᖃᒻᒪᕆᖕᓂᖏᑦ ᓇᔪᖃᕆᔭᐅᔪᒃᓴᐃᑦ

ᒪᓕᒃᑕᐅᓗᑎᒃ ᐆᒪᔪᐃᑦ ᐊᒥᓲᖏᓗᐊᓕᕐᓂᖏᓐᓄᑦ ᒪᓕᒐᐃᑦ, ᒥᓂᔅᑕᖓᑦ ᒥᕐᖑᐃᖅᓯᕐᕕᓕᕆᔨᒃᑯᑦ ᑲᓇᑕᒥ ᐱᔭᕇᕐᓂᐊᖅᑐᑦ ᐊᑕᐅᓯᕐᒥᒃ ᐅᖓᑖᓂᓪᓗᓐᓃᑦ ᐱᓕᕆᐊᒃᓴᓄᑦ ᐸᕐᓇᐅᑎᓕᐊᓂ ᐊᑐᕐᓗᑎᒃ ᑖᒃᑯᓂᖓ ᐊᒥᓲᕈᖅᔫᓂᕐᒧᑦ ᖃᓄᐃᓕᐅᕈᑎᒃᓴᓂᒃ. ᑕᒪᒃᑯᐊ ᐸᕐᓇᐅᑎᒃᓴᐃᑦ ᐱᑕᖃᕐᓂᐊᖅᑐᑦ ᓇᓗᓇᐃᖅᑕᐅᓯᒪᑦᑎᐊᖅᑐᓂᒃ ᖃᐅᔨᒪᔾᔪᑎᒃᓴᖃᕐᓂᖅ ᐊᒥᓲᕈᖅᔫᐊᕆᔭᐅᓂᖏᓐᓄᑦ ᖃᓄᐃᓕᐅᕈᑕᐅᓂᐊᖅᑐᓂ ᐃᓕᔭᐅᓂᐊᕐᒥᔪᓂ ᑕᑯᔭᒃᓴᓂ ᐆᒪᔪᐃᑦ ᐊᒥᓲᖏᓗᐊᓕᕐᓂᖏᓐᓄᑦ ᑎᑎᖃᖃᕐᕕᖏᓐᓄᑦ ᐃᓗᐊᓂ ᑕᓪᓕᒪᐃᑦ 5 ᐊᕐᕌᒍᐃᑦ ᐃᓗᐊᓂ ᓴᕿᑎᑕᐅᓚᐅᕐᓗᑎᒃ ᐅᑯᐊ ᐊᒥᓲᕈᖅᔫᓂᕐᒧᑦ ᖃᓄᐃᓕᐅᕈᑎᒃᓴᐃᑦ.

ᐊᔪᕐᓇᖏᓐᓂᖏᓐ ᐊᒥᓱᕈᖅᔫᓐᓂᕐᒧᑦ ᑐᑭᓕᐅᖅᑕᐅᓂᖏᑦ

ᑐᓐᖓᕙᐅᓪᓗᑎᒃ ᓯᑕᒪᐃᑦ ᒪᓕᒋᐊᓖᑦ ᐊᕙᑎᓕᕆᔨᕐᔪᐊᒃᑯᓐᓄᑦ ᓯᓚᐅᓪᓗ ᐊᓯᔾᔨᖅᐸᓪᓕᐊᓂᖓᓄᑦ ᑲᓇᑕᒥ ᐊᑐᖅᐸᒃᑕᖏᑦ ᓴᕿᑎᑎᓂᕐᒧᑦ ᐊᒥᓱᕈᖅᓯᔪᓐᓇᕐᓂᕐᒧᑦ ᐊᔪᕐᓇᔾᔭᖏᓐᒪᑕ, ᐃᓚᖏᓐᓂᒃ ᖃᐅᔨᒪᔭᐅᔪᖃᖏᓐᒪᑕ ᐊᔪᕐᓇᕋᔭᖏᓐᒪᖔᑦ ᐊᒥᓱᕈᖅᓯᐊᓇᔭᐅᔪᓐᓇᕐᓂᖏᓐᓂ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ. ᐊᑐᓇᐊᖃᕐᓂᕐᒧᑦ ᐅᔾᔨᖅᑐᖅᐸᕇᑦᑎᐊᓇᐊᖃᕐᓂᕐᒥᒃ ᑐᓐᖓᕕᐅᕙᒃᑐᑦ, ᐅᑯᐊ ᐊᒥᓱᕈᖅᔫᓂᕐᒧᑦ ᖃᓄᐃᓕᐅᕈᑎᒃᓴᓂᒃ ᓴᓇᔭᐅᓯᒪᔪᑦ ᒪᓕᒃᑕᐅᓪᓗᑎᒃ ᐃᓗᓕᖓᑦ 41(1) ᓯᐊᔭᑉ ᐊᒥᓲᖏᓗᐊᓕᕐᓂᖏᓐᓄᑦ ᐆᒪᔪᐃᑦ ᒪᓕᒐᖏᑦ, ᑲᔪᓯᑎᑕᐅᓇᔭᖅᑐᓂ ᑐᑭᓯᓇᖅᓯᒃᐸᑦ ᐱᓕᕆᐊᖑᔪᓐᓇᕐᓂᖏᓐᓂ ᐊᒻᒪᓗ ᐆᒪᔪᓕᕆᔪᓐᓇᕐᓂᕐᒥᒃ ᐊᔪᕐᓇᕋᔭᖏᓐᒪᖔᑦ. ᐅᑯᐊ ᐊᒥᓱᕈᖅᔫᓂᕐᒧᑦ ᖃᓄᐃᓕᐅᕈᑎᒃᓴᓂᒃ ᖃᓄᐃᓕᐅᕈᑕᐅᓂᐊᖅᑐᑦ ᓇᓗᓇᕐᓂᖏᓐᓂᒃ ᖃᐅᔨᒪᔭᐅᓂᖏᑦ ᑲᔪᓯᑎᑕᐅᔪᓐᓇᕐᒪᖔᑖ ᐊᒥᓱᕈᖅᔫᓂᕐᒧᑦ.

1. ᐆᒪᔪᐃᑦ ᓱᓕ ᕿᑐᕐᖏᐅᕈᓐᓇᓂᖏᓐᓂᒃ ᖃᐅᔨᒪᔭᐅᓂᖏᑦ ᐊᒥᓱᕈᖅᐸᓪᓕᐊᔪᓐᓇᓂᖏᓐᓄᑦ ᐊᑐᐃᓐᓇᐅᕗᑦ ᒫᓇᐅᔪᖅ ᐅᕝᕙᓗᓐᓃᑦ ᐊᑐᐃᓐᓇᐅᓂᐊᖅᑐᑦ ᒫᓇᓵᖑᒍᓂᐊᖅᑐᖅ ᓯᕗᓂᒃᓴᒥ ᐱᑕᖃᐃᓐᓇᕈᓐᓇᖁᓪᓗᒋᑦ ᑕᒪᒃᑯᐊ ᐅᕝᕙᓗᓐᓃᑦ ᐱᑕᖃᕐᓂᖏᓐᓂᑦ ᐱᐅᓯᕆᐊᕈᑕᐅᔪᓐᓇᖅᑐᑦ.
ᐋ. ᒫᓇᐅᓕᖅᑐᖅ ᐱᐅᓂᐹᑦ ᓇᓚᐅᑖᕈᑎᖏᑦ ᐊᒥᓱᓂᖏᓐᓂᒃ ᒪᓕᒃᑕᐅᓪᓗᑎᒃ ᑖᒥᓂ ᓱᓕ ᐱᑕᖃᒪᑕ 13,200-ᖏᓐᓂ ᐱᕈᐊᓂᒃᓯᒪᔪᑦ ᖁᑦᑎᒃᑐᒥ ᑐᒃᑐᖏᑦ ᑕᒪᐃᓐᓂ ᓄᓇᑦᓯᐊᕐᒥ, ᓄᓇᕗᒻᒥᓗ. ᐆᒪᔪᐃᑦ ᑕᒪᒃᑯᐊ ᕿᑐᕐᖏᐅᖅᐸᓪᓕᐊᔪᓇᕐᒪᑕ ᐊᑐᐃᓐᓇᐅᓗᑎᓪᓗ ᐊᒥᓱᕈᓐᓇᖅᑲᓂᕈᓇᕐᓂᖅ, ᑕᐃᒫᒃ ᐃᖕᒥᓂᒃ ᐱᕈᖅᐸᓕᐊᔪᓇᕐᒪᑕ ᐊᒻᒪᓗ ᐱᑕᖃᐃᓐᓇᕈᓇᕐᓂᐊᕐᒪᑕ. ᒫᓇᐅᔪᖅ ᓇᓗᓇᐃᒃᑯᑕᖅᑐᑦ ᐃᑲᔪᖅᓱᐃᔪᓂᒃ ᑐᑭᓕᐅᕈᑕᐅᓂᐊᖅᑐᓂᒃ ᐊᒥᓱᕈᖅᓯᐊᓇᔭᐅᓂᖏᓐᓄᑦ ᑕᒪᕐᒥᒃ ᑐᒃᑐᖏᑦ ᐃᖕᒥᓂᒃ ᑎᑎᒥᑯᑦ ᐊᒥᓱᖅᐸᓪᓕᐊᔪᓇᕐᓂᖏᓐᓂ ᐊᔪᖏᓐᓂᖃᕐᓂᖏᓐᓂ.

2. ᓈᒪᔪᓂᒃ ᐱᐅᔪᓂᒃ ᓇᔪᕙᖃᕐᓇᖅᐳᑦ ᐊᑐᐃᓐᓇᐅᔪᓂᒃ ᐃᑲᔪᖅᑎᒃᓴᓂᒃ ᐆᒪᔪᓄᑦ ᐊᑐᐃᓐᓇᐅᔪᓐᓇᖅᑐᓪᓗᓂᑦ ᓇᔪᕙᕆᔭᐅᔭᓐᓇᖅᑐᑦ ᐊᐅᓚᑕᐅᓂᖏᓐᓂ ᐅᕝᕙᓗᓐᓃᑦ ᐋᕿᒋᐊᖅᑕᐅᑎᐊᕈᓇᕐᓂᖏᓐᓂ?
ᐋ. ᒫᓇᐅᔪᖅ ᑕᒪᕐᒥ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ ᓈᒻᒪᔪᓂᒃ ᓇᔪᕙᒃᐳᑦ ᐊᕕᒃᑐᖅᓯᒪᓂᐅᔪᓂ. ᓯᕗᓂᒃᓴᒥ, ᑕᓇᐅᕐᒥ ᓯᑯᐃᔭᖅᐸᓪᓕᐊᓂᕐᒧᑦ ᓇᔪᕈᓐᓇᐃᓕᔪᓐᓇᖅᑕᕐᓂᖏᑦ ᐊᒻᒪᓗ ᑕᓇᐅᕐᒥ ᐃᒪᖅ ᖁᕝᕙᓯᒃᓯᕙᓪᓕᐊᑐᐃᓐᓇᕈᓂ ᓯᓚᐅᑉ ᐊᓯᔾᔨᖅᐸᓪᓕᐊᓂᖓᓄᑦ ᒥᑭᓪᓕᕚᓕᕈᑕᐅᔪᓐᓇᖅᑐᑦ ᓇᔪᖅᑕᐅᖃᑕᐅᓇᕐᓂᖏᓐᓂ ᓅᑦᑐᓇᖃᑕᓇᐊᖃᕐᓂᖏᓐᓂ ᕿᑭᖅᑕᓗᒃᓴᐅᔪᓂᒃ.

3. ᐱᒻᒪᕆᐅᓂᖏᑦ ᑕᒪᒃᑯᐊ ᓇᔪᖅᐸᒃᑕᖏᓐᓄᑦ ᐅᓗᕆᐊᓇᕈᑕᐅᔪᑦ (ᑕᐃᑯᓐᖓᓗ ᑲᓇᑕᐅᑉ ᓯᓚᑖᓃᑦᑐᓄᑦ) ᐱᑕᖃᕐᓃᖅᑎᑕᐅᒋᐊᖅᓴᖅᑐᑦ ᐅᕝᕙᓗᓐᓃᑦ ᐊᒃᑐᓯᓗᐊᖅᑕᐃᓕᑎᑕᐅᒥᐊᕐᓗᑎᒃ.
ᖃᐅᔨᒪᔭᐅᖏᑦᑐᑦ. ᐱᒻᒪᕆᐅᓂᖏᑦ ᐅᓗᕆᐊᓇᕈᑕᐅᔪᑦ ᑐᒃᑐᖃᕕᖕᓂ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᓐᓂᒃ ᒫᓇᐅᔪᖅ ᑕᐃᒪᐃᒪᑕ ᓯᓚᐅᑉ ᐊᓯᔾᔨᖅᐸᓪᓕᐊᓂᖓᓄᑦ. ᐊᓯᔾᔨᖅᐸᓪᓕᐊᓂᖏᑦ ᓯᓚᐅᑉ ᖃᓄᐃᓐᖓᓕᕙᓕᕐᓂᖓ, ᐱᓗᐊᖅᑐᒥᒃ ᓯᑯᖃᑦᑕᕐᓂᖓᓂᒃ, ᓇᔪᕙᑦᑐᓂᖏᓐᓂ ᑲᔪᓯᕙᓪᓕᐊᓕᕐᒪᑕ ᐅᑭᐅᖅᑕᖅᑐᒥ; ᑭᓯᐊᓂᓕᑕᐅᕗᖅ, ᖃᓄᐃᓐᖓᓕᕈᑕᐅᔭᕆᐊᖏᑦ ᑕᒪᒃᑯᐊ ᐊᓯᔾᔨᖅᐸᓕᐊᔪᑦ ᖁᑦᑎᒃᑐᒥ ᑐᒃᑐᖏᑦ ᑐᑭᓯᒪᐅᔭᐅᑦᑎᐊᖏᒪᑕ, ᓇᓚᐅᑖᖅᑕᐅᓴᕋᐃᖏᑦᓯᑎᓪᓗ, ᑕᐃᒪᐃᓂᖓᓄᑦ ᖃᐅᔨᒪᔭᐅᖏᓐᖏᑦ ᑕᒪᒃᑯᐊ ᐊᒃᑐᖅᑕᐅᔭᕐᓂᖏᑦ ᓄᖅᑎᑕᐅᔭᕐᒪᖔᑕᓗᓂ ᐅᕝᕙᓗᓐᓃᑦ ᐊᒃᑐᐃᖏᓐᓂᖅᓴᐅᓕᕆᐊᕐᒪᖔᑕ.

4. ᐊᒥᓱᕈᖅᔫᕐᓂᑦᒧ ᖃᓄᐃᓕᐅᕈᑎᒃᓴᐃᑦ ᐊᑐᕐᓂᐊᖅᑐᑦ ᑎᑭᐅᑎᔪᒪᓂᕐᒧᑦ ᐱᑕᖃᐃᓐᓇᕈᓐᓇᓇᐊᖅᑕᕐᓂᖏᓐᓄᑦ ᐊᒻᒪᓗ ᓇᓃᓂᖏᓐᓂ ᑐᕌᒐᖓᓂᐊᖅᑐᓂᒃ ᐅᕝᕙᓗᓐᓃᑦ ᓴᓇᔭᐅᓯᒪᓗᑎᒃ ᐱᕕᒃᓴᓂᒃᓯᒪᑦᑎᐊᓇᐊᖅᑕᖅᑐᓂᒃ ᒪᓕᒡᓗᑎᒃ.
ᐋ. ᐊᒥᓲᓂᖏᑦ ᐊᒻᒪᓗ ᓇᓃᓐᓂᖏᑦ ᑎᑭᑕᐅᔪᒪᓂᖏᑦ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᓕᕆᓂᕐᒧᑦ ᑲᒪᒋᔭᐅᔭᓐᓇᖅᐳᑦ ᐊᑐᕐᓗᑎᒃ ᒫᓇᐅᔪᖅ ᐊᒥᓱᕈᖅᓯᐊᓇᔭᐅᓂᖏᓪᓗᑦ ᖃᓄᐃᓕᐅᕈᑎᒃᓴᐃᑦ, ᐱᓗᐊᖅᑐᒥᒃ ᐊᑐᕐᓗᑎᒃ ᐊᒃᑐᖅᑕᐅᓂᕐᓗᕇᒃᑕᐅᔭᕆᐊᕐᓂᐊᖅᑐᓂᒃ (ᓲᕐᓗ ᓄᓇᐃᑦ ᐱᑕᖃᓇᐊᖅᑕᕐᓂᖏᓐᓄᑦ ᐸᕐᓇᐅᑕᐅᓗᑎᒃ), ᓴᐳᓐᓂᐊᖅᑕᐅᓗᑎᒃ ᐊᒻᒪᓗ ᐊᐅᓚᑕᐅᓗᑎᒃ ᑕᒪᒃᑯᐊ ᓇᔪᓚᕆᕙᒃᑕᖏᑦ ᐊᒻᒪᓗ ᐅᖓᓯᒃᑐᒧᑦ ᓇᐅᒃᑯᐊᕝᕙᒃᑕᖏᑦ, ᓇᐅᑦᑎᖅᑐᖅᑕᐅᑎᐊᕈᒪᓪᓗᑎᓪᓗ ᐊᑐᖅᑎᑕᐅᓯᒪᔪᑦ). ᑭᓯᐊᓂᓕ, ᐊᑯᓂᐅᓂᐊᖅᑐᒧᑦ ᐊᒻᒪᓗ ᓂᕆᐅᒋᔭᐅᖏᓐᓇᖅᑐᑦ ᓴᕿᑦᑐᓇᖅᑕᕐᓂᖓᓄᑦ, ᐃᓚᖏᑦ ᑐᑕᐃᑦ ᐊᒥᓱᖅᐸᓪᓕᐊᒍᑐᐃᓇᕆᐊᖃᖅᐳᑦ ᐊᔪᕐᓇᕈᓇᕐᓂᖓᓄᑦ (ᓲᕐ ᓯᓚᐅᑉ ᐊᓯᔾᔨᖅᐸᓪᓕᐊᓂᖓᓄᑦ ᐊᒃᑐᖅᑕᐅᓯᒪᓕᔪᓐᓇᖅᑐᓂᖏᓐᓂ ᐊᐅᓚᑕᐅᔪᓐᓇᖅᑐᓂᖏᑦᑎᐊᖅᑯᑎᒃ), ᑕᒪᐃᓐᓂᒃ ᐊᒥᓱᕈᖅᓯᐊᓇᔭᐅᓂᖏᓐᓄᑦ ᐊᒻᒪᓗ ᓇᓃᖅᑕᕐᓂᖏᓐᓄᑦ ᑎᑭᑕᐅᔪᓐᓇᐃᓕᔪᓐᓇᖅᓯᒪᔪᑦ.

ᑐᑭᖏᑦ ᑎᑎᑲᐃᑦ ᐊᒻᒪᓗ ᓇᐃᓈᖅᑕᐅᓯᒪᓂᖏᑦ

ᖃᐅᔨᒪᔭᐅᓕ: ᑐᑭᖏᑦ ᐊᑖᓂ ᐅᖃᐅᓯᐅᔪᑦ ᐊᑐᖅᑕᐅᕙᑦ ᒪᓕᒃᑐᓂᒃ ᑕᒡᕙᓂ ᑐᑭᖃᖅᑕᐅᓂᖏᓐᓂ ᑎᑎᖃᓂ.

ᑕᐅᑐᖏᓐᓂ ᖃᓄᐃᓕᖓᓂᖏᑦ	ᑎᒥᒃᑯᑦ ᐆᒪᔪᐃᑦ ᐃᓕᑕᕐᓇᕈᑎᖏᑦ ᐊᒻᒪᓗ ᓇᓃᖃᑕᕐᓂᖏᓐᓂᒃ ᓇᓗᓇᐃᒃᑯᑕᐃᑦ (ᓴᕐᓗ ᖃᓄᐃᑦᑐᓂᒃ ᓂᑭᒃᓴᖃᓰᖑᓂᖏᓐᓂᒃ ᐱᕈᖅᓯᒪᔪᓂᒃ, ᖃᓄᖅ ᐳᖅᑐᑎᒋᓂᖏᓐᓂᒃ, ᓄᓇᒥ ᓇᓃᖃᑕᕐᓂᖏᓐᓂ) ᑐᑭᓕᐅᕈᑕᐅᕙᓪᓚᑕ ᐃᓂᒃᓴᖃᑦᑎᐊᕆᐊᖃᕐᓂᖏᓐᓄᑦ ᓇᔪᕐᕕᒃᓴᖏᓐᓂ ᐆᒪᐃᓐᓇᕈᓐᓇᕐᓂᐊᕐᓚᑕ (ᐱᑕᖃᕆᐊᓕᒻᒪᕆᓂᑦ ᓇᔪᒃᓴᖏᓐᓂ).
ᑳᓱᐃᒃᑯᑦ	ᑳᓱᐃᒃᑯᑦ ᐆᒪᔪᐃᑦ ᐊᒥᓱᖏᑦᑐᐊᓕᕐᓂᖏᓐᓄᑦ ᑲᑎᒪᔨᕋᖅᑏᑦ. ᑲᑎᒪᔨᕋᖅᑏᑦ ᖃᓄᐃᓕᖓᓕᕐᓂᖏᓐᓄᑦ ᐅᓗᕆᐊᓇᖅᑐᒦᓕᕐᓂᖏᑦ ᐆᒪᔪᐃᑦ ᑲᓇᑕᒥ
ᐱᑕᖃᕆᐊᓕᒻᒪᕆᑦ ᓇᔪᓚᕆᔭᐅᔪᓇᕐᓂᖏᑦ	ᓇᔪᖅᑕᐅᔪᓇᕐᓂᖏᑦ ᑕᒪᒃᑯᐊ ᐱᑕᖃᕆᐊᖃᒻᒪᕆᒃᐳᑦ ᐆᒪᔪᖃᐃᓐᓇᕈᑕᐅᓂᐊᕐᓚᑕ ᐊᒥᓱᖅᐸᓪᓕᐊᕝᕕᐅᔪᓇᕐᓂᐊᕐᓚᑕᓗᓐᓂᑦ ᒪᓕᒐᖅᑎᒍᑦ ᐊᒥᔅᓯᓕᖏᓗᓕᐊᕐᓂᕋᖅᑕᐅᓂᖏᓐᓂ ᐆᒪᔪᐃᑦ ᐃᓕᑕᕆᔭᐅᓯᒪᓗᑎᒃ ᑕᐃᒃᑯᐊᓗ ᓇᔪᕈᓐᓇᕆᐊᖃᕐᑕᖏᓐᓂᒃ ᐃᓕᑕᕆᔭᐅᔪᑦ ᐱᑕᖃᕆᐊᓕᒻᒪᕆᑦ ᐅᖃᐅᓯᐅᓯᒪᓪᓗᑎᒃ ᐊᒥᓱᖅᓯᐊᕆᔭᐅᓂᖏᓐᓄᑦ ᖃᓄᐃᓕᐅᕈᑎᒃᓴᓂᒃ ᑎᑎᕋᖅᓯᒪᓂᖏᓐᓂ ᐅᖰᓗᓐᓃᑦ ᑎᑎᕋᖅᓯᒪᓂᖏᓐᓂ ᐱᓕᕆᐊᒃᓴᐅᓂᐊᖅᑐᓄᑦ ᐸᕐᓇᐅᑎᒃᓴᐅᔪᓂ ᑐᕌᖓᔪᓂᒃ ᑕᒪᒃᑯᓄᖓ ᐆᒪᔪᕐᓄᑦ.
CMP	ᓄᓇᕐᔪᐊᕐᒥ ᓴᐳᓂᐊᖅᑏᑦ ᐃᓚᒌᒃᑐᑦ
CWS	ᑳᓇᑕᒥ ᐆᒪᔪᓕᕆᓂᕐᒥᒃ ᐱᔨᑦᑎᕋᐅᑎᑦ
ᐊᕙᑎᓕᕆᔨᕐᔪᐊᒃᑯᑦ	ᐊᕙᑎᓕᕆᔨᕐᔪᐊᒃᑯᑦ ᑲᓇᑕᒥ
GN	ᓄᓇᕗᑦ ᒐᕙᒪᒃᑯᖏᑦ
GNWT	ᓄᓇᑦᓯᐊᑉ ᒐᕙᒪᒃᑯᖏᑦ
ᐊᖑᓇᓱᒃᑏᑦ ᑲᑎᒪᔨᕋᖏᑦ	ᐊᖑᓇᓱᒃᑏᑦ ᑲᑎᒪᔨᕋᖏᑦ
ᐊᖑᓇᓱᒃᑎᒃᑯᑦ	ᐊᖑᓇᓱᒃᑏᑦ ᖃᑐᔾᔨᖃᑎᒌᖏᑦ
ᐃᓄᐃᑦ ᖃᐅᔨᒪᔾᔪᑕᖏᑦ	ᐃᓄᐃᑦ ᖃᐅᔨᒪᔾᔪᑕᖏᑦ, ᐃᓄᐃᑦ ᓱᓕᔪᖅᑕᔾᔪᖏᑦ, ᐱᑦᑎᐊᕐᓴᒍᑎᖏᑦ ᐊᒻᒪᓗ ᐱᒻᒪᕆᐅᑎᑉᐸᒃᑕᖏᑦ ᐊᒻᒪᓗ ᐱᐅᓯᑐᖃᕐᓂᒃ ᖃᐅᔨᒪᔾᔪᓂᖏᑦ, ᐊᔪᖏᓐᓂᖏᓪᓗ ᐊᒻᒪᓗ ᖃᓄᐃᓕᖓᕐᑯᔾᔪᐅᕙᖕᓂᖏᓐᓂᑦ ᑕᒪᒃᑯᓂᖓ.
IUCN	ᓄᓇᕐᔪᐊᕐᒥ ᑕᐱᕇᒃᑯᑦ ᓴᐳᓂᐊᖅᑕᐅᓂᖏᓐᓂᑦ ᐱᐅᓯᑐᖃᐃᑦ
ᕿᑎᒥᐅᑦ ᐊᕕᒃᑐᖅᓯᒪᓂᖏᓐᓂ ᐊᖑᓇᓱᒃᑎᓕᒫᑦ ᑲᑎᒪᔨᖏᑦ	ᕿᑎᖅᒥᐅᑦ ᐊᕕᒃᑐᖅᓯᒪᓂᖏᓐᓂ ᐊᖑᓇᓱᒃᑎᓕᒫᑦ ᑲᑎᒪᔨᖏᑦ. ᐃᓚᒋᔭᐅᔪᑦ ᐱᖓᓱᓄᑦ ᐊᕕᒃᑐᖅᓯᒪᓂᐅᔪᓂ ᐊᖑᓇᓱᒃᑎᓕᒫᑦ ᑲᑎᒪᔨᖏᓐᓄᑦ ᓄᓇᕗᒻᒥ.
ᓄᓇᓖᑦ ᓯᓚᑖᓂ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᐃᑦ	ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ ᓇᓃᓰᖑᓂᖏᑦ, ᐊᓯᖏᓐᓂᒃ ᑐᒃᑐᓂᒃ. ᓄᓇᓖᑦ ᓯᓚᑖᓃᑦᑐᑦ ᑐᒃᑐᓕᕆᓂᖅ ᑲᒪᒋᔭᐅᕙᓪᓚᑦ ᓄᓇᖏᓐᓂ ᒪᓕᒃᑐᓂᒃ ᓇᓂ ᓄᕐᕆᕙᖕᓂᖏᓐᓂᒃ ᐊᒻᒪᓗ ᑐᖁᕙᖕᓂᖏᓐᓂᒃ, ᒪᓕᒃᑕᐅᖏᖖᒍᖅᓱᑎᒃ ᓇᒧᖓᐅᖃᑕᕐᓂᖏᑦ ᐅᕝᕙᓗᓐᓃᑦ ᑲᑎᓯᕙᓂᖏᑦ ᐃᓚᓯᕙᖕᓂᖏᓐᓂᓗᓐᓃᑦ ᐊᓯᖏᓐᓂᒃ ᑐᒃᑐᓂᒃ. ᓄᓇᓕᑦ ᓯᓚᑖᓐᓂᖏᑦ ᐃᖏᒨᖓᕙᖕᒪᑕ, ᓄᓇᖃᑎᖃᖅᑐᐃᑦᑑᓪᓗᑎᓪᓗ ᐊᓯᖏᓐᓂᒃ ᑐᒃᑐᓂᒃ ᐊᔾᔨᒋᖏᑕᖏᓐᓂᒃ.
NT	ᓄᓇᑦᓯᐊᖅ
NU	ᓄᓇᕗᑦ
NWMB	ᓄᓇᕗᒻᒥ ᐆᒪᔪᓕᕆᔨᕐᔪᐊᑯᑦ ᑲᑎᒪᔨᖏᑦ

PCA	ᒥᕐᙳᐃᖅᓯᕐᕕᓕᕆᔩᒃᑯᑦ ᑲᓇᑕᒥ
ᕿᑭᖅᑖᓗᖕᒥ ᐊᙳᓇᓱᒃᑎᓕᒫᑦ ᑲᑎᒪᔨᖏᑦ	ᐃᓚᒋᔭᐅᔪᑦ ᐱᖓᓱᓄᑦ ᐊᕕᒃᑐᖅᓯᒪᓂᐅᔪᓂ ᐊᙳᓇᓱᒃᑎᓕᒪᑦ ᑲᑎᒪᔩᖏᓐᓄᑦ ᓄᓇᕗᒻᒥ.
ᐊᕕᒃᑐᖅᓯᒪᔪᓂ ᐊᙳᓇᓱᒃᑎᓕᒫᑦ ᑎᒥᕐᑯᑎᖏᑦ	ᓄᓇᕗᑦ ᐊᕕᒃᑐᖅᓯᒪᓂᖏᓐᓂ ᐆᒪᔪᓕᕆᓂᕐᒧᑦ ᑎᒥᕐᑯᑎᒋᔭᐅᔪᑦ. ᐱᖓᓲᖓᑕ ᐊᕕᒃᑐᖅᓯᒪᓂᖏᓐᓂ ᐆᒪᔪᓕᕆᓂᕐᒧᑦ ᑎᒥᕐᑯᑎᒋᔭᐅᔪᑦ ᐊᐅᓚᑦᑎᔨᐅᔪᑦ ᐊᙳᓇᓱᒃᑐᓕᕆᓂᕐᒥᑦ ᑕᒪᒃᑯᓄᖓ ᐊᙳᓇᓱᒃᑏᑦ ᑲᑐᔾᔨᖃᑎᒌᖏᓐᓂᒃ ᐊᕕᒃᑐᖅᓯᒪᓂᖏᓐᓂ ᐊᑐᓂ ᓄᓇᕗᒻᒥ.
ᓱᐊᔭᑉ ᒪᓕᖓᐃᑦ	*ᐆᒪᔪᐃᑦ ᐊᒥᓲᖏᓗᐊᓕᕐᓂᖏᓐᓄᑦ ᒪᓕᖓᐃᑦ (ᖃᓪᓗᓈᑎᑐᑦ ᓇᐃᓈᕐᓗᒋᑦ ᓱᐊᔭᑉ)*
ᖃᓄᐃᓕᐅᕈᑎᒃᓴᐃᑦ ᐊᕙᑎᓕᕆᓂᕐᒥᒃ ᑐᑭᓯᓂᐊᕈᑎᖃᕐᓂᖅ	ᖃᓄᐃᓕᐅᕈᑎᒃᓴᐃᑦ ᐊᕙᑎᓕᕆᓂᕐᒥᒃ ᑐᑭᓯᓂᐊᕈᑎᖃᕐᓂᖅ
ᓄᓇᓖᑦ ᓯᓚᑖᓃᑦᑐᑦ ᐆᒪᔪᐃᑦ ᖃᓄᐃᖏᑦᑐᑦ	ᓄᓇᓖᑦ ᖃᓂᒋᔭᖏᓃᑦᑐᑦ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ ᖃᐅᔨᒪᔭᐅᔪᑦ ᖃᓄᐃᖏᓐᓂᖅ ᐅᕝᕙᓗᓐᓃᑦ ᐊᒥᓱᕈᖅᐸᓪᓕᐊᔪᑦ ᐱᐅᓯᖃᖅᑎᒍᑦ, ᐊᒥᓲᓂᖏᓪᓗ ᓈᒻᒪᒃᑐᑦ ᐊᓂᒎᑎᖃᑕᕈᓐᓇᕋᒥᒃ ᖃᓄᐃᓕᖓᔪᖃᕋᓗᐊᖅᐸᑦ ᐊᒻᒪᓗ ᐱᑕᖃᐃᓐᓇᖅᑐᑦ ᐊᑯᓂᐊᓗᒃ (ᐊᑯᓂᐅᓂᓕᖕᒥ ᐱᐅᓯᑐᖃᕐᒥᒎᑦ ᑲᔪᓯᓐᓇᖅᓯᒪᔪᑦ ᐊᓯᔾᔨᖃᑕᕋᓗᐊᕆᓪᓗᑎᒃ ᑕᒪᒃᑯᐊ ᐊᒥᓱᓕᖃᑕᕐᓂᖏᓐᓂ ᐊᒥᓲᔪᓐᓂᖃᑦᑕᕐᓂᖏᓗ), ᐊᐅᓚᑕᐅᔪᓇᐊᖃᓕᓚᐅᕋᑎᒃ (ᓲᕐᓗ ᐆᒃᑑᑎᒋᓗᒍ ᐆᒪᔪᐃᑦ ᑕᒪᒃᑯᓂᖓ ᓂᕿᒃᓴᒥᓂ ᑐᒃᑐᓯᐅᖃᑕᖅᑐᑦ ᐊᐅᓚᑕᐅᔪᓇᐊᖃᖏᑎᓪᓗᒋᑦ ᓱᓕ ᐅᕝᕙᓗᓐᓃᑦ ᐃᓚᒋᐊᖅᑕᐅᓯᒪᖏᔅᓱᑎᒃ ᓱᓕ ᐊᓯᖏᓐᓂᒃ ᑐᒃᑐᓂᒃ ᐊᒥᓱᕈᓇᐊᖅᑎᑕᐅᓇᓱᖕᓂᕐᒧᑦ).
ᖃᐅᔨᓴᖅᑏᓪᓗ ᐱᓕᕆᐊᒃᓴᖏᓪᓗ S&T	ᐊᕙᑎᓕᕆᔨᕐᔪᐊᒃᑯᑦ ᖃᐅᔨᓴᖅᑎᖏᑦ ᐱᓕᕆᐊᙳᔭᕆᐊᓖᓪᓗ ᑲᒪᒋᔭᐅᕕᖓᑦ
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ᒪᒃᐱᒐᐃᑦ ᐃᓗᓕᖏᑦ

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ᐊᕙᒃᑐᖅᓯᒪᓂᖏᑦ 10. ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ ᐊᒥᓱᕈᖅᔫᓂᕐᒧᑦ ᖃᓄᐃᓕᐅᕈᑎᒃᓴᓂᒃ ᐱᓕᕆᐊᕆᔭᐅᓂᖏᓐᓄᑦ ᐆᒃᑐᕋᐅᑏᑦ. 69

ᑎᑎᕋᖅᓯᒪᓂᖏᓐᓂ ᑕᑯᑎᑦᑎᒋᐊᕈᑏᑦ

ᑕᑯᑎᑦᑎᒋᐊᕈᑦ 1. ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ ᓇᓃᖃᑕᕐᓂᖏᑦ ᐊᑐᖅᓱᑎᒃ ᖃᐅᔨᓴᖅᑎᓄᑦ ᐊᕙᓗᓕᐅᕐᕕᐅᓗᑎᒃ ᐋᕿᒋᐊᖅᑕᐅᓯᒪᓪᓗᑎᒃ Johnson et al 2016 ᖃᐅᔨᓴᖅᑎᓄᑦ ᐊᒻᒪᓗ ᐊᑐᖅᑕᐅᓪᓗᑎᒃ ᑕᒪᐃᓐᓂᒃ ᖃᐅᔨᓴᕐᕕᐅᓚᐅᕐᓂᖏᓐᓂᒃ ᑐᑭᓯᔭᐅᓚᐅᖅᑐᑦ ᐊᒻᒪᓗ ᓄᓇᓕᖕᒥᐅᓄᑦ ᐅᖃᐅᓯᖃᑦᑕᖅᓯᒪᔪᑦ (1970-2020) ᓴᕿᐅᒪᕐᖁᓪᓗᒋᑦ ᐊᔾᔨᒌᖏᓐᓂᖏᑦ ᑕᐃᒃᑯᓇᓂ ᓇᔪᓚᕆᔭᐅᕙᔪᖕᓂᖏᓐᓂ ᐊᒻᒪᓗ ᐊᓯᖏᓐᓂ ᐱᑕᖃᔫᖑᓂᖏᓐᓂ ᓯᓚᑖᓂ ᓇᔪᕙᕆᔭᐅᕙᔪᖕᓂᖏᓐᓂ. 5
ᑕᑯᑎᑦᑎᒋᐊᕈᑦ 2. ᓄᓇᓕᖕᓂ ᑐᒃᑐᖃᕐᕕᐅᕙᖕᓂᖏᑦ ᑕᒪᒃᑯᓂᖓ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ ᐋᕿᒋᐊᖅᑕᐅᓯᒪᓗᑎᒃ Johnson et al. 2016........ 8
ᑕᑯᑎᑦᑎᒋᐊᕈᑦ 3. ᐃᓕᑕᕆᔭᐅᓯᒪᔪᑦ ᑕᕆᐅᕐᒥ ᓱᑯᖃᕆᐊᖃᕐᓂᖏᑦ ᐱᑕᖃᕆᐊᓕᒻᒪᕆᖕᓂ ᓇᔪᖅᑕᐅᔾᔪᓇᕐᓂᖅ ᑕᒪᑯᓄᖓ ᐊᑐᖅᑕᐅᕙᖕᓂᖏᓐᓄᑦ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᓄᑦ. ᓇᐅᑰᕐᕕᐅᕙᖕᓂᖏᑦ ᐅᖓᓯᒃᑐᒧᑦ ᐃᓕᑕᕆᔭᐅᓯᒪᔪᑦ ᓄᓇᓕᖕᓄᑦ ᓯᓚᑖᒍᑦ. ᓇᔪᕙᕆᔭᐅᕙᔪᖕᓂᖏᑦ ᐃᓱᒪᒋᔭᐅᖏᒻᒪᑕ ᐱᑕᖃᕆᐊᖃᒻᒪᕆᖕᓂᒃ ᓇᔪᖅᑕᐅᔾᔪᓇᕐᓂᖅ ᑭᓯᐊᓂ ᑕᑯᒃᓴᐅᕚᑦ ᐃᓕᑕᕆᔭᐅᓕᕈᓐᓇᕐᓂᖏᓐᓄᑦ ᐱᑕᖃᕆᐊᓕᒻᒪᕆᖕᓂᒃ ᓇᔪᖅᑕᐅᔾᔪᓇᕆᐊᖃᕐᓂᖏᓐᓂᒃ, ᓄᑖᓂᒃ ᖃᐅᔨᒪᔭᐅᓂᖏᓐᓂᒃ ᐊᑐᐃᓐᓇᐅᖃᓕᖅᐸᑦ. 59
ᑕᑯᑎᑦᑎᒋᐊᕈᑦ 4. ᓇᓃᓐᓂᖏᑦ ᐱᑕᖃᕆᐊᓕᒻᒪᕆᖕᓂᑦ ᓇᔪᕐᕆᔭᐅᔫᓇᕐᓂᕐᒧᑦ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᓄᑦ ᑕᐅᕙᓂ ᐃᑳHᐆᑉ ᕿᑭᖅᑕᖓᓂ - ᐅᐊᖕᓇᖅᐸᓯᖓᑕ ᐱᖓᓐᓇᖓᓂ ᑭᓪᓕᓂᐅᑉ ᑐᒃᑐᖃᕐᕕᐅᕙᖕᓂᖏᑦ ᑕᒪᒃᑯᓂᖓ (ᓄᓇᑦᓯᐊᒥᕐ ᐊᒻᒪᓗ ᓄᓇᕗᒻᒥ)........ 61
ᑕᑯᑎᑦᑎᒋᐊᕈᑦ 5. ᓇᓃᓐᓂᖏᑦ ᐱᑕᖃᕆᐊᓕᒻᒪᕆᖕᓂᑦ ᓇᔪᕐᕆᔭᐅᔫᓇᕐᓂᕐᒧᑦ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᓄᑦ ᑕᐅᕙᓂ ᑭᖓᐃᓚᐅᑉ ᑕᕆᐅᑰᓗᐊᑕ ᐱᖓᓐᓇᖓᓂ ᕿᑭᖅᑕᖓᓴᖏᑦ ᑐᒃᑐᖃᕐᕕᐅᕙᖕᓂᖏᑦ ᑕᒪᒃᑯᓂᖓ (ᓄᓇᑦᓯᐊᒥᕐ ᐊᒻᒪᓗ ᓄᓇᕗᒻᒥ)........ 62
ᑕᑯᑎᑦᑎᒋᐊᕈᑦ 6. ᓇᓃᓐᓂᖏᑦ ᐱᑕᖃᕆᐊᓕᒻᒪᕆᖕᓂᑦ ᓇᔪᕐᕆᔭᐅᔫᓇᕐᓂᕐᒧᑦ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᓄᑦ ᑭᖓᐃᓚᐅᑉ ᑕᕆᐅᑰᓗᐊᑕ ᑲᓇᖓᓇᖓᓂ ᕿᑭᖅᑕᖓᓴᖏᑦ ᑐᒃᑐᖃᕐᕕᐅᕙᖕᓂᖏᑦ ᑕᒪᒃᑯᓂᖓ (ᓄᓇᕗᒻᒥ). 63
ᑕᑯᑎᑦᑎᒋᐊᕈᑦ 7. ᓇᓃᓐᓂᖏᑦ ᐱᑕᖃᕆᐊᓕᒻᒪᕆᖕᓂᑦ ᓇᔪᕐᕆᔭᐅᔫᓇᕐᓂᕐᒧᑦ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᓄᑦ ᑭᖓᐃᓚᐅᑉ ᕿᑭᖅᑕᖓᓂ – ᑰᓚᓇᔩᑉ ᕿᑭᖅᑕᖓᓂ ᐊᑯᓂᖏᓐᓂ – ᐃᑦᑐᐊᖅᑐᕐᕕᐅᑉ ᓄᕗᐊᓂ ᑐᒃᑐᖃᕐᕕᐅᕙᖕᓂᖏᑦ ᑕᒪᒃᑯᓂᖓ (ᓄᓇᕗᒻᒥ). 64

1. ᑳᓱᐃᒃᑯᑦ ᑲᑎᒪᔨᕋᓛᖏᓐᓄᑦ* ᐆᒪᔪᐃᑦ ᖃᐅᔨᓴᖅᑕᐅᓚᐅᕐᓂᖏᓐᓂ ᖃᐅᔨᑎᑦᑎᒋᐊᕈᑏᑦ

ᐅᓪᓗᖓ ᖃᐅᔨᓴᖅᑕᐅᓚᐅᕐᕕᒃ: ᓄᕕᐱᕆ 2015

ᑕᐃᔭᐅᓂᖏᑦ: ᖁᑦᑎᒃᑐᒥ ᑐᒃᑐᐃᑦ

ᖃᓪᓗᓈᑎᑐᑦ ᖃᐅᔨᓴᖅᑎᓄᑦ: *Rangifer tarandus pearyi*

ᑳᓱᐃᒃᑯᑦ ᑲᑎᒪᔨᕋᓛᖏᓐᓄᑦ ᖃᓄᐃᓕᖓᓂᕋᖅᑕᐅᓂᖏᑦ: ᐅᓗᕆᐊᓇᖅᑐᒦᓕᕐᓂᖅ

ᐱᔾᔪᑕᐅᓂᖏᑦ ᑕᐃᒫᒃ ᑕᐃᔭᐅᓂᕐᒧᑦ: ᑕᒪᑯᐊ ᑐᒃᑐᐃᑦ ᐆᒪᕗᒃᑐᑦ ᑕᒃᐹᓂ ᑲᓇᑕᐅᑉ ᐅᑭᐅᖅᑕᖅᑐᖅᐸᓯᒪᓇᐊᓂ ᕿᑭᖅᑕᕆᓴᙵᓂ, ᐱᕈᖅᑐᖃᕐᕕᐅᕙᓂᖏᓐᓂ ᓂᕿᒃᓴᓂᒃ ᐸᓂᖅᑐᒪᓇᐅᔪᒥ ᓄᓇᒥ, ᓇᒫᖅᑐᖃᙱᓂᕐᒥᓗ. ᒫᓐᓇᐅᔪᖅ ᐊᒥᓲᓂᖃᕋᓱᒋᔭᐅᕗᑦ ᑕᒫᓂ 13,200-ᓂᒃ ᐱᕈᐊᓂᒃᓯᒪᓂᖏᓐᓂ. ᑕᐃᔅᓯᒪᓂ 1987-ᒥ ᐊᒥᓲᓂᖃᓚᐅᖅᑐᑦ 22,000-ᓂᒃ, ᑐᕐᑯᕋᖅᐸᓪᓕᐊᓕᓛᐅᖅᓯᑎᒃ ᑕᒪᓂ ᕿᑎᐊᓂ ᐊᕐᕌᒍᓂ 1990-ᖏᓐᓂ ᓯᑯᔪᐊᓃᓕᓚᐅᕐᓂᖔᓄᑦ ᐃᓚᖏᓐᓂ ᓇᔪᖅᐸᒃᑕᖏᓐᓂ. ᐊᒥᓲᓂᖃᓚᐅᖅᑐᑦ ᑕᒫᓂ 5,400-ᓂᒃ ᐱᕈᐊᓂᒃᓯᒪᔪᓂᒃ ᑕᒫᓂ 1996-ᒥ, ᑕᐃᒪᙵᓂᒃ 1961-ᒥ ᐊᒥᓲᖏᓛᓇᔭᐅᓯᒪᔪᓂᒃ. ᓯᑕᒪᓂᒃ ᐊᕕᒃᑐᖅᓯᒪᓂᖏᓐᓂ, ᒪᕐᕿᒃ ᐊᒥᓯᖅᐸᓪᓕᐊᕋᐅᔭᐃᓐᓇᖅᐹᒃ, ᐊᑕᐅᓯᐅᓪᓗᓂᓗ ᑕᐃᒪᐃᓕᙵᑦᑎᐊᖅᓯᑎᒃ, ᓯᑕᒪᖏᓪᓗ ᖁᓖᑦ 10 ᐊᑖᓃᓚᐅᖅᓯᑎᒃ ᑭᖑᓪᓕᕐᒥ ᓈᓴᖅᑕᐅᖁᒥᒃ ᑕᒪᓂ 2005-ᒥ, ᓇᓗᓇᐃᑯᑕᖃᓚᐅᖏᑦᑐᓂᒃ ᐊᒥᓱᕈᖅᐸᓪᓕᐊᓂᖏᓐᓂ. ᑕᒪᐃᓐᓂ ᐊᒥᓲᓂᖏᓐᓂ ᑲᑎᓪᓗᒋᑦ ᐱᙳᓱᐃᓕᖃᔪᓂᒃ ᕿᙲᕝᖅᑖᖅᓯᒪᓂᖏᓐᓄᑦ ᑎᑭᓪᓗᒍ ᑲᑕᒃᓯᒪᕗᑦ ᑕᒫᓂ 35% ᐳᓴᑎᖏᓅᑦᑐᓂᒃ, ᐊᒥᓱᕈᖅᓯᒪᒐᓗᐊᖅᓯᑎᒃ ᐊᓂᒨᖅᑐᓂ 20-ᓂᒃ ᐊᕐᕋᒍᓂᒃ. ᐱᔾᔪᑕᐅᓂᖅᐹᙳᓯᒪᔪᑦ ᐊᒥᓱᖓᓃᕈᑕᐅᓂᖏᑦ ᓯᓚᐅᑉ ᐊᓯᔾᔨᖅᐸᓕᕐᕙᓂᕐᕙᓄᑦ, ᐱᕙᓪᓕᐊᓂᖏᓐᓄᑦ ᐊᒻᒪᓗ ᐊᒥᓲᓂᖅᓴᐅᕙᔫᒃᓯᓂᖏᓐᓄᑦ ᒪᕐᑯᖃᑦᑎᕐᓂᖅ-ᐊᐱᓯᒪᓕᓇᖅᑐᒥ, ᐱᐅᖏᑦᑐᒥᒃ ᐊᒃᑐᖅᑕᐅᖃᑕᖅᓯᑎᒃ ᓂᕿᒃᓴᖃᕐᕕᖏᑦ ᐱᔭᐅᔪᓐᓇᖃᑦᑕᕐᓂᖅ ᐅᑭᐅᒃᑯᑦ, ᐊᒻᒪᓗ ᓯᑯᖃᖏᓐᓂᖅᓴᐅᓕᕐᓂᖔᓄᑦ ᐊᒻᒪᓗ ᓯᑯᐃᑦ ᓵᒃᓕᓯᒪᓂᖏᓐᓄᑦ ᑕᕆᐅᕐᒥ ᐊᓲᔾᔨᕈᑕᐅᓯᒪᙵᑕ ᐅᖓᓯᒃᑐᓕᐊᕈᓇᕐᓂᖏᓐᓄᑦ ᐊᒻᒪᓗ ᓇᒧᖓᐅᔫᓇᖃᑦᑕᕐᓂᖏᓐᓄᑦ.

ᑲᓇᑕᒥ ᓇᓃᓐᓂᖏᑦ: ᓄᓇᑦᓯᐊᕐᒥ, ᓄᓇᕗᒻᒥ

ᑳᓱᐃᒃᑯᓐᓄᑦ ᖃᓄᐃᓕᖓᓂᖏᓐᓂᒃ ᑲᒪᒋᔭᐅᓯᒪᓂᖏᑦ: ᓯᕗᓪᓕᕐᒥ ᑎᒃᑯᐊᖅᑕᐅᓯᒪᓚᐅᖅᑐᑦ ᐊᑕᐅᓯᐅᓂᕋᖅᑕᐅᓪᓗᑎᒃ ᖁᑦᑎᒃᑐᒥ ᖃᑯᕐᓂᖅᓴᐃᑦ ᑐᒃᑐᐃᑦ, ᒫᓐᓇᐅᓕᖅᑐᖅ ᑕᐃᔭᐅᕙᓕᖅᑐᓂᒃ ᐃᓗᐃᓕᕐᒥᒃ ᑭᓪᓕᓂᕐᒥᓗ ᕿᑎᖅᒥᐅᓂ ᑐᒃᑐᖏᓐᓂᒃ. ᑎᒃᑯᐊᖅᑕᐅᓚᐅᖅᓯᒪᔪᑦ ᖃᓄᐃᓕᖓᓂᖏᑦ ᑐᒃᑐᖏᑦ ᐃᑳᕼᐆᑉ ᕿᑭᖅᑕᖓᓂ (ᓄᖑᓕᓚᓕᕐᓂᖅ), ᖁᑦᑎᒃᑐᒥ ᐅᑭᐅᖅᑕᖅᑐᒥ (ᓄᖑᓕᓚᓕᕐᓂᖅ) ᐊᒻᒪᓗ ᐊᑦᑎᖅᓂᖓᓂᒃ ᐅᑭᐅᖅᑕᖅᑐᒥ (ᐅᓗᕆᐊᓇᖅᑐᒦᓕᕐᓂᖅ) ᑐᒃᑐᖏᑦ. ᑕᒫᓂ ᒪᐃᖑᑎᓪᓗᒍ 2004-ᒥ, ᑕᒪᕐᒥᒃ ᑖᒃᑯᐊ ᐱᙳᓱᑦ ᑎᒃᑯᐊᖅᑕᐅᓯᒪᓂᖏᑦ ᐊᑐᕈᓐᓃᖅᑎᑕᐅᓚᐅᖅᑐᑦ, ᑕᐃᒃᑯᐊᓗ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᐃᑦ ᖃᐅᔨᓴᖅᑕᐅᖃᑕᖅᓯᑎᒃ ᐃᖏᒨᖓᑎᑕᐅᓗᑎᒃ ᑲᑎᖓᔪᓐᓂᖅᓯᑎᒃ ᑕᐃᒃᑯᓄᖓ ᐃᓗᐃᓕᕐᒥᒃ ᑭᓪᓕᓂᕐᒥᓗ ᕿᑎᖅᒥᐅᓂ ᑐᒃᑐᖏᓐᓄᑦ. ᐅᑯᐊ ᑐᒃᑐᐃᑦ ᐃᓚᖃᖅᐳᑦ ᑕᐃᒃᑯᓂᖓ ᓯᕗᓂᐊᒍᑦ ᑕᐃᔭᐅᕙᓚᐅᖅᑐᓂᒃ "ᐊᑦᑎᒃᑐᒥ ᐅᑭᐅᖅᑕᖅᑐᒥ ᑐᒃᑐᓂᒃ" ᐊᒻᒪᓗ ᑕᒪᐃᓐᓂᒃ ᓯᕗᓂᐊᒍᑦ ᑕᐃᔭᐅᕙᓚᐅᖅᑐᑦ "ᖁᑦᑎᒃᑐᒥ" ᐊᒻᒪᓗ "ᐃᑳᕼᐆᒥ" ᑐᒃᑐᖏᓐᓂᒃ, ᐊᒻᒪᓗ ᒪᓕᒐᖅᑎᒍᑦ ᑎᒃᑯᐊᖅᑕᐅᓚᐅᖅᑐᑦ ᓄᖑᓕᓚᓕᕐᓂᕐᒥᒃ ᑕᒫᓂ ᒪᐃ 2004-ᒥ. ᖃᓄᐃᓕᖓᓂᖏᑦ ᖃᐅᔨᒋᐊᖅᑕᐅᒃᑲᓂᕋᒥᒃ ᑎᒃᑯᐊᖅᑕᐅᓕᓚᐅᖅᑐᑦ ᐅᓗᕆᐊᓇᖅᑑᒥᓐᓂᖅ ᑕᒫᓂ ᓄᕕᐱᕆ 2015-ᒥ.

* ᑳᓱᐃᒃᑯᑦ (ᑲᑎᒪᔨᕋᓛᑦ ᖃᓄᐃᓕᖓᓕᕐᓂᖏᓐᓄᑦ ᐅᓗᕆᐊᓇᖅᑐᒦᓕᕐᓂᖏᑦ ᐆᒪᔪᐃᑦ ᑲᓇᑕᒥ)

2. ᐆᒪᔪᐃᑦ ᖃᓄᐃᓕᖓᓂᖏᓐᓂᒃ ᖃᐅᔨᑎᑦᑎᒋᐊᕈᑏᑦ

ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ ᖃᐅᔨᓴᖅᑕᐅᒃᑲᓂᕐᒥᒃ ᑕᐃᔭᐃᓕᓚᐅᖅᑐᑦ ᑳᓯᐃᒃᑯᑦ ᑲᑎᒪᔩᑦᓯᖕᖏᓐᓄᑦ ᑕᐃᔭᐅᓗᑎᒃ ᓄᖑᓕᓚᓕᕐᓂᕐᒥᒃ ᑖᒪᓂ 2004-ᒥ ᐃᓕᑕᕆᔭᐅᓪᓗᑎᒃ ᑎᑎᖅᖃᖅᕙᖕᖏᓐᓄᑦ ᒪᓕᒐᓕᐊᓂᒃ 1-ᒥ *ᐆᒪᔪᐃᑦ ᐊᒥᓲᖕᖏᓗᐊᓕᕐᓂᖏᓐᓄᑦ ᒪᓕᒐᕐᓄᑦ* (ᓯᐊᔾᑯᑦ) 2011-ᒥ (ᑲᓇᑕᐅᑉ ᒐᕙᒪᒃᑯᖏᓐᓄᑦ 2014-ᒥ). ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ ᖃᐅᔨᓴᖅᑕᐅᑲᓂᓚᐅᖅᑐᑦ ᑳᓯᐃᒃᑯᑦ ᑲᑎᒪᔩᑦᓯᖕᖏᓐᓄᑦ ᑕᐃᔭᐅᓪᓗᑎᒃ ᐅᓗᕆᐊᓇᖅᑐᒦᓕᕐᓂᖅ ᑕᒪᓂ 2015-ᒥ, ᐃᓕᑕᕆᔭᐅᓗᑎᒃ ᐱᕙᓕᐊᔪᒥᒃ ᑕᒪᐃᓕᖓᓕᕐᓂᖏᑦ ᐊᓂᒍᖅᑐᓂ 20-ᓂ ᐊᕐᕌᒍᓂ.

ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ ᐃᓯᒪᕆᔭᐅᕙᑦ ᐱᑕᖃᕐᓂᖅ ᑕᐃᒫᓃᓐᓇᖅ ᑲᓇᑕᒥ, ᓄᓇᖏᓐᓂ ᓄᓇᑦᓯᐊᑉ ᐊᒻᒪᓗ ᓄᓇᕗᑦ. ᐱᐅᓯᑐᖃᓕᓇᔩᑦ-NatureServe-ᑯᑦ ᐃᓕᑦᑎᖅᓯᓯᒪᔪᑦ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ ᐱᒻᒪᕆᐅᔪᓂᒃ ᐅᓗᕆᐊᓇᖅᑐᒦᓕᕐᓂᖅ ᓄᓇᕐᔪᐊᕐᓕᒫᒥ ᑲᓇᑕᒥᓗ. (ᐊᕙᒃᑐᖅᓯᒪᓂᖏᑦ 1 ᐊᑐᖅᑕᐅᓗᑎᒃ ᓇᐃᓈᖅᑕᐅᓯᒪᓗᑎᒃ ᑕᐃᔭᐅᔪᑦ NatureServe-ᑯᓐᓄᑦ ᐱᐅᓯᑐᖃᓕᓇᔩᒃᑯᓐᓄ (2017-ᒥ)). ᐅᑭᐅᖅᑕᖅᑑᑉ ᐊᕙᒃᑐᖅᓯᒪᓂᖏᓐᓂ, ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ ᑕᐃᔭᐅᕗᑦ ᐱᒻᒪᕆᐊᒍᖕᓂᒃ ᐅᓗᕆᐊᓇᖅᑐᒦᓕᕐᓂᖅ ᓄᓇᑦᓯᐊᕐᒥ ᑕᐃᒃᑯᓄᖓ ᐱᐅᓯᑐᖃᓕᓇᔩᒃᑯᓐᓄᑦ NatureServe-ᑯᑦ ᐊᒻᒪᓗ ᑎᒃᑯᐊᖅᑕᐅᓚᐅᖅᓯᑎᒃ ᐅᓗᕆᐊᓇᖅᑐᒦᓐᓂᕋᖅᑕᐅᔪᖅ ᑖᒪᓂ 2014-ᒥ ᐊᑖᒍᑦ *ᐆᒪᔪᐃᑦ ᐊᒥᓲᖕᖏᓗᐊᓕᕐᓂᖏᓐᓄᑦ ᒪᓕᒐᖅᑎᒍᑦ (ᓄᓇᑦᓯᐊᕐᒥ)*. ᓄᓇᕗᒻᒥ, ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ ᑕᐃᔭᐃᓯᒪᓐᖏᑦᑐᑦ ᐱᔾᔪᑕᐅᔪᓂ ᓄᓇᕗᒻᒥ ᐆᒪᔪᐃᑦ ᐅᓗᕆᐊᓇᖅᑐᒦᓂᖏᓐᓄᑦ ᒪᓕᒐᖅᖏᓐᓂᖓᓄᑦ. ᐊᑖᒍᑦ ᓄᓇᕗᒻᒥ *ᐆᒪᔪᓕᕆᓂᕐᒧᑦ ᒪᓕᒐᖅᑎᒍᑦ* ᐱᑕᕆᐅᓚᓗᐊᑦ ᐊᖑᓇᓱᒃᑕᐅᖃᑦᑕᕐᓂᖏᓐᓂᒃ ᐆᒪᔪᐃᑦ ᐊᒥᓱᖏᓗᐊᓕᖅᑐᑦ ᑭᓯᐊᓂ ᒪᓕᒐᓗᑐᖃᖏᑦᑐᑦ ᑕᐃᑲᓂ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᓐᓂᒃ ᒫᓇᔪᖅ.

ᐊᕙᒃᑐᖅᓯᒪᓂᖏᑦ 1: ᐃᓕᔭᐅᓂᖏᑦ ᖃᓄᐃᓕᖓᓂᖏᓪᓗ ᓴᐳᓐᓂᐊᖅᑕᐅᓂᖏᓐᓄᑦ ᐃᓕᑕᕆᔭᐅᓂᖏᑦ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ.

ᐱᐅᓯᑐᖃᓕᓇᔩᒃᑯᑦ NatureServe-ᑯᑦ ᐃᓕᑕᕆᔭᖏᑦ			ᑲᓇᑕᒥᐅᓂ ᖃᓄᐃᓕᖓᓂᖅ	ᐅᑭᐅᖅᑕᖅᑑᑉ ᐊᕙᒃᑐᖅᓯᒪᓂᖓᓂ ᖃᓄᐃᓕᖓᓂᖅ
ᓄᓇᕐᔪᐊᕐᒥ (G)	ᑲᓇᑕᒥ (N)	ᑲᓇᑕᐅᑉ ᐃᓗᐊᓂ (S)		
T1[a]	N1[b]	ᓄᓇᑦᓯᐊᖅ – S1S3[c] ᓄᓇᕗᑦ – SNR[d]	ᓯᐊᔾᑯᑦ – ᒪᓕᒐᓕᐊᖅ 1 (ᓄᖑᓕᕐᓂᖅ)	ᓄᓇᑦᓯᐊᕐᒥ – ᐅᓗᕆᐊᓇᖅᑐᒦᓐᓂᖅ ᓄᓇᕗᑦ - ᐃᓕᔭᐅᓯᒪᖏᑦ

[a] T1 ᑐᑭᓕᒃ ᐱᒻᒪᕆᐅᔪᒥᒃ ᐅᓗᕆᐊᓇᖅᑐᒦᓐᓂᖅ. T-ᐃᓕᑕᕆᔭᐅᓂᖏᑦ (ᑕᒪᒃᑯᓄᖓ ᐃᓈᖅ ᑐᕌᖓᔪᓂ ᐆᒪᔪᐃᑦ) ᑎᒃᑯᐊᖅᑕᑲᐅᓂᖏᑦ

[b] N1 = ᐱᒻᒪᕆᐅᔪᒥᒃ ᐅᓗᕆᐊᓇᖅᑐᒦᓐᓂᖅ

[c] S1 = ᐱᒻᒪᕆᐅᔪᒥᒃ ᐅᓗᕆᐊᓇᖅᑐᒦᓐᓂᖅ

[d] SNR = ᐃᓕᑕᕆᔭᐅᓂᖅᑕᖅᖏᑦᑐᖅ

3. ᐆᒪᔪᐃᑦ ᒥᒃᓵᓄᑦ ᖃᐅᔨᒪᔾᔪᑏᑦ

ᑲᓇᑕᒥ ᒫᓇᐅᔪᖅ ᓯᑕᒪᓂᒃ ᐊᕙᒃᑐᖅᓯᒪᓂᕐᕖᒻᒪᑕ ᑐᒃᑐᐃᑦ ᒪᓐᓇᐅᔪᖅ ᐃᓕᑕᕆᔭᐅᓂᖏᑦ, ᒪᓕᒃᑕᐅᓗᑎᒃ ᐹᓐᕙᐅᓂᒧᑦ (1961) ᑕᐃᒪᙵᑦ ᖃᓄᐃᑦᑑᓂᖏᑦ ᓇᓗᓇᐃᖅᑕᐅᓚᒥᒃ: ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ (*R. t. pearyi*); ᓇᐹᖅᑐᖅᖏᑐᕐᒥᐅᑦ ᑐᒃᑐᖏᑦ (*R. t. groenlandicus*); ᓇᐹᖅᑐᓕᕐᒨᖅᐸᒃᑐᑦ ᑐᒃᑐᐃᑦ (*R.t. caribou*); ᐊᒻᒪᓗ ᒍᕌᓐᑎᐅᑉ ᑐᒃᑐᐃᑦ (*R. t. granti*). ᑕᕝᕙᓂᒪᕆᔭᐅᓚᐅᖅᑐᑦ ᑕᐃᒪᐃᑦᑐᕕᓂᑦᑕᐅᖅ, ᑕᐃᔭᐅᔪᑦ ᑖᓴᓐ ᑐᒃᑐᐃᑦ (*R. t. dawsoni*), ᓄᖑᓚᐅᖅᑐᑦ ᐱᑕᖅᑭᓃᖅᓯᑎᖅ ᐱᒋᐊᓕᕚᕐᓂᖏᓐᓂ ᐊᕐᕌᒍᖏᑦ 1900-ᖏᓐᓂ. ᐃᓚᒋᔭᐅᔪᑦ ᑕᐃᒃᑯᓄᖓ ᓇᐹᖅᑐᖅᖏᓐᓂᕐᒧᑦ ᑐᒃᑐᓄᑦ ᑕᐃᔭᐅᔪᓄᑦ ᐃᓗᐃᓪᓕᕐᒥ ᑭᓪᓕᓂᖓᓂ ᕿᑎᖅᒥᐅᑦ ᑐᒃᑐᖏᓐᓄᑦ[4], ᓇᔪᒐᖅᑲᓲᖑᕗᑦ ᐃᓚᖏᓐᓂᒃ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ ᐱᑕᖅᕝᕕᖏᓐᓂ ᓂᒋᖅᐸᓯᐅᓂᖓᓂ,

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[4] ᑖᒪᓂ 2011, ᑲᓯᐃᒃᑯᑦ ᓴᓇᓚᐅᖅᑐᑦ 'ᑎᒃᑯᐊᖅᑕᐅᓯᒪᕝᕕᒃᓴᓂᒃ ᐃᖕᒥᒎᖅᑐᑦ' (DU) ᑐᒃᑐᓂᒃ ᑲᓇᑕᒥ ᐊᑐᖅᑐᓂᒃ ᐊᒥᓲᓂᒃ ᐊᔾᔨᒌᖏᑦᑑᑎᓂᒃ ᑐᑭᓕᐅᕈᑎᓂᒃ ᓇᒍᓇᐃᔭᐃᓂᕐᒧᑦ ᐊᔾᔨᒌᖏᓐᓂᖏᑦ ᑐᒃᑐᐃᑦ ᑲᑎᖓᓂᖏᓐᓂ ᐃᓚᓕᐅᑎᓯᒪᓂᖏᓐᓂᓗᓐᓃᑦ. ᑕᒃᑯᐊ ᑎᒃᑯᐊᖅᑕᐅᓂᖏᑦ ᐅᓂᒃᑳᕈᑕᐅᕙᑦ ᑐᑭᓯᓇᑦᑎᐊᖅᑐᓂᒃ ᑐᑭᓕᐅᖅᑐᓂᓪᓗ ᐊᑐᖅᑕᐅᔪᓐᓇᖅᑐᓂᒃ ᐃᓕᑕᕆᔭᐅᔪᓐᓇᕐᓂᖏᑦ ᓇᓕᐊᖑᒪᖖᒋᑦ ᐱᔾᔪᑕᐅᓂᕐᒧᑦ ᐱᓴᓇᐊᑐᓂᖏᑦ ᖃᓄᐃᑦᑑᕙᓂᖏᓐᓄᑦ ᑐᒃᑐᐃᑦ ᑲᓇᑕᒥ. ᑕᐃᒃᑯᐊ ᐃᓗᐃᓪᓕᒥ ᑭᓪᓕᓂᖓᓄᑦ ᑐᒃᑐᐃᑦ ᓇᐹᖅᑐᖅᑎᑐᕐᒥᐅᑦ ᑐᒃᑐᖏᑦ ᑐᑭᓕᐅᖅᑕᐅᓚᐅᖅᑐᑦ ᐃᓚᒋᔭᐅᓂᖅ (DU2), ᑕᐃᔭᐅᑐᐃᓐᓇᓕᖅᓯᑎᒃ ᐃᓗᐃᓕᕐᒥ ᑭᓪᓕᕐᓂᕐᒥᐅᑦ ᑐᒃᑐᖏᓐᓂᒃ.

ᐱᓗᐊᖅᑐᒥᒃ ᑕᐅᕙᓂ ᑭᓪᓕᓂᕐᒥ ᕿᑭᖅᑕᖓᓂ. ᐅᑯᐊ ᐊᒥᓱᕈᖅᓰᓂᕐᒧᑦ ᖃᓄᐃᓕᐅᕈᑎᒃᓴᓂᒃ ᐊᒥᓱᕈᖅᓰᒋᐊᕈᒪᓂᕐᒧᑦ ᐊᑐᖅᑕᐅᔪᒪᕗᑦ ᑕᒪᒃᑯᓂᖓ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᓂᒃ.

3.1 ᖃᓄᖅ ᑕᐅᑐᖃᕐᓂᖏᑦ ᐆᒪᔪᐃᑦ

ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ ᑐᒃᑐᓕᒪᓂ ᒥᑭᓛᖑᔪᑦ ᑲᓇᑕᓕᒫᒥ. ᓇᐃᓐᓂᖅᓴᕐᒥ ᐊᓪᓕᕈᓕᒃ ᐊᒻᒪᓗ ᕿᖓᓕᒃ (Banfield 1961; ᐃᖃᓗᒃᑐᑦᑎᐊᕐᓂ ᐊᖑᓇᓱᒃᑎᒃᑯᑦ 2013; ᐅᖅᓱᖅᑑᑉ ᐊᖑᓇᓱᒃᑎᖏᑦ 2013; ᑕᓗᕐᔪᐊᑉ ᐊᖑᓇᓱᒃᑎᖏᑦ 2013) ᐊᒻᒪᓗ ᓇᐃᑐᑯᓗᖕᓂᒃ, ᓂᕈᑐᔪᓂᒃ ᑯᑭᓖᑦ (Banfield 1961). ᐅᑭᐅᒃᑯᑦ ᒥᕐᑯᐊ ᑕᑭᕗᖅ ᖃᐅᓪᓗᖅᑐᐃᓐᓇᐅᑲᓴᒃᑐᖅ ᐊᐅᔭᒃᑯᓪᓗ ᖃᐅᓪᓗᖅᑐᖅ ᐊᑖᒍᑦ ᐊᒻᒪᓗ ᖁᓛᒍᑦ ᐊᒻᒪᓗ ᒥᕐᑯᐊ ᓯᐊᕐᓈᖓᓗᓂ ᖁᓛᒍᑦ, ᑕᖅᓴᖃᖏᑐᓂ ᑕᐃᒃᑯᑎᑐᓇ ᓇᕚᖅᑐᖃᖏᑦᑐᕐᒥᐅᑦ ᑐᒃᑐᖏᓐᓂ ᑕᖅᓴᕆᔭᐅᕙᒃᑐᓂᒃ (ᐆᒪᔪᐃᑦ ᐊᒥᓲᖏᓗᐊᕐᓂᖏᓐᓄᑦ ᑲᑎᒪᔨᕗᓖᑦ 2012). ᓂᐅᖏᑦ ᖃᐅᓪᓗᖅᑐᑦ ᐊᑕᐅᓯᕐᒥᒃ ᑕᖅᓴᖅᓯᑎᒃ ᓵᑐᒥᒃ ᑐᑭᒎᐊᒃᑐᒥᒃ ᓯᕗᓂᐊᒍᑦ (Banfield 1961). ᑕᒪᐃᓐᓂᒃ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ ᐊᒻᒪᓗ ᐃᓗᐃᓪᓕᒥ ᑭᓪᓕᓂᕐᒥᓗ ᑐᒃᑐᖏᑦ ᓯᐊᕐᓈᖓᔪᓂᒃ ᒥᕐᑯᓖᑦ ᓇᒡᔪᖏᒧᑦ (ᐆᒪᔪᐃᑦ ᐊᒥᓲᖏᓗᐊᕐᓂᖏᓐᓄᑦ ᑲᑎᒪᔨᕗᓖᑦ 2012), ᐊᔾᔨᒋᔭᐅᖏᓐᓂᖏᑦ ᑕᐃᒃᑯᓇᖓᑦ ᒥᕐᑯᖏᑦ ᓇᒡᔪᖏᓐᓂ ᐊᓯᖏᑦ ᓇᐸᖅᑐᖃᖏᑦᑐᕐᒥ ᑐᒃᑐᐃᑦ ᐊᒻᒪᓗ ᓇᐸᖅᑐᓕᖕᒧᐊᖃᑦᑕᕐᓂᖏᑦ ᑐᒃᑐᐃᑦ. ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᐃᑦ ᓇᒡᔪᖏᓪᓕᑕᐅᖅ, ᒥᑭᓐᓂᖅᓴᐅᒋᕗᑦ ᓵᓐᓂᖅᓴᐅᓪᓗᑎᓪᓗ ᐊᓯᖏᓐᓂᒃ ᐃᓗᐃᓪᓕᒥ ᑭᓪᓕᓂᕐᒥᓗ ᑐᒃᑐᖏᓐᓂᒃ (ᐃᖃᓗᒃᑐᑦᑎᐊᕐᓂ ᐊᖑᓇᓱᒃᑎᒃᑯᑦ 2013).

3.2 ᐆᒪᔪᐃᑦ ᐊᒥᒍᓐᓂᖏᑦ ᐊᒻᒪᓗ ᓇᖕᒥᓃᖏᑦ

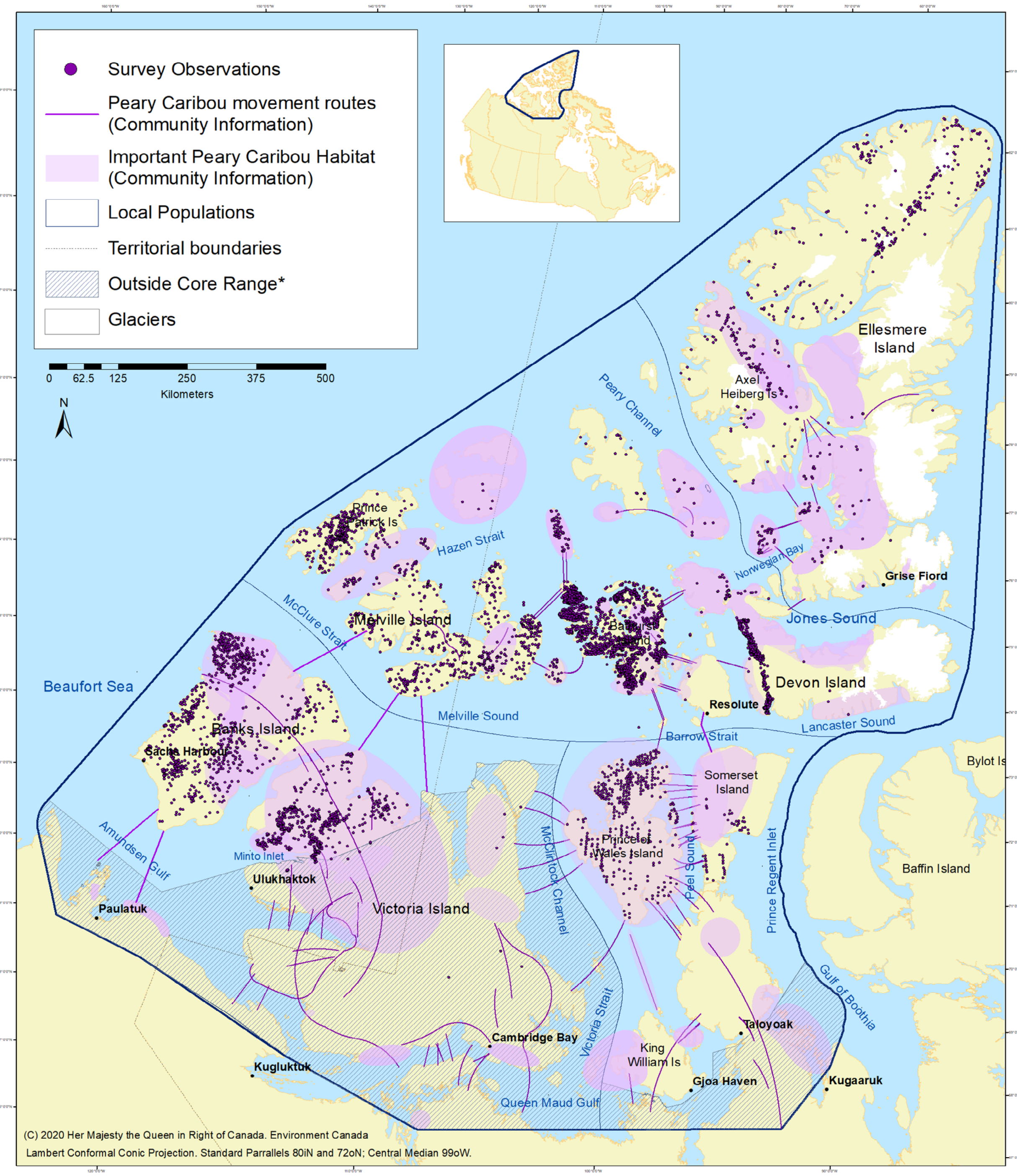
3.2.1 ᓇᖕᒥᓃᖏᑦ

ᐃᓱᒪᒋᔭᐅᔪᑦ ᐱᑕᖃᕋᓱᒋᔭᐅᓂᖅ ᑕᒫᓐᓇᓐᓇᖅ ᓄᓇᑦᓯᐊᕐᒥ ᓄᓇᕗᒻᒥᓗ, ᐊᒥᒎᖏᑦᑐᑦ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ ᐃᑳᖃᑕᕋᓱᒋᔭᐅᕗᑦ ᐊᐅᓱᐃᑦᑐᑉ ᕿᑭᖅᑖᓗᖓᓂᒃ ᑕᐅᕗᖓ ᐊᑯᑭᑦᑐᕐᒥᐅᑦ ᑲᓛᓪᓛᑦ ᓄᓇᖓᓄᑦ ᑭᓯᐊᓂᓕ ᑕᐅᕙᓂ ᐱᑕᖃᕈᓐᓃᕋᓱᒋᔭᐅᕗᑦ ᓄᓇᖓᓐᓂ (ᑳᓯᐃᒃᑯᑦ ᑲᑎᒪᔨᕋᓛᖏᑦ 2015). ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ ᐱᑕᖃᖅᑐᑦ ᑲᓇᑕᒥᐅᑦ ᖁᑦᑎᒃᑐᒥ ᕿᑭᖅᑕᖓᓭᖏᓐᓂ, ᐱᖏᑕᑐᐊᕆᓗᑦ ᑕᐅᕙᓂ ᕿᑭᖅᑖᓗᖕᒥ (ᑳᓯᐃᒃᑯᑦ ᑲᑎᒪᔨᕋᓛᖏᑦ 2015). ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦᑕᐅᖅ ᐃᓚᖏᓐᓃᖃᑕᕐᒥᔪᑦ ᓄᓇᖅᐱᐅᓂᕐᒥ ᑕᐅᕙᓂ ᐃᑦᑐᐊᖅᑐᕐᕖᖕᒥ, Pearce Point-ᓄᕗᐊᓂ ᐊᒻᒪᓗ Parry Peninsula-ᐱᐅᕆᐅᑉ ᓄᕗᐊᓂ (ᐃᖃᓗᒃᑐᑦᑎᐊᕐᓂ ᐊᖑᓇᓱᒃᑎᒃᑯᑦ 2013; ᐸᐅᓘᑉ ᐊᖑᓇᓱᒃᑏᑦ ᑲᑎᒪᔨᕋᓛᖏᑦ 2013).

ᐃᓚᖏᑦ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ ᓅᖃᑕᕐᒥᔪᑦ ᕿᑭᖅᑕᓚᓴᐅᔪᓂ ᐊᕐᕋᒍᒥ, ᑕᐃᒪᐃᓂᖓᓄᓪᓗ ᑕᒪᐃᓐᓂᐊᓗᒃ ᕿᑭᖅᑕᓚᓴᐃᑦ ᑐᒃᑐᖃᖅᑐᐃᓐᓇᐅᕙᖏᑦᑐᑦ ᖃᖓᑐᐃᓐᓇᖅ ᐊᑕᐅᑎᒃᑯᑦ. ᐊᒻᒪᓗ, ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ ᖃᐅᔨᒪᔭᐅᖏᒥᔪᑦ ᐅᑎᖃᑕᕐᓂᖏᑦ ᑭᖑᓂᑐᑦᒌᓗᐊᒧᑦ ᕿᒪᐃᓚᐅᕐᓂᕐᒥᓂᒃ ᐱᑕᖃᕐᕕᐅᖏᑯᑖᒃᓯᒪᓚᐅᖅᑐᓂᒃ (Canadian ᑲᓇᑕᒥ ᐆᒪᔪᓕᕆᓂᕐᒧᑦ ᐱᔨᑦᑎᕋᐃᔾᔩᑦ 2013; ᑳᓯᐃᒃᑯᑦ ᑲᑎᒪᔨᕋᓛᖏᑦ 2015). ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ ᕿᒪᐃᓰᑦ ᓂᕿᒃᓴᐃᕈᑎᔭᕌᖓᒥᒃ ᓄᓇᒥ, ᐅᑕᕈᓐᓇᕆᓪᓗᑎᒃ ᐱᕈᒃᑲᓐᓂᕐᒥᒍᑎᒃ ᓂᒃᓴᕆᕙᒃᑕᖏᑦ (ᐊᐃᕕᖅ ᐊᖑᓇᓱᒃᑎᖏᑦ; ᐅᓗᒃᕼᐊᖅᑑᕐᒥᐅᑦ ᐊᖑᓇᓱᒃᑏᑦ ᑲᑎᒪᔨᕋᓛᖏᑦ 2013; ᖃᐅᓯᐃᑦᑑᑉ ᐊᖑᓇᓱᒃᑎᖏᑦ 2013).

ᐆᒪᔪᐃᑦ ᑕᒪᑯᐊ (ᑕᑯᑎᑦᑎᒋᐊᕈᑦ 1) ᑕᐅᕗᓃᖃᑦᑕᖅᐳᑦ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᓄᑦ ᓇᔪᖅᐸᒃᑕᖏᓐᓂ ᖃᐅᔨᒪᔭᐅᔪᓂ. ᑕᒪᒃᑯᐊ ᐆᒪᔪᐃᑦ ᓇᓃᖃᑕᕐᓂᖏᑦ ᖃᐅᔨᒪᔾᔪᑎᒃᓴᐃᑦ ᓄᑖᕈᕆᐊᖅᑕᐅᓚᐅᖅᑐᑦ ᐊᑐᖅᑕᐅᓗᑎᒃ ᐊᕕᒃᑐᖅᓯᒪᓂᖏᓐᓂ ᖃᐅᔨᓴᖅᑕᐅᓚᐅᖅᑐᑦ ᐊᒻᒪᓗ ᓄᓇᖏᑦ ᐃᓄᐃᑦ ᖃᐅᔨᒪᔭᓂᖏᑦ ᐊᒻᒪᓗ ᑕᑯᔭᐅᖃᑕᕐᓂᖏᑦ ᑐᑭᓕᐅᖅᑕᐅᓪᓗᓂ ᐊᑐᖅᑕᐅᖃᑕᐃᓐᓇᕐᓂᐊᓕᖅᑐᓂᒃ ᐊᐃᑐᖅᑕᐅᓯᒪᔪᓂᒃ ᐊᕙᓗᓕᐊᓇᔭᐅᓯᒪᔪᓂᒃ ᑎᑎᖃᑎᒍᑦ ᐱᖃᓱᐅᔾᔨᓯᒪᔪᑦ ᑕᒪᐃᓐᓂᒃ ᐃᓕᑕᕆᔭᐅᓯᒪᓂᖏᓐᓂᒃ ᑐᒃᑐᖃᕐᕕᐅᕙᖕᓂᖏᑦ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᓐᓂᒃ (Johnson et al. 2016). ᒫᓇᓵᖅ ᐅᓂᒃᑳᕈᑕᐅᖃᑦᑕᖅᓯᒪᓕᖅᑐᑦ ᐊᒥᒎᖏᑦᑐᓂᒃ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖃᖃᑕᓕᕐᓂᖅ ᕿᑭᖅᑖᓗᖕᒥ (ᐆᒪᔪᓕᕆᔨᕐᔪᐊᒃᑯᑦ ᑲᑎᒪᔨᖏᑦ ᑎᓯᐱᕆ 2016), ᐊᕙᓗᓕᐊᕆᔭᐅᓯᒪᓂᖏᑦ ᐱᖃᓱᐅᔾᔭᐅᓯᒪᓂᖏᓐᓂᒃ ᐋᕿᒋᐊᖅᑕᐅᓕᐅᓚᐅᖅᑐᑦ ᐃᓚᒋᔭᐅᔫᓂᖅᓱᑎᒃ ᕿᑭᖅᑖᓗᖕᒥ ᑕᐃᒪᖓᑦ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ ᐱᑕᖃᕋᔪᐃᓐᓂᖏᓐᓄᑦ ᑕᐅᕙᓂ ᕿᑭᖅᑖᓗᖕᒥ, ᑕᐃᒪᐃᒐᔪᐃᑦᑐᒪᕆᐅᓂᖏᓐᓄᓪᓗ. ᐆᒪᔪᐃᑦ ᓇᔪᖅᐸᒃᑕᖏᓐᓂ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ ᑕᐅᕗᓃᑦᑐᑦ ᓇᔪᒐᕆᓗᐊᖃᑦᑕᕐᓂᖏᓐᓂᒃ ᓯᓚᑖᓂᓗᓐᓂᑦ ᑕᒪᑐᒪ (ᑕᑯᑎᑦᑎᒋᐊᕈᑦ 1). ᑕᐃᒃᑯᐊ ᓇᔪᒐᕆᔭᐅᓗᐊᕐᓂᖏᑦ ᓱᓕᔪᕆᔭᐅᕗᑦ ᐊᑐᖅᑕᐅᒐᔪᓐᓂᖅᐹᖑᕙᓐᓂᖏᑦ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᓐᓄᑦ, ᓇᓃᖃᑕᕐᓂᖏᓐᓂ ᑕᒪᐃᓐᓂᒃ ᓇᔪᖅᐸᒻᒥᔭᖏᓐᓂ. ᑕᒪᓐᓇ ᓇᔪᖅᑕᐅᓪᓗᐊᑕᕐᓂᖓ ᐊᖏᕈᑕᐅᓚᐅᖅᑐᖅ ᐊᒥᓱᕈᖅᓯᐊᕆᔭᐅᓂᖏᓐᓄᑦ ᖃᓄᐃᓕᐅᕈᑎᒃᓴᐃᑦ ᐊᐅᓚᑦᑎᔨᐅᖃᑕᐅᔪᑦ ᑎᒥᖁᖏᓐᓂᒃ (ᑲᓇᑕᒥ ᐆᒪᔪᓕᕆᓂᕐᒧᑦ ᐱᔨᑦᑎᕋᐃᔾᔩᑦ 2013). ᓇᔪᒐᕆᔭᐅᓗᐊᖃᑕᕐᓂᖏᑦ ᐊᔾᔩᖏᒥᔭᖏᑦ ᑕᐃᒃᑯᓇᖓᑦ ᐅᖃᐅᓯᐅᓯᒪᓂᖏᓐᓂ ᑳᓯᐃᒃᑯᑦ ᑲᑎᒪᔨᕋᓛᖏᓐᓄᑦ (2015)

ᐃᓚᔭᐅᓯᒪᖕᒪᑦ ᑕᐃᔭᐅᔪᖅ ᕿᑭᖅᑕᒥ ᕿᑎᖅᒥᐅᓂ (King William Island-ᒥ), ᑕᐃᒪᐃᓚᐅᕐᒪᑕ ᒪᓕᒃᑐᓂᒃ ᐊᑐᓕᖁᔭᓕᐊᖏᓐᓂᒃ ᐊᐅᓚᑦᑎᔨᐅᖃᑕᐅᔪᑦ ᑎᒥᖁᖏᓐᓂᒃ (ᑲᓇᑕᒥ ᐆᒪᔪᓕᕆᓂᕐᒧᑦ ᐱᔨᑦᑎᕋᐃᔩᑦ 2013). ᐃᓚᐃᓐᓇᖏᓐᓂᒃ ᖃᐅᔨᒪᔾᔪᑎᒃᓴᖃᖅᐸᓚᐅᕐᒪᑕ ᐱᑕᖃᙱᓐᓂᖏᓐᓂᒃ ᓯᓚᑖᓂ ᑕᒪᒃᑯᐊ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ ᐊᓯᖏᓐᓂᒃ ᑐᒃᑐᒋᔭᐅᕙᖕᒥᔪᓂᒃ (ᐆᒃᑑᑎᒋᓗᒋᑦ, ᐃᓗᐃᓪᓕᒥ ᑭᓪᓕᓂᕐᒥᓗ ᑐᒃᑐᖏᓐᓂᒃ ᐅᕝᕙᓗᓐᓃᑦ ᓇᐹᖅᑐᖃᖏᑦᑐᕐᒥᐅᑦ ᑐᒃᑐᖏᓐᓂᒃ) ᐊᔪᕐᓇᖃᑦᑕᕐᓂᖏᓐᓄᓪᓗ ᐊᔾᔨᒌᖏᓐᓂᖏᓐᓂᒃ ᖃᐅᔨᔪᓐᓇᖃᑦᑕᕐᓂᖅ ᖃᖓᑕᔫᒃᑯᑦ ᖃᐅᔨᓴᖅᑕᐅᓂᖏᓐᓂᒃ ᓯᓚᑖᓃᓐᓂᖏᓐᓂ ᓇᔪᒐᕆᔭᐅᒐᔪᖕᓂᖏᓐᓂᒃ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᓐᓄᑦ. ᓄᓇᓖᑦ ᖃᐅᔨᖃᑦᑕᖅᓯᒪᔪᑦ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᑕᖃᕐᓂᖅ ᓯᓚᑖᓂ ᐊᓯᖏᓐᓂ ᓇᔪᒐᕆᔭᐅᒐᔪᖕᓂᖏᓐᓂ (ᑕᑯᑎᑦᑎᒋᐊᕈᑦ 1) ᑭᓯᐊᓂ ᐊᒥᓲᕙᖏᑦᑐᑦ ᑕᒪᒃᑯᓇᓂ ᐊᓯᖏᓐᓂᒃ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ. ᒫᓐᓇᓵᖅ ᐅᖃᐅᓯᐅᓪᓗᑎᒃ ᐅᓗᒃᕼᐊᖅᑑᕐᒥᐅᑦ ᐊᖑᓇᓱᒃᑏᑦ ᑲᑎᒪᔨᕋᓛᖏᓐᓄᑦ ᑐᑭᓯᓇᖅᓯᓚᐅᖅᑐᑦ ᓇᔪᒐᕆᔭᐅᒐᔪᖕᓂᖏᑦ ᓇᔪᒐᕆᔭᐅᒐᔪᖕᓂᖏᑦ ᐊᖏᓪᓕᒋᐊᖅᑕᐅᔭᕆᐊᖃᕐᓂᖏᑦ ᑕᐅᕙᓂ ᑭᓪᓕᓂᕐᒥ ᐃᓚᔭᐅᓗᓂ ᑕᐃᔭᐅᔪᖅ ᓄᓇᖓ Wollaston Peninsula-ᒥ ᓄᐴᐊᓂ. ᑕᒪᓐᓇ ᖃᐅᔨᓴᕐᕕᐅᓯᒪᖏᒻᒪᑦ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᓂᒃ, ᐃᓚᔭᐅᓯᒪᓕᖅᑐᖅ ᐋᕿᐅᒪᔭᐅᓕᖅᑐᓄᑦ ᖃᐅᔨᓴᖅᑕᐅᔪᒪᓂᐊᖅᑐᓄᑦ (**Error! Reference source not found.**).



ᑕᑯᑎᑦᑎᒋᐊᕈᑦ 1. ᕿᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ ᓇᓃᖃᑦᑕᕐᓂᖏᑦ ᐊᑐᖅᓱᑎᒃ ᖃᐅᔨᓴᖅᑎᓄᑦ ᐊᕙᓗᓕᐅᕝᕕᐅᓗᑎᒃ ᐋᕿᒋᐊᖅᑕᐅᓯᒪᓪᓗᑎᒃ Johnson et al 2016 ᖃᐅᔨᓴᖅᑎᓄᑦ ᐊᒻᒪᓗ ᐊᑐᖅᑕᐅᓪᓗᑎᒃ ᑕᒪᐃᓐᓂᒃ ᖃᐅᔨᓴᕝᕕᐅᓚᐅᕐᓂᖏᓐᓂᒃ ᑐᑭᓯᔭᐅᓚᐅᖅᑐᑦ ᐊᒻᒪᓗ ᓄᓇᓕᖕᒥᐅᓄᑦ ᐅᖃᐅᓯᖃᑦᑕᖅᓯᒪᔪᑦ (1970-2020) ᓴᕿᐅᒪᕐᑯᓪᓗᒋᑦ ᐊᔾᔨᑰᖏᓐᓂᖏᑦ ᑕᐃᒃᑯᓇᓂ ᓇᔪᒐᕆᔭᐅᒐᔪᙱᓐᓂᖏᓐᓂ ᐊᒻᒪᓗ ᐊᓯᖏᓐᓂ ᐱᑕᖃᖖᑰᓂᖏᓐᓂ ᓯᓚᑖᓂ ᓇᔪᒐᕆᔭᐅᒐᔪᙱᓐᓂᖏᓐᓂ.
*ᕿᑎᖅᒥᐅᓂ ᓄᓇᓖᑦ ᓱᓕᔪᖅᓴᕐᒪᑕ ᑕᒪᑯᐊ ᓇᐅᑰᖃᑦᑕᕐᓂᖏᓐᓂᒃ ᐊᒻᒪᓗ ᑕᐅᕗᓈᖃᑦᑕᕐᓂᖏᓐᓂᒃ Hadley Bay-ᒥ ᓯᓚᑖᓃᑦᑐᓂᒃ ᓇᔪᒐᕆᔭᐅᒐᔪᙱᓐᓂᖏᓐᓂᒃ ᐊᒻᒪᓗ ᓴᐳᓐᓂᐊᖅᑕᐅᔭᕆᐊᓖᑦ ᐅᒥᐊᕐᔪᐊᕐᓂᒃ ᐊᒻᒪᓗ ᓯᑯᓯᐅᑎᓂᒃ ᐊᒃᑐᖅᑕᐅᓴᕋᐃᓐᓂᖏᓐᓂ ᑕᒪᐃᓐᓂ ᕿᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ ᐊᒻᒪᓗ ᐃᓗᐃᓪᓕᒥ ᑭᓪᓕᓂᕐᒥᓗ ᑐᒃᑐᖏᑦ, ᐊᒻᒪᓗ ᓯᑯᔪᓐᓇᑦᑎᐊᕐᓂᐊᕐᒪᑕ ᐅᑭᐊᒃᓵᒃᑯᑦ.

Please see the Inuktitut translation below :

Survey Observations = ᖃᐅᔾᓴᖅᑕᐅᓂᖏᓐᓂ ᑕᑯᔭᐅᖃᑕᕐᓂᖏᑦ

Peary Caribou movement routes (community information) = ᖁᑦᑎᒃᑐᒥ ᑐᒃᑐᐃᑦ ᓇᐅᒃᑰᕕᒋᕚᒃᑕᖏᑦ (ᓄᓇᓕᖕᓂ ᑐᑭᓯᔭᐅᓯᒪᔪᑦ)

Important Peary Caribou Habitat (community information) = ᐱᒻᒪᕆᐅᓂᖏᑦ ᖁᑦᑎᒃᑐᒥ ᑐᒃᑐᓄᑦ ᓇᕙᒪᕆᔭᐅᕚᒃᑐᑦ (ᓄᓇᓕᖕᓂ ᑐᑭᓯᔭᐅᓯᒪᔪᑦ)

Local Populations = ᓄᓇᓕᖕᓂ ᑐᒃᑐᖃᕐᕕᐅᕚᖕᓂᖏᑦ ᑕᒪᒃᑯᓂᖓ

Territorial boundaries = ᑲᓇᑕᐅᑉ ᐅᑭᐅᖅᑕᖅᑑᓂᖓᓂ ᐊᕕᒃᑐᖅᓯᒪᓂᖏᓐᑦᑐᑦ

Outside Core Range = ᓯᓚᑕᓐᑦᑐᑦ ᓇᕙᒪᔭᐅᓗᐊᖅᐸᒃᑐᓂᒃ

Glaciers = ᐊᐅᕓᐃᑦᑐᑦ

Potential areas needing protection = ᓴᕗᓂᐊᖅᑕᐅᑐᐃᓇᕆᐊᓖᑦ

Kilometers = ᑭᓛᒥᑕᐃᑦ

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Beauford Sea = ᑐᒃᑐᔭᖅᑑᑉ ᑕᕆᐅᖓ

Baffin Island = ᕿᑭᖅᑖᓗᒃ

Ellesmere Island = ᐊᐅᕓᐃᑦᑑᑉ ᕿᑭᖅᑕᖓ

3.2.2 ᓄᓇᓕᖕᓂ ᑐᒃᑐᖃᕐᕕᐅᕙᖕᓂᖏᑦ ᑕᒪᒃᑯᓂᖓ

ᑖᑯᓇᓂ ᐊᒥᓱᑲᖅᓲᓂᕐᒧᑦ ᖃᓄᐃᓕᐅᕈᑎᒃᓴᓂᒃ, ᐅᖃᐅᓯᐅᓂᖏᑦ ᐃᒫᒃ "ᑐᒃᑐᖃᕐᕕᐅᕙᖕᓂᖏᑦ ᑕᒪᒃᑯᓂᖓ" ᑐᑭᓕᒃ ᑐᒃᑐᓂᒃ ᑲᑎᖓᕙᒃᑐᓂᒃ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᓐᓂᒃ ᐃᖕᒥᒨᖅᑐᓂᒃ ᐊᓯᖏᓐᓂᒃ ᑐᒃᑐᓂᒃ, ᑕᐃᒪᐃᓕᖓᔪᓂᒃ ᓇᔪᕆᕙᒃᑕᖏᓐᓂᒃ ᑕᐃᒪᖓᑦ ᓄᕆᔭᐅᓂᖏᓐᓂᒃ ᑐᖁᕙᑎᕙᒃᑕᖏᓐᓄᑦ ᑎᑭᓪᓗᒍ, ᒪᓕᖓᖅᑐᓂᒃ ᓇᑭᖓᖃᑕᕐᓂᖏᓐᓂᒃ ᐊᒻᒪᓗ ᓇᒧᖓᐅᕙᖕᓂᖏᓐᓂᒃ. ᑕᒪᒃᑯᐊ ᑐᒃᑐᖃᕐᕕᐅᕙᒃᑐᑦ ᑕᒪᒃᑯᓂᖓ ᐊᖏᓂᖃᕆᐊᖃᕐᒪᑕ ᐊᖏᔪᒥᒃ ᓄᕐᕆᕕᒋᖃᑕᐅᓇᕆᐊᖃᖅᑕᖏᓐᓂᒃ, ᐅᕿᕕᒋᖃᑕᐅᓇᖅᑕᖏᓐᓂᒃ, ᓈᕝᕕᒋᖃᑦᑕᐅᓇᖅᑕᖏᓐᓄᓗ; ᐊᒻᒪᓗ ᐊᖏᔫᔭᕆᐊᖃᖅᓯᑎᒃ ᓇᔪᕆᕙᒃᑕᖏᓐᓂᒃ ᐊᓯᐊᓄᐊᖃᑕᐅᓇᕐᓂᖅ ᐱᔾᔪᑕᐅᓂᕐᒧᑦ ᐊᕙᑎᖏᓐᓂ ᖃᓄᐃᓕᖓᓕᕐᓂᖏᓐᓂᒃ (ᐊᕙᑎᓕᕆᔨᕐᔪᐊᒃᑯᑦ ᑲᓇᑕᒥ 2011; Johnson et al. 2016).

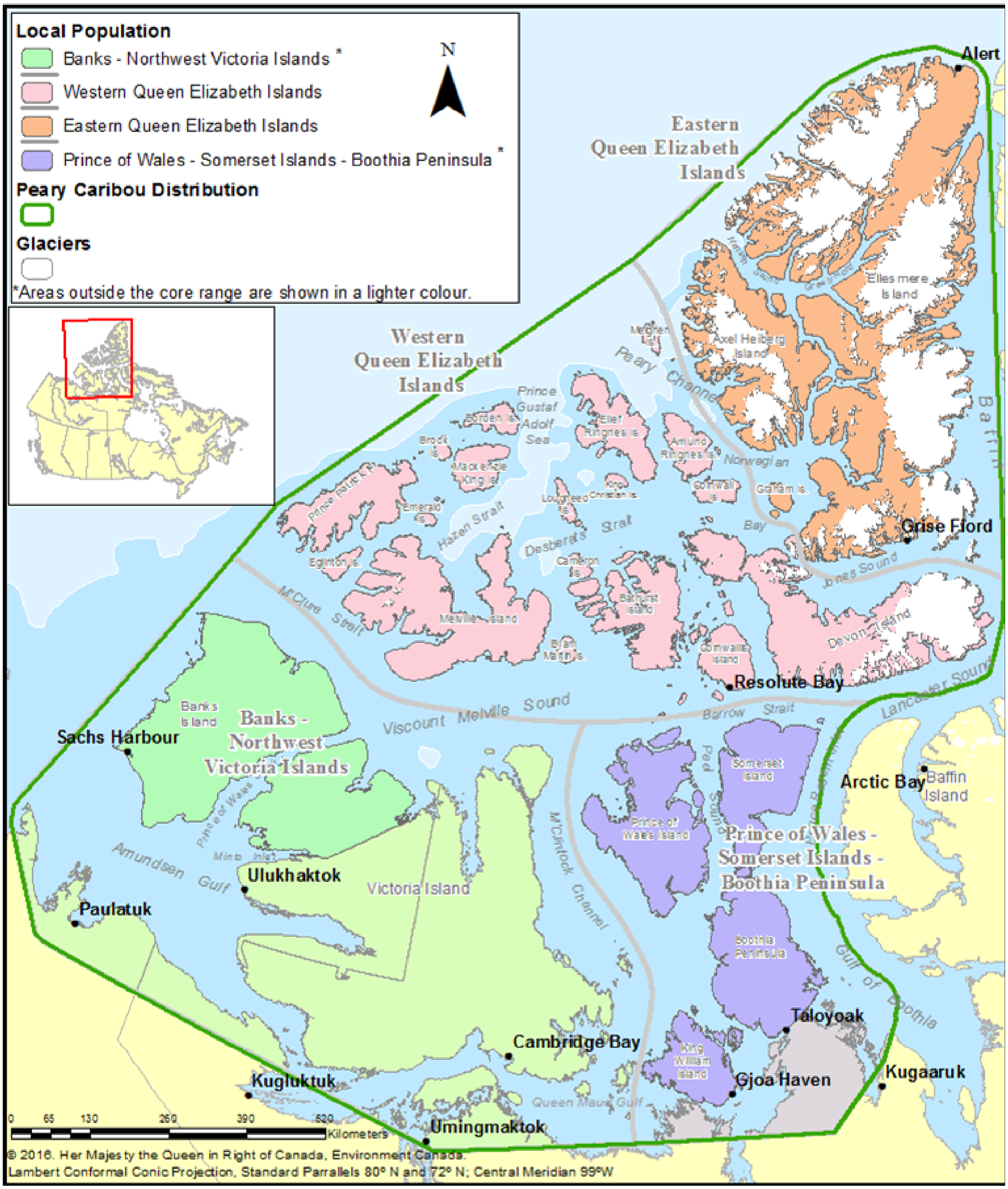
ᑐᒃᑐᑳᕐᕕᐅᕙᖕᓂᖏᑦ ᑕᒪᒃᑯᓂᖓ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᓂᒃ ᑐᑭᓕᐅᖅᑕᐅᓯᒪᕗᑦ ᒪᓕᒃᑐᓂᒃ ᕿᑭᖅᑕᓚᕆᖏᑦᑎᒃ ᓅᖃᑦᑕᕐᓂᖏᓐᓂᒃ, ᑎᒥᖏᓐᓄ ᓴᓇᒪᓂᖏᓐᓂᒃ ᖃᐅᔾᔭᖅᑕᐅᓯᒪᓂᖏᓐᓂ ᐊᒻᒪᓗ ᖃᐅᔨᒪᔾᑕᕐᓄᑦ ᐃᓱᒪᒋᔭᐅᓂᖏᓐᓂᒃ, ᐊᒻᒪᓗ ᐊᑐᖅᑕᐅᓂᖏᓐᓂ ᐃᓄᐃᑦ ᖃᐅᔨᒪᔭᑐᖃᖏᓐᓂᒃ, ᐱᐅᓯᑐᖃᕐᓂᒃ ᐊᕙᑎᒥᒃ ᐊᕙᑎᒥᐅᑕᓂᒡᓗ ᖃᐅᔨᒪᔭᐅᓂᖏᓐᓂᒃ, ᓄᓇᓖᑦ ᖃᐅᔨᒪᔭᖏᓐᓂᒃ ᐊᒻᒪᓗ ᖃᐅᔨᓴᖅᑎᓂᒃ ᖃᐅᔨᔭᐅᓯᒪᔪᓂᒃ (Johnson et al. 2016). ᓈᒪᔪᓂᒃ ᖃᐅᔨᒪᔾᔪᑎᒃᓴᖃᕐᒪᑦ ᐊᑐᖅᑕᐅᔫᓇᖅᑐᓂᒃ ᖃᓄᐃᓕᖓᔫᓇᕐᓂᖏᓐᓂᒃ ᑐᑭᓕᐅᕈᑕᐅᔫᓇᕐᓂ ᑐᒃᑐᖃᕐᕕᐅᕙᖕᓂᖏᑦ ᑕᒪᒃᑯᓂᖓ. ᑭᓯᐅᓂᓕᑦᑕᐅᖅ, ᓇᓗᓇᖅᑐᖃᑎᒍᑦ ᐊᕕᒃᑐᖅᑕᐅᔫᓇᕐᓂᖏᓐᓂᒃ ᑐᒃᑐᖃᕐᕕᐅᕙᖕᓂᖏᑦ ᑕᒪᒃᑯᓂᖓ. ᖃᐅᔨᒪᔾᔪᑎᒃᓴᐃᑦ ᐃᓚᒌᓗᐊᕐᓂᖏᑦ ᐱᔾᔪᑕᐅᓗᑎᒃ.

ᓯᑕᒪᐅᕗᑦ 4 ᑐᒃᑐᖃᕐᕕᐅᕙᖕᓂᖏᑦ ᑕᒪᒃᑯᓂᖓ ᐅᑯᓇᓂ (Johnson et al. 2016):

1. ᐃᑳᕼᐆᑉ ᕿᑭᖅᑕᖓᓂ – ᐃᑳᕼᐆᑉ ᕿᑭᖅᑕᖓᓂ - ᐅᐊᖕᓇᖅᐸᓯᖓᑕ ᐱᖓᖕᓇᖓᓂ ᑮᓕᓂᐅᑉ ᕿᑭᖅᑕᓚᓴᐃᑦ
2. ᑭᖓᐃᓚᐅᑉ ᑕᕆᐅᕌᓗᐊᑕ ᐱᖓᖕᓇᖓᓂ ᕿᑭᖅᑕᐃᑦ
3. ᑭᖓᐃᓚᐅᑉ ᑕᕆᐅᕋᓗᐊᑕ ᑲᓇᖕᓇᖓᓂ ᕿᑭᖅᑕᐃᑦ
4. ᑭᖓᐃᓚᐅᑉ ᕿᑭᖅᑕᖓᓂ – ᑰᓚᓇᔩᑉ ᕿᑭᖅᑕᓚᓴᐃᑦ ᐊᑯᓂᖏᓐᓂ - ᐃᑦᑐᐊᖅᑐᕐᕕᐅᑉ ᓄᕗᐊᓂ

ᑕᐃᒃᑯᐊ ᑐᒃᑐᖃᕐᕕᐅᕙᖕᓂᖏᑦ ᑕᒪᒃᑯᓂᖓ ᑕᑯᒃᓴᐅᔪᑦ ᑕᐃᑲᓂ ᑕᑯᑎᑦᑎᕆᐊᕈᑦ 2.

ᑐᒃᑐᖃᕐᕕᐅᕙᖕᓂᖏᑦ ᑕᒪᒃᑯᓂᖓ ᑐᑭᓕᐅᖅᑕᐅᓂᖏᑦ ᑎᑎᕋᖅᑕᐅᓯᒪᔪᑦ ᐋᕿᕆᐊᖅᑕᐅᕙᓂᐊᖅᑐᑦ ᐱᔭᕆᐊᖃᕌᖓᒥᒃ, ᖃᖓᑐᐃᓐᓇᖅ ᓄᑖᓂᒃ ᖃᐅᔮᔭᐅᔭᖅᐸᑦ ᐊᑐᐃᓐᓇᐅᓕᕈᑎᒃ. ᖃᐅᔨᒪᔭᐅᓂᐊᖅᐳᖅ ᑕᒪᒃᑯᐊ ᓴᕿᐅᒪᓂᖏᑦ ᑐᒃᑐᖃᕐᕕᐅᕙᖕᓂᖏᑦ ᑕᒪᒃᑯᓂᖓ ᐅᖃᐅᓯᖃᕈᐊᖅᑐᑦ ᒪᓕᒃᑐᓂᒃ ᐱᐅᓯᑐᖃᕐᒥᓂᒃ ᐊᑐᖅᓯᑎᒃ ᓇᒧᖓᐅᖃᑦᑕᕐᓂᖏᑦ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ ᐊᒻᒪᓗ ᐱᖃᓯᐅᔾᔨᓚᑎᒃ ᐱᒪᕆᐊᔪᓄᒃ ᓅᓯᑳᓪᓚᖃᑦᑕᕐᓂᖏᓐᓂᒃ ᖃᖓᑐᐃᓐᓇᖅ ᑕᐃᒪᐃᑐᓇᖃᑦᑕᕐᒪᑕ 20-ᑕᒪᑦ 30-ᑕᒦᓂᓗᓐᓃᑦ ᐊᕐᕌᒍᑎᓂᒃ ᐊᓯᐊᓄᐊᕋᓯᐊᖅᓱᑎᒃ ᐊᕙᑎᖓᓂ ᐱᐅᔫᖅᓯᒪᓂᖓᓄᑦ ᐅᕝᕙᓗᓐᓃᑦ ᓂᕿᒃᓴᖃᑦᑎᐊᕈᓐᓃᖅᓯᒪᓂᖏᓐᓄᑦ (ᑲᓇᑕᒥ ᐆᒪᔪᓕᕆᓂᕐᒧᑦ ᐱᓗᑦᑎᕋᐃᔫᑦ 2015).



ᑕᑯᑎᑦᑎᒋᐊᕈᑦ 2. ᓄᓇᓕᖕᓂ ᑐᒃᑐᖃᕐᕕᐅᕙᓂᖏᑦ ᑕᒪᒃᑯᓂᖓ ᖁᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ ᐋᕿᒋᐊᖅᑕᐅᓯᒪᔪᑎᒃ Johnson et al. 2016.

Please see the Inuktitut translation below :

Local Populations = ᓄᓇᓕᖕᓂ ᑐᒃᑐᖃᕐᕕᐅᕙᓂᖏᑦ ᑕᒪᒃᑯᓂᖓ

Banks - Northwest Victoria Islands = ᐃᑳᕼᐆᑉ ᕿᑭᖅᑕᖓᓂ - ᐅᐊᖕᓇᖅᐸᓯᖓᑕ ᐱᖓᓐᓇᖓᓂ ᑭᓪᓕᓂᐅᑉ ᕿᑭᖅᑕᙳᐃᑦ

Western Queen Elizabeth Islands = ᑭᖓᐃᓚᐅᑉ ᑕᕆᐅᕌᓗᐊᑕ ᐱᖓᓐᓇᖓᓂ ᕿᑭᖅᑕᙳᐃᑦ

Prince of Whales – Somerset Islands - Boothia Peninsula = ᑭᖓᐃᓚᐅᑉ ᕿᑭᖅᑕᖓᓂ – ᑰᒪᓇᔩᑉ ᕿᑭᖅᑕᖓᓂ ᐊᑯᓂᖏᓐᓂ - ᐃᑦᑐᐊᖅᑐᕐᕕᐅᑉ ᓄᕗᐊᓂ

Peary Caribou Distribution = ᕐᑯᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᐃᑦ ᓇᓃᖃᑦᑕᕐᓂᖏᑦ

*Areas outside the core range are shown in a lighter colour = *ᑕᐃᒃᑯᐊ ᓯᓚᑖᓃᑦᑐᑦ ᓇᔪᒪᓇᔭᐅᓗᐊᖅᐸᒃᑐᓂᒃ ᑕᖅᓴᖃᑎᖅᑕᐅᕗᑦ ᖃᐅᒪᓂᖅᓴᓂᒃ

Kilometers = ᑭᓛᒥᑕᐃᑦ

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3.2.3 ᑐᒃᑐᐃᑦ ᐊᒥᒨᓂᖏᑦ ᐊᒻᒪᓗ ᖃᓄᐃᓕᕚᓕᐊᓂᖏᑦ

ᖃᐅᔨᓇᓱᒃᓱᕐᑦ ᑕᒻᒪᖅᓯᒪᓐᖏᑦᑐᓂᒃ ᐊᒥᓱᓂᖏᓐᓂᒃ ᑕᒪᒃᑯᓂᖓ ᕐᑯᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖃᕐᕕᐅᕙᓐᓂᖏᓐᓂ ᐊᒃᓱᕈᕐᓇᖃᑦᑕᖅᐸᖅ ᐊᒻᒪᓗ ᐊᑭᑐᔪᐊᓘᓗᑎᒃ ᑎᑭᑕᐅᓴᕋᐃᓐᖏᓂᖏᑦ ᕐᑯᑦᑎᒃᑐᒥᒃ ᕿᑭᖅᑕᓚᓴᐃᑦ, ᐅᖓᓯᖕᓂᖏᓐᓄᑉᓗ ᓇᓃᓐᓂᖏᑦ ᕐᑯᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ ᐊᖏᔪᐊᓗᖕᒥ ᓄᓇᒥ, ᐊᒻᒪᓗ ᐆᒪᔪᐃᑦ ᓇᒧᖓᐅᔪᓐᓇᖃᑦᑕᕐᓂᖏᓐᓄᑦ ᓇᓕᐊᒃᑯᑐᐃᓐᓇᖅ ᕿᑭᖅᑕᓚᓴᐅᖕᒥᔪᓂ ᑕᐅᕙᓂ (ᐅᖅᓱᖅᑑᑉ ᐊᖑᓇᓱᒃᑎᖏᑦ 2013; ᐅᓗᒃHᐊᖅᑑᕐᒥᐅᑦ ᐊᖑᓇᓱᒃᑏᑦ ᑲᑎᒪᔨᕋᓛᖏᑦ 2013; ᐸᐅᓗᑑᑉ ᐊᖑᓇᓱᒃᑏᑦ ᑲᑎᒪᔨᕋᓛᖏᑦ 2013; ᖃᐅᓯᐃᑦᑑᑉ ᐊᖑᓇᓱᒃᑎᖏᑦ 2013; ᑲᓇᑕᒥ ᐆᒪᔪᓕᕆᓂᕐᒧᑦ ᐱᔨᑦᑎᕋᐃᔩᑦ 2015; ᑳᓯᐃᒃᑯᑦ ᑲᑎᒪᔨᕋᓛᖏᑦ 2015). ᓄᓇᓕᑦ ᐃᓕᑕᖅᓯᓯᒪᖏᒪᑕ ᐱᒻᒪᕆᐅᓂᖏᓐᓂᒃ ᑕᐃᒪᖓᒡᑦ ᑐᒃᑐᐃᑦ ᖃᐅᔨᓴᖅᑕᖃᑕᐃᓐᓇᕆᐊᖃᕐᓂᖏᓐᓂᒃ ᐊᒻᒪᓗ ᐃᓕᑕᖅᓯᓗᑎᒃ ᐊᔪᕐᓇᕈᑕᐅᕙᖕᓂᖏᓐᓂᒃ ᕐᑯᓛᓂ ᐅᖃᐅᓯᐅᔪᑦ, ᐊᒻᒪᓗ ᐊᔪᕐᓇᖃᑦᑕᖅᓯᑎᒃ ᑕᑯᔭᐅᔪᓐᓇᖃᑦᑕᕐᓂᖅ ᑕᒪᒃᑯᐊ ᕐᑯᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ ᐊᐳᒥᓂᖏᓐᓂ ᖃᑯᕐᓂᖓᓄᑦ ᐅᕝᕙᓗᓐᓃᑦ ᐃᓕᑕᕆᔭᐅᔪᓐᓇᕐᓂᖏᓐᓂ ᐃᓚᓕᐅᑎᓯᒪᓕᕚᖓᑕ ᐊᓯᖏᓐᓄᑦ ᑐᒃᑐᓄᑦ ᐊᓯᖏᓐᓄᑦ ᐊᔾᔨᖏᑕᒥᓄᑦ ᑕᐅᕙᓂ ᓂᕆᖅᐸᓯᐊᓂ ᓇᔪᕈᓐᓇᕐᒥᔭᖏᓐᓂ (ᐅᖅᓱᖅᑑᑉ ᐊᖑᓇᓱᒃᑎᒃᑯᑦ 2016; ᕐᑯᑕᐃᕈᕐᔪᐊᑉ ᐊᖑᓇᓱᒃᑎᒃᑯᑦ 2016; ᐅᓗᒃHᐊᖅᑑᕐᒥᐅᑦ ᐊᖑᓇᓱᒃᑏᑦ ᑲᑎᒪᔨᕋᓛᖏᑦ 2016; ᐃᑳHᐄᑉ ᐊᖑᓇᓱᒃᑏᑦ ᑲᑎᒪᔨᕋᓛᖏᑦ 2016). ᐊᒻᒪ ᓱᓕ, ᓯᓚᑦᑎᐊᕙᐅᖏᑎᓪᓗᒍ ᓱᒃᑲᐃᓗᑕᐅᖃᑕᓇᕗᑦ ᐊᔪᓕᕈᑕᐅᕝᒃᑐᓪᓗᓐᓃᑦ ᐊᐅᓪᓛᖃᑕᕈᓐᓇᕐᓂᖅ ᕐᑯᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖃᕐᕕᐅᕙᖕᓂᖏᓐᓄᑦ (ᑳᓯᐃᒃᑯᑦ ᑲᑎᒪᔨᕋᓛᖏᑦ 2015). ᑕᐃᒪᐃᓐᓂᖓᓄᑦ, ᐊᑭᑐᕙᖕᓂᖏᓐᓄᑦ, ᓯᓚᑦᑎᐊᕙᐅᖏᓐᓂᖓᓄᓪᓗᓐᓃᑦ, ᖃᐅᔨᓴᕐᕕᐅᔪᓐᓇᕐᓂᖏᑦ ᕐᑯᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᐃᑦ ᓇᓃᖃᑦᑕᕐᓂᖏᓐᓂ ᐱᔭᕇᖅᑕᐅᕙᔪᐃᑉᐳᑦ ᐊᑕᐅᓯᕐᒥ ᖃᐅᔨᓴᕐᓇᐅᔪᒥ ᐊᒻᒪᓗ ᐊᕐᕌᒍᓚᓴᐅᕙᒃᑐᓂᒃ ᖃᐅᔨᔭᐅᓇᓱᒃᑐᑦ ᐃᓛᓂᒃᑯᑦ ᐊᑯᓂᐊᓘᕈᓐᓇᖅᑐᑦ (ᐅᓗᒃHᐊᖅᑑᕐᒥᐅᑦ ᐊᖑᓇᓱᒃᑏᑦ ᑲᑎᒪᔨᕋᓛᖏᑦ 2013; ᑳᓯᐃᒃᑯᑦ ᑲᑎᒪᔨᕋᓛᖏᑦ 2015). ᐃᓄᐃᑦ ᖃᐅᔨᒪᔭᑐᖃᖏᑦ/ᐱᐅᓯᑐᖃᕐᓂᒃ ᐊᕙᑎᒥᒃ ᐊᕙᑎᓕᕆᓂᕐᒥᒡᓗ ᖃᐅᔨᒪᔭᐅᔪᑦ ᐊᒻᒪᓗ ᓄᓇᓖᑦ ᐱᑕᖃᖅᑎᕆᕙᖕᓂᖏᓐᓂᒃ ᕐᑯᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᓂᒃ ᑕᒪᐃᓐᓂᒃ ᖃᐅᔨᒪᔭᐅᖃᑦᕐᒪᑕ ᖃᓂᒋᔭᐃᓐᓇᖏᓐᓂ ᐊᕙᑎᒥᓃᑦᑐᓂᒃ.

ᑐᖓᕕᐅᓪᓗᑎᒃ ᐱᐅᓂᖅᐸᑦ ᐊᑐᐃᓐᓇᐅᔪᑦ ᖃᐅᔨᒪᔅᔪᑎᒃᓴᐃᑦ, ᒫᓐᓇᐅᔪᖅ ᑕᒪᐃᓐᓂᒃ ᐊᒥᒨᓂᖏᑦ ᕐᑯᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ ᑲᓇᑕᓕᒫᒥ ᑕᒫᓐᓇᓱᕆᔭᐅᕗᑦ ᖃᓂᕆᔭᖓᓐᓂ 13,200 ᐱᕈᐊᓂᒃᓯᒪᔪᓂ (ᑳᓯᐃᒃᑯᑦ ᑲᑎᒪᔨᕋᓛᖏᑦ 2015). ᓇᓚᐅᑖᖅᑕᐅᓚᐅᕐᓂᖏᑦ ᑕᒫᓐᓇᓱᕆᔭᐅᓕᖅᑐᑦ 13,200-ᓂᒃ, ᑲᑕᒃᓯᒪᓗᑎᒃ ᖃᓂᕆᔭᖏᓐᓇᓱᕆᔭᐅᓚᐅᖅᑐᓂ 22,000-ᓂᒃ, ᕐᑯᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ ᐊᕐᕌᒍᒥ 1987 ᐊᒻᒪᓗ ᓇᓚᐅᑖᖅᑕᐅᓚᐅᕐᓂᖏᓐᓂᒃ ᖃᓂᕆᔭᖏᓐᓃᕐᓂᖅ 50,000-ᐃᑦ ᕐᑯᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ ᐱᕆᐊᓕᕝᕐᓂᖏᓐᓂ 1960-ᖏᓐᓂ, ᐊᒥᒨᓂᖅᓴᐅᖓᓗᐊᖅᓱᑎᒃ ᑕᒫᓐᓇᓱᕆᔭᐅᓚᐅᖅᑐᑦ 5,400 ᐱᕈᐊᓂᒃᓯᒪᓂᖏᓐᓂᒃ 1996-ᒥ (ᑳᓯᐃᒃᑯᑦ ᑲᑎᒪᔨᕋᓛᖏᑦ 2015).

ᕐᑯᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᓐᓂ ᐊᒥᓱᓂᖏᑦ ᐱᐅᓯᑐᖃᕐᒥᔪᖑᑦ ᐊᒥᓱᕈᖅᐸᒃᑐᑦ ᐊᒻᒪᓗ ᐊᒥᒫᔪᓐᓃᓇᐊᖃᑦᑕᖅᓱᑎᒃ ᐊᒻᒪᓗ ᐃᓛᓂᒃᑯᑦ ᑐᕐᑯᕋᖃᑕᓇᓪᓗᑎᒃ (Tews et al. 2007b; ᐸᐅᓗᑑᑉ ᐊᖑᓇᓱᒃᑏᑦ ᑲᑎᒪᔨᕋᓛᖏᑦ 2013; ᐃᑳHᐄᑉ ᐊᖑᓇᓱᒃᑏᑦ ᑲᑎᒪᔨᕋᓛᖏᑦ 2013; ᑲᓇᑕᒥ ᐆᒪᔪᓕᕆᓂᕐᒧᑦ ᐱᔨᑦᑎᕋᐃᔩᑦ 2015; ᑳᓯᐃᒃᑯᑦ ᑲᑎᒪᔨᕋᓛᖏᑦ 2015). ᕐᑯᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᐃᑦ ᐊᒥᒨᓂᖏᑦ ᖃᐅᔨᒪᔭᐅᕗᑦ ᐊᒥᒫᔪᓐᓃᖃᑦᑕᕐᓂᖏᓐᓂᒃ ᐊᒻᒪᓗ ᑭᖑᓂᐊᒍᑦ ᐊᒥᓱᕈᓇᐊᖃᑦᑕᓇᓪᓗᑎᒃ, ᑭᓯᐊᓂ ᐊᒥᒫᔪᓐᓃᑳᓪᓚᒃᑯᑎᒃ ᕿᓚᒥᐅᓗᐊᖅᑐᖅ, ᐊᒥᓱᕈᒃᑲᓂᕈᓐᓇᕐᓂᖏᑦ ᐊᔪᕐᓇᕐᓂᖅᓴᐅᔫᔭᖃᑦᑕᖅᐳᑦ (ᐸᐅᓗᑑᑉ ᐊᖑᓇᓱᒃᑏᑦ ᑲᑎᒪᔨᕋᓛᖏᑦ 2013; ᐃᑳHᐄᑉ ᐊᖑᓇᓱᒃᑏᑦ ᑲᑎᒪᔨᕋᓛᖏᑦ 2013).

ᐃᑳHᐄᑉ ᕿᑭᖅᑕᖓᓂ - ᐅᐊᖕᓇᖅᐸᓯᖓᑕ ᐱᖓᖕᓇᖓᓂ ᑭᓪᓕᓂᐅᑉ ᕿᑭᖅᑕᓚᓴᖏᓐᓂ ᑐᒃᑐᖃᕐᕕᐅᕙᖕᓂᖏᑦ ᑕᒪᒃᑯᓂᖓ ᐊᒥᐟᓯᔪᓐᓂᖅᓯᒪᖓᑕ ᑕᒪᐃᓐᓂᒃ ᑕᐃᒪᖓᒡᑦ ᐊᕐᕌᒍᖏᓐᓂ 1970-ᖏᓐᓂ ᑭᓯᐊᓂ ᑕᑯᒃᓴᐅᕚᓪᓕᐊᓕᖅᑐᑦ ᐊᒥᓱᕈᖅᐸᓪᓕᐊᓚᐅᕐᓂᖏᑦ ᐅᖓᑖᓂ 10 ᐊᕐᕌᒍᓂ (Johnson et al. 2016). ᖃᐅᔨᒪᓂᖏᓐᓂᒃ ᓄᓇᓖᑦ ᑕᐃᑲᓂ ᐃᑳHᐅᖏ ᐊᖏᕈᑎᖃᖅᑐᑦ ᐊᒥᓱᕈᖅᐸᓕᐊᓂᖏᓐᓂᒃ (ᐃᑳHᐄᑉ ᐊᖑᓇᓱᒃᑏᑦ ᑲᑎᒪᔨᕋᓛᖏᑦ 2016; ᐃᑳHᐄᑉ ᐊᖑᓇᓱᒃᑏᑦ ᑲᑎᒪᔨᕋᓛᖏᑦ 2021). ᑭᖑᓪᓕᕐᒥ

ᓇᓚᐅᑖᖅᑕᐅᒐᒥᒃ (ᐊᑮᒃᑐᖅᓯᒪᓂᖏᑦ 2) ᑕᒫᓃᓚᐅᖅᑐᑦ 2,742 ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ ᐃᑳᕼᐄᐸ ᕿᑭᖅᑖᖓᓂ ᐊᒻᒪᓗ ᐊᒥᓲᓂᖏᑦ 299-ᖑᓚᐅᖅᑐᑦ ᑕᐅᕙᓂ ᐅᐊᖕᓇᖅᐸᓯᖓᑕ ᐱᖓᖕᓇᖓᓂ ᑭᓪᓕᓂᐅᐸ ᕿᑭᖅᑕᒐᓴᖏᓐᓂ (Davison and Williams 2013; Davison et al. 2014). ᑕᒫᓂ 2019-ᒥ, ᓄᓇᕐᔪᐊᕐᒥ-ᐊᕙᑎᓕᕆᔩᒃᑯᑦ ᓄᓇᒥᐅᑕᓕᕆᔨᓪᓗ ᖃᐅᔨᓴᕋᒥᒃ ᑕᐅᕙᓂ ᐃᑳᕼᐄᐸ ᕿᑭᖅᑖᖓᓂ, ᑐᑭᓯᕝᕕᐅᓚᐅᖅᑐᑦ ᐊᒥᒋᓃᖃᕋᓱᕆᔭᐅᓂᖅ ᑕᒫᓂ ᓇᓚᐅᑦᑖᖅᑕᐅᓂᖏᓐᓂ 1,913 ± 406 (95%CI) ᐱᕈᐊᓂᒃᓯᒪᔪᓂ. ᓄᓇᕐᔪᐊᕐᒥ-ᐊᕙᑎᓕᕆᔩᒃᑯᑦ ᓄᓇᒥᐅᑕᓕᕆᔨᓪᓗ ᖃᐅᔨᓚᐅᕐᒥᔪᑦ ᑕᐅᕙᖓᓂ ᐅᐊᖕᓇᖅᐸᓯᖓᑕ ᐱᖓᖕᓇᖅᐸᓯᖓᓂ ᑭᓪᓕᓂᕐᒥ, ᑕᒫᓂ 2019-ᒥ, ᓇᓚᐅᑖᖅᑕᐅᓚᐅᖅᑐᓂ 78 ± 136 (95% CI) ᐱᕈᐊᓂᒃᓯᒪᔪᓂᒃ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᓐᓂᒃ ᑕᐅᕙᓂ ᓇᓗᓇᐃᒃᑯᑕᓕᖓᓂ A-ᒥ ᐊᒻᒪᓗ ᓇᓴᐅᑎᓕᖓᓂᒃ 98 ± 91 (95% CI) ᐱᕈᐊᓂᒃᓯᒪᔪᓂ ᑕᐅᕙᓂ ᐱᑕᖃᕐᓂᖅ ᓇᓗᓇᐃᖅᑕᐅᓯᒪᔪᓂ C-ᒥ. ᑕᐃᒃᑯᐊ ᐋᕿᒋᐊᖅᑕᐅᓯᒪᓐᖏᑦᑐᑦ ᓱᓕ ᐱᖃᓯᐅᔾᔭᐅᓯᒪᓐᖏᓂᖏᓐᓂ ᓄᕐᕋᐃᑦ, ᓈᓴᐅᓯᖏᓂᕐᒧᓪᓗ ᐊᔾᔨᒌᖏᓐᓂᖃᓐᖏᑦᑐᑦ ᐊᒥᓲᖏᓐᓂᒃ ᓇᓚᐅᑖᖅᑕᐅᓚᐅᖅᑐᓂᒃ ᑕᒫᓂ 2014-ᒥ (ᐃᑳᕼᐄᐸ ᕿᑭᖅᑖᖓᓂ) ᐊᒻᒪᓗ 2010-ᒥ (ᐅᐊᖕᓇᖅᐸᓯᖓᑕ ᐱᖓᖕᓇᖓᓂ ᑭᓪᓕᓂᐅᐸ). ᑕᐅᕙᓂ ᑭᓪᓕᓂᕐᒥ, ᐊᔪᕐᓇᖃᑦᑕᖅᐳᖅ ᐊᔾᔩᖏᓐᓂᖏᓐᓂᒃ ᐊᑮᒃᑐᐃᖃᑕᕈᓐᓇᕐᓂᖅ ᑐᒃᑐᖏᓐᓂ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ ᐊᒻᒪᓗ ᐃᓗᐃᓪᓕᒥ ᑭᓪᓕᓂᕐᒥᓗ ᑐᒃᑐᖏᓐᓂᒃ ᖃᖓᑕᓱᒃᑯᕐᓂᖏᓐᓂ ᐱᔾᔪᑕᐅᓂᕐᒧᑦ ᐊᑯᓯᒪᖃᑕᕐᒪᑕ ᓇᔪᒐᓇᔭᖏᓐᓂ ᐃᓵᓂᒃᑯᑦ ᐊᕐᕋᒍᒥ (ᑲᓇᑕᒥ ᐆᒪᔪᓕᕆᓂᕐᒧᑦ ᐱᔨᑦᑎᕋᐃᔩᑦ 2015).

ᑭᖑᓪᓕᐅᓚᐅᖅᑐᓂ ᓈᓴᖅᑕᐅᒋᐊᕋᒥᒃ (ᐊᑮᒃᑐᖅᓯᒪᓂᖏᑦ 2), ᑕᒪᐃᓐᓂᑲᓴᒃ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ ᑕᐅᕙᓂ ᑭᖓᐃᓚᐅᐸ ᑕᓇᐅᕚᓗᐊᑕ ᐱᖓᖕᓇᖓᓂ ᕿᑭᖅᑕᒐᓴᖏᑦ ᑐᒃᑐᖃᕐᕕᐅᕙᖕᓂᖏᑦ ᑕᒪᒃᑯᓂᖓ ᑕᑯᔭᐅᓚᐅᕐᒥᔪᑦ ᑕᐅᕙᓂ ᐃᓗᐃᓪᓕᕐᒥ (3,224), Prince Patrick->ᕆᓐᓯ ᐹᑐᕆᒃᒥ (3,067) ᐊᒻᒪᓗ ᕿᖓᐅᒻᒥ (1,463) ᕿᑭᖅᑕᖏᓐᓂ (Davison and Williams 2012; Anderson 2014). ᐊᑯᓂᐅᔪᒥᒃ ᖃᓄᐃᓕᕙᓪᓕᐊᓂᖏᑦ ᑕᒪᑯᓇᓂ ᑐᒃᑐᖃᕐᕕᐅᕙᖕᓂᖏᓐᓂ ᐊᒥᓱᕈᖅᐸᓪᓕᐊᓂᕋᖅᑕᐅᕗᑦ. ᕿᓚᒥᐅᔪᒥᒃ ᖃᓄᐃᓕᕙᓪᓕᐊᓂᖏᑦ ᖃᐅᔨᓴᕐᕕᐅᓂᖏᓐᓂ ᓱᓕ ᖃᐅᔨᒪᔭᐅᖏᑦᑐᑦ ᐱᔾᔪᑕᐅᓗᑎᒃ ᖃᐅᔨᒪᔾᔪᑎᒃᓴᖃᑦᑎᐊᖏᓗᐊᕐᓂᖏᑦ. ᓄᓇᓕᖕᓄᑦ ᖃᐅᔨᒪᔭᐅᓂᖏᓐᓂ, ᑭᓯᐊᓂᓕᑕᐅᖅ, ᐅᖃᐅᓯᖃᑦᑕᖅᓯᒪᔪᑦ ᕿᓚᒥᐅᔫᒃᑯᑦ ᐊᒥᓱᕈᖅᐸᓪᓕᐊᓕᕐᓂᖏᓐᓂᒃ (ᖃᐅᓯᐃᑦᑑᐸ ᐊᖑᓇᓱᒃᑎᖏᑦ 2016).

ᑭᖑᓪᓕᕐᒥ ᖃᐅᔨᓴᕐᕕᐅᒐᒥᒃ (ᐊᑮᒃᑐᖅᓯᒪᓂᖏᑦ 2) ᑕᐅᕙᓂ ᑯᐃᓐ ᐃᓕᓴᐱᒧᑦ ᕿᑭᖅᑕᐅᓂᖃᖅᑕᐅᔫᐸ ᑲᓇᖕᓇᖓᓂ ᑎᑎᕋᖅᑕᐅᓯᒪᔪᑦ ᑕᒫᓃᓐᓂᖅ 2,255 ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ ᑕᐅᕙᓂ ᓇᐹᖅᑐᓕᖕᒥ ᐅᒥᖕᒪᐃᑦ ᓄᓈᓂ ᐊᒻᒪᓗ ᑕᒫᓂ 918-ᖏᓐᓂ ᐊᐅᓯᐃᑦᑑᐸ ᕿᑭᖅᑖᓗᐊᓂ (Jenkins et al. 2011; Anderson and Kingsley 2015). ᑕᒪᐃᓐᓂᒃ ᐊᑯᓂᐅᓂᐊᖅᑐᒧ ᓯᕗᓂᒃᓴᒧᑦ ᕿᓚᒥᐅᓂᐊᖅᑐᓪᓗ ᐱᕙᓪᓕᐊᓂᖏᑦ ᑕᒪᒃᑯᐊ ᑐᒃᑐᖃᕐᕕᐅᕙᖕᓂᖏᑦ ᖃᐅᔨᒪᔭᐅᖏᑦᑐᑦ ᐱᔾᔪᑕᐅᓂᕐᒧᑦ ᖃᐅᔨᒪᔾᔪᑎᒃᓴᖃᖏᓗᐊᕐᓂᖏᑦ (Johnson et al. 2016).

ᑭᖓᐃᓚᐅᐸ ᕿᑭᖅᑖᖓᓂ – ᑰᒐᓇᔫᐸ ᕿᑭᖅᑕᒐᓴᐃᑦ ᐊᑯᓂᖏᓐᓂ - ᐃᑦᑐᐊᖅᑐᕐᕕᐅᐸ ᓄᕗᐊᓂ ᑐᒃᑐᖃᕐᕕᐅᕙᖕᓂᖏᑦ ᑕᒪᒃᑯᓂᖓ ᐊᒥᓲᖏᑦᑐᓂᒃ ᐃᓄᖕᓄᑦ ᐅᖃᐅᓯᐅᓚᐅᖅᑐᑦ ᒫᓇᓵᖅ ᖃᐅᔨᓴᖅᑕᐅᓚᐅᖅᑐᓂ (ᐊᑮᒃᑐᖅᓯᒪᓂᖏᑦ 2) ᑕᒫᓂ 2004, 2006 ᐊᒻᒪᓗ 2016 (Dumond 2006; Jenkins et al. 2011; Anderson 2016a). ᑕᐃᒃᑯᑎᑐᓇ ᑭᓪᓕᓂᕐᒥ, ᑕᒪᓇ ᑐᒃᑐᖃᕐᕕᐅᕙᖕᓂᖏᑦ ᑕᒪᒃᑯᓂᖓ ᐱᓗᐊᖅᑐᒥᒃ ᐊᔪᕐᓇᖃᑦᑕᖅᑐᑦ ᖃᐅᔨᓴᕈᓐᓇᕐᓂᖅ ᐱᔾᔪᑕᐅᓗᑎᒃ ᑐᒃᑐᖃᕐᕕᐅᓂᖏᑦ (ᑐᒫᓂᓗᐊᒻᒪᕆᒃ ᐃᑦᑐᐊᖅᑐᕐᕕᐅᐸ ᓄᕗᐊᓂ) ᑐᒃᑐᖃᕐᕕᐅᕙᖕᓂᖏᓐᓄᑦ ᓇᐸᖅᑐᖃᖏᑦᑐᕐᒥᐅᑦ ᑐᒃᑐᖏᓐᓂᒃᑕᐅ. ᐊᔪᕐᓇᖃᑦᑕᕐᒪᑦ ᐊᔾᔩᖏᓐᓂᖏᓐᓂᒃ ᖃᐅᔨᖃᑕᐅᓇᕐᓂᖅ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᓐᓂᒃ ᑕᐃᒃᑯᓇᖓᑦ ᓇᐹᖅᑐᖃᖏᑦᑐᕐᒥᐅᑕᓂᒃ ᖃᐅᔨᓴᖅᑕᐅᓂᖏᓐᓂ ᑎᖏᕓᑯᑦ. ᐃᓯᒪᒋᔭᐅᓯᒪᖕᒥᔪᑦ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ ᓂᒋᖅᐱᖑᒥᓂᖅᓴᐅᖃᑦᑕᕐᓂᖏᓐᓂᒃ ᑕᐃᒪᖓᓂᒃ ᖃᐅᔨᓴᕐᕕᐅᑕᐃᓇᕐᓂᖏᓐᓂᒃ (ᐊᐃᕓᖅ ᐊᖑᓇᓱᒃᑎᖏᑦ; ᑕᓗᕐᔪᐊᐸ ᐊᖑᓇᓱᒃᑎᖏᑦ 2013; ᑲᓇᑕᒥ ᐆᒪᔪᓕᕆᓂᕐᒧᑦ ᐱᔨᑦᑎᕋᐃᔩᑦ 2015). ᑕᑯᔭᐅᖃᑦᑕᕐᓂᖏᓐᓂ ᐃᓄᖕᓄᑦ ᓄᓇᓕᖕᓂ ᐅᖅᓱᖅᑑᐸ, ᖃᐅᓯᐃᑦᑑᐸ ᐊᒻᒪᓗ ᐊᐅᓯᐃᑦᑑᐸ, ᐊᒻᒪᓗ ᖃᐅᔨᓴᖅᑎᓄᑦ ᖃᐅᔨᔭᐅᓯᒪᓗᑎᒃ ᑐᑭᓯᓇᖅᑐᑦ ᑕᐃᒃᑯᐊ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ ᓅᖃᑦᑕᕐᒪᑕ ᑕᐅᕙᖕᒋᑦ ᑭᖓᐃᓚᕐᒥᒃ ᑕᒫᓂ ᐅᑭᐊᒃᓵᒃᑯᑦ (Miller and Gunn 1978; ᐊᐅᓯᐃᑦᑑᐸ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᓕᕆᓂᕐᒥᒃ ᑲᑎᒪᓂᖏᓐᓂ ᐃᓕᓐᓂᐊᖅᓱᑎᒃ 1997; Miller et al. 2005; Taylor 2005; ᐅᖅᓱᖅᑑᐸ ᐊᖑᓇᓱᒃᑎᖏᑦ 2013; ᖃᐅᓯᐃᑦᑑᐸ ᐊᖑᓇᓱᒃᑎᖏᑦ 2013). ᓅᖃᑦᑕᕐᓂᖏᑦ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ ᑕᐃᒪᐃᓐᓂᖏᓐᓄᑦ ᑐᖓᐅᑕᐅᔮᓂᐅᔫᓇᕐᒪᑕ ᑕᐃᔅᓯᒪᓂ 2004-ᒥ ᐅᐱᖖᒫᒃᑯᑦ ᖃᐅᔨᔭᐅᓇᓱᖕᓂᖏᓐᓂ ᐊᒥᓲᓂᖏᑦ, ᖃᐅᔨᓴᖅᑕᐅᔮᓂᐅᒍᑎᒃ ᓯᕗᓂᐊᒍᑦ ᓱᓕ ᑕᒪᐃᓐᓂᑲᓴᒃ ᑐᒃᑐᐃᑦ ᐱᐅᓯᑐᖃᕐᒥᒍᑦ ᓅᐸᓪᓕᐊᓕᖃᔭᓚᐅᖅᑐᓂᒃ ᑕᐅᕗᖓ ᑭᖓᐃᓚᐅᐸ ᕿᑭᖅᑖᓄᑦ ᐅᑎᖅᐸᓪᓕᐊᓕᖅᓱᑎᒃ. ᕿᓚᒥᐅᔪᒥᒃ ᖃᓄᐃᓕᖓᓂᐊᖅᑐᑦ ᖃᐅᔨᒪᔭᐅᖏᒻᒪᑕ ᐱᔾᔪᑕᐅᓂᕐᒧᑦ ᖃᐅᔨᒪᔾᔪᑎᒃᓴᖃᑦᑎᐊᖏᓗᐊᕐᓂᖅ, ᑭᓯᐊᓂ ᐊᑐᐃᓐᓇᐅᔪᑦ ᐊᑐᖅᑕᐅᓪᓗᑎᒃ ᖃᐅᓴᖅᑕᐅᓚᐅᖅᑐᓂ ᖃᐅᔨᔭᐅᓚᐅᖅᑐᑦ, ᐊᑯᓂᐊᓂᐊᖅᑐᒧᑦ ᖃᓄᐃᓕᖓᓕᖓᓂᖏᑦ ᐊᒥᓲᔪᓃᖅᐸᓪᓕᐊᓂᐊᖅᑐᑦ (Johnson et al. 2016). ᓄᓇᓕᖕᓄᑦ ᖃᐅᔨᒪᔭᐅᓂᖏᓐᓂ ᑐᑭᓯᓇᕐᒥᔪᑦ ᕿᓚᒥᐅᔪᒧᑦ ᖃᓄᐃᓕᕙᓪᓕᐊᓂᖏᑦ ᖃᐅᔨᒪᔭᐅᖏᓐᓂᖏᓐᓂᒃ. (ᑕᓗᕐᔪᐊᐸ ᐊᖑᓇᓱᒃᑎᒃᑯᑦ 2016) ᐃᓚᖏᓐᓂᓗ ᑐᒃᑐᖃᕐᕕᐅᕙᖕᓂᖏᑦ ᑕᒪᒃᑯᓂᖓ ᐊᒥᓲᖏᓐᓇᖅᑐᑦ ᐊᕐᕋᒍᑕᓴᐅᓕᖅᑐᓂ (ᐅᖅᓱᖅᑑᐸ ᐊᖑᓇᓱᒃᑎᒃᑯᑦ 2016; ᖁᑕᐃᕈᕐᔪᐊᐸ ᐊᖑᓇᓱᒃᑎᒃᑯᑦ 2016).

ᓄᓇᓖᑦ ᖃᐅᔨᑎᑦᑎᕙᓚᐅᖅᑐᑦ ᑕᐃᒪᐃᓐᓂᑲᓴᒃ ᖁᑦᑎᒃᑐᒥᒃ ᑑᒃᑐᖏᑦ ᒫᓐᓇᐅᔪᖅ ᖃᓄᐃᖏᓂᖏᓐᓂᒃ ᐊᒻᒪᓗ ᐃᓚᖏᓐᓂ ᐊᒥᓱᕈᖅᐸᓪᓕᐊᓪᓗᑎᒃ, (ᐃᖃᓗᒃᑐᑦᑎᐊᕐᓂ ᐊᖑᓇᓱᒃᑎᒃᑯᑦ 2013; ᐅᖅᓱᖅᑑᑉ ᐊᖑᓇᓱᒃᑎᖏᑦ 2013; ᖃᐅᓯᐃᑦᑑᑉ ᐊᖑᓇᓱᒃᑎᖏᑦ 2013; ᐃᑳᕼᐆᑉ ᐊᖑᓇᓱᒃᑏᑦ ᑲᑎᒪᔨᑫᓛᖏᑦ 2013; ᑕᓗᕐᔪᐊᑉ ᐊᖑᓇᓱᒃᑎᖏᑦ 2013; ᖃᐅᓯᐃᑦᑑᑉ ᐊᖑᓇᓱᒃᑎᖏᑦ 2016; ᐃᑳᕼᐆᑉ ᐊᖑᓇᓱᒃᑏᑦ ᑲᑎᒪᔨᑫᓛᖏᑦ 2016; ᐃᑳᕼᐆᑉ ᐊᖑᓇᓱᒃᑏᑦ ᑲᑎᒪᔨᑫᓛᖏᑦ 2021). ᐊᒥᓱᒐᓴᐃᑦ ᓄᓇᓖᑦ ᑭᒻᒐᖅᑐᐃᔾᖏᓪᓗ ᐃᓱᒪᖃᖅᑐᑦ ᖁᑦᑎᒃᑐᒥᒃ ᑑᒃᑐᖏᑦ ᐊᒥᓱᙵᓂᖅᐸᓪᓕᐊᖏᓐᓂᖏᓐᓂᒃ, ᑭᓯᐊᓂ ᐊᓯᖏᓐᓄᑦ ᓅᑐᐃᓐᓇᖃᑕᖅᑐᑦ (ᐃᖃᓗᒃᑐᑦᑎᐊᕐᓂ ᐊᖑᓇᓱᒃᑎᒃᑯᑦ 2013; ᐅᖅᓱᖅᑑᑉ ᐊᖑᓇᓱᒃᑎᖏᑦ 2013; ᐅᓗᒃᕼᐊᖅᑑᕐᒥᐅᑦ ᐊᖑᓇᓱᒃᑏᑦ ᑲᑎᒪᔨᑫᓛᖏᑦ 2013; ᐸᐅᓗᑑᑉ ᐊᖑᓇᓱᒃᑏᑦ ᑲᑎᒪᔨᑫᓛᖏᑦ 2013; ᑕᓗᕐᔪᐊᑉ ᐊᖑᓇᓱᒃᑎᖏᑦ 2013; ᑲᓇᑕᒥ ᐆᒪᔪᓕᕆᓂᕐᒧᑦ ᐱᔨᑦᑎᕋᐃᔩᑦ 2015), ᐊᒻᒪᓗ ᐃᖏᓂᒃ ᖃᓄᐃᑐᙵᕈᓐᓇᖅᓯᑎᒃ (ᐃᖃᓗᒃᑐᑦᑎᐊᕐᓂ ᐊᖑᓇᓱᒃᑎᒃᑯᑦ 2013; ᐅᖅᓱᖅᑑᑉ ᐊᖑᓇᓱᒃᑎᖏᑦ 2013; ᑕᓗᕐᔪᐊᑉ ᐊᖑᓇᓱᒃᑎᖏᑦ 2013). ᐊᑕᐅᓯᖅ ᐃᓚᖕᒐᑦ ᓄᓇᓕᖕᓂ ᐃᓱᒪᓚᐅᖅᑐᑦ ᒫᓐᓇᐅᔪᖅ ᐊᒥᓲᖏᓐᓂᓂᖅᓴᐅᓂᒃ ᒪᓕᖕᒪᑕ ᐊᑐᖃᑕᐃᓐᓇᖅᑕᖏᓐᓂᒃ ᐊᒥᓲᔪᓐᓂᖃᑕᐃᓐᓇᓲᖑᓂᖏᓐᓂᒃ ᑲᐃᕙᑦᑐᒥᒃ ᓂᑭᑖᖃᑕᕐᒪᑕ ᑕᐃᒫ ᖁᑦᑎᒃᑐᒥᒃ ᑑᒃᑐᖏᑦ (ᐃᑳᕼᐆᑉ ᐊᖑᓇᓱᒃᑏᑦ ᑲᑎᒪᔨᑫᓛᖏᑦ 2013), ᐊᒻᒪᓗ ᐊᓯᖏᑦ ᐃᓱᒪᖃᓚᐅᕆᓪᓗᑎᒃ ᑑᒃᑐᐃᑦ ᐊᒥᓱᕈᖅᐸᓪᓕᐊᓗᐊᕈᓐᓇᐃᓕᓪᓕᕐᓂᖏᓐᓂᒃ ᓇᐅᑰᕝᕕᒃᓴᖃᑦᑎᐊᕈᓅᕐᓂᖏᓐᓄᑦ ᓇᒨᖓᐅᕝᕕᕆᕙᒃᑕᖏᓐᓄᑦ (ᐅᓗᒃᕼᐊᖅᑑᕐᒥᐅᑦ ᐊᖑᓇᓱᒃᑏᑦ ᑲᑎᒪᔨᑫᓛᖏᑦ 2013).

ᐊᒥᓲᓂᖅᓴᐃᑦ ᓄᓇᓖᑦ ᓇᓗᓇᐃᔭᐃᖃᑕᓚᐅᕋᓗᐊᖅᑐᑦ ᖁᑦᑎᒃᑐᒥᒃ ᑑᒃᑐᖏᑦ ᖃᓄᐃᖏᓂᖏᓐᓂᒃ, ᐃᓚᖏᑦ ᓄᓇᓖᑦ ᐊᒥᓲᖏᓐᓂᖅᓴᐃᑦ ᓇᓗᓇᐃᔭᐃᓚᐅᖅᑐᑦ ᑕᒪᐃᓐᓂᒃ ᐊᑯᓂᐊᖅᑐᒧᑦ, ᕿᓚᒥᐅᓄᐊᖅᑐᓄᓪᓗ ᐊᒥᓲᔪᓐᓂᖅᐸᓕᐊᓂᖏᓐᓂᒃ ᓈᓴᖅᑕᐅᓯᒪᓂᖏᓐᓂ. ᐃᓚᖕᒐᑦ ᓄᓇᓕᑦ ᑕᐅᕝᕓ ᑑᒃᑐᖃᕐᕕᐅᓂᕐᒥᑦᑐᑦ ᓂᒋᐊᑕ ᐱᖕᒐᖕᓇᖅᐸᓯᖕᒐ ᑑᒃᑐᖃᕐᕕᖕᓂ, ᑑᒃᑐᓯᐅᖅᐸᒃᑐᑐᖃᐃᑦ , ᖁᑦᑎᒃᑐᒥᒃ ᑑᒃᑐᓂᒃ ᓯᓚᑖᓂ ᓇᔪᒐᕆᔭᐅᒐᔪᖕᓂᖏᓐᓂ, ᓇᓗᓇᐃᔭᐃᓚᐅᖅᑐᑦ ᐊᑯᓂᐅᓂᐊᖅᑐᒧᑦ ᐊᒥᓲᔪᓂᕐᓂᐊᕋᓱᒋᔭᐅᓂᖏᓐᓂᒃ (ᐅᓗᒃᕼᐊᖅᑑᕐᒥᐅᑦ ᐊᖑᓇᓱᒃᑏᑦ ᑲᑎᒪᔨᑫᓛᖏᑦ 2016). ᕿᓚᒥᐅᔫᒃᑯᑦ, ᓄᓇᓖᑦ ᐸᐅᓗᑑᕐᒥ, ᓯᓚᑎᑦᑎᐊᖕᒐᓃᑦᑐᓂᒃ ᓇᔪᒐᕆᔭᐅᒐᔫᖕᓂᖏᓐᓂ ᑑᒃᑐᓄᑦ ᐅᖃᓚᐅᖅᑐᑦ ᑕᐃᒃᑯᐊ ᑑᒃᑐᖃᕐᕕᐅᕙᖕᓂᖏᑦ ᑕᒪᒃᑯᓂᖓ ᐊᒥᓱᕈᓇᐊᒃᑲᓐᓂᖅᓯᒪᓐᖏᓂᖏᓐᓂᒃ (ᐸᐅᓗᑑᑉ ᐊᖑᓇᓱᒃᑏᑦ ᑲᑎᒪᔨᑫᓛᖏᑦ 2016a), ᑕᐃᒃᑯᐊᓗ ᐃᖃᓗᒃᑑᑦᑎᐊᕐᒥᐅᑦ ᑕᑯᓯᒪᓕᕐᓗᑎᒃ ᐊᒥᔅᓲᔪᓐᓂᖅᓯᒪᕐᔪᐊᕐᓂᖏᓐᓂᒃ ᒫᓐᓇᕕᖅ ᐊᕐᕋᒍᕕᖅᓯᒪᔪᓂ (ᐃᖃᓗᒃᑐᑦᑎᐊᕐᓂ ᐊᖑᓇᓱᒃᑎᒃᑯᑦ 2016).

ᐊᕙᑦᑐᖅᓯᒪᓂᖏᑦ 2: ᐊᒥᓲᓂᖏᑦ ᐊᒻᒪ ᖃᓄᐃᕙᓪᓕᐊᓂᖏᓐᓂ ᖃᐅᔨᑎᑦᑎᔪᑦ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ ᑐᒃᑐᕋᕐᕕᐅᖕᓂᖏᑦ ᑕᒪᒃᑯᓂᖓ ᑲᓇᑕᒥ (ᓄᓇᑦᓯᐊᕐᒥ, ᓄᓇᕗᒻᒥᓗ). ᑎᑎᕋᖅᑕᐅᔪᕕᓃᑦ Johnson et al. (2016).

#	ᐅᑭᐅᖅᑕᑑᑉ ᐊᕙᑦᑐᖅᓯᒪᓂᖓ	ᓄᓇᓕᖕᓂ ᑐᒃᑐᕋᕐᕕᐅᖕᓂᖏᑦ ᑕᒪᒃᑯᓂᖓ ᐊᑐᓂ	ᕿᑭᖅᑕᒥ	ᒫᓐᓇᓴᖅ ᐊᒥᓲᓂᖏᑦ ᓇᓚᐅᑖᖅᑕᐅᔪᑦ (ᓄᕋᐃᓪᓗ)		ᐊᒥᓲᓂᖏᓐᓂ ᖃᓄᐃᓕᕙᓪᓕᐊᓂᖏᑦ		ᓄᓇᓕᖕᓄᑦ ᕿᓚᒥᒧᑦ ᑐᑭᓕᐅᖅᑕᐅᔪᑦ[cb]
				ᐊᕐᕌᒍᒥ	ᖃᓄᖅ ᐋᕿᒋᐊᖅᑕᐅᑎᐊᕐᓂᖏᑦ[ca]	ᕿᓚᒥᒧᑦ (10 ᐊᕐᕌᒍᓂ)	ᐊᑯᓂᐅᔪᒧᑦ (30 ᐊᕐᕌᒍᓂ)	
1	ᓄᓇᑦᓯᐊᖅ	ᐃᑳᕼᐆᑉ ᕿᑭᖅᑕᖕᒐᓂ - ᐅᐊᖕᓇᖅᐸᓯᖕᒐᑕ ᐱᖕᒐᖕᓇᖕᒐᓂ ᑭᓪᓕᓂᐅᑉ ᕿᑭᖅᑕᒐᓴᐃᑦ	ᐃᑳᕼᐆᑉ ᕿᑭᖅᑕᖕᒐᓂ	2014	2742 (Davison et al. 2014)[c]	ᐊᒥᓲᕙᓪᓕᐊᔪᑦ	ᐊᒥᓱᔪᓂᖅᑐᑦ	ᐊᒥᓲᕙᓪᓕᐊᔪᑦ
			ᐅᐊᖕᓇᖅᐸᓯᖕᒐᑕ ᐱᖕᒐᖕᓇᖕᒐᓂ ᑭᓪᓕᕐᓂᕐᒥ	2010	299 (Davison and Williams 2013)[d,e]			
2	ᓄᓇᑦᓯᐊᖅ-ᓄᓇᕗᑦ	ᑭᖕᒐᐃᓚᐅᑉ ᑕᕆᐅᖅᑯᐊᑕ ᐱᖕᒐᖕᓇᖕᒐᓂ ᕿᑭᖅᑕᒐᓴᐃᑦ	ᒥᐅᓪᐱᐅᓪᒥ	2012	3224 (Davison and Williams 2012)[f]	ᖃᐅᔨᒪᔭᐅᖏ	ᐊᒥᓲᕙᓪᓕᐊᔪᑦ	ᐊᒥᓲᕙᓪᓕᐊᔪᑦ
			Prince Patrick	2012	3067 (Davison and Williams 2012)[a]			
			Eglinton	2012	214 (Davison and Williams 2012)			
			Emerald	2012	45 (Davison and Williams 2012)			
			Byam Martin	2012	153 (Davison and Williams 2012)			
			ᐃᓗᕕᐊᓗᒃᑕᓕᒃ	2016	14 (Anderson 2016b)[g,h]			
			Lougheed	2016	140 (Anderson 2016c)[d]			
			ᕿᖕᒐᐅᑦ	2013	1463 (Anderson 2014)			
			Cornwallis	2013	4 (Anderson 2014)[c]			
			Little Cornwallis	2013	1 (Anderson 2014)			
			Helena	1997	0 (Gunn and Dragon 2002)			
3	ᓄᓇᕗᑦ	ᑭᖕᒐᐃᓚᐅᑉ ᑕᕆᐅᖅᑯᐊᑕ ᑲᓇᖕᓇᖕᒐᓂ ᕿᑭᖅᑕᒐᓴᐃᑦ	ᓇᐹᖅᑐᓕᖕᒥ ᐅᒥᖕᒪᐃᑦ ᓄᓈᓂ	2007	2255 (Jenkins et al. 2011)	ᖃᐅᔨᒪᔭᐅᖏ	ᖃᐅᔨᒪᔭᐅᖏ	ᖃᐅᔨᒪᔭᐅᖏ
			ᐊᐅᓯᐃᑦᑐᑉ ᕿᑭᖅᑖ	2015	918 (Anderson and Kingsley 2015)			
4	ᓄᓇᕗᑦ	ᑭᖕᒐᐃᓚᐅᑉ ᕿᑭᖅᑕᖕᒐᓂ– ᑰᒐᓇᔩᑉ ᕿᑭᖅᑕᒐᓴᐃᑦ – ᐃᑦᑐᐊᖅᑐᕐᕕᐅᑉ ᓄᕗᐊᓂ	ᑭᖕᒐᐃᓚᐅᑉ ᕿᑭᖅᑕᖕᒐᓂ –	2016	0 (Anderson 2016a)[d]	ᖃᐅᔨᒪᔭᐅᖏ	ᐊᒥᓱᔪᓂᖅᑐᑦ	ᖃᐅᔨᒪᔭᐅᖏ
			ᑰᒐᓇᔩᑉ ᕿᑭᖅᑕᒐᓴᐃᑦ ᐊᑯᓂᖏᓐᓂ	2016	0 (Anderson 2016a)[d]			
			Russell	2004	0 (Jenkins et al. 2011)			
			ᐃᑦᑐᐊᖅᑐᕐᕕᒃ	2006	1 (Dumond 2006)[c]			

[a] ᓯᕗᓪᓕᕐᒥ ᖃᐅᔨᓴᖅᑕᐅᓚᐅᖅᑐᑦ-ᐋᕿᕆᐊᖅᑕᐅᑦᑎᐊᖅᑐᑦ (ᕿᑭᖅᑕᐃᑦ ᐊᖏᓂᖏᓐᓂ ᒪᓕᒡᓗᒋᑦ) ᑕᐃᒫᒃ ᐊᒥᓱᓂᖏᑦ ᖃᓂᒋᒡᓗᑎᒃ ᐊᕐᕋᒐᓴᓂ. ᐃᓚᖏᓐᓂ ᓇᓚᐅᑖᖅᑕᐅᓂᖏᑦ ᕿᑭᖅᑕᓂ ᐊᕕᒃᑐᖅᓯᒪᓂᖏᓐᓂᓗᓈᑦ ᓇᓚᐅᑖᖅᑕᐅᓚᐅᖅᑐᑎᑦ ᐊᑕᐅᓯᕐᒥᒃ ᒥᑭᓂᖅᓴᓂ ᖃᐅᔨᓴᕐᕕᐅᓂᖏᓐᓄ. ᐊᒥᓱᓂᖏᑦ ᓇᓚᐆᑕᖅᑕᐅᔪᑦ ᐋᕿᕆᐊᖅᑕᐅᓚᐅᕐᒥᔪᑦ ᐱᖃᓯᐅᔾᔨᐅᓗᑎᒃ ᓄᕋᐃᑦ. s (Johnson et al, 2016). ᑳᓯᐃᒃᑯᑦ ᑲᑎᒪᔩᕋᕆᖏᓄᑦ ᓇᓚᐅᑖᖅᑕᐅᓂᖏᑦ ᒫᓇ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ ᑕᒫᓃᓂᕋᖅᑕᐅᔪᑦ 13,200 ᐱᕈᐊᓂᒃᓯᒪᓂᖏ. ᐊᒥᔨᓂᖏᑦ ᑖᒃᑯᓂ ᐱᖃᓯᐅᔾᔨᓕᖅᑐᑦ ᓄᕋᖏᓐᓂᒃ.

[b] ᑐᑭᓕᐅᖅᑕᐅᓗᑎᒃ ᖃᐅᔨᓴᖅᑕᐅᓂᖏᓐᓂ ᐱᓕᕆᐊᕐᒍᓂᐊᖅᑐᓂᒃ ᑲᑎᒪᓂᖏᓐᓂ ᓄᓇᓕᖕᓂ 2013 ᐊᒻᒪᓗ 2016.

[c] 2019-ᒥ, ᓄᓇᕗᑦ-ᐊᕙᑎᓕᕆᔨᒃᑯᑦ ᓄᓇᒥᐅᑕᓕᕆᔨᓪᓗ ᖃᐅᔨᓴᓚᐅᖅᑐᑦ ᐃᑳHᐆᑉ ᕿᑭᖅᑕᙵᓂ ᓇᓚᐅᑖᕈᑕᐅᓚᐅᖅᑐᓂᒃ ᑕᒫᓂᑦᑐᓂᒃ 1,913 ± 406 (95%CI) ᐱᕈᐊᓂᒃᓯᒪᔪᓂ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ. ᑖᒃᑯᐊ ᐋᕿᕆᐊᖅᑕᐅᓯᒪᖏᑦᑐᑦ ᐱᖃᓯᐅᔾᔨᐅᓚᐅᖏᒪᑕ ᓄᕋᐃᑦ, ᑕᐃᒃᑯᓂᙵ ᒪᓕᑐᐃᓐᓇᖅᑐᑦ ᐊᒥᖏᓂᖏᓐᓂᒃ ᓇᓚᐅᑖᖅᑕᐅᓚᐅᖅᑐᓂᒃ 2014-ᒥ.

[d] ᑭᖑᓂᐊᒍᑦ ᑕᒪᓂ 2015-ᒥ ᖃᐅᔨᓴᖅᑕᐅᒐᒥᒃ ᐊᒥᔫᖏᓂᖅᓴᐅᓚᐅᖅᑐᑦ ᑐᒃᑐᖏᑦ ᐅᐊᖕᓇᖅᐸᓯᖕᒐᑕ ᐱᖕᒐᖕᓇᖕᒐᓂ ᑭᓪᓕᓂᐅᑉ (ᐊᒥᔫᖏᕊᖑᓂᕋᖅᑕᐅᓗᑎᒃ ᓯᑕᒪᐃᑦ 4; ᓇᓚᐅᑖᖅᑕᐅᓚᐅᖏᑦᑐᑦ ᐊᒥᔫᓂᖏᑦ). ᑕᒫᓂ 2015-ᒥ ᖃᐅᔨᓴᖅᑕᐅᓚᐅᖅᑐᑦ ᐋᐳᒥ, ᑕᒫᓂᐅᖏᖖᖅᑐᖅ ᔪᓚᐃ/ᐋᒐᓯᒥ. Davison, T., and J. Williams (2015).

[e] 2019-ᒥ, ᓄᓇᕗᑦ-ᐊᕙᑎᓕᕆᔨᒃᑯᑦ ᓄᓇᒥᐅᑕᓕᕆᔨᓪᓗ ᖃᐅᔨᓴᓚᐅᖅᑐᑦ ᐅᐊᖕᓇᖅᐸᓯᖕᒐᑕ ᐱᖕᒐᖕᓇᖕᒐᓂ ᑭᓪᓕᓂᐅᑉ, ᓇᓚᐅᑖᖅᑕᐅᓚᐅᖅᑐᓂᖅ ᑕᒫᓂ 78 ± 136 (95% CI) ᐱᕈᐊᓂᒃᓯᒪᔪᓂ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ ᓇᒍᓇᐃᒃᑯᑕᓕᖕᓂ A ᐊᒻᒪᓗ 98 ± 91 (95% CI) ᐱᕈᐊᓂᒃᓯᒪᔪᓂ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᓐᓂᒃ ᓇᒍᓇᐃᑯᑕᓕᖕᓂ C-ᒥ ᖃᓄᓈᑎᑐᑦ. ᓇᓚᐅᑖᖅᑕᐅᓂᖏᑦ ᑖᒃᑯᓂ ᐋᕿᕆᐊᖅᑕᐅᓯᒪᖏᑦᑐᑦ ᐃᓚᔭᐅᓚᐅᖏᒪᑕ ᓄᕋᐃᑦ, ᐊᓯᔾᔨᖅᓯᒪᑦᑐᑦ ᓇᓚᐅᑖᖅᑕᐅᓚᐅᕐᓂᖏᓐᓂ ᑕᒫᓂ 2010.

[f] ᓄᑖᕈᕆᐊᖅᑕᐅᓚᐅᖅᑐᑦ ᕕᕗᐊᕆ 2015, ᓇᒥᓂᖃᖅᑎᑎᖃᖏᑦ ᑕᐃᔅᓯᒪᓂ T. Davidon ᑕᐃᑲᓂ Johnson et al. (2016)

[g] ᒥᑭᓂᖅᐸᒥᒃ ᓈᓴᖅᑕᐅᓗᑎᒃ

[h] ᓄᑖᕈᕆᐊᖅᑕᐅᓚᐅᖅᑐᑦ ᖃᐅᔨᓴᖅᑕᐅᓂᖏᑦ (Johnson et al. (2016). ᓇᓚᐅᑖᖅᑕᐅᓯᒪᓂᖏᑦ ᐋᕿᕆᐊᖅᑕᐅᓯᒪᖏᓯᑎᒃ.

3.3 ᐱᑕᖃᕆᐊᓖᑦ ᑐᕌᒐᔪᑦ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᓐᓄᑦ

3.3.1 ᓇᔪᕆᓇᖅᑕᖏᑦ ᐊᒻᒪᓗ ᐆᒪᔫᓇᕆᑎᖏᑦ

ᓇᔪᕆᓇᕆᐊᓕᖕᑦ

ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ ᐊᖏᔪᐊᓗᖏᒃ ᓇᔪᕆᓇᕆᐊᓕ ᓄᓇᒥᒃ ᓇᓴᒪᔪᓂᒃ ᓂᕿᒃᓴᓕᖕᓂᒃ, ᐃᒪᕐᒥᒃ, ᓴᐳᓂᐊᖅᑕᐅᔪᓇᕐᓂᕐᓗ ᓯᓚᑦᑎᐊᕗᐅᖏᑐᐊᓘᕙᖕᓂᕐᒥᒃ ᐊᒻᒪᓗ ᐅᒪᔪᕐᓂᒃ ᓂᕿᒃᓴᖅᓯᐅᖅᐸᒃᑐᓂᒃ ᑕᒪᒃᑯᓂᖓ. (ᐊᐃᕕᖅ ᐊᖑᓇᓱᒃᑎᖏᑦ; ᖃᐅᓯᐃᑦᑑᑉ ᐊᖑᓇᓱᒃᑎᖏᑦ 2013) ᐋᓇᐅᓚᔫᓇᕐᓂᐊᕈᑎᒃ ᐆᒪᐃᓐᓇᕈᓐᓇᕐᓂᕐᒥᒃ ᐊᑐᐊᓂᒍᓐᓇᕐᓂᖅ. ᑐᒃᑐᖃᕐᕕᐅᕙᖕᓂᖏᑦ ᑕᒪᒃᑯᓂᖓ, ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ ᓇᔪᖅᐸᒃᑐᑦ ᐊᔾᔨᒌᖏᑦᑑᑎᓂᒃ ᓈᐸᖅᑐᖃᖏᓂᕐᒥ ᓄᓇᒥ ᑭᓂᐸᓂᓕᖕᒥᒃ ᐸᓂᖅᑐᒧᑦ ᓄᓇᒥᒃ, ᐱᕈᕐᕕᐅᓯᒪᔫᓇᕐᓂᖏᓐᓂ ᓄᓇᒥ ᐊᑯᓐᓂᖅᓱᖅᑐᓂ ᐳᖅᑐᔫᒪᓇᐅᔫᓇᖅᑐᓄᑦ (Johnson et al. 2016). ᐳᖅᑐᓂᕐᕖᖃᑦᑕᕐᒪᑕ ᑎᑭᑕᐅᓴᕋᐃᖏᓂᖅᓴᓂ ᓂᕿᒃᓴᖅᓯᐅᖅᑕᐅᖃᑦᕐᓂᖏᓐᓄᑦ ᐆᒪᔪᓄᑦ ᐊᒪᓗ ᓂᒡᓚᓱᖏᓂᖅᓴᐅᔫᓇᕐᓂᖕᒪᓄᑦ ᐊᒻᒪᓗ ᐊᐳᑎᖃᑦᑎᐊᕈᓐᓇᕐᓂᕐᒧᑦ (ᐊᐃᕕᖅ ᐊᖑᓇᓱᒃᑎᖏᑦ; ᐅᓗᒃᕼᐊᖅᑑᕐᒥᐅᑦ ᐊᖑᓇᓱᒃᑏᑦ ᑲᑎᒪᔨᕋᓛᖏᑦ 2013). ᑭᓂᐸᔪᑦ ᓄᓇᐃᑦ ᐱᕈᖅᕕᐅᓯᒪᑦᑎᐊᖅᑐᑦ, ᓱᕐᓗ ᓂᐊᕐᑯᑉᑕᓖᑦ/ᓄᓇᑐᐃᓐᓇᐃᓪᓗ, ᐊᑐᖅᑕᐅᖏᓂᖅᓴᐅᕙᒃᑐᑦ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᓐᓄᑦ (Thomas et al. 1999; Larter and Nagy 2001b). ᓄᓇᓖᑦ ᐊᐅᓯᐃᑦᑐᕐᒥ ᖃᐅᔨᒪᔪᑦ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ ᐱᕈᖅᕕᐅᓯᒪᔪᒻᒪᕆᖕᓃᐸᖏᓂᖏᓐᓂᒃ, ᐱᐅᓂᖅᓴᓂᒃ ᐱᕈᖅᓯᒪᑎᐊᖅᑐᓂᒃ ᓇᔪᕋᔪᖕᓂᖅᓴᐅᓗᑎᒃ (ᐊᐃᕕᖅ ᐊᖑᓇᓱᒃᑎᖏᑦ).

ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ ᓂᕈᐊᖃᑕᖅᑐᑦ ᓄᓇᒥᒃ ᐱᕈᖅᕕᐅᓯᒪᔪᓂᒃ ᓂᕿᒃᓴᓂᒍᓇᖅᑕᖏᓂᒃ. ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᐃᑦ ᓇᔪᖅᐸᒃᑕᖏᑦ ᐊᐱᓂᖃᓲᑦ ᑕᒪᓂ 9-10 ᑕᕿᓂᒃ ᐊᕐᕋᒍᒥ, ᓂᕆᔭᒃᓴᖃᕐᕕᕆᔪᓇᖅᑕᖏᓂᒃ ᓇᔪᖅᐸᒃᑕᖏᓐᓂ (Larter and Nagy 2001b; ᐆᒪᔪᐃᑦ ᐊᒥᓲᖏᓗᐊᕐᓂᖏᓐᓄᑦ ᑲᑎᒪᔨᕋᓛᑦ 2012; ᑳᓯᐃᒃᑯᑦ ᑲᑎᒪᔨᕋᓛᖏᑦ 2015; Johnson et al. 2016). ᐅᑭᐅᒃᑯᑦ, ᖁᑦᑎᒃᑐᒥ ᑐᒃᑐᐃᑦ ᓇᔪᖅᑕᖏᓐᓂᒃ ᐊᓯᒃᑏᕙᒃᑐᑦ ᒪᓕᒃᑐᓂᒃ ᖃᓄᐃᓕᖓᓂᖏᓐᓂᒃ ᐊᐳᑕ ᐊᒻᒪᓗ ᓯᑯᐊ, ᑕᒪᐃᓂᖓᓄᓪᓗ ᐊᒥᓱᓂᒃ ᐊᔾᔨᒌᖏᑦᑐᓂᒃ ᓇᔪᐃᕙᒃᓯᑎᒃ (ᐆᒪᔪᐃᑦ ᐊᒥᓲᖏᓗᐊᕐᓂᖏᓐᓄᑦ ᑲᑎᒪᔨᕋᓛᑦ 2012; ᐅᖅᓱᖅᑑᑉ ᐊᖑᓇᓱᒃᑎᖏᑦ 2013; ᐅᓗᒃᕼᐊᖅᑑᕐᒥᐅᑦ ᐊᖑᓇᓱᒃᑏᑦ ᑲᑎᒪᔨᕋᓛᖏᑦ 2013; Johnson et al. 2016). ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ ᓂᕈᐊᖃᑦᑕᕐᒥᔪᑦ ᓇᓃᓐᓂᐊᕐᓂᖅ ᐊᐳᑎᖃᑦᑎᐊᖏᓐᓂᕐᒥ ᐅᕙᓗᓐᓂᑦ ᐊᐳᑕᐃᔭᐃᕝᕕᖃᕐᕕᖃᖅᑕᖏᓐᓂᒃ ᒪᒃᐱᕆᓇᖅᑕᖏᓐᓂᒃ ᐊᐳᑕᐃᔭᐃᓗᑎᒃ ᑎᑭᑐᓐᓇᕐᓂᐊᕐᕋᒥᑦ ᐱᕆᖅᑐᓖᑦ ᐊᑖᓂ ᐊᒃᓱᕈᕐᓇᓗᐊᖏᓐᓂᖏᓐᓂ (Larter and Nagy 2001b; Miller and Gunn 2003b; ᑳᓯᐃᒃᑯᑦ ᑲᑎᒪᔨᕋᓛᖏᑦ 2015). ᐃᒪᐃᓕᖓᓚᔪᒃᐳᑦ ᑕᒪᒃᑯᐊ, ᓄᐃᑕᕙᖓᑕ ᐱᕆᖅᑐᑦ, ᐊᓄᕆᕙᖓᓂᕐᒧᑦ ᑕᒪᒃᑯᐊ ᖃᖃᔭᑦ ᖄᖓᓂ, ᓴᓂᕋᖏᓐᓂᓗᓐᓃᑦ ᐅᕝᕙᓗᓐᓂᑦ ᓄᓇᖅᐱᖏᒥ ᐊᐳᑎᖃᑦᑎᐊᖏᓐᓂᕐᒥ, ᐊᐳᑎᖃᖏᓐᓂᖏᓐᓂᓗᓐᓃᑦ, ᐅᕝᕙᓗᓐᓃᑦ ᐱᐅᓯᖃᖅᑐᓂᒃ ᐅᖁᐊᖃᕐᕕᐅᕙᖕᓂᖏᓐᓂ ᐱᕆᕕᐅᔪᓐᓇᕐᓂᖅ, ᓲᕐᓗ ᖃᖃᔮᓂᒃ, ᐅᔭᕋᓛᖑᓂᖏᓐᓂᓗᓐᓃᑦ (Miller et al. 1977; Russell et al. 1979; Miller et al. 1982; Thomas and Edmonds 1983; ᐅᓗᒃᕼᐊᖅᑑᕐᒥᐅᑦ ᐊᖑᓇᓱᒃᑏᑦ ᑲᑎᒪᔨᕋᓛᖏᑦ 2013).

ᐊᐳᑎᖃᖏᓐᓂᕐᒥᓕ, ᓂᕿᒃᓴᖃᕐᕕᐅᔫᓇᕐᓂᖏᑦ ᐊᔪᕐᓇᖏᓐᓂᖅᓴᐅᔫᔭᖅᑐᑦ ᐱᑕᖃᕐᓂᖏᓐᓄᑦ (Miller and Gunn 2003b). ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ ᓇᒧᖓᐅᔫᓇᕐᒪᑕ ᓄᓇᒥ ᒪᓕᒃᑐᓂᒃ ᐱᕈᖅᕕᐅᓯᒪᔪᖃᕐᓂᖏᓐᓂᒃ (ᓲᕐᓗ ᐆᒃᑑᑎᒋᓗᒍ ᐅᖃᐅᓯᖓᓂᒃ, ᓄᓇᕋᓕᖓᓂᒃ ᐊᒻᒪᓗ ᐱᕈᒃᑳᓂᕈᓐᓇᖅᑐᓂᒃ ᓴᐅᓂᖏᓐᓂᒃ ᐊᐅᔭᒃᑯᑦ); ᓅᖃᑕᕐᒪᑕ ᐊᑦᑎᖓᓂᖏᓐᓄᑦ ᓯᔭᖅᐸᓯᖕᒧᑦ ᐅᐱᖕᖠᒃᑯᑦ/ᐊᐅᔮᕐᓂᖓᓂᓗ ᓂᕿᒃᓴᖃᕐᕕᐅᓂᖏᓐᓄᑦ ᓯᕗᓪᓕᕐᒥ, ᐊᒻᒪᓗ ᐅᑎᖃᑕᕆᓪᓗᑎᒃ ᓄᓇᖅᐱᐅᓂᕐᒧᑦ ᐱᑕᖃᓕᕌᖓᒥᒃ ᐱᕈᖅᑐᑦ (Johnson et al. 2016). ᐊᐅᔭᒃᑯᑦ, ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ ᑲᔪᓯᕙᖕᒥᔪᑦ ᐊᓯᖏᓐᓄᑦ ᓂᕿᒃᓴᖃᕐᓂᖅᓴᐅᔪᓄᑦ ᐱᓗᐊᖅᑐᒥᒃ ᐱᖁᓂᕝᕕᑎᐊᖅᑎᓪᓗᒋᑦ ᓄᑖᖁᓗᖕᓂᒃ, ᓄᓇᕋᖃᓕᖅᑎᓪᓗᒍ ᐊᒻᒪᓗ ᐱᕈᒃᑳᓂᕈᓐᓇᖅᑐᓂᒃ ᓴᐅᓂᖃᓕᖅᑎᓪᓗᒍ (Miller and Barry 2003). ᑕᒪᒃᑯᐊ ᐱᐅᓚᖅᑎᓂᒃ ᐱᕈᕐᕕᐅᔫᓇᕐᓂᖏᑦ ᐱᑕᖃᕆᐊᓕᒻᒪᕆᐅᖓᑕ ᐱᕈᒃᑳᓂᕈᓐᓇᕐᓂᕐᒧᑦ, ᐱᕈᑦᑎᐊᕈᓐᓇᕐᓂᖏᓐᓂᒃ ᐊᒻᒪᓗ ᐅᑭᐅᒃᑯᑦ ᐱᑕᖃᐃᓐᓇᕈᓐᓇᕐᓂᖏᓐᓄᑦ (Miller 2003).

ᓂᕿᒃᓴᓇᕙᒃᑕᖏᑦ

ᐊᔾᔨᒌᖃᑕᖏᒪᑕ ᐱᑕᖃᕐᓂᖏᑦ ᓂᕿᒃᓴᖏᑦ ᐊᕐᕋᒍᑕᒦᖅ ᐊᒻᒪᓗ ᓇᓂᑐᐃᓐᓇᖅ ᓇᔪᖅᐸᒃᑕᖏᓐᓂ (ᖃᐅᓯᐃᑦᑑᑉ ᐊᖑᓇᓱᒃᑎᖏᑦ 2013), ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ ᓇᒻᒪᓈᓇᐊᓲᖑᔾᔪᑦ ᐊᒥᓱᓂᓪᓗ ᐊᔾᔨᒋᖏᑦᑑᑎᐅᔪᓂᒃ ᓂᕿᒃᓴᖃᓲᖑᓪᓗᑎᒃ (Miller 2003). ᐱᓗᐊᖅᑐᒥᒃ ᓂᕿᒃᓴᖃᓲᖑᔾᔪᑦ ᑕᒪᒃᑯᐊ ᐊᑦᑎᒃᑐᓂ ᕿᔫᔅᓴᔭᐃᑦ, ᐅᖃᐅᔭᓖᑦ, ᐃᕕᖓᒃ, ᐊᕚᓚᕿᐊᕐᓂᒃ, ᑭᓕᕐᓇᕐᓂᓪᓗ (Parker and Ross 1976; Shank et al. 1978; Thomas and Broughton 1978; Miller et al. 1982; Larter and Nagy 1997, 2004), ᐊᒻᒪᓗ ᐅᖅᓱᖅᑑᕐᒥ ᓄᓇᓖᑦ ᖃᐅᔨᒪᔪᑦ ᑯᐊᓂᒥᒃ-ᕿᖅᑯᐊᕐᓂ ᓂᕿᖃᓯᖑᓂᖏᓐᓂᒃ ᐊᓯᖏᓐᓂᒃ ᐱᑕᖃᖏᑲᖓᑦ ᐱᕈᖅᑐᓂᒃ (ᐅᖅᓱᖅᑑᑉ ᐊᖑᓇᓱᒃᑎᖏᑦ 2013). ᑎᖓᐅᔭᐃᑦ ᑖᓃᓐᓇᓱᕆᔭᐅᔪᑦ <10% ᓂᕿᕆᔭᐅᕙᓐᓂᖅ ᐊᕐᕋᒍᒥ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᓄᑦᑦ (Miller and Gunn 2003b), ᑭᓯᐊᓂ ᑕᒪᒃᑯᐊ ᐱᒻᒪᕆᐅᓂᖅᓴᐅᕙᒃᑐᑦ ᓂᕿᒃᓴᕆᔭᐅᓂᕐᒧᑦ ᐅᑭᐊᒃᓵᒃᑯᑦ ᐅᑭᐅᑯᓪᓗ ᐃᓚᖏᓐᓂ (Miller et al. 1982; ᐆᒪᔪᐃᑦ ᐊᒥᓲᖏᓗᐊᕐᓂᖏᓐᓄᑦ ᑲᑎᒪᔨᕋᓛᑦ 2012). ᐅᕐᔪᓇᐃᓪᓗ ᐱᒪᕆᐅᑎᑕᐅᓗᐊᖅᑕᕐᑰᖏᑦᑐᑦ ᓂᕿᒃᓴᖏᓐᓄᑦ ᐊᒻᒪᓗ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ ᑕᒪᒃᑯᓂᖓ ᑕᑯᓇᑐᐃᓐᓇᑲᐃᓐᓇᖅᑐᔮᖃᑦᑕᖅᑐᑦ ᓇᒧᖓᐅᕙᓕᐊᓂᖏᓐᓂ ᓄᓇᑯᑦ

(Staaland et al. 1997). ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ ᓂᕆᐅᖃᑕᕐᒪᑕ ᓄᑭᑖᕈᑕᐅᑦᑎᐊᕐᓂᓂᖅᓴᐅᔪᓐᓇᖅᑐᓂᒃ ᐱᕈᖅᑐᓂᒃ ᐊᒻᒪᓗ ᓴᖏᓂᖅᑖᕈᑕᐅᓂᖅᓴᐅᔪᓐᓇᖅᑐᓂᒃ ᓲᕐᓗ ᑕᒪᒃᑯᓂᖓ ᓄᓇᕋᕐᓂᒃ, ᐱᕈᖅᑐᑦ ᓂᐊᕐᑯᖏᓐᓂᒃ ᓴᐅᓂᖏᓐᓂᒃ ᐊᒻᒪᓗ ᐅᑭᐅᒃᑯᑦ-ᐱᕈᖅᑐᓂᒃ ᐅᖃᐅᔭᓕᖕᓂᒃ (Thomas and Kroeger 1980; Gunn et al. 1981; Thomas and Edmonds 1984).

ᓇᒧᖓᐅᕙᖕᓂᖏᑦ ᑲᑎᓪᓗᑎᒃ ᓇᓃᖃᑕᕐᓂᖏᓪᓗ

ᐊᑕᐅᑎᒃᑯᖃᑕᕈᓐᓇᕐᓂᖏᑦ ᐊᒥᓱᓗᑎᒃ ᐅᖓᓯᒃᑐᓕᐊᕐᓂᖏᓐᓂ ᓄᓇᒃᑯᑦ ᑕᕆᐅᐸᓗ ᓯᑯᐊᒍᑦ ᐱᒻᒪᕆᐊᓘᕗᖅ ᑕᒪᒃᑯᓄᖓ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᓐᓄᑦ. ᑕᒪᒃᑯᐊ ᓅᐸᖓᒪᑕ ᐊᑯᓪᓕᕇᒃᑐᓂ ᐊᒻᒪᓗ ᑕᒪᒃᑯᓇᓂ ᕿᑭᖅᑕᖁᓴᐅᔪᓂ ᐊᑐᕈᒪᓪᓗᑎᒃ ᐊᔾᔨᕌᖏᑦᑑᑎᐅᔪᓂᒃ ᐆᒪᔾᔪᑎᒋᔭᖏᓐᓄᑦ - ᓄᕆᓂᕐᒧᑦ, ᒥᕐᑯᐃᔭᕐᓂᕐᒧᑦ, ᐃᓹᓐᓂᒃᑯᓪᓗᑦ ᓂᕿᒃᓴᖅᓯᐅᕐᕕᒋᓗᒋᑦ ᐊᒻᒪᓗ/ᐅᙱᓗᓐᓃᑦ ᕿᒫᓂᖏᓐᓄᑦ ᓯᓚᑦᑎᐊᕙᐅᔫᕐᔪᐊᖅᑐᒥᒃ ᐅᙱᓗᓐᓃᑦ ᐱᐅᔪᓂᖅᓯᒪᓄᖓᓄᑦ ᐊᕙᑎᖓᑦ (ᑲᓇᑕᒥ ᐆᒪᔪᓕᕆᓂᕐᒧᑦ ᐱᕕᑦᑎᕋᐃᕖᑦ 2013; ᐃᑳᕼᐆᑉ ᐊᖑᓇᓱᒃᑏᑦ ᑲᑎᒪᔩᕋᓛᖏᑦ 2013; ᑳᓱᐃᒃᑯᑦ ᑲᑎᒪᔩᕋᓛᖏᑦ 2015; ᐅᖅᓱᖅᑑᑉ ᐊᖑᓇᓱᒃᑎᒃᑯᑦ 2016; Johnson et al. 2016; ᖃᐅᓱᐃᑦᑑᑉ ᐊᖑᓇᓱᒃᑎᖏᑦ 2016; ᑕᓗᕐᔪᐊᑉ ᐊᖑᓇᓱᒃᑎᒃᑯᑦ 2016). ᐃᓚᖏᓐᓂ ᑕᒪᑯᓂᖓ ᐊᑐᕐᓂᖏᓐᓂ ᐅᖓᓯᒃᑐᒧᖓᐅᔪᓐᓇᖅᐳᑦ ᑲᑎᖓᓪᓗᑎᒃ ᑭᓯᐊᓂ ᖃᐅᔾᒪᔅᔪᑎᒃᓴᖃᑎᐊᖏᓗᐊᕐᒪᑦ ᑕᐃᒪᐃᑐᐃᓐᓇᐅᕙᖕᒪᖕᒋᑕ. ᑕᒪᓇ ᐱᔅᔪᑎᒋᓗᒋ, ᑕᕝᕙᓂ ᓅᖃᑦᑕᕐᓂᕋᖅᑕᐅᑐᐃᓐᓇᕐᓂᐊᖅᑐᖅ, ᐅᖓᓯᒃᑐᓕᐊᕐᓂᕋᖅᑕᐅᖏᓐᓂᖅᓴᐅᓗᑎᒃ ᐊᒥᓲᓗᑎᒃ ᐃᓚᓕᐅᑎᕙᓪᓕᐊᑕᕐᓂᖏᓐᓂ ᑕᕝᕙᓂ ᑎᑎᕋᖅᓯᒪᓂᖏᓐᓂ.

ᓇᐃᓈᖅᓱᕆᑦ ᐆᒪᔪᐃᑦ ᖃᓄᐃᓕᐅᖅᐸᖕᓂᖏᑦ ᑕᑯᔭᒃᓴᐅᕆᕗᑦ

ᐊᕕᒃᑐᖅᓯᒪᓂᖏᑦ **3**-ᒥ. ᐊᑐᖅᐸᒃᑕᖏᓐ ᐆᒪᔪᐃᑦ ᖃᖓ ᐊᒻᒪᓗ ᓇᓂ ᐊᒻᒪᓗ ᐊᕐᕋᒍᒥ ᓇᒧᖓᐅᕙᖕᓂᖏᑦ ᐊᑯᓂᐅᔪᑎᒍᑦ ᐊᔾᔨᕐᕿᖃᑕᖏᒻᒪᑕ ᑐᖓᕕᖃᕐᓂᕐᒧᑦ ᓂᕿᒃᓴᖃᕈᓐᓇᕈᓐᓇᕐᓂᖏᑦ, ᑕᒪᒃᑯᐊᓗ ᐊᒃᑐᖅᑕᐅᓯᒪᕚᖕᒥᖕᒪᑕ ᐊᕐᕋᒍᑕᒦᖅ ᐊᐳᑎᖃᕐᓂᕐᒧᑦ ᓯᑰᐸᓗ ᖃᓄᐃᓕᖓᓂᖓᓄᑦ, ᓂᕿᒃᓴᖃᕈᓐᓇᕐᓂᕐᒧᑦ; ᐊᔪᕐᓇᕐᓂᖅᓴᐅᒍᑎᒃ ᓂᕿᒃᓴᖃᕈᓐᓇᕐᓂᖏᑦ ᐊᐳᑎᖃᓗᐊᕐᓂᕐᒧᑦ/ᓯᑯᖃᓗᐊᕐᓂᕐᒧᓪᓗᓐᓃᑦ, ᕿᓚᒥᐅᓂᖅᓵᐅᕙᖕᒥᔪᑦ ᖃᓄᐃᓕᐅᕈᓐᓇᕐᓂᖏᑦ (ᓲᕐᓗ ᐆᒃᑑᑎᒋᓗᒍ ᓄᕐᕆᔪᓐᓇᕐᓂᖏᑦ) ᐅᕝᕙᓗᓐᓂᑦ ᓇᒧᖓᐅᖃᑕᕈᓐᓇᕐᓂᖏᓐᓂ (Miller 1991). ᑕᐃᒪᐃᓂᐊᓄᑦ, ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ ᓅᖃᑕᕈᓐᓇᖅᐳᑦ ᓂᕈᑐᔪᒥᒃ ᓄᓇᑯᑦ ᓂᕿᒃᓴᖅᓯᐅᕆᐊᖃᕐᓂᕐᒥᓄᑦ, ᐱᓗᐊᖅᑐᒥᒃ ᓂᕿᒃᓴᖃᑦᑎᐊᕈᓐᓂᖅᑎᓪᓗᒍ ᐱᕈᑎᖃᑎᐊᖏᓂᑎᓪᓗᒍ (ᐃᖃᓗᒃᑑᑦᑎᐊᕐᓂ ᐊᖑᓇᓱᒃᑎᒃᑯᑦ 2013; ᐅᖅᓱᖅᑑᐸ ᐊᖑᓇᓱᒃᑎᖏᑦ 2013; ᐊᐃᕕᖅ ᐊᖑᓇᓱᒃᑎᖏᑦ; ᐅᓗᒃᕼᐊᖅᑑᕐᒥᐅᑦ ᐊᖑᓇᓱᒃᑏᑦ ᑲᑎᒪᔨᕋᓛᖏᑦ 2013; ᑕᓗᕐᔪᐊᐸ ᐊᖑᓇᓱᒃᑎᖏᑦ 2013; ᐅᖅᓱᖅᑑᐸ ᐊᖑᓇᓱᒃᑎᒃᑯᑦ 2016).

ᑐᒃᑐᐃᑦ ᐊᒥᓲᓂᖏᑦ ᑲᑎᙵᔪᑦ ᐊᒃᑐᖅᑕᐅᓯᒪᕚᒃᐳᑦ ᓂᕿᒃᓴᖃᕈᓐᓇᕐᓂᖏᓐᓂᒃ (Miller et al. 1977). ᓲᕐᓗ ᐆᒃᑑᑎᒋᓗᒍ, ᐃᓗᐃᓪᓕᕐᒥ ᕿᑭᖅᑕᒥ, ᐊᐅᔭᒃᑯᑦ ᑐᒃᑐᖏᑦ ᑕᐅᕙᓂ ᐊᒥᓲᓂᖅᓴᐅᕙᒃᐳᑦ (ᑖᓃᖓᔪᒃᑐᑦ 10.1) ᓴᓂᐊᓂ ᐅᑭᐅᒃᑯᑦ ᑲᑎᙵᕙᖕᓂᖏᓐᓂ (ᑖᓃᖓᔪᒃᑐᓂᒃ 4.4), ᐊᒻᒪᓗ ᐃᓄᑑᕙᖕᓂᖏᓂ ᑐᒃᑐᐃᑦ ᑕᑯᔭᐅᕙᒃᑐᑦ ᐊᒃᓯᕈᕐᓇᖅᑐᒃᑯᓕᕌᖓᒥᒃ (Miller et al. 1977). ᑭᓯᐊᓂᓕ, ᓂᕿᒃᓴᓂᒍᓐᓇᐃᓕᒍᑎᒃ ᐊᐳᑎᖃᓗᐊᒧᑦᑦ/ᓯᑯᖃᓗᐊᒧᓪᓗᓐᓃ ᐊᖏᔪᒥᒃ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᓄᑦ ᐊᒥᓲᔪᓐᓃᕈᑕᐅᔪᓐᓇᕆᕗᑦ (Miller et al. 1977; Miller 1991).

ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ ᐊᑕᐅᓯᕐᒥᒃ ᕿᑭᖅᑕᒦᖏᓐᓇᕈᓐᓇᕐᒪᑕ ᐆᒪᓂᖏᓐᓂ ᐅᕝᕙᓗᓐᓃᑦ ᐅᑎᖅᑕᕈᓐᓇᖅᑐᑦ ᕿᑭᖅᑕᓚᓴᖕᓄᑦ ᐃᑳᕐᕕᐅᔫᓇᖅᑐᓂᒃ ᑕᕆᐅᕐᒥ ᓯᑯᒃᑯᑦ (Johnson et al. 2016). ᐊᖏᖅᓴᓂ ᕿᑭᖅᑕᓂ, ᓲᕐᓗ ᑕᐅᕙᓂ ᐃᑳᕼᐆᑉ ᕿᑭᖅᑕᖓᓂ ᐊᔾᔨᒋᖏᑦᑑᑎᐅᔪᓂᒃ ᓄᓇᐃᑦ ᖃᓄᐃᓕᖓᓂᖏᓐᓄᑦ ᕿᑭᖅᑕᒥ ᓅᖃᑕᐃᓐᓇᕈᓐᓇᕐᒪᑕ, ᑕᐃᒃᑯᐊᓗ ᐊᒥᓱᓴᖓᓂ ᕿᑭᖅᑕᓃᓲᑦ ᓅᖃᑕᕈᓐᓇᖅᑐᑦ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ ᐊᑐᐃᓐᓇᐅᓂᖏᓐᓄᑦ ᓂᕿᒃᓴᖅᓯᐅᕐᕕᒃᓴᐃᑦ ᐆᒪᔪᓐᓇᕐᓂᖏᓐᓄᑦ (Miller et al. 1977; Miller and Gunn 1978; Gunn et al. 1981; ᐊᐅᓯᐃᑦᑐᕐᒥ ᖁᑦᑎᒃᑐᒥ ᑐᒃᑐᓕᕆᓂᕐᒧᑦ ᑲᑎᒪᓂᖏᑦ ᐃᓕᓐᓂᐊᕐᓂᖏᓐᓂᓗ 1997-ᒥ; Miller and Barry 2003; Miller et al. 2005; ᑲᓇᑕᒥ ᐆᒪᔪᓕᕆᓂᕐᒧᑦ ᐱᔨᑦᑎᕋᐃᔾᔫᑦ 2012; ᐆᒪᔪᐃᑦ ᐊᒥᓲᖏᓗᐊᕐᓂᖏᓐᓄᑦ ᑲᑎᒪᔨᕋᓛᑦ 2012; ᖃᐅᓯᐃᑦᑑᐸ ᐊᖑᓇᓱᒃᑎᖏᑦ 2013; ᑳᓯᐃᒃᑯᑦ ᑲᑎᒪᔨᕋᓛᖏᑦ 2015).

ᐃᓯᒪᒋᔭᐅᖃᑕᕐᒥᔪᑦ ᕿᑭᖅᑕᓚᓴᓐᓂ ᓅᖃᑕᕐᓂᖏᑦ ᐊᖏᔫᑎᐅᓂᖅᓴᓂ ᓄᓇᒧᑦ ᑕᐃᒪᐃᑕᕆᐊᖃᖅᑐᑦ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ ᐆᒪᔪᖅᓯᐅᖅᑕᐅᑕᐃᓕᒪᓂᖏᓐᓄᑦ ᓂᕐᔪᑎᓄᑦ ᑐᒃᑐᓯᐅᖅᐸᒃᑐᓄᑦ ᓂᕿᒃᓴᖏᓐᓂᒃ (Miller and Gunn 2003b; ᐆᒪᔪᐃᑦ ᐊᒥᓲᖏᓗᐊᕐᓂᖏᓐᓄᑦ ᑲᑎᒪᔨᕋᓛᑦ 2012; Johnson et al. 2016). ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦᑕᐅᖅ ᕿᒪᐃᕙᖕᒥᔪᑦ ᓄᓇᒥᒃ ᐊᒥᓯᒐᓴᐅᓂᐊᖅᑐᓄᑦ ᐊᕐᕌᒍᓄᑦ, ᐅᑎᓂᐊᕆᓪᓗᑎᒃ ᓇᔪᕐᓂᐊᓕᕐᒪᔭᒥᓂᒃ (ᑲᓇᑕᒥ ᐆᒪᔪᓕᕆᓂᕐᒧᑦ ᐱᔨᑦᑎᕋᐃᔾᔫᑦ 2013; ᐊᐃᕕᖅ ᐊᖑᓇᓱᒃᑎᖏᑦ). ᐃᓯᒪᒋᔭᐅᖓᒪᑕ ᓅᖃᑕᕐᓂᖏᑦ ᐊᒥᓲᖏᕐᓯᑎᒃ, ᓂᕈᑐᔪᒥ ᓇᒧᖓᐅᕝᕕᕆᕙᒃᑕᖏᑦ 12-ᖏᓃᑐᓈᖅᓯᑎᒃ ᐊᑖᓂᓗᓐᓂᑦ ᐱᔾᔪᑎᖃᖅᑐᑦ ᓱᖏᐅᑎᔪᓐᓇᕐᓂᖏᓐᓂ ᐱᕈᖅᑐᖃᕐᕕᐅᓂᖏᓐᓄᑦ ᑕᐅᕙᓂ ᐊᒻᒪᓗ ᑎᑭᑕᐅᑕᐃᓕᒪᓂᕐᒥᓄᑦ ᐆᒪᔪᓄᑦ ᑐᒃᑐᓯᐅᖅᐸᒃᑐᓄᑦ ᐊᒻᒪᓗ ᖁᐱᕐᕈᖃᕐᓂᖓᓄᑦ ᕿᒃᑐᕆᐊᓪᓗ ᐊᓯᖏᓪᓗ ᑕᒪᒃᑯᐊ (ᑳᓯᐃᒃᑯᑦ ᑲᑎᒪᔨᕋᓛᖏᑦ 2015). ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ ᓇᓂᑐᐃᓐᓇᖃᑦᑕᕐᒥᔪᑦ ᓄᓇᒥ ᐊᒥᓯᓈᖅᓯᒪᖏᑦᑐᓂᒃ ᐊᕐᕋᒍᑕᒦᖅ ᐆᒪᓂᖏᓐᓂ, ᑖᓂᓘᓐᓃᑦ ᓄᕆᓂᖏᓐᓂᒃ ᐊᒻᒪᓗ ᒥᕐᑯᐃᔭᓕᖅᑎᓪᓗᒋᑦ. ᓄᕆᓯᒪᓕᖅᑎᓪᓗᒋᑦ ᐊᒥᓯᓂᖏᑦ ᐊᒥᓲᓗᐊᖃᑕᖏᒻᒥᔪᑦᒃ (ᖁᓕᐅᒐᔪᒃᑐ) ᓴᓂᐊᓂᒃ ᑕᐃᒃᑯᓇᖓᑦ ᓈᐹᖅᑐᖃᖏᑦᑐᕐᒥᐅᑦ ᑐᒃᑐᖏᓐᓂᒃ (ᕼᐊᓐᓇᓚᖏᓅᑐᓐᓇᖅᒪᑕ ᑕᐅᓴᒐᓴᖏᓐᓂᓗᓐᓂᑦ ᐊᑐᓂ ᑐᒃᑐᐃᑦ ᑲᑎᖓᓪᓗᑎᒃ) (Festa-Bianchet et al. 2011; ᑳᓯᐃᒃᑯᑦ ᑲᑎᒪᔨᕋᓛᖏᑦ 2015).

ᑐᖓᕕᐅᓪᓗᑎᒃ ᓇᓂ ᓇᔪᖃᑦᑕᕐᓂᖏᓐᓂ ᐃᔾᔪᐊᖅᑕᐅᔫᓇᕐᓂᖏᓐᓂ, ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ Johnson et al. (2016) ᓯᕗᓂᐊᒍᓪᓗ ᖃᐅᔨᓴᖅᑕᐅᖃᑕᓚᐅᕐᓂᖏᓐᓂ ᒪᓕᒃᑐᓂᒃ ᐃᓗᐃᓪᓕᒥ ᑭᓪᓕᓂᕐᒥᓗ ᑐᒃᑐᖏᓐᓂ (Poole et al. 2010), ᖃᓄᐃᓕᖓᓂ ᑕᕆᐅᕐᒥ ᓯᑯ ᑐᒃᑐᓄᑦ ᐃᑳᕐᕕᐅᑦᑎᐊᕈᓐᓇᕐᓂᐊᕈᑎᒃ ᐅᖓᑖᓂᑦᑕᕆᐊᖃᖅᐳᑦ >90%-ᓂᒃ ᓯᑯᖃᕐᓂᖓᓂᖓᓂ ᑕᕆᐅᕐᒥ ᑕᐅᕙᓂ ᐊᒻᒪᓗ ᐃᔾᔪᓂᖃᖅᑎᑦᑎᓗᑎᒃ ᑖᒥᓂ 10 cm ᓴᓐᑎᒦᑕᓕᖕᓂᒃ ᐅᖓᑖᓂᓗᓐᓂᑦ.

ᓄᕐᕋᕕᒋᕙᒃᑕᖏᑦ ᐊᒻᒪᓗ ᓄᓕᐊᓕᖅᐸᖕᓂᖏᑦ

ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ ᐊᔾᔨᒌᖏᑦᑑᑎᓂᒃ ᐊᑐᕈᓐᓇᓲᖑᕗᑦ ᓄᕐᕋᕕᒋᓂᐊᖅᑕᖏᓐᓂᒃ ᓄᓇᒥ. ᓂᕈᐊᖃᑦᑕᕐᒪᑕ ᐊᔾᔨᒌᖏᑦᑐᑎᐅᔪᓂᒃ ᓇᔪᕈᓇᖅᑕᖏᓐᓂᒃ ᓈᒪᔪᓂᒃ ᐱᕈᕐᕕᐅᓯᒪᔪᓂᒃ ᓂᕿᒃᓴᖅᓯᐅᕐᕕᐅᖏᓐᓇᕈᓐᓇᕐᓇᕐᓂᐊᖅᑐᓂᒃ (ᐊᐃᕕᖅ ᐊᖑᓇᓱᒃᑎᖏᑦ; ᑳᓯᐃᒃᑯᑦ ᑲᑎᒪᔨᕋᓛᖏᑦ 2015) ᐊᒻᒪᓗ ᑕᒪᐃᓐᓂ ᐳᖅᑐᓂᕐᒦᖃᑦᑕᖅᑐᑦ ᐊᑯᓐᓂᖅᓱᑐᓂᒃ ᖁᑦᑎᖕᓂᖅᓴᓂᒡᓗᓐᓂᑦ; ᐊᑦᑎᖕᓂᖏᓐᓃᑦᑐᑦ ᐊᑐᖅᑕᐅᕙᔪᐃᓐᓂᖅᓴᒻᒪᕆᐅᖕᒪᑕ. (ᖃᐅᓯᐃᑦᑑᐸ ᐊᖑᓇᓱᒃᑎᖏᑦ 2013; ᐃᑳᕼᐆᑉ ᐊᖑᓇᓱᒃᑏᑦ ᑲᑎᒪᔨᕋᓛᖏᑦ 2013; Johnson et al. 2016). ᓄᕐᕆᕙᒃᑐᑦ ᑖᒥᓂ ᓯᓪᔭᖅᐸᓯᐅᓂᕐᒥ (Miller 1991, 1992), ᐊᒻᒪᓗᑕᐅᖅ ᑖᒥᓂ ᓄᓇᖅᐱᐅᓂᕐᒥ ᐊᑐᖅᑕᐅᖃᑕᓪᓗᑎᒃ ᐊᕐᕋᒍᒥ ᐊᐳᑎᖃᑦᑎᐊᖏᓂᕐᒥ/ᓯᑯᖃᑦᑎᐊᖏᓂᕐᒥᓗ (Miller 1993a, 1994). ᐊᔾᔨᕐᕿᖃᑕᖏᓐᓂᖏᓐᓄᑦ, ᓇᓃᖃᑕᕐᓂᖏᑦ ᓄᕐᕋᕖᑦ ᐊᓯᔾᔨᖅᐸᓪᓕᐊᓕᖃᑕᕆᕗᑦ ᐊᑯᓂᐅᔪᒥ (ᐃᑳᕼᐆᑉ ᐊᖑᓇᓱᒃᑏᑦ ᑲᑎᒪᔨᕋᓛᖏᑦ 2013),

ᓇᓗᓇᖏᑲᓗᐊᕆᓪᓗᓂ ᐃᓚᖓᓂᒃ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ ᐊᑐᕈᒪᓂᖅᓴᐅᔫᖃᑕᕐᓂᖏᑦᒃ ᓄᕐᕆᕙᖕᓂ ᐊᖏᔫᑎᐅᓂᖅᓴᓂᒃ (Gunn and Fournier 2000). ᖃᐅᔨᒪᔾᔪᑎᖅᓴᖃᑦᑎᐊᖏᓗᐊᖅᑐᖅ ᓇᓂᓕ ᓄᓕᐊᖃᑕᕐᒪᖔᑕ ᑕᒪᐃᓐᓂ. ᑭᓯᐊᓂᓕ, ᓇᓗᓇᐃᖁᑕᖃᕆᕗᖅ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ ᐱᓗᐊᖅᑐᒥᒃ ᐊᑐᖅᑕᐅᖃᑕᕐᓂᖏᑦ ᓱᓪᓴᖅᐸᓱᖕᒧᑦ ᖃᓂᓐᓂᖏᑦ ᓄᓕᐊᕐᕕᐅᔪᓐᓇᕐᓂᖅᓴᐅᖃᑕᕐᓂᕐᒧᑦ (Miller and Barry 2003) ᑕᐃᑯᓐᓂᖓᑦᓴᐃᓐᓇᕐᓗᓂ ᓄᓕᐊᕐᕕᖃᓲᖑᔫᔭᖅᓱᑎᒃ (Miller et al. 1977).

ᐊᑲᒃᑐᖅᓯᒪᓂᖏᑦ 3. ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᐃᑦ ᐆᒪᓂᖏᓐᓂ ᖃᓄᐃᓕᐅᕐᓂᖏᑦ ᖃᖓᑯᓪᓗ ᓇᓃᖃᑖᕐᓂᖏᑦ ᑕᒪᒃᑯᓇᓂ (Johnson et al. 2016).

ᓄᓇᐃᑦ ᑐᒃᑐᖃᕐᕕᐅᕙᓐᓂᖏᑦ ᑕᒪᑯᓂᖓ	ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ ᐆᒪᓂᖏᓐᓂ ᖃᓄᐃᓕᐅᕐᕕᒋᕙᒃᑕᖏᑦ			
	ᓄᕐᓇᕕᖏᑦ	ᐊᐅᔭᒃᑯᑦ ᓂᕿᒃᓴᖅᓯᐅᕐᓂᖅ	ᓄᓕᐊᖃᑖᕐᓂᖏᑦ	ᐅᑭᐅᒃᑯᑦ ᓂᕿᒃᓴᖅᓯᐅᕐᕖᑦ
ᐃᑳHᐆᑉ ᕿᑭᖅᑕᖓᓂ – ᐅᐊᖕᓇᖅᐸᓯᖕᒐᑕ ᐱᖕᒐᖕᓇᖕᒐᓂ ᑭᓪᓕᓂᐅᑉ ᕿᑭᖅᑕᒐᓴᖏᑦ	ᐃᑳHᐆᑉ ᕿᑭᖅᑕᖓᓂ: ᐃᓱᖅᐸᓯᐊᓂ ᒪᐃᒥᒃ ᐱᖓᔪᐊᓐᓄᑦ ᐱᓇᓱᐊᕈᓯᕐᒧᑦ ᔪᓐᒥ ᐅᐊᖕᓇᖅᐸᓯᖕᒐᑕ ᐱᖕᒐᖕᓇᖕᒐᓂ ᑭᓪᓕᓂᐅᑉ: ᔪᓐ 5-ᒥᒃ 21-ᒧᑦ	ᔪᓚᐃᒥᒃ ᐋᒐᓯᒧᑦ	ᐱᓗᐊᖅᑐᒥᒃ: ᐃᓱᖅᐸᓯᐊᓂ ᐊᒃᑑᐱᕆᒥᒃ ᐱᒋᐊᓕᕐᕆᓂᖕᒐᓄᑦ ᓄᕕᐱᕆ	ᓯᑎᐱᕆᒥᒃ ᒪᐃᒧᑦ
ᑭᖕᒐᐃᓚᐅᑉ ᑕᕆᐅᕌᓗᐊᑕ ᐱᖕᒐᖕᓇᖕᒐᓂ ᕿᑭᖅᑕᐃᑦ	ᐱᒋᐊᓕᕐᕆᓂᖕᒐᓂᒃ ᔫᓐ ᑎᑭᓪᓗᒍ ᐱᒋᐊᓕᕆᓂᖕᒐᓄᑦ ᔪᓚᐃ; ᐱᓗᐊᖅᑐᒥᒃ: ᑐᓪᓕᖕᒐᓂᒃ ᓯᑕᒪᖕᒐᓄᑦ ᐱᓱᐊᕈᓯᕐᒧᑦ ᔪᓐᒥ	ᔪᓚᐃᒥᒃ ᐋᒐᓯᒧᑦ	ᐃᓱᖅᐸᓯᐊᓂᒃ ᓯᑎᐱᕆᑉ ᕿᑎᖅᐸᓯᐊᓄᑦ ᐊᒃᑑᐱᕆ	ᓯᑎᐱᕆᒥᒃ ᒪᐃᒧᑦ
ᑭᖕᒐᐃᓚᐅᑉ ᑕᕆᐅᕌᓗᐊᑕ ᑲᓇᖕᓇᖕᒐᓂ ᕿᑭᖅᑕᐃᑦ	ᐱᒋᐊᓕᕐᕆᓂᖕᒐᓂᒃ ᐃᓱᐊᓄᑦ ᔪᓐ	ᔪᓚᐃᒥᒃ ᐋᒐᓯᒧᑦ	ᐃᓱᖅᐸᓯᐊᓂᒃ ᓯᑎᐱᕆᑉ ᕿᑎᖅᐸᓯᐊᓄᑦ ᐊᒃᑑᐱᕆ	ᓯᑎᐱᕆᒥᒃ ᒪᐃᒧᑦ
ᑭᖕᒐᐃᓚᐅᑉ ᕿᑭᖅᑕᖓᓂ – ᑰᒐᓇᔫᑉ ᕿᑭᖅᑕᖓᓂ ᐊᑯᓂᖕᒋᓐᓂ – ᐃᑦᑐᐊᖅᑐᕐᕕᐅᑉ ᓄᕚᐊᓂ	ᑭᖕᒐᐃᓚᐅᑉ ᕿᑭᖅᑕᖓᓂ: ᐱᖕᒐᔪᐊᓐᓂ ᐱᓇᓱᐊᕈᓯᖅ ᔫᓐᒥ ᐃᑦᑐᐊᖅᑐᕐᕕᖕᒥ: ᐱᒋᐊᓕᕐᕆᓂᖕᒐᓂᒃ ᐃᓱᐊᓄᑦ ᔪᓐ	ᔪᓚᐃᒥᒃ ᐋᒐᓯᒧᑦ	ᐃᓱᖅᐸᓯᐊᓂᒃ ᓯᑎᐱᕆᑉ ᕿᑎᖅᐸᓯᐊᓄᑦ ᐊᒃᑑᐱᕆ	ᓯᑎᐱᕆᒥᒃ ᒪᐃᒧᑦ

3.3.2 ᐊᔪᕐᓇᕈᑕᐅᕙᒃᑐᓄᑦ ᐱᔾᔪᑕᐅᕙᒃᑐᑦ

ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ ᓄᕐᕆᒐᔪᐃᑦᑑᕚᑦ, ᑕᒪᓐᓇ ᑐᑭᓕᒃ ᒪᒥᓴᖅᓴᕋᐃᖕᒋᑦᑐᑦ ᖃᓄᑐᐃᓐᓇᖅ ᐸᕝᕕᓴᒃᑕᐅᓯᒪᓂᕐᒥᒃ ᖃᓄᑐᐃᓐᓇᖅ ᐊᒥᓲᔪᓐᓂᕈᑎᒋᕙᒃᑕᖏᓐᓂᒃ. ᐊᕐᓇᓪᓗᐃᑦ ᓄᕐᕆᔪᓐᓇᖅᓯᓕᒫᖃᑕᕐᒪᑕ ᐅᑭᐅᖃᓕᕈᑎᒃ ᒪᕐᕉᖕᓂᒃ ᐱᖕᒐᓱᓂᒡᓗᓐᓃᑦ, ᓄᕐᕋᖅᑖᓱᖕᖑᓪᓗᑎᓪᓗ ᐊᑕᐅᓯᕐᒥᒃ ᐊᕐᕋᒍᑕᒫᖅ ᓄᓕᐊᕈᓐᓇᖅᓯᓂᖕᒋᓐᓂᒃ (ᑳᓱᐃᒃᑯᑦ ᑲᑎᒪᔨᕋᓛᖏᑦ 2015). ᓈᒻᒪᖕᒋᒃᑐᓂᕐ ᓂᕿᒃᓴᖃᕐᕕᐅᔪᓐᓇᕐᓂᖏᑦ ᐅᑭᐅᒃᑯᑦ ᐊᒃᓱᕈᕐᓇᖅᑐᑦ ᐊᒥᓱᕈᖅᐸᓪᓕᐊᔪᓐᓇᕐᓂᖕᒋᓐᓄᑦ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ (ᑳᓱᐃᒃᑯᑦ ᑲᑎᒪᔨᕋᓛᖏᑦ 2015). ᖃᓄᐃᓂᖏᑦ ᑎᒥᒥᓂ, ᐊᒃᑐᖅᑕᐅᖃᑕᕐᒪᑕ ᐊᕐᓇᓪᓗᐃᑦ ᓂᕿᒃᓴᓂᒍᓐᓇᖃᑕᕐᓂᖏᓐᓂᒃ, ᐱᔾᔪᑕᐅᓂᐊᖅᑐᑦ ᐊᕐᓇᓪᓗ ᐃᑉᐱᓕᐊᓕᔭᕈᓐᓇᕐᓂᐊᕐᒪᖖᑲᑕ ᐊᕐᕌᒍᒥ (ᐆᒪᔪᐃᑦ ᐊᒥᓲᖕᒋᓗᐊᕐᓂᖏᓐᓄᑦ ᑲᑎᒪᔨᕋᓛᑦ 2012). ᑕᒃᑯᐊ ᐱᔾᔪᑕᐅᖃᑕᕐᓂᖏᑦ ᐱᒻᒪᕆᐅᔪᓂᒃ ᐊᔾᔨᒌᖕᒋᓗᑕᐅᕙᒃᑐᑦ ᐃᑉᐱᐊᓂᒃᓯᒪᔪᓐᓇᕐᓂᖕᒋᓐᓄᑦ ᓄᕐᕆᔪᓐᓇᕐᓂᖕᒋᓐᓄᓪᓗ ᐊᑯᓂᐅᓂᐊᖅᑐᒥᒃ ᐊᒻᒪᓗ ᐊᔾᔨᒌᖕᒋᑦᑐᓂ ᓇᓃᓂᖕᒋᓐᓂ (ᑳᓱᐃᒃᑯᑦ ᑲᑎᒪᔨᕋᓛᖏᑦ 2015). ᓯᓚᓗᒡᔪᐊᖃᑕᕐᓂᖅ ᐱᒻᒪᕆᐅᔪᓂ ᐊᔪᕈᑕᐅᓕᖃᑕᖅᑐᑦ ᓂᕿᒃᓴᓂᒍᓐᓇᖃᑕᕐᓂᖅ, ᐱᕐᓕᕋᕈᑕᐅᕙᒃᓱᑎᒃ, ᓇᒧᑐᐃᓐᓈᓘᓕᖃᑕᖅᓱᑎᓪᓗ ᓂᕿᒃᓴᖅᓯᐅᓂᖕᒋᓐᓂ, ᐊᒥᓱᐊᓗᐃᓪᓗ ᑐᖁᕋᕈᓐᓇᖅᑐᑦ ᐊᒻᒪᓗ/ᐅᕝᕙᓗᓐᓃᑦ ᐊᒥᓱᓐᓂᖅᐸᒃᑐᑦ ᓄᕐᕆᕙᓪᓕᐊᔪᓐᓇᕐᓂᖏᑦ (Miller and Gunn 2003b; ᐊᐃᕙᖅ ᐊᖑᓇᓱᒃᑎᖏᑦ; ᐸᐅᓗᑑᑉ ᐊᖑᓇᓱᒃᑏᑦ ᑲᑎᒪᔨᕋᓛᖏᑦ 2013; ᖃᐅᓯᐃᑦᑑᑉ ᐊᖑᓇᓱᒃᑎᖏᑦ 2013; ᐃᑳHᐆᑉ ᐊᖑᓇᓱᒃᑏᑦ ᑲᑎᒪᔨᕋᓛᖏᑦ 2013;

ᑕᓗᕐᔪᐊᑉ ᐊᖑᓇᓱᒃᑎᖏᑦ 2013). ᓄᕐᖃᔪᓐᓇᖅᓯᓲᖑᕗᑦ ᐅᑭᐅᖃᕋᔪᒃᑐᑎᒃ ᕐᑯᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ ᐊᑯᓂᖏᓐᓂ 7 ᐊᒻᒪᓗ 9-ᒥ ᐊᕐᕋᒍᓂᒃ, ᐊᕐᓇᓪᓗᐃᑦ ᐅᑭᐊᖃᕈᓐᓇᖅᑐᑦ ᑎᑭᐅᒪᔪᓂᒃ 15-ᓂᒃ (ᑳᓱᐃᒃᑯᑦ ᑲᑎᒪᔨᕋᓛᖏᓐᓄᑦ 2004; ᓄᓇᓖᑦ ᐅᓗᒃHᐊᖅᑑᖅ et al. 2008; ᐆᒪᔪᐃᑦ ᐊᒥᓲᖏᓗᐊᕐᓂᖏᓐᓄᑦ ᑲᑎᒪᔨᕋᓛᑦ 2012; ᑳᓱᐃᒃᑯᑦ ᑲᑎᒪᔨᕋᓛᖏᑦ 2015).

4. ᐅᓗᖃᐊᓇᖅᑐᑦ

4.1 ᐅᓗᖃᐊᓇᕈᑕᐅᔪᑦ ᑐᑭᓯᓂᐊᖅᑕᐅᓂᖏᑦ

ᕐᑯᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ ᐊᖏᔪᐊᓘᖕᒥ ᓄᓇᒦᕝᕙᖃᕐᓂᖏᓐᓄᑦ, ᑐᒃᑐᖃᕐᕙᐅᕙᓐᓂᖏᑦ ᑕᒪᒃᑯᓂᖓ ᐊᔾᔨᒌᖏᑦᑎᐊᕈᓐᓇᖅᑐᑦ ᓇᔪᖅᐸᒃᑕᖏᓐᓂ. ᑕᐃᒪᐃᓂᕐᒧᑦ, ᐅᓗᖃᐊᓇᕈᑕᐅᕙᓐᓂᖏᑦ ᕐᑯᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᓄᑦ ᐊᔾᔨᒌᖏᑦᑎᐊᕈᓐᓇᖅᑐᑦ ᓇᓃᓐᓂᖏᓐᓄᑦ, ᐊᓯᖏᓂᓗ, ᐊᒻᒪᓗ ᑕᐃᒪᐃᓐᓂᖓᓄᑦ ᑕᐃᒃᑯᐊ ᐱᒪᕆᐅᓂᖏᑦ ᐃᓚᖏᓐᓂ ᐃᓱᒪᓘᑕᐅᕙᖏᓐᓂᕗᑦ ᐊᓯᖏᓐᓂᒃ. ᐅᓗᖃᐊᓇᕈᑕᐅᔪᑦ ᑕᒪᕐᒥᒃ ᐊᔾᔨᒋᖏᓐᓂᖏᑦ ᑕᒃᑭᖅᑕᐅᒋᐊᖅᓯᒪᕗᑦ.

ᐅᓗᖃᐊᓇᕈᑕᐅᔪᑦ ᕐᑯᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᓄᑦ ᑎᑎᕋᖅᑕᐅᓚᐅᖅᑐᑦ ᑕᒪᐃᓐᓂ ᐊᒥᓱᕈᖅᓯᐊᕆᔭᐅᓂᖏᓐᓄᑦ ᖃᓄᐃᓕᐅᕈᑎᒃᓴᐃᑦ ᓴᓇᔭᐅᕙᓪᓕᐊᓂᖏᓐᓂ; ᑲᑎᒪᐅᑕᐅᓂᖏᓐᓂᓗ 8-ᖑᓚᐅᖅᑐᓂ ᓄᓇᓕᓂ. ᑕᒃᑯᐊ ᐊᒥᓱᕈᖅᓰᓂᕐᒧᑦ ᖃᓄᐃᓕᐅᕈᑎᒃᓴᓂᒃ, ᐅᓗᖃᐊᓇᖅᑐᓪᓗ ᕐᑯᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᓐᓄᑦ ᖃᐅᔨᓴᖅᑕᐅᑲᓂᕋᒥᒃ ᑕᐃᔭᐅᓕᓚᐅᖅᑐᑦ ᒪᓕᒃᑐᓂᒃ ᑕᐃᒃᑯᓂᖓ ᓄᓇᕐᔪᐊᕐᒥ ᓴᐳᓂᐊᖅᑏᑦ ᐃᓚᒌᒃᑐᓄᑦ ᑕᒪᐃᓐᓂᒃ ᓇᓗᓇᐃᒃᑯᑎᖅᑐᖅᓯᒪᔭᖏᓐᓂᒃ. ᑕᒃᑯᐊ ᓄᓇᕐᔪᐊᕐᒥ ᐃᓕᑕᖏᔭᐅᓯᒪᔪᑦ ᐅᓂᒃᑳᕈᑏᑦ ᐅᓗᖃᐊᓇᕈᑏᑦ ᐊᔾᔩᒃᑐᐃᓐᓇᐅᓂᖅᑯᓪᓗᒋᑦ ᐊᔾᔩᖏᑑᑎᓂ ᑐᒃᑐᓂᒃ, ᐱᐅᓯᕆᐊᕈᑕᐅᓗᑎᓪᓗ ᖃᐅᔨᒪᔭᐅᓂᖏᓐᓂᒃ ᐊᑐᖅᑕᐅᖃᑕᕈᓇᕐᓂᖅ ᑐᑭᓕᐅᖃᑎᒌᓐᓇᕐᓂᕐᒧᓪᓗ ᐆᒪᔪᓂ ᐊᒥᓲᖏᓗᐊᓕᖅᑐᓂ ᐊᓯᖏᓐᓂᓗ ᐆᒪᔪᓕᖃᓂᕐᒥᒃ ᐱᓕᖃᐊᖑᕙᑐᓂᒃ.

ᐅᓗᖃᐊᓇᕐᓂᕋᖅᑕᐅᔪᑦ ᑐᑭᖃᖅᑐᑦ ᑭᓇᒃᑯᑐᐃᓐᓇᐃᑦ ᐱᓕᖃᕙᓐᓂᖏᓐᓂᒃ (ᓲᕐᓗ ᐅᔭᕋᓐᓂᐊᖃᑦᑕᕐᓂᕐᒥᒃ) ᐱᐅᓯᑐᖃᕐᓂᓪᓗᓐᓂᑦ ᓴᕿᑉᐸᒃᑐᓂᒃ (ᓲᕐᓗ ᐆᒃᑑᑎᒋᓗᒍ ᓯᓚᓗᔅᔪᐊᕈᓐᓇᕐᓂ) ᐱᔾᔪᑕᐅᕙᒃᑐᑦ, ᐱᔾᔪᑕᐅᔪᓐᓇᖅᑐᓪᓗᓐᓃᑦ ᓯᕗᓂᒃᓴᒥᒃ ᓱᕋᖅᑎᖃᔪᓐᓇᕐᓂᖅ, ᐱᐅᔪᓐᓃᕈᑕᐅᔪᓐᓇᕐᓂᖅ ᐊᒻᒪᓗ/ᐅᕝᕙᓗᓐᓂᑦ ᐊᔪᓕᕈᑕᐅᔪᓐᓇᕐᓂᖅ ᐆᒫᔪᓄᑦ ᖃᓄᐃᑐᑐᐃᓐᓇᕐᓄᑦ (ᐊᔾᔨᒋᖏᓐᓂᖏᓐᓂ ᐆᒪᔪᐃᑦ), ᑲᑎᖓᕙᒃᑐᓂᓪᓗᓐᓃᑦ ᐆᒪᔪᓂᒃ (ᐱᑕᖃᕐᓂᖏᓐᓂ ᓇᓂᑐᐃᓐᓇᖅ) ᑕᒪᐃᓐᓂᓪᓗᓐᓃᑦ ᐱᑕᓕᖕᓂ ᐊᕙᑎᒥᒃ ᐊᕙᑎᒥᐅᑕᓂᓪᓗ (Salafsky et al. 2008). ᐅᓗᖃᐊᓇᕈᑕᐅᔪᑦ ᖃᐅᔨᒪᔭᐅᔪᓐᓇᖅᑐᑦ ᓄᓇᕐᔪᐊᕐᒥ, ᑲᓇᑕᓕᒫᒥ, ᐊᕕᒃᑐᖅᓯᒪᓂᖏᓐᓂᓗᓐᓂᑦ. ᖃᐅᔨᓴᖅᑕᐅᓂᖏᓐᓂ ᐅᓗᖃᐊᓇᕈᑏᑦ, ᒫᓇᐃᓐᓇᖅ ᐅᓗᖃᐊᓇᕈᑕᐅᓕᖅᑐᑦ ᑕᐃᒃᑯᐊᓗ ᓂᕆᐅᒋᔭᐅᔪᑦ ᓴᕿᓐᓂᐊᕐᓂᖅ ᑕᒫᓂ ᕐᑯᓕᓂᒃ 10 ᐊᕐᕋᒍᓂᒃ ᐊᒡᒥᖅᑐᓂ ᐃᓱᒪᒋᔭᐅᓯᒪᒋᕗᑦ. ᑭᓯᐊᓂᓕᑕᐅᖅ, ᑕᐃᒪᖓᓂᒃ ᐅᓗᖃᐊᓇᕈᑕᐅᔪᑦ, ᐊᓯᐊᒍᖕᖓᓗᑎᒃ ᐱᕙᓪᓕᐊᔪᒥᓪᓗᓐᓃᑦ ᐊᒃᑐᐃᕙᓪᓕᐊᔪᑦ ᐅᓗᖃᐊᓇᕈᑏᑦ ᐊᓯᖏᓪᓘᕆᓗᐊᖅ ᖃᐅᔨᒪᔭᐅᒍᑎᒃ ᐊᑑᑎᓖᑦ ᐅᖃᐅᓯᐅᒋᕗᑦ ᑖᕝᕙᓂ ᑎᑎᕋᖅᓯᒪᓂᖏᓐᓂ 4.2 ᑐᑭᓯᔭᐅᑎᐊᕈᓐᓇᖁᓪᓗᒋᑦ ᒫᓇᐅᓕᖅᑐᖅ ᐅᓗᖃᐊᓇᕈᑕᐅᔪᑦ.

ᐅᓗᖃᐊᓇᕈᑕᐅᓂᖏᓐᓂᑦ ᓇᓗᓇᐃᒃᑯᑎᖅᑕᐅᓯᒪᓂᖏᑦ ᐊᕕᒃᑐᖅᓯᒪᓂᖏᑦ ᑕᐃᒃᑯᓇᓂ ᕐᑯᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᓕᖕᓂ (ᐊᕕᒃᑐᖅᓯᒪᓂᖏᑦ 4) ᐱᔭᕇᖅᑕᐅᓚᐅᔪᕗᑦ ᐱᓕᕆᓄᑦ ᖃᐅᔨᓴᖅᑎᓄᑦ ᐊᒻᒪᓗ ᐊᑐᖅᑕᐅᓗᑎᒃ ᐃᓄᐃᑦ ᖃᐅᔨᒪᔭᑐᖃᖏᑦ/ᐱᐅᓯᑐᖃᕐᓂᒃ ᐊᕙᑎᒥᒃ ᐊᕙᑎᓕᕆᓂᕐᒥᓪᓗ ᖃᐅᔨᒪᔪᓂᒃ ᑕᒃᑯᓂᖓ ᕐᑯᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ ᓯᑎᐱᕆ 2014-ᒥ. ᐅᓂᒃᑳᑎᐊᒃᑲᓐᓂᖅᑐᓂᒃ ᑖᒃᑯᓂᖓ ᐱᑕᖃᖅᐳᖅ ᐊᕕᒃᑐᖅᓯᒪᓂᖏᑦ ᑕᑯᑎᑦᑎᕆᐊᕈᑎᖏᓐᓂ ᑕᐃᑲᓂ ᑳᓱᐃᒃᑯᑦ ᑲᑎᒪᔨᕋᓛᖏᓐᓂᒃ ᑳᓱᐃᒃᑯᓂᒃ (2015). ᐱᓕᕆᔩᑦ ᐃᓱᒪᒃᓴᖅᓯᐅᕈᑎᖃᓚᐅᖅᑐᑦ ᐊᖏᓂᖏᓐᓂᒃ, ᐱᒪᕆᐅᓂᖃᕐᓂᖏᓐᓂᒃ, ᐊᒻᒪᓗ ᖃᖓᐅᓕᖅᐸᑦ ᐊᓗᖃᐊᓇᕐᓂᖏᑦ. ᐊᖏᓂᖏᑦ ᐱᔾᔪᑎᖃᖅᑐᑦ ᓇᓈᓐᓂᖏᓐᓂᒃ ᑐᒃᑐᐃᑦ ᑕᒃᑯᐊ ᓂᕆᐅᒋᔭᐅᔪᑦ ᐊᒃᑐᖅᑕᐅᓯᒪᓂᐊᕐᓂᖅ ᐅᓗᖃᐊᓇᖅᑐᓄᑦ ᐊᒡᒥᖅᑐᓂ ᕐᑯᓕᓂᒃ ᐊᕐᕋᒎᓂᐊᖅᑐᓂᒃ. ᐱᒪᕆᐅᓂᖏᑦ ᓂᕆᐅᒋᔭᐅᕗᑦ ᑲᑕᒃᐸᓪᓕᐊᓂᐊᕋᓱᒋᔭᐅᓂᖅ ᐱᖓᓱᐃᓕᖃᖓᔪᓂᒃ ᑭᖑᓕᕇᒃᑐᓂᒃ ᑭᖀᖃᓕᖅᑎᓪᓗᒋᑦ ᑐᒃᑐᐃᑦ ᐅᓗᖃᐊᓇᕈᓐᓂᕐᔪᒥᐊᖅᑐᓂᒃ. ᖃᖓᐅᓕᖅᐸᑦ ᐅᖃᐅᓯᖃᖅᐳᖅ ᒫᓇᑲᐅᑎᒋ ᐅᓗᖃᐊᓇᕐᒪᖔᑕ ᐅᕝᕙᓗᓐᓃᑦ ᐅᓗᖃᐊᕈᓇᕐᓂᐊᓕᕐᓂᖏᓐᓂᒃ ᓯᕗᓂᒃᓴᒥ. ᐊᒃᑐᖅᑕᐅᔪᓐᓇᕐᓂᖏᑦ ᓇᓚᐅᑖᖅᑕᐅᕙᒃᑐᑦ ᑕᒪᐃᓐᓂᒃ ᐃᓱᒪᒋᔭᐅᓗᑎᒃ ᐊᖏᓂᖏᑦ ᐊᒻᒪᓗ ᓴᖏᐱᒪᕆᐅᓂᖃᕐᓂᖏᑦ.

ᑕᒪᐃᓐᓂᒃ ᑕᑯᓪᓗᒋᑦ ᐅᓗᖃᐊᓇᖅᑐᓄᑦ ᐊᒃᑐᖅᑕᐅᔪᓐᓇᕐᓂᖏᑦ ᕐᑯᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ ᕐᑯᑦᑎᒃᑐᒻᒪᖃᐊᓗᖕᒦᑉᐸᑦ-ᐊᑯᓂᖅᓱᖅᑐᓂᓗ.

ᐊᕙᒃᑐᖅᓯᒪᓂᖏᑦ 4. ᐅᓗᕆᐊᓇᕐᓂᖏᑦ ᓇᓗᓇᐃᒃᑯᑎᖅᑕᐅᓯᒪᓂᖏᑦ ᐊᕙᒃᑐᖅᓯᒪᓂᖏᓐᓂ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ

ᓄᓇᕐᔪᐊᕐᒥ ᓴᐳᓐᓂᐊᖅᑏᑦ ᐃᓚᒌᒃᑐᑦ ᐅᓗᕆᐊᓇᕐᓂᖅ #	ᐅᓗᕆᐊᓇᕐᓂᖏᑦ	ᐊᒃᑐᖅᑕᐅᓂᖏᑦ[ca]	ᐊᖏᓂᖏᑦ[cb]	ᐱᒻᒪᕆᐅᓂᖏᑦ	ᖃᖓᐅᓂᖏᑦ[cd]	ᐅᓂᒃᑳᖅᑕᐅᓂᖏᑦ
1	ᐃᓄᐃᑦ ᐃᓪᓗᒃᓴᖏᑦ ᐹᓇᐅᔭᓕᐅᕐᕕᓪᓗ ᓴᓇᔭᐅᓂᖏᑦ	ᐱᒻᒪᕆᐅᖏᑦᑐᑦ	ᐱᒻᒪᕆᐅᖏᑦᑐᑦ	ᐱᒻᒪᕆᐅᔪᖅ	ᐳᖅᑐᓂᕐᑏᓕᖅᑐᑦ	
1.1	ᐃᓪᓗᓕᐅᕐᓂᖅ ᐃᓄᒋᐊᕐᕕᐅᔪᓄᓪᓗ	ᐱᒻᒪᕆᐅᖏᑦᑐᑦ	ᐱᒻᒪᕆᐅᖏᑦᑐᑦ	ᐱᒻᒪᕆᐅᔪᖅ	ᐳᖅᑐᓂᕐᑏᓕᖅᑐᑦ	
3	ᐆᖅᒪᕐᑯᑎᒃᓴᓕᐅᕐᓂᖅ ᐊᒻᒪᓗ ᐅᔭᕆᓐᓂᐊᕐᓂᖅ	ᐊᑦᑎᒃᑐᖅ	ᐃᓚᐃᓐᓇᖏᑦ-ᒥᑭᔪᒥᒃ	ᐱᓗᐊᖏᑦᑐᒥᒃ	ᐳᖅᑐᓂᕐᑏᓕᖅᑐᑦ	
3.1	ᐊᖅᓱᐊᓗᒃᓯᐅᓂᖅ ᒐᓴᒃᓯᒪᓂᒡᓗ ᐃᑰᑕᕐᓂᖅ	ᐊᑦᑎᒃᑐᖅ	ᐃᓚᐃᓐᓇᖏᑦ-ᒥᑭᔪᒥᒃ	ᐱᓗᐊᖏᑦᑐᒥᒃ	ᐱᒪᕆᐅᖏᓐᓂᖅᓴᖅ	
3.2	ᐅᔭᕆᓐᓂᐊᕖᑦ ᐅᔭᕋᐃᑐᕐᕖᓪᓗ	ᐊᑦᑎᒃᑐᖅ	ᒥᑭᔪᒥᒃ	ᐱᓗᐊᖏᑦᑐᒥᒃ	ᐳᖅᑐᓂᕐᑏᓕᖅᑐᑦ	
4	ᐊᐅᐂᕈᑏᑦ/ᐃᖏᕐᕋᔾᔪᑏᑦ ᐱᔾᑦᑎᕋᐃᕖᓪᓗ ᐅᖓᓯᑐᒧᑦ	ᐊᑯᓐᓂᖅᑐᒥᒃ-ᐊᑦᑎᒃᑐᖅ	ᐃᓚᐃᓐᓇᖏᑦ-ᒥᑭᔪᒥᒃ	ᐱᒻᒪᕆᐅᓂᖅ - ᐱᒪᕆᐅᖏᓐᓂᖅᓴᖅ	ᐳᖅᑐᓂᕐᑏᓕᖅᑐᑦ	
4.1	ᐊᖅᑯᑏᑦ ᓄᓇᓯᐅᑎᑯᑖᖕᓄᓪᓗ ᐊᕐᑯᑎᑯᑖᑦ	ᐊᑦᑎᒃᑐᖅ	ᒥᑭᔪᒥᒃ	ᐱᓗᐊᖏᑦᑐᒥᒃ	ᐱᒪᕆᐅᖏᓐᓂᖅᓴᖅ	
4.2	ᐆᒻᒪᑎᒃᓴᓄᑦ ᐃᓪᓗᓄᓪᓗ ᓴᕙᒐᐅᔭᐃᑦ ᐅᐊᐃᔭᖏᑦ	ᐱᒻᒪᕆᐅᖏᑦᑐᑦ	ᐱᒻᒪᕆᐅᖏᑦᑐᑦ	ᐱᒻᒪᕆᐅᖏᑦᑐᑦ	ᖃᐅᔾᒪᔭᐅᖏ	
4.3	ᐅᒥᐊᕐᔫᒃᑯᕐᕕᑦ	ᐊᑯᓐᓂᖅᑐᒥᒃ-ᐊᑦᑎᒃᑐᖅ	ᐃᓚᐃᓐᓇᖏᑦ-ᒥᑭᔪᒥᒃ	ᐱᒻᒪᕆᐅᓂᖅ - ᐱᒪᕆᐅᖏᓐᓂᖅᓴᖅ	ᐳᖅᑐᓂᕐᑏᓕᖅᑐᑦ	• ᑕᕆᐅᑉ ᐃᒫᒍᑦ ᐃᖏᕐᕋᕙᒃᑐᑦ
4.4	ᖃᖓᑕᕖᑦ	ᐱᒻᒪᕆᐅᖏᑦᑐᑦ	ᐱᒻᒪᕆᐅᖏᑦᑐᑦ	ᐱᓗᐊᖏᑦᑐᒥᒃ	ᐱᒪᕆᐅᖏᓐᓂᖅᓴᖅ-ᐊᑦᑎᖕᓂᕐᒥ	• ᑎᑭᖃᑕᐃᓐᓇᖅᑐᑦ ᖃᖓᑕᓲᑦ
5	ᐆᒪᔪᓄᑦ ᓂᕿᒃᓴᖅᓯᐅᕖᑦ	ᐊᑦᑎᒃᑐᖅ	ᒥᑭᔪᒥᒃ	ᐱᓗᐊᖏᑦᑐᒥᒃ	ᐳᖅᑐᓂᕐᑏᓕᖅᑐᑦ	
5.1	ᐊᖑᓇᓱᒃᕕᐅᓂᖅ ᑲᑎᖅᓱᐃᕙᐅᓂᕐᓗ	ᐊᑦᑎᒃᑐᖅ	ᒥᑭᔪᒥᒃ	ᐱᓗᐊᖏᑦᑐᒥᒃ	ᐳᖅᑐᓂᕐᑏᓕᖅᑐᑦ	• ᐊᖑᓇᓱᖕᓂᖅ
6	ᐃᓄᐃᑦ ᑎᑭᓯᒪᓂᖏᑦ ᐸᒃᕕᓴᖃᑦᑕᕐᓂᖏᓪᓗ	ᐊᑦᑎᒃᑐᖅ	ᐃᓚᐃᓐᓇᒪᕆᖏ	ᐱᓗᐊᖏᑦᑐᒥᒃ	ᐳᖅᑐᓂᕐᑏᓕᖅᑐᑦ	
6.1	ᐃᕿᐊᖑᔭᐅᑕᐅᔪᑦ ᑲᔾᔾᕐᓇᔭᐅᔪᑦ	ᐱᒻᒪᕆᐅᖏᑦᑐᑦ	ᐱᒻᒪᕆᐅᖏᑦᑐᑦ	ᐱᒻᒪᕆᐅᖏᑦᑐᑦ	ᐳᖅᑐᓂᕐᑏᓕᖅᑐᑦ	
6.2	ᐅᓇᑕᖅᑐᑦ, ᓄᓇᖃᑎᒌᒃᑐᑦ ᖃᓄᐃᓕᐅᖅᐸᓪᓕᐊᔪᑦ ᐅᓇᑕᖅᑐᒃᓴᐃᑦ ᐆᒃᑐᕋᐅᑎᖏᑦ	ᐊᑦᑎᒃᑐᖅ	ᐃᓚᐃᓐᓇᒪᕆᖏ	ᐱᓗᐊᖏᑦᑐᒥᒃ	ᐳᖅᑐᓂᕐᑏᓕᖅᑐᑦ	
6.3	ᐃᖃᓇᐃᔮᕆᔭᐅᔪᑦ ᐊᓯᖏᓪᓗ ᐱᓕᕆᐊᕆᔭᐅᔪᑦ	ᐊᑦᑎᒃᑐᖅ	ᐃᓚᐃᓐᓇᒪᕆᖏ	ᐱᓗᐊᖏᑦᑐᒥᒃ	ᐳᖅᑐᓂᕐᑏᓕᖅᑐᑦ	

8	ᐸᒡᕕᓴᖅᑐᑦ ᐊᓯᙵᓪᓗ ᐊᑲᐅᙱᓕᐅᕈᑏᑦ ᐆᒫᔪᐃᑦ ᐊᒻᒪᓗ ᐊᔾᔨᐅᙱᑦᑐᑦ ᐱᑕᖃᓕᕐᓂᙱᑦ	ᐊᑰᓂᖅᑐᒥᒃ-ᐊᑦᑎᒃᑐᖅ	ᑲᔪᓰᓐᓇᖅᑐᒥᒃ	ᐱᒪᕆᐅᙱᓂᖅᓴᖅ-ᐱᓗᐊᙱᑦᑐᒥᒃ	ᐳᖅᑐᓂᕐᒦᓕᖅᑐᑦ	
8.1	ᓄᙳᑎᕆᕙᓕᐊᔪᑦ ᑖᒥᓃᐸᓚᐅᙱᑦᑐᑦ/ᐊᓯᐊᓂᙶᖅᑐᑦ ᐆᒪᔪᐃᑦ ᑯᒪᐃᓪᓗᓐᓄᑦ	ᐊᑰᓂᖅᑐᒥᒃ-ᐊᑦᑎᒃᑐᖅ	ᐊᙱᔪᒥᒃ - ᐃᓚᐃᓐᓇᒪᕆᙱ	ᐱᒪᕆᐅᙱᓂᖅᓴᖅ-ᐱᓗᐊᙱᑦᑐᒥᒃ	ᐳᖅᑐᓂᕐᒦᓕᖅᑐᑦ	• ᑯᒪᐃᑦ ᕿᑭᖅᑐᕆᐊᑦ ᐊᓇᙱᑦ ᐋᓐᓂᐊᕆᔭᐅᕙᒃᑐᑦ (ᑕᒪᐃᓐᓂᒃ ᑖᒥᓐᙱᓐᓇᓚᖅᑐᑦ ᑕᒪᐅᙵᖅᐸᓪᓕᐊᔪᓪᓗ)
8.2	ᐊᑲᐅᙱᓕᐅᕈᑏᑦ ᐆᒪᔪᐃᑦ	ᐊᑦᑎᒃᑐᖅ	ᑲᔪᓰᓐᓇᖅᑐᒥᒃ	ᐱᓗᐊᙱᑦᑐᒥᒃ	ᐳᖅᑐᓂᕐᒦᓕᖅᑐᑦ	• ᓂᕿᒃᓴᖅᓯᐅᕐᓂᙱᑦ (ᓲᕐᓗ ᐅᒥᙵᐃᑦ) • ᓂᕆᔾᒃᓴᖅᓯᐅᖅᑐᑦ (ᓲᕐᓗ ᐊᒫᕈᐃᑦ)
8.3	ᐱᑕᖃᓕᖅᐸᓪᓕᐊᔪᑦ ᐆᒪᔪᐃᑦ ᓴᓇᒪᓂᓖᑦ ᐊᔾᔨᐅᙱᑦᑐᓂᒃ	ᖃᐅᔨᒪᔭᐅᙱ	ᒥᑭᔪᒥᒃ	ᖃᐅᔨᒪᔭᐅᙱ	ᐳᖅᑐᓂᕐᒦᓕᖅᑐᑦ	
9	ᓱᕈᐃᕙᓪᓕᐊᔪᑦ ᓴᓗᒪᕙᓚᐅᖅᑐᓂᒃ	ᖃᐅᔨᒪᔭᐅᙱ	ᑲᔪᓰᓐᓇᖅᑐᒥᒃ	ᖃᐅᔨᒪᔭᐅᙱ	ᐳᖅᑐᓂᕐᒦᓕᖅᑐᑦ	
9.4	ᐊᒃᑕᑯᐃᑦ ᓯᑎᔪᓪᓗ ᓯᑎᔪᓪᓗ ᐊᒃᑕᑯᐃᑦ	ᖃᐅᔨᒪᔭᐅᙱ	ᑲᔪᓰᓐᓇᖅᑐᒥᒃ	ᖃᐅᔨᒪᔭᐅᙱ	ᐳᖅᑐᓂᕐᒦᓕᖅᑐᑦ	
9.5	ᓯᓚᒃᑰᑦ ᑎᑭᐸᓕᐊᔪᑦ ᓱᕈᕐᓇᖅᑐᓖᑦ ᓯᓚᒥᒃ	ᖃᐅᔨᒪᔭᐅᙱ	ᑲᔪᓰᓐᓇᖅᑐᒥᒃ	ᖃᐅᔨᒪᔭᐅᙱ	ᐳᖅᑐᓂᕐᒦᓕᖅᑐᑦ	
11	ᓯᓚᐅᑉ ᐊᓯᔾᔨᖅᐸᓪᓕᐊᓂᖓ ᐊᒻᒪᓗ ᓯᓚᓗᒡᔪᐊᖃᑦᑕᕐᓂᖅ	ᐳᖅᑐᔪᖅ - ᐊᑯᓂᖅᑐᑦ	ᑲᔪᓰᓐᓇᖅᑐᒥᒃ	ᐱᒻᒪᕆᐅᓂᖅ - ᐱᒪᕆᐅᙱᓂᖅᓴᖅ	ᐳᖅᑐᓂᕐᒦᓕᖅᑐᑦ	
11.1	ᓇᔪᖅᑕᐅᕙᓐᓂᙱᑦ ᐊᓯᔾᔨᖅᐸᓪᓕᐊᔪᑦ ᐊᒻᒪᓗ ᐊᓯᕈᖅᐸᓪᓕᐊᓕᖅᑐᑦ	ᐳᖅᑐᔪᖅ - ᐊᑯᓂᖅᑐᑦ	ᑲᔪᓰᓐᓇᖅᑐᒥᒃ	ᐱᒻᒪᕆᐅᓂᖅ - ᐱᒪᕆᐅᙱᓂᖅᓴᖅ	ᐳᖅᑐᓂᕐᒦᓕᖅᑐᑦ	• ᑕᕆᐅᕐᒥ ᓯᑯᐃᔭᖅᐸᓪᓕᐊᓂᖅ • ᑕᕆᐅᕐᒥ ᐃᒪᖅ ᐃᑎᒡᓕᕙᓪᓕᐊᓂᖅ ᓱᕋᐃᕙᓪᓕᐊᓂᖓᓄᓗ ᓄᓇᒥᒃ • ᐱᕈᖅᑐᑦ ᐊᓯᔾᔨᕐᓂᙱᑦ
11.4	ᓯᓚᓗᒡᔪᐊᕐᓂᖅ ᐊᒻᒪᓗ ᐅᓐᓂᖅ	ᐊᑰᓂᖅᑐᒥᒃ-ᐊᑦᑎᒃᑐᖅ	ᐃᓚᐃᓐᓇᙱᑦ-ᒥᑭᔪᒥᒃ	ᐱᒻᒪᕆᐅᓂᖅ - ᐱᒪᕆᐅᙱᓂᖅᓴᖅ	ᐱᒪᕆᐅᙱᓂᖅᓴᖅ	• ᓯᑰᑳᓪᓚᖃᑦᑕᓕᕐᓂᖅ • ᐊᓄᕆ
ᑕᒪᐃᓐᓂᒃ ᐅᓗᕆᐊᓇᕐᓂᙱᓐᓄᑦ ᐊᒃᑐᖅᑕᐅᔪᓐᓇᕐᓂᖅ: ᐱᒻᒪᕆᐅᔪᒥᒃ ᐳᖅᑐᔫᒪᕆᒃ- ᐊᑰᓂᒎᖓᔪᑦ						

[a] **ᐊᒃᑐᖅᑕᐅᓂᙱᑦ** – ᖃᓄᖅ ᐆᒪᔪᐃᑦ ᑕᑯᔭᐅᓯᒪᓂᙱᑦ, ᐃᓱᒪᒋᔭᐅᓂᙱᑦ, ᐸᓴᒋᔭᐅᓕᖅᑐᓪᓗᓐᓂᑦ ᐊᒃᑐᖅᑕᐅᓂᙱᓐᓂ ᐊᓯᐊᒎᖅᑑᖃᓗᐊᒃᑯᓪᓗᓐᓂᑦ ᐅᓗᕆᐊᓇᖅᑐᒦᓐᓂᙱᑦ. ᐅᓗᕆᐊᓇᖅᑐᓄᑦ ᐊᒃᑐᖅᑕᐅᔪᓐᓇᕐᓂᙱᑦ ᒪᓕᒃᐳᑦ ᐱᒻᒪᕆᐅᓂᙱᓐᓂᒃ ᐊᙱᓂᙱᓐᓂᓪᓗ ᓇᓗᓇᐃᖅᑕᐅᓯᒪᔪᓂ, ᐃᓱᒪᒋᔭᐅᓗᑎᒃ ᒪᓐᓇᐅᔪᖅ ᓯᕗᓂᒃᓴᒧᓪᓗ ᐅᓗᕆᐊᓇᕈᓐᓇᕐᓂᙱᑦ. ᐅᓗᕆᐊᓇᖅᑐᓪᓄᑦ ᐊᒃᑐᖅᑕᐅᔪᓐᓇᕐᓂᙱᑦ ᐅᖃᐅᓯᖃᖅᑐᑦ ᐊᒥᓲᔪᓐᓃᕈᑕᐅᓂᙱᓐᓂᒃ ᑕᒪᒃᑯᓄᖓ ᐆᒪᔪᓄᑦ ᐅᕝᕙᓗᓐᓂᑦ ᓱᕋᖅᑎᖅᑕᐅᓂᙱᓐᓄᑦ/ᐱᐅᔪᓃᕈᑕᐅᓂᙱᓐᓄᑦ ᐊᕙᑎᙱᓐᓂ ᐊᕙᑎᒥᐅᑕᙱᓐᓂᓗ. ᐊᑰᓂᖅᓱᖅᑐᒥᒃ ᑐᒃᑐᐃᑦ ᐊᒥᓲᔪᓐᓂᕐᓂᙱᑦ ᓇᔪᖅᐸᒃᑕᙱᓪᓗᓐᓃᑦ ᐱᐅᔪᓐᕿᓐᓇᕐᓂᙱᑦ ᐊᑐᓂ ᐊᙱᓂᙱᓐᓂᒃ ᐱᒻᒪᕆᐅᓂᙱᓐᓂᓗ ᒪᓕᒃᐳᑦ ᓇᓗᓇᐃᒃᑯᑦᑎᖅᑕᐅᓯᒪᓂᙱᓐᓂᒃ ᐅᓗᕆᐊᓇᖅᑐᓄᑦ ᐊᒃᑐᖅᑕᐅᓯᒪᓂᙱᓐᓂᒃ. ᐳᖅᑐᔫᒪᕆᐊᓗᙱᒃ (75% ᑲᑕᒍᑕᐅᓂᕐᒧᑦ), ᐳᖅᑐᔪᖅ (40%), ᐊᑯᓂᖅᑐᑦ (15%), ᐊᒻᒪᓗ ᐊᑦᑎᙵᕐᒥ (3%). ᖃᐅᔨᒪᔭᐅᙱᑦ: ᐊᑐᖅᑕᐅᕙᒃᑐᑦ ᑐᑭᓕᐅᕈᑕᐅᔪᓐᓇᙱᑎᓪᓗᒋ5 ᖃᓄᖅ ᐊᒃᑐᖅᑕᐅᔪᓐᓇᕐᓂᙱᑦ. (ᓲᕐᓗ ᐆᒃᑐᑎᒋᓗᒍ, ᑕᐃᔭᐅᓂᙱᑦ ᓇᓕᐊᙱᑐᐃᓐᓇᖅ ᐊᙱᓂᙱᓐᓂᒃ ᐱᒻᒪᕆᐅᓂᙱᓐᓂᓗᓐᓃᑦ ᖃᐅᔨᒪᔭᐅᙱᒃᑯᑎᒃ. ᓇᓚᓇᐅᑖᖅᑕᐅᓯᒪᙱᑦᑐᑦ: ᐊᒃᑐᖅᑕᐅᔪᓐᓇᕐᓂᙱᑦ ᓇᓚᐅᑖᖅᑕᐅᓯᒪᙱᑦᑐᑦ ᐅᓗᕆᐊᓇᕐᓂᙱᓐᓂᒃ ᓯᓚᑖᓐᒃᑯᑎᒃ ᐱᕕᒃᓴᓕᐊᕆᔭᐅᓯᒪᓂᙱᓐᓂᒃ (ᓲᕐᓗ ᐆᒃᑐᑎᒋᓗᒍ, ᖃᙳᓇᔭᕐᓂᙶ ᐃᒃᐱᒋᔭᐅᑎᐊᕋᔭᙱᓂᙶᓄᑦ/ᐱᒻᒪᕆᐅᙱᓂᙶᓄᑦ ᐅᕝᕙᓗᓐᓃᑦ

ᐊᑦᑎᖕᓂᖓᓃᑉᐸᑦ ᐅᓗᕆᐊᓇᕐᓂᖓᓂ ᑕᐃᔅᓯᒪᓃᓐᓇᐅᕙᓚᐅᖅᑐᖅ); ᐱᒻᒪᕆᐅᖏᓐᓂᖅ: ᐊᖏᓂᖏᓐᓂ ᐱᒻᒪᕆᐅᖏᓂᖓᓂᓗᓐᓃᑦ ᐅᓗᕆᐊᓇᖏᑦᑐᑦ: ᖃᖓᑐᐃᓇᖅ ᐱᒻᒪᕆᐅᓂᖏᑦ ᓇᓗᓇᐃᒃᑯᑦᑎᖅᑕᐅᓯᒪᒍᑎᒃ ᐊᒃᑐᖅᓯᢵᖏᓂᖅ ᐅᑯᓗᓐᓃᑦ ᐃᑲᔪᕐᓂᖃᕈᓇᕐᓂᕐᒥᒃ.

[b] **ᐊᖏᓂᖏᑦ** – ᓂᕈᐅᑭᔾᐅᔩᓇᕐᓂᖅ ᐆᒪᔪᐃᑦ ᐊᒃᑐᖅᑕᐅᓯᒪᔩᓇᕐᓂᖏᓐᓂ ᖁᓕᓂᒃ 10 ᐊᕐᕋᒎᐃᑦ ᐃᓗᐊᓂ ᐊᑦᑎᖅᑐᓂ. ᑐᑭᖃᕋᔫᒃᑐᖅ ᐆᒃᑐᕋᖅᑕᐅᓂᐅᖏᓂᒃ ᐃᓚᖏᓐᓂ ᐆᒪᔪᐃᑦ ᐊᒃᑐᖅᑕᐅᓯᒪᔩᓇᕐᓂᖏᓐᓂᒃ. (ᑲᔪᓰᓇᖅᑐᒥᒃ = 71–100%; ᐊᖏᔪᒥᒃ = 31–70%; ᐃᓚᐃᓐᓇᒪᕆᖏ = 11–30%; ᒥᑭᔪᒥᒃ = 1–10%; ᐱᒻᒪᕆᐅᖏᑐᑦ ᐊᑖᓂ < 1%).

[c] **ᐱᒻᒪᕆᐅᓂᖏᑦ** – ᑖᒃᑯᓇᓂ, ᓲᒃᑯᕈᖅᑎᑕᐅᔩᓇᕐᓂᖏᑦ ᐆᒪᔪᐃᑦ ᐅᓗᕆᐊᓇᖅᑐᓂᒃ ᓂᕈᐅᑭᔾᐅᔪᓂᒃ ᐊᒃᑐᖅᑕᐅᔩᓇᕐᓂᖅ ᑕᒫᓂ ᖁᓖᑦ 10 ᐊᕐᕋᒎᐃᑦ ᐊᑦᑎᖅᑐᑦ ᐃᓗᐊᓂ ᐅᕙᓗᓐᓃᑦ ᐱᖓᔪᑭᓕᖅᑕᖏᓐᓂᒃ 3 ᑭᖑᕚᖃᓕᕐᓂᖏᓐᓄᑦ ᑎᑭᓪᓗᑎᑦ. ᐅᒃᑐᕋᖅᑕᐅᕙᔫᒃᑐᑦ ᒪᓕᒃᑐᓂᒃ ᐊᒥᔅᓲᔫᖅᓯᒪᓂᖏᓐᓂᒃ ᑐᒃᑐᐃᑦ ᑕᒪᒃᑯᐊ. (ᐱᒻᒪᕆᐊᓘᓂᖅ = 71–100%; ᐱᒻᒪᕆᐅᓂᖅ = 31–70%; ᐱᒪᕆᐅᖏᓂᖅᓴᓂᒃ = 11–30%; ᐊᑯᓐᓂᖅᑐᒥᒃ = 1–10%; ᐱᒻᒪᕆᐅᖏᑐᒥ ᐊᑖᓃ < 1%; ᐊᒃᑐᖅᓯᓇᔭᖏᑦᑐᑦ ᐃᑲᔪᕐᓂᖃᕈᓇᖅᑐᓐᓃᑦ ᐊᑖᓃ ᖁᑗᓂᓗᓐᓃᑦ ≥ 0%).

[d] **ᖃᖓᐅᓂᖏᑦ** – ᐳᖅᑐᔪᖅ = ᑲᔪᓯᔪᖅ; ᐱᒪᕆᐅᖏᓂᖅᓴᖅ = ᓯᕗᓂᒃᓴᐃᓇᕐᒦᑐᓇᖅᑐᑦ (ᕿᓚᒥᐅᑕᖅᑐᓂ ᑕᒫᓂ ᐃᓗᐊᓂ ᖁᓖᑦ [ᐊᑖᓂ < 10 ᐊᕐᕋᒍᐃᑦ ᐃᓗᐊᓂ ᐅᕙᓗᓐᓃᑦ ᐱᖓᓱᑭᓕᖅᑕᖏᓐᓂᒃ 3 ᑭᖑᕚᖃᓕᕐᓂᖏᓐᓂ]) ᐅᕙᓗᓐᓃᑦ ᐱᑕᖃᕈᓂᖅᓯᒪᓕᖅᑐᓂ ᓚᓐᓇᐅᓕᖅᑐᖅ (ᐅᑎᕈᓇᕐᒥᔪ ᕿᓚᒥᐅᔾᒃᑯᑦ); ᐊᑦᑎᖕᓂᕐᒦᑦᑐᑦ = ᓯᕗᓂᒃᓴᐃᓇᕐᒥ ᓴᕿᑦᑐᓇᖅᑐᑦ (ᓯᕗᓂᒃᓴᑐᖃᐅᓂᖅᓴᒥ) ᐅᕙᓗᓐᓃᑦ ᓚᓐᓇᐅᓕᖅᑐᖅ ᐱᑕᖃᕈᓐᓂᖅᓯᒪᓕᖅᑐᑦ (ᐅᑎᕈᓇᕐᒥᔪᑦ ᐊᑯᓂ ᓯᕗᓂᒃᓴᒥ); ᐱᒻᒪᕆᐅᖏᑐᑦ/ᐃᒃᐱᑭᔾᐅᓇᔾᔭᖏᑦᑐᑦ = ᑕᐃᔅᓯᒪᓃᑕᐃᓐᓇᐃᑦ, ᐅᑎᕐᓂᐊᕋᓱᑭᔾᐅᔫᖅᑐᑦ, ᐅᕙᓗᓐᓃᑦ ᐊᒃᑐᖅᓯᓇᔭᖏᑦᑐᑦ ᓇᖕᒥᓂᖅ ᑭᓯᐊᓂ ᐃᓛᐃᓐᓇᖓᒍᑦ ᐊᒃᓲᕌᑕᐅᔩᓇᖅᑐᖅ.

4.2 ᐅᓂᒃᑳᖅᑕᐅᓂᖏᑦ ᐅᓄᕆᐊᓇᕈᑏᑦ

ᐱᒻᒪᕆᐅᓂᖅᐸᓐᖑᕗᑦ ᐅᓄᕆᐊᓇᕈᑕᐅᔪᑦ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᓐᓄᑦ ᐱᔾᔪᑎᖃᖅᑐᑦ ᐊᒃᑐᖅᑕᐅᔪᓐᓇᕐᓂᖏᑦ ᓯᓚᐅᑉ ᐊᓯᔾᔨᖅᐸᓪᓕᐊᓂᖓᓄᑦ, ᑕᕆᐅᕐᒥᓗ ᓯᑯᐃᔭᖅᐸᓪᓕᐊᓂᖓᓄᑦ, ᓯᑯᑳᓪᓚᖃᑦᑕᕐᓂᖓᓄᓪᓗ ᓂᕿᒃᓴᒥᓂᒃ ᑎᑭᐅᑎᔪᓐᓇᐃᓕᖃᑦᑕᕐᓂᖏᓐᓂᒃ ᐊᒻᒪᓗ ᑕᕆᐅᕐᒥ ᐃᒪᖓ ᐃᑎᒡᓕᕙᓪᓕᐊᓂᖓᓄᑦ. ᐊᓯᖏᓂᒃᑕᐅᖅ ᐱᒻᒪᕆᐅᔪᑦ ᐅᓄᕆᐊᓇᕈᑕᐅᒋᕗᑦ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᓪᓗᑦ ᑕᒪᒃᑯᐊ ᓯᑯᐃᔭᖅᑕᐅᖃᑦᑕᕐᓂᖏᑦ ᑕᕆᐅᕐᒥ ᐅᒥᐊᕐᔪᐊᓄᑦ, ᐊᒻᒪᓗ ᑕᒪᒃᑯᐊ ᐱᑕᖃᓗᙵᓕᕐᓂᖏᓐᓄᑦ ᑯᒪᐃᓪᓗ, ᖁᐸᕿᐃᓪᓗ ᐋᓐᓂᐊᓕᕈᑕᐅᔪᓐᓇᖅᑐᓪᓗ. ᐅᔭᕐᖕᓂᐊᕐᕖᑦ ᐊᒻᒪᓗ ᐅᔭᓚᓐᓂᐊᒐᒃᓴᖅᓯᐅᖅᑕᐅᔪᑦ, ᓂᕿᒃᓴᓂᒐᓱᐊᕐᓂᖅᓴᐅᔪᑦ ᐆᒪᐃᔪᐃᑦ, ᑐᒃᑐᓱᐅᖅᑕᐅᕙᖕᓂᖏᓐᓄᑦ ᐆᒪᔪᓄᑦ, ᐃᓄᖕᓄᑦ ᐸᓐᖑᓴᖅᑕᐅᖃᑦᑕᕐᓂᖏᑦ ᐊᒻᒪᓗ ᐊᖑᓇᓱᒃᑕᐅᕙᖕᓂᖏᑦ ᐅᓄᕆᐊᓇᕈᑕᐅᒋᕗᑦ ᑕᒪᒃᑯᓄᖕᒑ ᐆᒪᔪᓄᑦ. ᐅᓄᕆᐊᓇᕈᑕᐅᔪᑦ ᐊᑐᓂ ᐃᖕᒥᒨᖅᑐᓂᒃ ᐅᓂᒃᑳᖅᑕᐅᕗᑦ ᐊᑖᓂ ᑕᐃᒃᑯᐊ ᐳᖅᑐᕚᓂᖏᓐᓂᒃ ᐊᑦᑎᖕᓂᖏᓐᓄᑦ ᐊᒻᒪᓗ ᐊᑐᓂ ᐅᓄᕆᐊᓇᕈᑕᐅᔪᑦ ᐊᕕᒃᑐᖅᔪᓐᓇᓂᖏᓐᓂ ᐊᒻᒪᓗ ᐊᑐᖅᑕᐅᕙᒃᑐᓂᒃ ᓇᓴᐅᑎᖃᖅᑎᑕᐅᓪᓗᑎᒃ ᒪᓕᒃᑐᓂᒃ ᓄᓇᕐᔪᐊᕐᒥ ᓴᐳᓐᓂᐊᖅᑏᑦ ᐃᓚᒌᒃᑐᑦ ᓇᓗᓇᐃᒃᑯᑦᑎᖅᑐᐃᕙᓐᓂᖏᓐᓂᒃ. ᐅᓄᕆᐊᓇᕐᓂᖏᑦ ᐅᖃᐅᓯᐅᔪᑦ ᑖᕙᓂ ᑕᐃᒃᑯᐊᖏᓐᓇᐅᕗᑦ ᐊᒃᑐᖅᓯᔪᓐᓇᖅᑐᑦ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ ᖁᓕᐅᓂᐊᖅᑐᓂ ᐊᕐᕋᒎᓂᐊᖅᑐᓂ ᐊᒡᕕᖅᑐᓂ.

4.2.1. ᓯᓚᐅᑉ ᐊᓯᔾᔨᖅᐸᓪᓕᐊᓂᖓ ᐊᒻᒪᓗ ᓯᓚᓗᒃᔪᐊᖃᑦᑕᕐᓂᖅ (ᓄᓇᕐᔪᐊᕐᒥ ᓴᐳᓐᓂᐊᖅᑏᑦ ᐃᓚᒌᒃᑐᑦ ᐅᓄᕆᐊᓇᕐᓂᖏᑦ 11)

ᐱᒻᒪᕆᐅᓂᖅᐸᓐᖑᕗᑦ ᐅᓄᕆᐊᓇᕈᑕᐅᕗᑦ ᑕᒪᒃᑯᓄᖕᒑ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᓐᓄᑦ ᐱᔾᔪᑎᓖᑦ ᓯᓚᐅᑉ ᐊᓯᔾᔨᖅᐸᓪᓕᐊᓂᖓᓂᒃ. ᐅᑭᐅᖅᑕᖅᑐᖅᐸᓱᒃ ᐱᑕᖃᕐᒪᑦ ᐱᒻᒪᕆᐅᓂᖅᐸᓐᖑᔪᓂᒃ ᐆᓇᖅᓯᕙᓪᓕᐊᓂᕐᒥᒃ ᑕᐃᒪᙵᓂᒃ ᕿᑎᖅᐸᓯᐊᓂᒃ 1900-ᖏᓐᓂ ᐊᕐᕋᒍᓚᐅᖅᑐᓂᒃ ᐊᑐᕐᓂᖏᓐᓂ (Post et al. 2009; Zhang et al. 2011; IPCC 2013; ᐃᖃᓗᒃᑐᑦᑎᐊᕐᓂ ᐊᖑᓇᓱᒃᑎᒃᑯᑦ 2016). ᑕᑯᕙᓕᖅᑐᑦ ᐊᒃᑐᖅᑕᐅᓂᖏᓐᓂᒃ ᓯᓚᐅᑉ ᐊᓯᔾᔨᖅᓯᒪᓂᖓᓄᑦ ᑕᒫᓂ ᓇᔪᖅᐸᒃᑕᖏᓐᓂ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᐃᑦ, ᑕᒪᐃᓐᓂᐊᓘᖏᕖᒡᒐᓗᐊᖅ ᓄᓇᓕᖕᓂ ᐊᒃᑐᖅᑕᐅᓯᒪᐃᓐᓇᐅᒐᑎᒃ. ᖃᐅᔨᔭᐅᓂᖏᑦ ᐊᓯᔾᔨᖅᑐᑦ ᐃᓚᖏᑦ ᒪᑯᓂᖓ ᑕᕆᐅᕐᒥ ᐃᒪᖅ ᐊᑦᑎᖕᓂᖅᓴᐅᓕᕐᓂᖏᓐᓂᒃ ᐃᓚᖏᓐᓂ ᐊᒻᒪᓗ ᐊᓯᖏᓐᓂ ᖁᕝᕙᓇᐊᖅᓯᒪᓂᖏᓐᓂ ᐃᒪᐃᑦ, ᐃᒪᑭᓐᓂᖅᓴᐅᓕᖅᑐᑦ ᑕᓲᑦ ᑕᓯᐊᕐᔪᐃᓪᓗ, ᐱᕈᖅᑐᖃᕐᓂᖅᓴᐅᓕᖅᑐᖅ, ᓯᑯᓯᒪᑳᓪᓚᓕᖃᑦᑕᖅᑐᑦ, ᐊᓄᕆᖃᑦᑕᕐᓂᖅᓴᐅᓕᖅᑐᖅ, ᖁᐱᕐᕈᖃᕐᓂᖅᓴᐅᔪᖅ/ᕿᒃᑐᕆᐊᓪᓗᐃᑦ ᐱᑕᖃᕐᓂᖏᓐᓂ, ᐊᓯᔾᔨᖅᓯᒪᓕᖅᑐᑦ ᖃᖓ ᓯᑯᕙᓕᕐᓂᖅ ᐊᒻᒪᓗ ᑐᕙᐃᔭᖅᐸᖕᓂᖅ, ᐆᒪᔪᐃᓪᓗ ᑕᑯᔭᐅᕙᓕᖅᓯᑐᑦ ᓇᓂᑐᐃᓐᓇᖅ ᐱᑕᑲᖅᐸᓚᐅᖏᑦᑐᓂᒃ ᓯᕗᓂᐊᖑᑦ, (ᑲᓇᑕᒥ ᐆᒪᔪᓕᕆᓂᕐᒧᑦ ᐱᕚᑦᑎᕋᐃᓅᑦ 2012; ᐃᖃᓗᒃᑐᑦᑎᐊᕐᓂ ᐊᖑᓇᓱᒃᑎᒃᑯᑦ 2013; ᐅᓗᒃHᐊᖅᑑᕐᒥᐅᑦ ᐊᖑᓇᓱᒃᑏᑦ ᑲᑎᒪᔨᕋᓛᖏᑦ 2013; ᐸᐅᓗᑑᑉ ᐊᖑᓇᓱᒃᑏᑦ ᑲᑎᒪᔨᕋᓛᖏᑦ 2013; ᐃᑳHᐆᑉ ᐊᖑᓇᓱᒃᑏᑦ ᑲᑎᒪᔨᕋᓛᖏᑦ 2013; ᑕᓗᕐᔪᐊᑉ ᐊᖑᓇᓱᒃᑎᖏᑦ 2013; ᑲᓇᑕᒥ ᐆᒪᔪᓕᕆᓂᕐᒧᑦ ᐱᕚᑦᑎᕋᐃᓅᑦ 2015; ᐃᖃᓗᒃᑐᑦᑎᐊᕐᓂ ᐊᖑᓇᓱᒃᑎᒃᑯᑦ 2016). ᐊᑯᓂᐊᓂᖅᑐᒧ ᐊᒃᑐᖅᑕᐅᓂᖏᑦ ᓯᓚᐅᑉ ᐊᓯᔾᔨᖅᐸᓪᓕᐊᓂᖓᓄᑦ ᖃᓄᐃᓕᖓᓕᕈᑕᐅᔪᓐᓇᕐᓂᖏᓪᓗ ᓇᔪᖅᑕᐅᕙᒃᑐᑦ ᓄᓇᐃᑦ ᖃᐅᔨᒪᔭᐅᖏᑦᑐᑦ.

ᓇᖏᓂᖅ ᐅᓄᕆᐊᓇᕈᑕᐅᔪᑦ ᐅᖃᐅᓯᐅᔪᑦ ᑕᒡᕙᓂ ᐊᕙᒃᑐᖅᓯᒪᓂᕐᒥ, ᑕᐃᒃᑯᐊᓗ ᓯᑯᐃᔭᖅᐸᓪᓕᐊᓂᕐᒧᑦ ᐊᒃᑐᖅᑕᐅᕙᓪᓕᐊᔪᑦ ᑐᒃᑐᓄᑦ ᐃᑳᕈᓐᓇᐃᔾᔪᑕᐅᕙᒃᑐᑦ ᕿᑭᖅᑕᐃᑦ ᐊᑯᓐᓂᐊᒍᑦ, ᓇᔪᐃᔪᓐᓇᐃᓕᓂᖏᓐᓂᓪᓗ ᑕᕆᐅᕐᒥ ᐃᒪᐃᑦ ᖁᕝᕙᓯᒃᓯᕙᓪᓕᐊᓂᖓᓄᑦ ᐃᑦᑎᒡᓕᕙᓪᓕᐊᓂᕐᒧᑦ, ᐅᑭᐅᒃᑯᑦ ᑎᑭᐅᑎᔪᓐᓇᐃᓕᕙᖕᓂᖏᑦ ᓂᕿᒃᓴᖅᓯᐅᕐᕕᒋᕙᒃᑕᖅᑕᖏᓐᓄᑦ, ᐊᓯᔾᔨᖅᓯᒪᓂᖏᑦ ᐱᕈᖅᕗᐅᕙᖕᓂᖏᑦ ᐱᑕᖅᑕᕐᓂᖅᓴᐅᓕᖅᓱᑎᒃ ᓂᕿᒃᓴᑦᑎᐊᕙᐅᖕᒋᓂᖅᓴᐃᑦ ᐱᕈᖅᑐᑦ, ᓴᖏᓂᖅᓴᓂᒃ ᐊᓄᕆᖃᑦᑕᕐᓂᖓᓄᑦ ᓯᑎᓪᓕᓗᐊᕈᓐᓇᐃᓕᔪᑦ ᐊᐳᑦ ᓄᓇᒥ ᐅᑭᐅᒃᑯᑦ. ᓯᓚᐅᑉ ᐊᓯᔾᔨᖅᐸᓪᓕᐊᓂᖓᓄᑕᐅᖅ ᐊᒃᑐᖅᑕᐅᓯᒪᔪᓇᕐᒥᔪᑦ ᐊᓯᖏᑦ ᐅᓄᕆᐊᓇᕈᓇᖅᑐᑦ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᓄᑦ (ᑲᓇᑕᒥ ᐆᒪᔪᓕᕆᓂᕐᒧᑦ ᐱᕚᑦᑎᕋᐃᓅᑦ 2012, 2013). ᖁᐸᕈᐃᑦ ᑕᑯᒃᓴᐅᖏᑦᑐᑦ ᐋᓂᐊᓕᕈᑕᐅᕙᒃᑐᑦ ᐱᑕᖃᕐᓂᖅᓴᐅᓕᕈᓇᖅᑐᑦ, ᑕᐃᒃᑯᖓᑦᓴᐃᓇᕐᓗ ᓂᕿᒃᓴᕆᕙᒃᑕᖏᓐᓂᒃ ᓂᕿᒃᓴᖅᓯᐅᖃᑦᑕᕐᒥᔪᑦ ᐆᒪᔭᐃᑦ ᐊᓯᖏᑦ ᖃᓪᓕᐅᑎᕙᓪᓕᐊᓕᖅᑐᑦ ᓂᕿᒃᓴᖅᓯᐅᕐᓂᖏᓐᓂ ᐅᕝᕙᓗᓐᓃᑦ ᑐᒃᑐᓂᒃ ᓂᕿᒃᓴᖅᓯᐅᖅᐸᖕᓂᖏᑦ ᓂᕐᔪᑏᑦ, ᓱᕈᓇᖅᑐᓛᑦ ᓇᐅᒃᑰᖃᑦᑕᕐᓂᖏᑦ ᐊᓯᔾᔨᕈᓇᕐᒥᔪᑦ (ᓲᕐᓗ ᐅᒃᑐᑎᒋᓗᒍ ᒨᑯᓕᒃ/ᐊᕿᕈᔭᐃᑦ) ᑐᒃᑐᐃᓪᓗ ᐃᑳᕈᓇᐃᓕᐅᔪᓇᖅᑐᑦ ᕿᑭᖅᑕᓪᓚᖓᓄᑦ ᓯᑯᔪᓇᐃᓕᓖᖓᓪᓚᑦ, ᔭᒐᐃᕙᓪᓕᐊᒃᑲᓂᕈᓇᕐᒪᑕ ᐱᓕᕆᐊᖑᔪᓄᑦ ᐸᓐᖑᓴᒃᑕᐅᖃᑦᑕᕈᓇᕐᓂᖏᓐᓄᑦ (ᓲᕐᓗ ᐅᒃᑐᑎᒋᓗᒍ ᐅᖅᓱᐊᓗᙵᓂᐊᕐᖓᒃᓴᓂᒃ ᓚᓴᕌᒃᓴᖅᓯᐅᕐᖓᐅᔪᓇᖅᑐᓂᓪᓗ ᕿᓂᖅᑎᓂᒃ).

ᓇᔪᕈᓇᖅᑕᖏᑦ ᐊᓯᔾᔨᖅᐸᓪᓕᐊᔪᑦ ᑕᐃᒪᐃᑦᑎᐊᕈᓐᓃᖅᑐᓪᓗ (ᓄᓇᕐᔪᐊᕐᒥ ᓴᐳᓐᓂᐊᖅᑏᑦ ᐃᓚᒌᒃᑐᑦ ᐅᓄᕆᐊᓇᕐᓂᖏᑦ 11.1)

ᑕᕆᐅᕐᒥ ᓯᑯᐃᔭᕐᓂᖅ (ᑕᑯᓗᒋᓪᓗ: ᑕᕆᐅᑉ ᐃᒫᒍᑦ ᐃᖏᕐᕋᕙᒃᑐᑦ

ᓯᓚᐅᑉ ᐆᓇᖅᓯᕙᓪᓕᐊᓂᖓᑦ ᐱᔾᔪᑕᐅᓯᒪᔪᖅ ᒥᑭᓪᓕᑎᕆᓂᖅ ᐊᖏᓂᖏᓐᓂᒃ, ᐃᔾᔪᑎᒋᓂᖏᓐᓂᒃ, ᓯᑯᖃᕈᓇᕐᓂᖓᓂᓪᓗ ᑕᕆᐅᕐᒥ ᐊᒻᒪᓗ ᑭᖑᕙᓯᕐᓂᖅᓴᐅᖃᑦᑕᓕᕐᓂᖓᓄᑦ ᓯᑯᔪᓇᕐᓂᖅ ᐅᑭᐅᖅᑕᖅᑐᒥ (IPCC 2013; Panikkar et al. 2018).

ᓇᓚᐅᑦᑖᖅᑕᐅᓯᒪᔪᖅ ᑕᕆᐅᕐᒥ ᓯᑯᐃᔭᖅᐸᓐᓕᐊᓂᖏᑦ ᑲᔪᓯᓂᐊᖅᑐᖅ ᓯᕗᓂᒃᓴᒥ (Sou and Flato 2009; Wang and Overland 2009; Collins et al. 2013; IPCC 2013). ᐱᑕᖃᕐᓂᖏᑦ ᓯᑯᑐᖃᐃᑦ ᐊᒥᓱᓂᒃ ᐊᕐᕌᒍᓂᒃ ᐅᑭᐅᓖᑦ ᑲᑕᒃᓯᒪᓕᕐᒪᑕ ᑕᒫᓂ 50% ᐳᓴᖏᖏᓂᑦᑐᓂᒃ ᐊᕐᖍᒍᐃᑦ ᐊᑯᓐᓂᖏᓐᓂ 2005 ᐊᒻᒪᓗ 2012, ᓇᓚᐅᑖᖅᑕᐅᓯᒪᓕᖅᑐᑦ ᑕᒫᓃᓐᓂᖅ 75% ᐳᓴᖏᖏᓐᓂ ᐅᑭᐅᖅᑕᖅᑐᒥ ᐊᐅᔭᑯᑦ ᑕᕆᐅᕐᒥ ᓯᑯᐃᖅᓯᒪᓕᕐᓂᖓᓂᕐ ᑕᐃᒪᖓᓂᒃ ᐊᕐᕈᒎᖏᓐᓂᒃ 1980-ᖏᓐᓂᒃ (IPCC 2013). ᓇᓚᐅᑖᕈᑎᓂ ᑐᑭᓯᔭᐅᓕᖅᑐᑦ ᐊᕐᕈᑕᒫᖅ ᑕᕆᐅᕐᒥ ᓯᑯᐃᔭᖅᐸᓪᓕᐊᓂᐊᖅᑐᑦ ᐃᒫᓐᓇᑎᒍ 3.5% ᐳᓴᖏᑎᒥᒃ ᑕᒪᐅᖓ ᑎᑭᓪᓗᒍ 4.1% ᐳᓴᖏᓄᑦ, ᖁᓖᑦ ᐊᕐᕌᒎᐃᑦ ᓇᓂᑕᒫᖅ ᐅᑭᐅᖅᑕᖅᑐᒥ (IPCC 2013).

ᐃᓚᖏᓪᓗ ᐆᒃᑐᕋᐅᑎᖏᑦ ᐊᑐᖅᑕᐅᓪᓗᑎᒃ ᓇᓚᐅᑖᓚᐅᖅᑐᑦ ᐊᐅᔮᒃᑯᑦ ᓯᑯᖃᕐᓂᖏᑦ ᐱᑕᖃᕈᓐᖅᐸᓪᓕᐊᓂᐊᖅᑐᖅ ᑕᒪᓂ 45% ᑲᓇᑕᒥ ᐅᑭᐅᖅᑕᖅᑑᑉ ᕿᑭᖅᑕᒐᓴᐅᓂᖏᓐᓂ ᐊᕐᕌᒍᓂᒃ 2041-ᒥᒃ 2060-ᒧᑦ ᑎᑭᓪᓗᒍ (Sou and Flato 2009). ᓇᓚᐅᑖᖅᑕᐅᓂᖏᑦ ᑕᒪᒃᑯᐊ ᐱᑕᖃᕈᓐᖆᐅᔨᓇᕐᓂᖏᓐᓂᒃ ᐱᓗᐊᖅᑕᐃᓕᒪᑎᑦᑎᓗᑎᒃ ᐊᑐᖅᓯᒪᔾᔭᑦ ᓇᓚᐅᑖᖅᑕᐅᓂᖏᓐᓂ ᑕᕆᐅᕐᒥ ᓯᑯᐃᔭᕈᓐᓇᕐᓂᖏᑦ, ᐱᔾᔪᑕᐅᓂᕐᒧᑦ ᓯᓚᓕᕆᔾᔪᑏᑦ ᐊᑐᖅᑕᐅᕙᒃᑐᑦ ᐊᑦᑎᓇᖅᓯᒪᓇᖕᓃᓕᐅᕐᒪᑕ ᓇᓚᐅᑖᕈᑕᐅᓂᖏᓐᓂ ᓱᒃᑲᓂᖅᓴᒥᒃ ᓯᑯᐃᔭᖅᐸᓕᐊᖃᑕᕐᓂᖏᓐᓂ ᐊᐅᔭᒃᑯᑦ ᐅᑭᐅᖅᑕᖅᑐᒥ ᖃᐅᔨᔭᐅᖃᑕᕐᓂᖏᓐᓂᒃ ᖁᓕᐅᓈᖅᑎᖅᓯᒪᔪᓂᒃ ᐊᕐᕌᒍᓴᐅᓕᖅᑐᓂᒃ (ᐃᖃᓗᒃᑐᑦᑎᐊᕐᓂ ᐊᖑᓇᓱᒃᑎᒃᑯᑦ 2013; IPCC 2013). ᒫᓇᓵᖅ ᖃᐅᔨᕆᐊᖅᑕᐅᖃᒥᒃ ᑕᕆᐅᕐᒥ ᓯᑯᐃᔭᖃᑕᕐᓂᖅ ᑕᐅᕙᓂ ᐃᑳHᐆᑉ ᕿᑭᖅᑕᖓᓂ ᖃᐅᔨᔭᐅᓚᐅᖅᑐᑦ ᓱᕋᒃᑎᖅᐸᓪᓕᐊᓂᖏᓐᓂᒃ ᕿᓚᒥᐅᓂᖅᓴᐅᕙᖅᑐᖅ ᑖᒪᓂ ᐅᓪᓗᓂᒃ ᒪᕐᕉᖕᓂᒃ-ᐱᖓᓱᓂᒡᓗᓐᓂᑦ 2-3 ᐊᑐᓂ ᓂᒡᓚᓱᖕᓂᑕᒫᖅ 1 °C-ᒥᒃ (Cooley et al. 2020). ᐊᓯᖏᓐᓂᑕᐅᖅ, ᐃᒪᖅ ᕿᕿᕙᓚᐅᖅᑐᖅ ᐊᕐᕌᒍᑕᒫᖅ (ᓱᕐᓗ ᐅᐊᓐᓇᖅᐸᓯᖓ ᕿᑭᖅᑕᒥ ᕿᑎᖅᒥᐅᓂ (King William Island-ᒥ) ᑭᖓᐃᓚᐅᑉ ᕿᑭᖅᑕᖓᓂ ᐊᒻᒪᓗ ᐃᑦᑐᐊᖅᑐᕐᕕᐅᑉ ᓄᕗᐊᓂ) ᓯᑯᕙᒍᓐᓃᑦᑎᐊᒻᒪᕆᒃᑐᒃ ᐅᑭᐅᓕᒫᖅ (ᑲᓇᑕᒥ ᐆᒪᔪᓕᕆᓂᕐᒧᑦ ᐱᔩᑦᑎᕋᐃᔩᑦ 2013).

ᑕᕆᐅᕐᒥ ᓯᑯ ᐱᒻᒪᕆᐅᕗᖅ ᐊᕐᖍᒍᐸ ᐃᓛᒍᑦ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᓄᑦ ᐊᖅᑯᑎᒋᔭᐅᕙᖕᒪᑕ ᓇᒨᖓᐅᔪᓇᕐᓂᖏᓐᓄᑦ ᕿᑭᖅᑕᓄᑦ ᐊᑯᓐᓂᐊᒍᕈᓇᕐᓂᕐᓂᕐᒧᑦ (ᑲᓇᑕᒥ ᐆᒪᔪᓕᕆᓂᕐᒧᑦ ᐱᔩᑦᑎᕋᐃᔩᑦ 2013; Post et al. 2013; ᐅᖅᓱᖅᑑᑉ ᐊᖑᓇᓱᒃᑎᒃᑯᑦ 2016; ᖃᐅᓯᐃᑦᑑᑉ ᐊᖑᓇᓱᒃᑎᖏᑦ 2016; ᑕᓗᕐᔪᐊᑉ ᐊᖑᓇᓱᒃᑎᒃᑯᑦ 2016). ᐃᑳᕈᓇᕆᐊᖅᑲᕐᒪᑕ ᑕᒪᐃᓐᓂᒃ ᐊᕐᕌᒍᑕᒫᖅᑐᒥᒃ ᐊᒻᒪᓗ ᐊᕐᕌᒍᒥ ᐊᑕᐅᓰᖏᑦᑐᒥᒃ ᖃᖓᖑᕚᖓᑦ ᒪᓕᒃᑐᓂᒃ ᐃᓘᓐᓂᑯᓗ ᕿᒫᕙᖕᓂᖏᓐᓄᑦ ᐊᒃᓱᕉᓇᖅᑐᒃᑯᕈᑎᒋᔭᒥᓂᒃ (Miller et al. 2005) ᐅᕝᕙᓗᓐᓂᑦ ᕿᒪᐃᓯᒪᑲᐃᕆᐊᖅᑲᕐᓂᖏᓐᓄᑦ ᐱᕈᕐᕕᐅᑲᓐᓂᕈᓇᕐᓂᐊᕐᒪᑕ ᓄᓇᐃᑦ (ᐃᖃᓗᒃᑐᑦᑎᐊᕐᓂ ᐊᖑᓇᓱᒃᑎᒃᑯᑦ 2013; ᐅᖅᓱᖅᑑᑉ ᐊᖑᓇᓱᒃᑎᖏᑦ 2013; ᐊᐃᕙᖅ ᐊᖑᓇᓱᒃᑎᖏᑦ; ᖃᐅᓯᐃᑦᑑᑉ ᐊᖑᓇᓱᒃᑎᖏᑦ 2013; ᑕᓗᕐᔪᐊᑉ ᐊᖑᓇᓱᒃᑎᖏᑦ 2013). ᐊᒥᓱᑦ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ ᑎᑭᐅᑎᔪᓇᐃᓕᖃᑕᖅᓯᒪᔪᑦ ᐊᑐᕆᐊᓕᖕᒥᓂᒃ ᐊᒥᓱᐃᖅᓱᑎᒃ ᐊᕐᕌᒍᒥ ᓯᑯᒃᑯᑦ ᐃᑳᕿᒃᓴᐃᕈᑎᓗᑎᒃ ᕿᑭᖅᑕᓄᐊᕆᐊᖅᑲᕐᓂᖏᓐᓂ ᐊᑯᓐᓂᐊᒍᓪᓗᓐᓃᑦ, ᑕᐃᒪᐃᓐᓂᕐᒧᑦ ᐱᔾᔪᑕᐅᔪᓇᖅᑐᓂᒃ ᑐᒃᑐᖃᕈᓐᓃᕈᑕᐅᔪᓇᕐᓂᖅ ᐃᓚᖏᓐᓂᒃ, ᐊᒥᓱᐊᓗᖕᓂᓗᓐᓃᑦ ᕿᑭᖅᑕᓕᓴᐅᔪᓂᒃ (Miller et al. 2005). Miller et al. (2005) ᑐᑭᓯᓇᖅᓯᓚᐅᖅᑐᑦ ᐃᑳᕿᒃᓴᐃᕈᑎᔭᖅᐸᑦ ᐊᒥᓱᓄᑦ ᕿᑭᖅᑕᓕᓴᐅᔪᓇᖅᑐᓄᑦ, ᐊᒥᓱᐊᓗᐃᑦ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ ᐱᑕᖃᑐᐃᓐᓇᕋᔭᖅᑐᑦ ᑕᐅᕙᓂ ᑭᓪᓕᖓᓂᐅᑉ ᐊᒻᒪᓗ ᐊᐅᓯᐃᑦᑑᑉ ᕿᑭᖅᑕᖏᓐᓂ Victoria and Ellesmere Islands ᐱᔾᔪᑕᐅᓗᑎᒃ ᑖᒃᑯᐊᒃ ᕿᑭᖅᑖᒃ ᐊᖏᕈᖑᔪᑑᖓᒪᑎᒃ ᓈᒪᔪᓂᒃ ᓇᔪᖅᑕᐅᖏᓐᓇᕈᓇᕐᓂᖅ . ᕿᑭᖅᑕᓴᖕᓄᐊᕈᓇᐃᓕᒍᑎᒃᑕᐅᖅ ᓴᓇᒪᓂᖏᓐᓂ ᐊᔾᔨᖕᓂᖏᑦ ᑖᒃᑯᐊᓴᐃᓇᐅᖏᓐᓇᕈᓇᕐᒪᑕ, ᑐᒃᑐᐃᓪᓗ ᓱᖏᐅᑎᔪᓇᕐᓂᖅ ᐊᔪᕐᓂᖅᓴᐅᓕᕈᓇᖅᑐᑦ ᐊᓯᔾᔨᖅᐸᓪᓕᐊᓂᖓᓄᑦ ᐊᕙᑎᖏᑦ. ᐊᒻᒪᑕᐅᖅ, ᕿᑭᖅᑕᓄᐊᕈᓇᐃᓕᒍᑎᒃ, ᐊᒥᓱᕈᖅᐸᓪᓕᐊᑲᓐᓂᕈᓇᐃᓕᔭᓇᕐᒥᔪᑦ ᓄᓕᐊᕈᓇᕐᓂᖅ ᖃᓂᒋᖏᔭᓐᓂᑦᑐᓂᒃ ᕿᑭᖅᑕᓂᒃ ᑐᒃᑐᒋᔭᐅᕙᖕᒥᔪᓂᒃ (Gunn et al. 1981; Post et al. 2013).

ᑐᒃᑐᐃᑦ ᐊᒥᓱᕈᖅᐸᓪᓕᐊᔪᓂᒃ ᐊᒃᓱᕉᑎᖃᕐᓂᐊᖅᑐᑦ ᐃᑳᕈᓇᖃᑕᕐᓂᖅ ᓯᑯᒃᑯᑦ ᓯᓚᐅᑉ ᓱᒃᑲᓕᔪᒥᒃ ᐆᓇᖅᓯᕙᓪᓕᐊᖏᓇᕐᓂᖓᓄᑦ (Cooley et al., 2020) ᐊᒻᒪᓗ ᒥᑭᓪᓕᕙᓪᓕᐊᖏᓇᕐᓂᖓᓄᑦ ᓯᑯᖃᐃᓇᕈᓇᕐᓂᖓ (ᓱᕐᓗ ᐅᒃᑑᑎᒋᓗᒍ - 54,000 km^2/ᐊᕐᕌᒍᑕᒫᖅ; Yadav et al., 2020) ᐱᔾᔪᑕᐅᓗᓂ ᓯᓚᐅᑉ ᐊᓯᔾᔨᖅᐸᓪᓕᐊᓂᖓ. ᓯᑯᐃᕈᑎᕙᓪᓕᐊᓂᖅ ᒫᓇᐅᓕᖅᑐᖅ ᐊᒃᑐᐃᓕᐊᕐᕖᓂᖓᑦ ᑐᒃᑐᑦ ᐃᑳᕈᓇᕐᓂᖏᓐᓂᒃ ᐊᒻᒪᓗ ᐊᒥᓱᕈᖅᐸᓪᓕᐊᓂᖏᓐᓄᑦ ᐃᒪᕐᒥ ᐃᐱᕙᒃᑐᑦ ᑐᒃᑐᐃᑦ ᐃᑳᕆᐊᕐᖓᒥᒃ ᓯᑯ ᓵᓗᐊᖅᑎᓪᓗᒍ ᓱᓕ (ᑲᓇᑕᒥ ᐆᒪᔪᓕᕆᓂᕐᒧᑦ ᐱᔩᑦᑎᕋᐃᔩᑦ 2012, 2013; ᐃᖃᓗᒃᑐᑦᑎᐊᕐᓂ ᐊᖑᓇᓱᒃᑎᒃᑯᑦ 2013; ᐅᓗᒃHᐊᖅᑑᕐᒥᐅᑦ ᐊᖑᓇᓱᒃᑏᑦ ᑲᑎᒪᔩᕋᓛᖏᑦ 2013; ᐃᑳHᐆᑉ ᐊᖑᓇᓱᒃᑏᑦ ᑲᑎᒪᔩᕋᓛᖏᑦ 2013; ᐃᖃᓗᒃᑐᑦᑎᐊᕐᓂ ᐊᖑᓇᓱᒃᑎᒃᑯᑦ 2016; ᐅᓗᒃHᐊᖅᑑᕐᒥᐅᑦ ᐊᖑᓇᓱᒃᑏᑦ ᑲᑎᒪᔩᕋᓛᖏᑦ 2016). ᐃᓚᖓᓂ ᐊᑕᐅᓯᕐᒥ ᓄᓇᓕᖕᒥ ᖃᐅᔨᔭᐅᓚᐅᖅᑐᑦ ᑭᖑᕙᕆᐊᖅᑕᐅᖃᑕᐃᓐᓇᓚᐅᕐᓂᖏᓐᓂᒃ ᐃᑳᕆᐊᖅᑐᕐᕕᐅᔪᓐᓇᕐᓂᖏᑦ, ᐊᑕᐅᓯᖅ ᑐᒃᑐᓄᑦ ᐱᑦᓕᒪᕆᓚᐅᖅᑐᖅ ᐅᑕᕿᓇᖅᓯᓂ ᓯᑯᓂᐊᖅᑐᓂᒃ ᐃᔾᔪᔪᒥᒃ ᓈᒪᖕᓂᐊᖅᑐᓂᒃ ᐃᑳᕝᕕᐅᔪᓇᕐᓂᖅ (ᐅᖅᓱᖅᑑᑉ ᐊᖑᓇᓱᒃᑎᒃᑯᑦ 2016). ᐊᒻᒪᓗ, ᐃᖕᒥᒎᖅᑐᑦ ᐃᓄᑑᓗᑎᒃ ᐅᓗᕆᐊᓇᖅᑐᓕᖅᑕᕐᒥᔪᑦ ᐆᒪᔪᖅᑕᐅᔪᓇᕐᓂᖅ ᓂᕐᔪᑎᓄᑦ, ᑯᒪᖃᓗᐊᕈᓇᕐᓂᖓᓄᓪᓗᓐᓂᑦ/ᕿᒃᑐᕆᐊᓄᓪᓗᓐᓂᑦ ᐊᒻᒪᓗ ᐋᓐᓂᐊᓕᕈᑎᓄᑦ ᑎᑭᑕᐅᔪᓇᕐᓂᖏᓐᓄᑦ (Poole et al. 2010) ᐊᒻᒪᓗ ᓂᕿᒃᓴᖅᓯᐅᓗᐊᓚᐅᕐᓂᖏᓐᓄᑦ (ᐆᒪᔪᐃᑦ ᐊᒥᓲᖏᓗᐊᕐᓂᖏᓐᓄᑦ ᑲᑎᒪᔩᑦ 2013), ᖃᖓᑐᐃᓇᖅ ᑲᑎᖓᓗᑎᒃ ᐅᑕᕿᓂᖏᓐᓂᒃ ᓯᑯᓲᓂᕐᒥᒃ ᐃᑳᕈᓇᕝᕕᖏᓐᓂᒃ.

ᓯᑯᐃᔭᖅᐸᓪᓕᐊᓂᐊᓪᓗᑉ ᓴᓂᐊᓂ, ᑕᕆᐅᑉ ᐃᒫᒍᑦ ᐃᖏᕐᕋᕝᑐᑦ ᐊᑐᖅᑕᐅᕝᑐᓪᓗ ᓯᑯᓯᐅᑏᑦ ᐱᔾᔪᑕᐅᔪᓇᒥᔪᑦ ᓯᑯᑏᒃᑯᑕᐅᔪᓇᕐᓂᖅ. ᑕᒪᓇ ᐅᖃᐅᓯᐅᕆᕗᖅ ᑕᐃᑲᓂ ᑎᑎᕋᖅᓯᒪᓂᖏᓐᓂ 4.2.2 ᑕᕆᐅᑉ ᐃᒫᒍᑦ ᐃᖏᕐᕋᕝᑐᑦ.

ᑐᑭᓯᒋᐊᑎᐊᒃᑲᓂᑭᒪᒍᕕᑦ ᖃᓄᐃᓕᖓᓕᕈᑕᐅᕙᓂᖓᓂᒃ ᑕᕆᐅᕐᒥ ᓯᑯᐃᑭᑎᕙᓪᓕᐊᓂᖓᓂᒃ, ᑕᑯᓂᐊᖅᐸᑎᑦ ᑎᑎᖃᐃᑦ ᐃᓚᒃᑲᓂᖏᑦ II-ᒥᑦᑐᑦ Johnson et al. (2016).

<u>*ᑕᕆᐅᕐᒥ ᐃᒪᖅ ᖁᕙᖅᐸᓪᓕᐊᓂᖓ ᓱᕋᖅᑎᓇᕙᓪᓕᐊᓂᖓᓗ*</u>
ᓄᓇᕐᔪᐊᕐᒥ ᓇᓂᑐᐃᓐᓇᖅ ᑕᕆᐅᑉ ᐃᒫ ᖁᕙᓯᒃᓯᕙᓪᓕᐊᖖᒪᑦ ᑕᐊᒥᓱᓂᒃ ᐊᔾᔨᖏᑦᑐᒃ ᐱᔾᔪᑕᐅᓂᕐᒧᑦ ᐃᓚᖕᖅᑐᓂ ᐆᓇᖅᓯᕙᓪᓕᐊᓂᖓᓄᑦ ᐃᒪᖅ ᑕᕆᐅᕐᒥ ᐊᒻᒪᓗ ᐊᐅᒃᐸᓪᓕᐊᓂᖏᓐᓄᑦ ᐊᐅᔪᐃᑦᑐᑦ, ᐱᖕᒍᔭᐃᑦ, ᐊᒻᒪᓗ ᓯᑯᑐᖕᒎᑦ ᓯᕿᑦ. ᖁᕙᖅᐸᓪᓕᐊᓂᖓᓄᑦ ᑕᕆᐅᕐᒥ ᐃᒪᖅ ᐊᒃᑐᐃᓂᐊᕐᒥᔪᑦ ᖃᓄᖅ ᐊᒥᓱᐃᖅᑕᖅᑎᕐᔪᒥᒃ ᐊᒻᒪᓗ ᖃᓄᑎᒋ ᓱᓚᒥ ᐅᓕᖕᑕᑭᓇᕐᓂᖅ, ᓱᔭᐅᓪᓗ ᓱᑭᖅᑎᑭᓇᕐᓂᖓᓂᒃ, ᑭᓯᐊᓕᑕᐅᖅ ᑕᕆᐅᕐᒥ ᐃᒪᖅ ᖁᕙᖅᐸᓪᓕᐊᓂᖓᑕᐅᖅ ᐅᑭᐅᖅᑕᖅᑐᒥ ᓯᓚᓂ ᐊᒃᓱᐊᓗᒃ ᐊᔾᔨᖏᖕᖑᓂᕗᑦ. ᓯᓚᐃᑦ ᕿᑎᖅᒥᐅᓂ ᐅᑭᐅᖅᑕᖅᑐᒥ ᕿᑭᖅᑕᓚᓴᖏᓐᓂ ᖁᕙᓯᒃᓯᕙᓪᓕᐊᓂᖏᓐᓄᑦ, ᐱᔾᔪᑕᐅᓕᖅᑐᑦ ᑕᕆᐅᕐᒥ ᐃᒪᐃᑦ ᐊᑦᑎᒃᓯᕙᓪᓕᐊᓂᖏᓐᓄᑦ, ᐊᒻᒪᓗ ᑕᐃᒪᐃ ᑲᓇᖕᓇᖕᒐᓃᑦᑐᑦ ᐱᖕᖓᖕᓇᖕᒐᓂᓗ ᓯᓪᓭᖅᐸᐅᓂᖏᑦ ᖁᑦᑎᒃᑐᒥᒃ ᕿᑭᖅᑕᓚᓴᖕᓃᑦᑐᑦ ᐊᑦᑎᒃᓯᕙᓪᓕᐊᕕᒥᒃ ᑕᕆᐅᕐᒧᑦ ᐊᒃᐸᖅᐸᓪᓕᐊᓗᔾᔪᑕᐅᕗᑦ (Pelletier and Medioli 2014). ᖁᕙᖅᐸᓪᓕᐊᓂᖏᑦ, ᐊᑦᑎᒃᓯᕙᓪᓕᐊᓂᖏᓪᓗ ᓄᓇᐃᑦ ᐱᔾᔪᑕᐅᔪᑦ ᑭᖑᕙᓯᒃᑐᓂᒃ ᐊᒃᑐᖅᑕᐅᔪᓇᕐᓂᖅ ᑭᖑᓕᕐᒥ ᓄᓇᕐᔪᐊᕐᒥ ᓯᑯᓯᖕᔪᐊᓚᐅᕐᓂᕐᒥᒃ; ᑕᒪᒃᑯᐊ ᓯᑯᖕᒃᐅᓂᖏᑦ ᓄᓇᒥᒃ ᑐᖖᕕᖃᐃᓐᓇᕐᓚᐅᕐᒪᑕ, ᐊᐅᒃᐸᓪᓕᐊᓕᕐᒥᒃ ᓄᓇ ᖁᕙᖅᐸᓪᓕᐊᓕᕐᒪᑦ, ᓄᓇᖏᓪᓗ ᑕᒪᒃᑯᐊ ᑭᒡᓕᖅᐸᓯᖏᓐᓃᑦᑐᑦ ᓯᑯᑐᖕᒎᑦ ᑭᕕᕙᓪᓕᐊᓂᐊᖅᑐᓂᒃ (Pelletier and Medioli 2014). ᓇᓚᐅᑖᖅᑕᐅᔪᑦ ᐊᕐᕋᒍᖏᓐᓂ 2200-ᖑᓕᕈᒫᖅᑐᓂ ᐊᕐᕋᒍᖏᓐᓂ ᑕᑯᔫᒫᖅᑐᑦ ᖁᕙᓯᒃᓯᒋᐊᖅᓯᒪᔪᓂᒃ ᓄᓇᓂᒃ ᒫᓐᓇᐅᔪᖅ ᑕᓕᖕᒐᓕᕙᓪᓕᐊᓕᖅᑐᓂᒃ ᑲᑕᒃᓯᒪᔪᓂᒃ, ᐊᒻᒪᓗ ᑕᐃᒃᑯᐊᓗ ᒫᓐᓇᐅᔪᖅ ᓄᓇᖏᓐᓂ ᖁᕙᖅᐸᓕᐊᓯᒪᓂᖏᓐᓂ ᑕᑯᔫᒫᖅᑐᑦ ᑕᕆᐅᑉ ᐃᑎᓂᖓᑕ ᐊᑕᓃᑦᑐᓂᒃ, ᖁᓛᓄᐊᕈᒫᖅᑐᓂᒃ ᑕᕆᐅᑉ ᐃᑎᓂᖓᓂᒃ (Warren and Lemmen 2014).

ᓯᓚᒥᒃ ᖃᐅᔨᓴᖅᑏᑦ ᓇᓚᐅᑖᖅᑐᑦ ᓄᓇᕐᔪᐊᕐᒥ ᑕᕆᐅᕐᒥ ᐃᒪᖅ ᖁᕙᓯᒃᓯᒋᐊᓪᓚᖓᓂᖅ ᐊᑯᓐᓂᖏᓐᓂ 0.26 to 0.82 m ᒥᑦᑕᓕᖕᓂᒃ ᑕᒫᓂ ᐊᕐᕋᒍᒥ 2100 (IPCC 2013). ᖁᕙᓯᒃᓯᓂᖏᑦ ᓱᕋᐃᔪᓇᖅᑐᑦ ᐊᒥᓱᓂᒃ ᓯᓚᔾᔭᓂᒃ ᑲᓇᑕᐅᑉ ᐅᑭᐅᖅᑕᖅᑐᓂ ᐊᒻᒪᓗ ᑲᑕᕐᓗᑎᒃ ᐊᑖᓄᑦ ᐊᒥᓱᓚᐃᑦ ᕿᑭᖅᑕᐃᑦ (Pelletier and Medioli 2014). ᐊᒻᒪᑕᐅᖅ ᓯᑯ ᓄᖑᐸᓪᓕᐊᓂᐊᕐᓂᕋᖅᑕᐅᓂᖏᓐᓂ, ᓰᕐᓗ ᐅᑭᐅᖅᑕᖅᑐᒥ, (ᑕᑯᓗᒋᑦ ᓯᑯᐃᔭᖅᐸᓪᓕᐊᓂᕐᒥᒃ ᐅᓂᒃᑳᖅᑐᑦ ᖁᓛᓂ) ᐱᕙᓪᓕᐊᓂᐊᖅᑐᑦ ᐱᒻᒪᕆᐅᔪᒥᒃ ᐳᖅᑐᓂᓕᖕᓄᑦ ᒪᓕᓐᖒᖃᖅᑕᓂᖏᓄᓪᓗᓐᓂᑦ. ᑕᒪᓇ ᐃᓕᒪᒋᓪᓗᒋᑦ ᐱᔾᔪᑕᐅᔪᓇᖅᑐᖅ ᐃᒪᐅᑉ ᐃᑎᓂᖓᓄᑦ ᐊᒻᒪᓗ ᐊᐅᔪᐃᑦᑑᕙᓚᐅᖅᑐᑦ ᐊᐅᒃᐸᓪᓕᐊᓂᖓᓄᑦ, ᓱᖅᑎᖅᐸᓪᓕᐊᓂᐊᖅᑐᑦ ᓄᓇᐃᑦ ᓯᓪᓯᒥ (Forbes 2011; Warren and Lemmen 2014) ᐅᕝᕙᓗᓐᓃᑦ ᐱᔾᔪᑕᐅᓂᐊᖅᑐᑦ ᓇᓂᑐᐃᓐᓇᑦᑎᐊᖅ ᐱᕈᖅᑐᑦ ᑐᕐᖁᕋᕐᓂᖏᓐᓄᑦ ᑕᕆᐅᖕᒍᐊᓕᕐᓂᕐᒧᑦ (Kokelj et al. 2012). ᐊᒥᓱᑦ ᐅᑭᐅᖅᑕᖅᑐᒥ ᓄᓇᓖᑦ ᖃᐅᔨᖃᑦᑕᖅᓯᒪᓕᖅᑐᑦ ᓯᓪᓭᖅᐸᓯᖏᓐᓂ ᓄᓇᒥ ᓱᕋᖅᑎᖅᓯᒪᓂᖅ ᖃᓂᒋᔭᖏᓐᓂ ᐊᔾᔨᖏᓐᓂᓗ ᐊᐅᓪᓚᖅᓯᒪᕙᓂᖏᓐᓂ (Forbes 2011; ᐃᑳᕼᐃᐅᑉ ᐊᖑᓇᓱᒃᑏᑦ ᑲᑎᒪᔨᕋᕐᖓᖏᑦ 2016). ᑕᒪᕐᒥᒃ ᓇᓚᐅᑖᖅᑕᐅᓯᒪᔪᑦ ᐱᒻᒪᕆᐊᓗᒍᔪᓇᖅᑐᓂᒃ ᒥᑭᓕᑎᕆᔪᓇᕐᓂᖅ ᓂᕿᒃᓴᖏᓐᓂᒃ ᐊᑐᐃᓐᓇᐅᔪᓇᖅᑐᓂᒃ ᐊᒻᒪᓗ ᐱᐅᔫᑎᐅᔪᓇᕐᓂᖏᓐᓂ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ ᐅᑭᐅᖅᑕᖅᑐᒥ ᓂᕿᒃᓴᖏᓐᓂᒃ ᕿᑭᖅᑕᓚᓴᐅᔪᓂ.

<u>*ᐱᕈᖅᑐᑦ ᐊᓯᔾᔨᕐᓂᖏᑦ*</u>
ᐆᓇᖅᓯᕙᓪᓕᐊᓂᖅ ᐅᑭᐅᖅᑕᖅᑐᒥ ᐊᓯᔾᔨᕙᓪᓕᐊᔪᑦ ᓴᕿᑦᑐᓇᕐᓂᖏᓐᓂᒃ ᐊᒻᒪᓗ ᐱᑕᖃᕈᓇᕐᓂᖏᑦ ᓂᕿᒃᓴᑦᑎᐊᕙᐃᑦ ᐱᕈᖅᑐᑦ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ (Post et al. 2009). ᓂᒡᓚᓱᒍᓇᕐᓂᖓᑦ ᐊᓯᔾᔨᖅᐸᓪᓕᐊᓂᖏᓐᓂ, ᒪᕐᑯᓇᕐᓂᖏᓐᓂᒃ ᑖᖅᓯᕐᓗᓐᓃᑦ ᐊᒻᒪᓗ ᓯᕿᓂᕈᓇᕐᓂᖅ ᐊᒃᑐᐃᓂᐊᕐᒪᑕ ᐱᕈᖅᑐᓂᒃ ᐱᐅᔫᑎᖏᓐᓄᓗ ᑕᒪᒃᑯᐊ ᑐᒃᑐᓄᑦ ᓂᖅᓵᔭᐅᕝᑐᑦ (ᐃᓄᕕᐊᓗᐃᑦ ᐆᒪᔪᓕᕆᔨᑦ ᑲᑎᒪᔨᖏᑦ, ᓇᒥᓂᖅ ᐅᖃᐅᓯᕆᔭᖏᑦ 2021 ᑐᑭᓯᓇᒻᒪᕆᖏᑦᑐᑦ ᓯᓚ ᖃᓄᖅ ᐊᒃᑐᐃᔪᓇᕐᒪᖔᑕ ᑕᒪᒃᑯᐊ ᐊᓯᔾᔨᕐᓂᖏᑦ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ ᓇᔪᖅᐸᒃᑕᖏᓐᓂᓗ.

ᐃᓚᖓᓂ ᐅᑭᐅᖅᑕᖅᑐᒥ ᐱᕈᖅᑐᑦ ᐱᕈᕈᓇᕐᓂᖏᓐᓂ ᐊᓯᔾᔨᖅᐸᓪᓕᐊᓂᖏᓐᓗ ᖃᐅᔨᓴᐅᕙᓪᓕᐊᓕᕆᕗᑦ (Ahern et al. 2011; ᑲᓇᑕᒥ ᐆᒪᔪᓕᕆᔨᕐᒧᑦ ᐱᔨᑦᑎᕋᐃᔩᑦ 2012; ᐸᐅᓗᑑ ᐊᖑᓇᓱᒃᑏᑦ ᑲᑎᒪᔨᕋᕐᖓᖏᑦ 2013; ᐃᑳᕼᐃᐅᑉ ᐊᖑᓇᓱᒃᑏᑦ ᑲᑎᒪᔨᕋᕐᖓᖏᑦ 2013; ᑳᓯᐃᒃᑯᑦ ᑲᑎᒪᔨᕋᕐᖓᖏᑦ 2015). ᐊᕙᑎᓇᒋᐃᓐᓇᓂᐊᓕᒃ ᐱᕈᖅᑐᖃᕐᓂᖅᓴᐅᒍᓂ ᐊᒻᒪ ᐊᐱᕐᒪᖏᓐᓂᖅᓴᐅᖃᑕᓕᕈᑎᒃ ᐃᑲᔪᕐᓂᖃᕈᓇᕐᒪᖔᑕ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᓐᓄᑦ ᐊᐅᔾᔭᒃᑯᑦ ᓂᕆᒃᓴᖃᕐᓂᖅᓴᐅᓕᕈᑎᒃ (ᑳᓯᐃᒃᑯᑦ ᑲᑎᒪᔨᕋᕐᖓᖏᓐᓄᑦ 2004; Tews et al. 2007a), ᐱᓗᐊᖅᑐᒥ ᐃᓚᖏᓐᓂ ᓂᒋᖅᐸᓯᐊᓂ ᓇᔪᖅᑕᐅᕙᒃᑐᓂ (Jia et al. 2009). ᐱᕈᖅᑐᓖᑦ ᐊᖏᓪᓕᒋᐊᖅᓯᒪᕗᑦ ᑕᒫᓂ 18.5-34.2% ᐳᓴᓐᑎᓂᒃ ᐊᕐᕋᒍᖏᓐᓂᒃ 1982-ᒥᒃ 2011-ᒧᑦ ᑎᑭᓪᓗᒍ ᓇᓂᑐᐃᓐᓇᖅ ᐅᑭᐅᖅᑕᖅᑐᖅᐸᓯᖕ. (Xu et al. 2013). ᐱᑕᖃᕐᓂᖅᓴᐅᕝᑯᑎᒃ ᐱᕈᖅᑐᑦ ᐊᐅᔾᔭᒃᑯᑦ ᖁᐃᓂᖅᓴᐅᔪᓇᕐᒪᑕ ᑐᓄᖃᕐᓂᖅᓴᐅᓗᑎᒃ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᐃᑦ, ᑕᐃᒪᐃᓐᓂᖓᓄᓪᓗ ᐱᐅᓂᖅᓂᓴᓂᒃ ᐊᒥᓱᑉᐸᓪᓕᐊᓂᖅᓴᐅᔪᓇᔭᖅᑐᑦ ᐅᑭᐅᒃᑯᓪᓗ ᑐᕐᖁᕋᔪᐃᓐᓂᖅᓴᐅᔪᓇᖅᓯᑎᒃ, ᐊᑐᕐᓗᑎᒃ

ᓂᕿᒃᓴᖃᖏᓂᖅᓴᐅᓂᖏᑦ ᐅᑭᐅᒃᑯᑦ ᑕᒫᓂᓕ ᓯᑯᕙᓪᓕᐊᓕᐊᖃᑕᕈᓐᓇᕐᓂᖓᓄᑦ ᖃᓄᐃᓕᐅᖕᒐᓕᕈᓐᓇᕐᓂᖏᓐᓂᒃ (ᑕᑯᓗᒋᑦ ᓯᑯᕙᓪᓕᐊᓂᕐᒥᒃ ᖃᓄᐃᓕᖕᒐᓂᖏᓐᓄᑦ ᐅᓗᕆᐊᓇᕈᑎᑦ ᐊᑖᓃᑦᑐᑦ). ᑕᒪᒃᑯᐊ ᐊᓯᔾᔨᖅᐸᓪᓕᐊᔪᑦ ᐱᕈᖅᑐᓂ ᐃᒃᐱᒋᔭᐅᓂᖅᓴᐅᓂᐊᕌᓱᒋᔭᐅᕗᑦ ᓱᒃᑲᓂᖅᓴᐅᓂᐊᕌᓱᒋᔭᐅᓪᓗᑎᒡᓗ ᐊᑦᑎᖓᓂᖏᓐᓂ ᐅᑭᐅᖅᑕᖅᑑᑉ, ᓄᓇᖕᒐᓂ ᐃᑉᔪᖅ ᐱᕈᕝᕕᐅᖃᑕᐅᓇᕐᓂᖕᒐᓄ ᐃᓚᒃᓴᖃᖏᓗᐊᕐᓂᖏᓐᓂ ᐱᕈᕈᑕᐅᒥᐊᑲᓐᓂᐅᓇᖅᑐᓂᒃ (Walker et al. 2006; Elmendorf et al. 2012a) ᐃᒪᖃᐅᓇᕐᓂᖕᒐᓄᓪᓗ ᐱᕈᖅᐸᓪᓕᐊᔪᓐᓇᕐᓂᖏᓐᓂ ᐊᐅᔾᔮᒃᑯᑦ (Boulanger-Lapointe et al. 2014).

ᑭᓯᐊᓂᓕᑦᑕᐅᖅ, ᐱᕈᕝᕕᐅᓂᖅᓴᐅᓕᕈᑎᒃ ᐃᑲᔪᕐᓂᖃᐅᓇᕋᔭᖏᓂᕗᑦ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᓂᒃ, ᐱᕈᖅᐸᓪᓕᐊᔪᑦ ᐱᐅᔫᑎᐅᖏᑐᐊᕈᑎᒃ, ᐅᕝᕙᓗᓐᓃᑦ ᓇᒻᒪᓈᖅᓯᒪᕙᖏᑯᒃᑎᒃ ᐱᒻᒪᕆᐅᔪᓂᒃ ᐆᒪᓂᖏᓐᓂᒃ ᐊᑐᕈᓐᓇᕐᓂᖏᓐᓄᑦ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ, ᓲᕐᓗ ᓄᕐᓇᕕᖏᓐᓂ. ᐱᕈᖅᑐᖃᕐᓂᐊᕋᓱᒋᔭᐅᓗᑎᒃ ᐊᖏᔪᒥᒃ ᐅᑭᐅᖅᑕᖅᑐᒥ, ᑕᒪᑯᐊ ᓂᕿᒃᓴᓇᔭᐅᕙᖏᓂᖏᑦ ᐱᓗᐊᖅᑐᒥᒃ ᐊᒥᓱᕈᕐᓂᐊᕋᓱᒋᔭᐅᕗᑦ ᐃᓚᖏᓐᓂ ᐊᕕᒃᑐᖅᓯᒪᔪᓂ (Hudson and Henry 2009; Elmendorf et al. 2012a; Elmendorf et al. 2012b; Pearson et al. 2013). ᕿᔪᒃᑕᐃᑦ ᓇᐸᑑᔾᔫᑦ ᓂᕿᒃᓴᐅᑦᑎᐊᕈᓐᓇᖏᒪᑕ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᓄᑦ, ᑕᒪᒃᑯᐊ ᐱᐅᔫᑎᓂᒃ ᓂᕿᒃᓴᖅᓯᐅᖃᑦᑕᕐᒪᑦ ᐊᕿᐊᕈᕐᒥᐅᑕᓇᔭᐅᑦᑎᐊᕈᓐᓇᖅᑐᓂᒃ ᓄᑭᖃᕈᑎᒃᓴᑦᑎᐊᕙᖕᓂᒃ ᐱᔭᓇᐊᖃᕐᓂᖏᓐᓂᒃ, ᐱᓗᐊᖅᑐᒥᒃ ᐊᐅᔾᔮᒃᑯᑦ (Thomas and Kroeger 1980; Klein 1992; Larter et al. 2002). ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ ᓂᕿᖃᓲᕈᒪᓲᕐᔪᕗᑦ ᐱᕈᖅᑐᓂᒃ ᓇᐃᑦᑑᑎᐅᓂᖅᓴᓂᒃ, ᓄᓇᕋᓕᕐᓂᒃ, ᐊᒻᒪᓗ ᓴᐅᓂᖏᓂᒃ (Larter and Nagy 1997, 2001a, 2004). ᐊᒥᓲᓂᖅᓴᐅᓕᕈᑎᒃ ᕿᔩᑕᐅᔭᐃᑦ ᓇᐸᑐᖅᑲᒃᓴᔭᐃᑦ ᐊᒥᒃᓲᔫᓂᕈᑕᐅᔫᓇᕐᒪᑕ ᑕᒪᒃᑯᓄᖕᒐ ᓂᕿᒃᓴᓇᔭᐅᓂᖅᓴᐅᕙᖕᓂᖏᓐᓄᑦ ᐱᐅᔫᑎᓂᒃ ᑐᒃᑐᓄᑦ.

ᑐᒃᑐᐃᑦ ᓇᒍᖕᒐᐅᕙᖕᓂᖏᑦ ᐊᒻᒪᓗ ᐆᒪᓂᖏᓐᓂ ᐊᑐᖃᑦᑕᖅᑕᖏᑦ (ᓲᕐᓗ ᓄᕐᓇᕙᖕᓂᖅ, ᓄᓕᐊᖃᑦᑕᕐᓂᖅ) ᓈᒪᓈᖅᓯᒪᕙᖕᒪᑕ ᓄᑭᖃᑦᑎᐊᕈᑎᒃᓴᓖᑦ ᐱᑕᖃᕐᓂᖏᑦ ᐱᕈᖅᑐᑦ ᑐᒃᑐᐃᑦ ᓂᕿᒃᓴᓇᕙᒃᑕᖏᑦ (Post and Forchhammer 2008). ᓯᓚᐅᑉ ᐊᓯᔾᔨᖅᐸᓪᓕᐊᓂᖕᒐᓄᑦ ᕿᓚᒥᐅᓂᖅᓴᐅᕙᓕᖅᑐᖅ ᐱᕈᐊᓂᖃᑕᓕᕐᒪᑕ ᓂᕿᒃᓴᓇᔭᐅᕙᒃᑐᑦ (Jia et al. 2009; Xu et al. 2013). ᑕᒪᒃᑯᐊ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ ᓱᖏᐅᑎᒋᐊᖃᕈᓐᓇᕋᓗᐊᖅᓱᑎᒃ ᐊᑐᕐᓂᐊᖅᑕᖏᓂ ᐆᒪᓂᖏᓐᓂ ᐊᒻᒪᓗ ᓈᖃᕈᓐᓇᕐᓂᖏᓐᓂ ᐊᐱᕖᓇᐅᑎᓪᓗᒍ ᐃᓛᒎᑦ, ᓲᕐᓗ ᐆᒃᑐᑎᒋᓗᒍ ᐱᓇᓱᐊᕈᓯᒐᓴᐅᔪᓇᖅᑐᓂ ᐊᑯᓂᐅᓂᓕᖕᒥ (Miller 1991, 1993a), ᐱᐅᓯᖃᖅᑐᒃᓴᐅᕗᑦ ᓈᒪᓈᖃᑦᑐᓂᖏᑦ ᑐᒃᑐᓄᑦ ᓄᓕᐊᕈᓐᓇᕐᓂᖏᓐᓄᑦ ᓄᕐᓇᔪᓐᓇᕐᓂᖏᓐᓄᓪᓗ ᐅᓪᓗᒃᑯᑦ ᑕᑭᓂᓕᖕᓂᒃ ᒪᓕᒃᑐᓂᒃ (Post and Forchhammer 2008). ᑕᐃᒪᐃᓂᕐᒧᑦ, ᓇᒻᒪᓈᕋᔭᖅᑐ ᔭᖏᑦᑐᑦ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ ᐱᒻᒪᕆᐅᔪᓂᒃ ᐊᓯᔾᔨᖅᑐᖃᖅᐸᑦ ᐱᕈᖅᑐᖃᕝᕕᐅᔪᓐᓇᕐᓂᖏᓐᓂ. ᑕᒪᓐᓇ ᓈᒪᓈᖅᓯᒪᔫᓐᓂᕈᓐᓇᕐᓂᖅ ᐱᔾᔪᑕᐅᓂᐊᖅᑐᖅ ᓂᕿᒃᓴᖃᑦᑎᐊᖏᓂᖅᓴᐅᔪᓐᓇᕐᓂᖏᓐᓄᑦ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ ᐊᒃᑐᖅᑕᐅᓯᒪᓗᑎᒃ ᖃᓄᐃᖏᓂᖏᑦ ᐆᒪᐃᓐᓇᕈᓐᓇᕐᓂᖏᓪᓗ.

ᑐᑭᓯᒋᐊᑎᐊᒃᑲᓂᕈᒪᒍᕕᑦ ᐱᐅᔪᓂᒃ ᐊᒻᒪᓗ ᐱᐅᓐᖏᑦᑐᓂᒃ ᐊᒃᑐᖅᑕᐅᔪᓐᓇᕐᓂᖏᑦ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ, ᐱᕈᖅᑐᑦ ᐱᕈᕝᕕᐅᕙᖕᓂᖏᓄᓪᓗ ᐊᓯᔾᔨᕐᓂᖏᓐᓄᑦ ᑕᑯᓂᐊᖅᐸᑎᑦ ᑎᑎᖃᐃᑦ ᐃᓚᒃᑲᓂᖏᑦ II-ᒥᑦᑐᑦ Johnson et al. (2016).

ᓯᓚᓗᒡᔪᐊᖃᑦᑕᕐᓂᖅ ᐊᒻᒪᓗ ᐅᓕᖃᑦᑕᕐᓂᖅ (ᓄᓇᕐᔪᐊᕐᒥ ᓴᐳᓂᐊᖅᑏᑦ ᐃᓚᕇᒃᑐᑦ ᐅᓗᕆᐊᓇᕐᓂᖏᑦ 11.4)

<u>*ᓯᑯᕙᖕᓂᖅ*</u>

ᒪᕐᑯᒃ ᓯᑯᔭᕌᖕᒐᑦ ᐅᕝᕙᓗᓐᓃᑦ ᐊᐳᑦ ᐊᐅᓚᐅᕐᓗᓂ ᓯᑯᒃᑲᓂᕌᖕᒐᑦ, ᓯᑯᖃᓕᕈᑕᐅᔪᓇᕐᒪᑦ ᐊᔪᕈᑕᐅᔪᓂᒃ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ. ᓂᕿᒃᓴᒥᓂᒃ ᐱᔭᐅᖃᑕᐅᓇᕐᓂᖅ ᐊᐱᓯᒪᓂᕐᒥ. ᑕᐃᒫᒃ ᓯᑯᓪᓚᒃᑐᖃᖕᒐᑦ ᓂᕆᐊᕈᓇᐃᓕᓗᑕᐅᔪᓇᕐᒪᑕ ᐊᒻᒪᓗ ᐱᕐᓕᕋᕈᑕᐅᔪᓇᖅᓱᑎᒃ, ᑐᕐᑯᕋᕈᑕᐅᓗᑎᒃ. (Miller and Gunn 2003b; ᑳᓱᐃᒃᑯᑦ ᑲᑎᒪᔨᕋᕐᒥᑦ 2015). ᓯᑯᓯᒪᕐᔪᐊᖅᑐᐊᓗᓂᖏᑦ ᐊᖏᔪᐊᓗᖕᒥᒃ ᑕᐃᒪᐃᓕᒃᓪᓚᒃᑐᐊᓗᓂᖏᑦ ᐊᒥᓱᓐᓂᕈᑕᐅᖃᑕᖅᓯᒪᔪᑦ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ (Miller and Gunn 2003a; ᐸᐅᓗᑑᑉ ᐊᖑᓇᓱᒃᑏᑦ ᑲᑎᒪᔨᕋᕐᒥᑦ 2013; ᖃᐅᓯᐃᑦᑑᑉ ᐊᖑᓇᓱᒃᑎᖏᑦ 2013; ᐃᑳᕼᐆᑉ ᐊᖑᓇᓱᒃᑏᑦ ᑲᑎᒪᔨᕋᕐᒥᑦ 2013; ᑕᓗᕐᔪᐊᑉ ᐊᖑᓇᓱᒃᑎᖏᑦ 2013; ᑳᓱᐃᒃᑯᑦ ᑲᑎᒪᔨᕋᕐᒥᑦ 2015). ᐊᒥᓱᓕᖅᓕᓯᒪᓂᖏᓐᓂ ᓯᑯᒃᓚᒃᑐᐊᓘᖃᑕᓕᕐᓂᖏᑦ ᑕᑯᔭᐅᖃᑦᑕᖅᓯᒪᔪᑦ ᐊᒥᓱᓂ ᐅᑭᐅᖅᑕᖅᑐᒥ ᓄᓇᒥ (Gunn and Skogland 1997; Miller and Gunn 2003a; Harding 2004; Tews et al. 2007a; Sharma et al. 2009; Tews et al. 2012; ᑕᓗᕐᔪᐊᑉ ᐊᖑᓇᓱᒃᑎᖏᑦ 2013), ᓯᓚᐅᓪᓗ ᐊᓯᔾᔨᖅᐸᓪᓕᐊᓂᖕᒐᓄᑦ ᑕᐃᒪᐃᓕᕙᓪᓕᐊᑐᐃᓇᕐᓂᐊᕋᓱᒋᔭᐅᔪᑦ ᐱᒻᒪᕆᐊᓗᖕᒥᒡᓗ ᓯᑯᒃᓚᖃᑕᕐᓂᖏᑦ ᓂᕆᐅᒋᔭᐅᓪᓗᑎᒃ (Hansen et al. 2011; Liston and Hiemstra 2011; IPCC 2013; Semmens et al. 2013). ᐊᒃᑐᖅᑕᐅᔪᓐᓇᕐᓂᖏᑦ ᓯᑯᒃᓚᖃᑕᕐᓂᕐᒧᑦ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ ᓇᓗᓇᖅᐸᑦ ᑐᖕᒐᕝᕙᖅᓯᑎᒃ ᑕᒪᒃᑯᐊ ᓴᖏᓂᖏᓐᓂᒃ, ᓇᓂᓗ, ᖃᖕᒐᓗ ᑕᐃᒪᐃᓐᓂᖏᓐᓂᒃ. ᐊᖏᔪᐊᓗᖕᒥ ᓯᑯᒃᓚᖕᓂᖏᑦ ᑐᒃᑐᐃᑦ ᐊᓯᖏᓐᓂᒃ ᓂᕆᔭᒃᓴᓂᒃ ᓇᓂᓯᔪᓐᓇᕐᓂᖏᓐᓂᖏᓐᓂ ᖃᓂᒋᔭᖏᓐᓂ ᐱᐅᖏᓂᖅᐹᒥᒃ ᐊᒃᑐᐃᔪᓐᓇᖅᐸᑦ, ᑭᓯᐊᓂ ᐃᓱᒪᒋᔭᐅᑐᐃᓐᓈᕆᕙᑦ ᓯᑯᕙᖕᓂᖏᑦ ᑕᐅᕙᓃᓐᓇᖅ ᑕᐃᒪᐃᓕᕙᖕᓂᖏᓐᓂ, ᐊᓯᖏᓐᓂᐅᖏᑦᑐᖅ (ᑲᓇᑕᒥ ᐆᒪᔪᓕᕆᓂᕐᒧᑦ ᐱᔮᑦᑎᕋᐃᔮᑦ 2015).

ᑐᑭᓯᒋᐊᑎᐊᒃᑲᓐᓂᕈᒪᒍᕕᑦ ᓯᓚᓗᓕᕐᔪᐊᕐᓂᕐᒧᑦ ᖃᓄᐃᓕᖓᓕᕈᑕᐅᕙᓐᓂᖕᒋᓐᓂᒃ ᐅᑭᐅᒃᑯᑦ ᐱᕈᖅᑐᓂᒃ ᓂᕿᒃᓴᐃᑦ, ᑕᑯᓂᐊᖅᐸᑎᑦ ᑎᑎᖃᐃᑦ ᐃᓚᒃᑲᓐᓂᖏᑦ II-ᒥᑦᑐᑦ ᑎᑎᕋᖅᑕᖏᑦ Johnson et al. (2016).

ᐊᓄᓇᕙᓐᓂᖅ
ᐅᓂᒃᑳᓕᐅᖅᓯᒪᕕᓂᐅᔫᔭᕆᕗᑦ ᐊᓄᕌᕐᓂᖅᓴᐅᕙᓕᕐᓂᖏᓐᓂ ᐃᓚᖏᓐᓂ ᓄᓇᓕᖓᓂ, ᑕᒪᐃᓐᓂᒃ ᐅᓪᓗᒐᓴᐃᑦ ᐊᒥᓲᓂᖏᓐᓂᒃ, ᐊᒻᒪᓗ ᐊᓄᓇᐅᑉ ᓴᖏᓂᖏᓐᓂ (Wang et al. 2006; Wan et al. 2010; Spreen et al. 2011; ᑲᓇᑕᒥ ᐆᒪᔪᓕᕆᓂᕐᒧᑦ ᐱᔾᑦᑎᕋᐃᔾᑦ 2015; Wang et al. 2015). ᐊᓯᔾᔨᖅᓯᒪᓂᕋᖅᑕᐅᒋᕗᑦ ᓇᒧᑦ ᐊᓄᓇᕙᓐᓂᖅ ᓇᑭᓪᓗ ᐊᓄᓇᕙᓐᓂᖅ ᖃᐅᔨᒪᔭᐅᔪᓂ (ᑲᓇᑕᒥ ᐆᒪᔪᓕᕆᓂᕐᒧᑦ ᐱᔾᑦᑎᕋᐃᔾᑦ 2015). ᐊᒃᓱᐊᓗᒃ ᐊᓄᓇᔭᕌᖕᒐᑦ ᑐᒃᑐᓄᑦ ᐊᒃᓱᕈᑕᐅᕙᖕᒪᑕ ᑎᒥᑯᑦ ᓇᒨᖓᐅᓂᖏᓐᓄᑦ ᐊᒻᒪᓗ ᐆᓇᕐᓂᖏᓐᓄᑦ ᑎᒥᒥᓂ, ᐱᓗᐊᖅᑐᒥᒃ ᓂᓪᓚᓱᒡᔪᐊᖅᑐᐊᓗᖕᒥ. ᐊᓄᓇᑐᔪᒥᑕᐅᖅ ᐊᒃᑐᖅᑕᐅᔪᓐᓇᕆᕗᑦ ᓯᑎᖓ ᐊᐳᑦ ᓄᓇᒥ ᐊᐱᓯᒪᔪᖅ ᐊᒻᒪᓗ ᓄᓇᒧᑦ ᐊᑕᔪᓐᓇᕐᓂᖏᓐᓂᒃ, ᐊᒃᑐᐃᕙᒃᑲᒥᒃ ᑕᒪᒃᑯᓄᖓ ᓂᕿᒃᓴᖅᓯᐅᕐᕕᐅᕙᓐᓂᖏᓐᓂᒃ (Miller and Gunn 2003b). ᐅᑭᐅᖅᑕᖅᑑᑉ ᐃᓚᖓᓂ, ᐊᓄᓇᑐᔪᒥ, ᐱᔾᔪᑕᐅᔪᓐᓇᖅᐳᑦ ᑕᕆᐅᕐᒥ ᓯᑯ ᐃᖏᕐᕋᓂᖓᓂᒃ (Spreen et al. 2011), ᐅᕝᕙᓗᓐᓃᑦ ᓯᑯᑦ ᐅᑎᕈᓇᕐᓂᖓᓂᒃ (Wang et al. 2015), ᑕᐃᒫᒃ ᐊᒃᑐᖅᑕᐅᔪᓇᕐᒪᑕ ᓯᑯᒃᑯᑦ ᐃᑳᓇᐊᖅᑐᕐᕕᖏᑦ ᑐᒃᑐᐃᑦ. ᑭᓯᐊᓂᓕ, ᐊᓄᓇᑐᓂᖅ ᐃᑲᔪᕈᓇᓇᕆᖅ ᑐᒃᑐᓂᒃ ᓄᕐᓇᓂᖏᓐᓂᒃ ᑕᒫᓂ ᐊᐅᔭᐅᓕᕆᕐᓂᖓᓂ ᕿᒃᑐᓇᐊᖃᖏᓐᓂᖅᓴᐅᓂᕐᒧᑦ ᐊᓯᖏᓂᓪᓗ ᐸᖅᕕᓴᖅᑕᐅᔪᓇᕐᓂᖏᓐᓂᒃ (Hagemoen and Reimers 2002; Weladji et al. 2003; Moen 2008).

4.2.2. ᐊᐅᓖᕈᑏᑦ ᐃᖏᕐᕋᔾᔪᑎᑦ ᐊᒻᒪᓗ ᐱᔨᑦᑎᕋᐃᕖᑦ ᐅᖓᓯᒃᑐᒧᑦ (ᓄᓇᕐᔪᐊᕐᒥ ᓴᐳᓂᐊᖅᑏᑦ ᐃᓚᒌᒃᑐᑦ ᐅᓗᕆᐊᓇᕐᓂᖏᑦ 4)

ᐅᒥᐊᕐᔪᐊᑯᕐᕖᑦ (ᓄᓇᕐᔪᐊᕐᒥ ᓴᐳᓂᐊᖅᑏᑦ ᐃᓚᒌᒃᑐᑦ ᐅᓗᕆᐊᓇᕐᓂᖏᑦ 4.3)

ᑕᕆᐅᑉ ᐃᒫᒍᑦ ᐃᖏᕐᕋᕝᕙᒃᑐᑦ
ᐅᒥᐊᕐᔪᐊᑦ ᐊᓯᖏᓪᓗ ᑕᕆᐅᑉ ᐃᒫᒍᑦ ᐃᖏᕐᕋᕝᕙᒃᑐᑦ ᐅᑭᐅᒃᓵᒃᑯᑦ ᐊᒥᓲᓗᐊᖃᑕᖏᑦᑐᑦ, ᐅᑭᐅᑯᓪᓗ, ᐊᒻᒪᓗ ᐅᐱᕐᖖᒑᒃᑯᑦ, ᓴᓂᐊᓂ ᐊᐅᔭᐅᓂᖓᓂ, ᐊᑕᐅᓯᕐᒥ ᐅᒥᐊᖅᑐᕐᕕᒍᖅᐸᒃᑐᑦ ᐃᒪᕐᒥ ᑕᕆᐅᕐᒥ ᓯᑯᒧᑦ ᐊᖏᔪᐊᓗᖕᒥᒃ ᐊᒃᑐᖅᓯᔪᓇᕐᒪᑕ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ. ᐊᒥᓱᓕᖅᑎᓪᓗᒋᑦ ᐅᒥᐊᑦ/ᐅᒥᐊᕐᔪᐊᑦ ᐱᔾᔪᑕᐅᕝᕙᒃᐳᑦ ᓯᑯᔪᓇᐃᓕᔾᔪᑕᐅᓂᕐᒧᑦ, ᑕᒪᐃᓂᖓᓄᓪᓗ ᒪᐲᖓᑯᑖᖏᓐᓂᖅᓴᐅᕝᕙᒃᓱᑎᒃ ᓯᑯᓯᒪᖏᓐᓂᖏᓐᓄᑦ ᐃᖏᕐᕋᕕᐅᔪᓇᕐᓂᖅ. ᑕᒪᓇ ᓯᑯᖃᕈᓃᕐᓂᖅ ᐊᓪᕕᐊᕐᑯᑕᐅᔪᓐᓇᖅᐳᖅ ᕿᑭᖅᑕᒐᓴᖕᓄᖓᐅᔪᓐᓇᕐᓂᖏᓐᓄᑦ ᓇᒧᖓᐅᔪᓐᓇᕐᓂᖏᓐᓄᓪᓗ ᐊᓯᖏᓄᑦ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᐃᑦ (ᑕᑯᓗᒋᑦ ᖁᓖᓂ ᐅᖃᐅᓯᐅᔾᑦ *ᑕᕆᐅᕐᒥ ᓯᑯᐃᔭᕐᓂᖅ*) (Miller et al. 2005; ᑲᓇᑕᒥ ᐆᒪᔪᓕᕆᓂᕐᒧᑦ ᐱᔾᑦᑎᕋᐃᔾᑦ 2013; ᐸᐅᓗᑑᑉ ᐊᖑᓇᓱᒃᑏᑦ ᑲᑎᒪᔨᕋᓛᖏᑦ 2013; ᖃᐅᓯᐃᑦᑑᑉ ᐊᖑᓇᓱᒃᑎᖏᑦ 2013; ᐃᖃᓗᒃᑐᑦᑎᐊᕐᓂ ᐊᖑᓇᓱᒃᑎᒃᑯᑦ 2016; ᖁᑕᐃᑉᐹᐱᒃ ᐊᖑᓇᓱᒃᑎᒃᑯᑦ 2016; ᐅᓗᒃᕼᐊᖅᑑᕐᒥᐅᑦ ᐊᖑᓇᓱᒃᑏᑦ ᑲᑎᒪᔨᕋᓛᖏᑦ 2016). ᑐᒃᑐᐃᑦ ᐃᒫᒎᕈᓇᐃᓕᔪᓇᕐᒪᑕ ᐊᑭᐊᓄᐊᕋᓱᖕᓂᖏᓐᓂ ᓂᕈᑭᓐᓂᖅᐹᖓᒎᕋᓗᐊᕈᑎᒃ ᒪᑐᐃᖓᓂᕐᒥ ᐃᒪᕐᒥ ᐅᒥᐊᕐᔫᕐᕕᐅᓯᒪᔪᒥᒃ ᑕᒪᓇ ᓯᑯᐊ ᓯᑯᕕᓃᓪᓗ ᐊᒥᐊᑯᖏᑦ ᑭᓪᓕᐊᒎᖅᑐᑦ ᐅᒥᐊᖅᑐᕐᕕᔫᑉ ᐊᔪᓕᕈᑕᐅᔪᓐᓇᕐᒪᑕ ᓄᓈᕈᓐᓇᕐᓂᖏᓐᓄᑦ ᐃᒪᕐᒦᓐᓂᖏᓐᓂ, ᑕᐃᒪᐃᓂᖓᓄᓪᓗ ᐃᐱᕚᒃᑐᑦ (Miller et al. 2005). ᐃᓚᖓ ᓄᓇᓕᒃ ᖃᐅᔨᓚᐅᖅᑐᖅ ᐃᐱᔪᖃᕐᓂᖓᓂᒃ ᐅᒥᐊᕐᔪᐊᑉ ᐃᑳᕐᕕᐊᒍᑦ ᑐᒃᑐᐃᑦ ᓯᑯᒦᓕᐊᓂᒃᑎᓪᓗᒋᑦ (ᐅᓗᒃᕼᐊᖅᑑᕐᒥᐅᑦ ᐊᖑᓇᓱᒃᑏᑦ ᑲᑎᒪᔨᕋᓛᖏᑦ 2016). ᑐᑭᓯᓂᐊᖅᑕᐅᓚᒥᒃ ᐃᓗᐃᓪᓕᕐ ᑭᓪᓕᓂᕐᒥᓗ ᑐᒃᑐᖏᑦ ᐃᓱᒪᓇᖅᑐᑦ ᑐᒃᑐᐃᑦ ᑕᐅᕙᓂ ᐱᑕᖃᓇᐊᓖᑦ ᐅᖓᑕᓐᓂᑦᑐᓂᒃ >90% ᐳᓴᓐᑎᖏᓐᓂᑦᑐᓂᒃ ᓯᑯᓯᒪᓂᕐᒥᒃ ᐊᒻᒪᓗ 10-30 cm ᐆᒃᑐᕋᐅᑎᓕᖕᓂ ᓴᓐᑏᑕᓂᒃ ᐃᔾᔪᑎᓂᖃᖅᑎᒋᔭᕆᐊᓕᖕᓂᒃ ᐃᑳᕐᕕᐅᒋᐊᕈᓇᖅᓯᓚᐅᖏᓐᓂᖓᓂ ᑕᕆᐅᕐᒥ ᓯᑯᐊ (Poole et al. 2010).

ᐊᓯᔾᔨᓯᖅᐸᓪᓕᐊᓂᖏᑦ ᑕᕆᐅᑉ ᓯᑯᐊᑕ ᖃᓄᐃᓂᖓ ᑕᒪᑐᒪᖓᑦ ᓯᓚᐅᑉ ᐊᓯᔾᔨᖅᐸᓪᓕᐊᓂᖓᓄᑦ ᓂᕆᐅᒋᔭᐅᕗᖅ ᐱᕙᓪᓕᐊᑐᐃᓐᓇᓛᖓᓂᖅ ᑕᒪᐃᓐᓂ ᐅᒥᐊᕐᔪᐊᖃᕈᓐᓇᕐᓂᖓᓄᑦ ᐅᑭᐅᖅᑕᖅᑑᓂᕐᒥ ᐊᒻᒪᓗ ᐊᑯᓂᐅᓂᖅᓴᐅᔪᓐᓇᕐᓂᖓᓄᑦ ᐅᒥᐊᖅᑐᕐᕕᐅᔪᓐᓇᕐᓂᖅ (ᐅᑭᐅᖅᑕᖅᑐᒧᑦ ᑲᑎᒪᔨᖏᑦ 2009). ᐅᖓᕙᓇᐊᖅᑕᐅᓂᖏᓐᓂ ᐅᒥᐊᕐᔪᐊᖃᕐᕕᐅᔪᓐᓇᕐᓂᖏᑦ, ᐊᒻᒪᓗ ᐊᒥᓲᓂᖅᓴᐅᖃᑕᓕᕈᑎᒃ, ᓅᖃᑦᑕᕐᓂᖏᑦ ᐊᒻᒪᓗ ᓄᕐᓇᕕᐅᕙᓐᓂᖏᑦ ᑐᒃᑐᐃᑦ ᐅᒥᐊᕐᔪᐊᖃᕐᓂᖏᓪᓗ ᓈᒻᒪᓈᕈᑎᕙᓐᓂᐊᖅᑐᑦ (ᐅᑭᐅᖅᑕᖅᑐᒧᑦ ᑲᑎᒪᔨᖏᑦ 2009; ᐊᕙᑎᓕᕆᔨᒃᑯᑦ ᓄᓇᒥᐅᑕᓕᕆᔩᓪᓗ 2016), ᐊᒻᒪᓗ ᑐᒃᑐᓄᑦ ᑐᖁᕋᕈᑕᐅᔪᓐᓇᕐᓂᖏᓐᓄᑦ ᐃᐱᔨᐊᕆᔭᐅᔪᓐᓇᕐᓂᖏᓐᓄᑦ (Miller et al. 2005). ᐃᖏᕐᕋᔪᑏᑦ ᐊᐅᓖᕈᑎᑦ ᐊᖏᔪᑎᐅᔫᑦ ᐅᒥᐊᕐᔪᐊᑦ, ᓱᑯᓯᐅᑏᑦ, ᐃᓄᖕᓂᒃ ᐅᒥᐊᖅᑐᕈᔾᔨᔪᑦ ᐅᒥᐊᕐᔪᐊᖏᑦ ᐊᐅᓖᖅᑎᑦᑎᔩᑦ, ᐊᒻᒪᓗ ᐃᕿᐊᖑᐃᔭᐅᑕᐅᓂᕐᒧᑦ ᐅᒥᐊᑦ ᐊᑐᖅᑕᐅᕙᓐᓂᖏᑦ ᐊᒥᓱᕈᖅᐸᓪᓕᐊᓕᓃᕐᒪᑕ ᐅᑭᐅᖅᑕᖅᑐᒥ ᑕᕆᐅᕐᒥ ᐃᒪᕐᒥ, ᐊᒻᒪᓗ ᐅᒥᐊᖅᑐᕐᕕᐅᖃᑕᕈᓐᓇᕐᓂᖏᑦ ᑕᑭᓪᓕᕙᓪᓕᐊᓗᑎᒃ (Gunn et al. 2011; ᑲᓇᑕᒥ ᐆᒪᔪᓕᕆᓂᕐᒧᑦ ᐱᔾᑦᑎᕋᐃᔾᑦ 2012; ᐸᐅᓗᑑᑉ ᐊᖑᓇᓱᒃᑏᑦ ᑲᑎᒪᔨᕋᓛᖏᑦ 2013; ᐃᖃᓗᒃᑐᑦᑎᐊᕐᓂ ᐊᖑᓇᓱᒃᑎᒃᑯᑦ 2016; ᖁᑕᐃᑉᐹᐱᒃ ᐊᖑᓇᓱᒃᑎᒃᑯᑦ 2016; ᐅᓗᒃᕼᐊᖅᑑᕐᒥᐅᑦ ᐊᖑᓇᓱᒃᑏᑦ ᑲᑎᒪᔨᕋᓛᖏᑦ 2016; Dawson et al. 2018). ᑕᒪᒃᑯᐊ ᖃᐅᔨᒪᔭᐅᓕᖅᑐᑦ ᑕᑯᔭᐅᖃᑕᕐᒪᑕ ᐊᒥᓲᓂᖅᓴᐅᓂᖏᑦ ᐅᒥᐊᕐᔪᖃᕐᓂᖅ ᓯᓚᑖᒍᖅᑐᑦ ᑕᐃᒪᖓᑦ ᐅᒥᐊᕐᔪᐊᖃᕐᕕᐅᓚᐅᖅᑐᓂᒃ (ᓲᕐᓗ ᐆᒃᑐᑎᒋᓗᒍ ᑕᒫᓂ ᒪᐃᒥᒃ ᐊᒻᒪᓗ ᓄᕕᐱᕆᒥ) ᑕᐃᒪᐃᓕᕐᒪᑕ ᓯᓚᐅᑉ ᐆᓇᖅᓯᕙᓪᓕᐊᓂᖓᓄᑦ

ᐊᒻᒪᓗ ᐱᒻᒪᕆᐊᓗᖕᒥᒃ ᐱᕇᓪᓕᐊᓯᒪᓪᓗᓂ ᑕᒪᓐᓇ ᑕᐃᒪᖓᑦ 1990-ᒥᒃ (Pizzolato et al. 2014). ᑕᐃᒫᑦᓴᐃᓐᓇᖅᑐᖅ, ᐊᒥᔩᓂᖏᑦ ᐅᒥᐊᕐᔪᐊᑦ ᐃᑳᖅᐸᓕᖅᑐᑦ ᑕᐅᕗᓇ ᑕᕆᐅᒃᑯᑦ ᐅᐊᓕᓂᕐᒥᒃ ᕿᑭᖅᑖᓗᖕᒧᑦ ᐃᑳᕐᕕᒃ ᐊᖅᑯᓯᕆᐊᖑᓂᕋᖅᑕᐅᕙᒥᔪᖅ , ᕿᓚᒥᐊᓗᒃ ᐊᒥᓯᐳᖅᐸᓪᓕᐊᓯᒪᖕᒪᑕ, ᓯᑕᒪᐅᕙᓚᐅᖅᑐᓂᒃ ᐊᕐᕋᒍᖏᓐᓂ 1980ᖏᓐᓂᒃ ᑖᓃᓕᖅᑐᓄᑦ 20-30-ᖏᓐᓂ ᐊᕐᕌᒍᑕᒫᖅ ᑖᓂ ᐊᕐᕋᒍᖏᓐᓂ 2009-2013 (ᐅᖓᑖᓃᑦᑐᒥᒃ >75% ᐳᓴᓐᑎᓂᒃ ᐊᒥᓯᐳᕆᐊᖅᓯᒪᓪᓗᑎᒃ; ᐊᕙᑎᓕᕆᔨᒃᑯᑦ ᓄᓇᒥᐅᑕᓕᕆᔩᓪᓗ 2011, 2016). ᐊᒥᔩᓂᖏᑦ ᐃᒪᐃᓕᖓᔫᖅᐳᑦ ᐊᔾᔨᓴᐃᓐᓇᕆᓪᓗᒋᑦ ᑕᐃᒃᑯᓇᖓᑦ ᐊᕐᕌᒍᖏᓐᓂᒃ 2016 ᐊᒻᒪᓗ 2019 ᑕᒪᐃᓐᓂᒃ ᐃᒪᓕᐃᖓᔪᓂᒃ 5-31 ᐃᑳᕐᕕᐅᓚᐅᖅᓯᑎᒃ ᐊᕐᕋᒍᒥ ᐊᒻᒪᓗ 12-24 ᐃᑰᒍᑦ ᐊᑐᖅᑕᐅᓚᐅᕐᓂᖏᓂ ᐊᕐᕋᒍᒥ (ᑲᓇᑕᒥᐅᑦ ᓯᑯᓯᐅᑎᒃᑯᑦ, ᓇᖏᓂᖅ ᐅᖃᐅᓯᕆᔭᖏᑦ 2021).

ᐃᓱᒫᓘᑕᐅᕆᕗᑦ ᐊᒥᓯᐳᖅᐸᓪᓕᐊᓂᖏᑦ ᐅᒥᐊᕐᔪᐊᖃᕐᓂᖅ ᓱᐳᕐᓇᖅᑐᓂᒃ ᐃᒪᖃᓕᐳᑕᐅᔪᓐᓇᕐᓂᖏᓐᓂᒃ ᒪᓕᒐᕐᓂᒃ ᓱᕋᐃᓗᑎᒃ ᐊᒃᑕᑯᓕᐅᐳᓐᓇᕐᓂᖏᓐᓂᒃ ᓱᐳᕐᓇᖅᑐᒥᒃ ᐊᑐᐊᓂᒃᓯᒪᔪᓂᒃ ᐃᒪᕐᓗᑯᓂᒃ ᑯᕕᖅᑕᐃᖃᑦᕐᓂᖏᓐᓄᑦ, ᐃᒪᕐᓗᑯᒥᓂᒡᓗᓐᓂᑦ ᐅᒥᐊᕐᔪᐊᑉ ᐳᑦᑕᕐᑯᑎᖏᓃᑐᓂᒃ ᐊᓯᔩᖃᑦᑕᕐᓂᖏᓐᓂᒃ ᐊᒻᒪᓗ ᑯᕕᓯᕕᐅᔪᓐᓇᕐᓂᖏᓐᓂᒃ ᐅᖅᓱᐊᓗᖕᒥᒃ ᐅᕝᕙᓗᓐᓃᑦ ᐃᒪᕐᓗᑯᓂᒃ ᐃᑎᕈᕐᒥᒃ (ᑲᓇᑕᒥ ᐆᒪᔪᓕᕆᓂᕐᒧᑦ ᐱᔨᑦᑎᕋᐃᔩᑦ 2015; ᐅᓗᒃH ᐊᖅᑑᕐᒥᐅᑦ ᐊᖑᓇᓱᒃᑏᑦ ᑲᑎᒪᔨᕋᕈᖏᑦ 2016). ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ ᓯᒃᔭᖅᐸᓯᐅᓂᕐᒫᔪᖕᓂᖏᑦᑕᐅᖅ ᐊᒃᑐᖅᑕᐅᓯᒪᔪᓐᓇᕐᒥᔪᑦ ᑕᒪᒃᑯᓄᖓ ᐊᒃᑕᑯᓕᐊᕆᔭᐅᕙᓪᓕᐊᔪᓄᑦ. ᐊᓯᔾᔨᖅᓯᒪᓂᖏᑦ ᓯᑯᐃᑦ ᖃᓄᐃᓕᖓᓂᖏᑦ ᐅᒥᐊᕐᔪᐊᕐᓄᑦ ᒪᓪᓕᕐᕕᐅᖃᑕᐃᓐᓇᕐᓂᖏᓐᓄᑦ ᐊᕙᑎᒥᒃ ᐊᒃᑐᐃᓂᕐᓗᒍᑕᐅᔪᓐᓇᕐᒥᔪᑦ ᐅᒥᐊᕐᔪᐊᐳᓐᓇᕐᓂᖏᑦ ᐊᒥᓯᐳᖅᐸᓪᓕᐊᓂᖏᓐᓄᑦ. (ᐊᕙᑎᓕᕆᔨᒃᑯᑦ ᓄᓇᒥᐅᑕᓕᕆᔩᓪᓗ 2016).

ᐱᒻᒪᕆᐅᔪᓐᓇᕐᓂᖏᑦ ᑕᒪᒃᑯᐊ ᐅᓗᕆᐊᓇᐳᑏᑦ ᑐᖓᕕᖃᖅᑐᑦ ᓇᓪᓕᐊᖓᓂᒃ ᕿᑭᖅᑕᓂᒃ ᐃᑳᕐᕕᐅᕙᒃᑐᓂᒃ ᐊᒃᑐᖅᓯᓇᔭᐳᑎᒃ ᐊᒻᒪᓗ ᐊᒥᔩᓂᖏᓐᓂᒃ ᑕᐃᒃᑯᐊ ᐊᒃᑐᖅᑕᐅᓯᒪᓂᖏᓐᓂᒃ ᑐᒃᑐᐃᑦ.

4.2.3. ᓄᖑᑎᓇᕙᓪᓕᐊᔪᓐᓇᖅᑐᑦ ᐊᓯᖏᓪᓗ ᐊᑲᐅᖏᓕᐅᕈᑕᐅᔪᑦ ᐆᒪᔪᐃᑦ ᖃᓄᐃᓕᖓᓂᖏᓪᓗ ᐱᐅᓯᖏᓐᓂ (ᓄᓇᕐᔪᐊᕐᒥ ᓴᐳᓐᓂᐊᖅᐹᑦ ᐃᓚᒌᒃᑐᑦ ᐅᓗᕆᐊᓇᕐᓂᖏᑦ 8)

ᓄᖑᑦᑎᕙᓪᓕᐊᔪᓐᓇᖅᑐᑦ ᑖᓃᑐᑐᖃᐅᖏᑦᑐᑦ/ᐊᓯᐊᓂᖔᖅᓯᒪᔪᑦ ᐆᒪᔪᐃᑦ ᐊᓯᖏᓪᓗ (ᓄᓇᕐᔪᐊᕐᒥ ᓴᐳᓐᓂᐊᖅᐹᑦ ᐃᓚᒌᒃᑐᑦ ᐅᓗᕆᐊᓇᕐᓂᖏᑦ 8.1)

<u>*ᑯᒪᐃᓪᓗ ᐋᓐᓂᐊᓕᐳᑕᐅᕙᒃᑐᓪᓗ*</u>
ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ ᐃᓱᒪᒋᔭᐅᕗᑦ ᖃᓄᐃᖏᑦᑎᖏᑦᑎᐊᕐᓂᖅ ᑕᒪᐃᓐᓂᒃ ᐱᑕᖃᕐᓂᖏᓐᓂ, ᐊᒥᓱᖏᑦᑐᓂᒃ ᑯᒪᖃᓯᖑᓪᓗᑎᒃ ᐊᒻᒪᓗ ᐋᓐᓂᐊᓗᑎᖃᕋᑎᒃ (ᐆᒪᔪᐃᑦ ᐊᒥᔫᖏᓗᐊᕐᓂᖏᓐᓄᑦ ᑲᑎᒪᔨᕋᒌᑦ 2012; ᐃᖃᓗᒃᑐᑦᑎᐊᕐᓂ ᐊᖑᓇᓱᒃᑎᒃᑯᑦ 2013; ᐅᖅᓱᖅᑑᑉ ᐊᖑᓇᓱᒃᑎᖏᑦ 2013; ᐊᐃᕕᖅ ᐊᖑᓇᓱᒃᑎᖏᑦ; ᐅᓗᒃH ᐊᖅᑑᕐᒥᐅᑦ ᐊᖑᓇᓱᒃᑏᑦ ᑲᑎᒪᔨᕋᒌᖏᑦ 2013; ᐸᐅᓗᑑᑉ ᐊᖑᓇᓱᒃᑏᑦ ᑲᑎᒪᔨᕋᒌᖏᑦ 2013; ᖃᐅᓯᐃᑦᑑᑉ ᐊᖑᓇᓱᒃᑎᖏᑦ 2013; ᐃᑳHᐆᑉ ᐊᖑᓇᓱᒃᑏᑦ ᑲᑎᒪᔨᕋᒌᖏᑦ 2013). ᑭᓯᐊᓄᓗᑦᑕᐅᖅ, ᐃᓱᒪᓘᑕᐅᓕᖅᑐᑦ ᐋᓐᓂᐊᓕᐳᑕᐅᔪᓐᓇᖅᑐᑦ ᐊᐃᑦᑑᓯᐊᖅᑖᕆᔭᐅᖃᑕᐳᓇᕐᓂᖏᓐᓂᒃ ᐊᓯᖏᓐᓂᖔᖅᑐᓂᒃ ᐅᑭᐅᖅᑕᖅᑐᒥ ᐆᒪᔪᓂᒃ ᑐᒃᑐᓂᒡᓗᓐᓃᑦ ᑕᒪᑯᓄᖓᐳᓇᐳᓐᓇᖅᑐᓂᒃ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᓐᓄᑦ (ᐃᖃᓗᒃᑐᑦᑎᐊᕐᓂ ᐊᖑᓇᓱᒃᑎᒃᑯᑦ 2013; ᐸᐅᓗᑑᑉ ᐊᖑᓇᓱᒃᑏᑦ ᑲᑎᒪᔨᕋᒌᖏᑦ 2013; ᐃᑳHᐆᑉ ᐊᖑᓇᓱᒃᑏᑦ ᑲᑎᒪᔨᕋᒌᖏᑦ 2013; ᑳᓯᐃᒃᑯᑦ ᑲᑎᒪᔨᕋᒌᖏᑦ 2015; ᐅᓗᒃH ᐊᖅᑑᕐᒥᐅᑦ ᐊᖑᓇᓱᒃᑏᑦ ᑲᑎᒪᔨᕋᒌᖏᑦ 2016; ᐸᐅᓗᑑᑉ ᐊᖑᓇᓱᒃᑏᑦ ᑲᑎᒪᔨᕋᒌᖏᑦ 2016a; ᐃᑳHᐆᑉ ᐊᖑᓇᓱᒃᑏᑦ ᑲᑎᒪᔨᕋᒌᖏᑦ 2016). ᓈᐸᖅᑐᖃᖏᑦᑐᕐᒥᐅᑦ ᑐᒃᑐᐃᑦ, ᓰᕐᓗ ᐆᒃᑐᑎᒋᓗᒍ, ᐊᒥᓯᐊᓘᖃᑦᕐᒪᑕ ᐋᓐᓂᐊᐳᑎᖃᖅᑐᑦ ᓇᒡᒍᐊᕐᓗᖃᑦᕐᓂᕐᒥᒃ (Leighton 2011), ᐊᐃᑦᑐᖅᑕᐅᖃᑕᐳᓇᖅᑐᓂᒃ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ ᐊᒃᑑᑎᒍᑎᒃ. ᐱᑕᖃᔪᒃᐳᑦ ᓇᒡᒍᐊᕐᓗᓕᐳᑕᐅᕙᖕᓂᕐᒥᒃ ᐋᓐᓂᐊᓕᐳᑕᐅᕙᖕᓂᖓ ᑐᒃᑐᓄᑦ ᓄᕐᕆᔪᓐᓇᐃᓕᖃᑦᕐᓂᖏᓐᓂ (Leighton 2011). ᓯᓚᐅᑉ ᐊᓯᔾᔨᖅᐸᓪᓕᐊᓂᖓᓄᑦ ᑲᑎᑉᐸᓪᓕᓇᔭᐳᑎᕐ ᑕᐃᒃᑯᐊ ᓇᐹᖅᑐᖃᖏᑦᑐᕐᒥᐅᑦ ᑐᕐᑐᖏᑦ ᐊᓯᖏᓐᓂᒃ ᐃᓗᐃᓪᓕᐅᑉ ᑭᓪᓕᓂᐅᑉᓗ ᑐᒃᑐᖏᓐᓂᒃ, ᑕᒪᒃᑯᐊ ᐋᓐᓂᐊᖅᑖᕆᕙᐅᔪᓐᓇᖅᐳᑦ ᐱᑕᖃᓕᕐᓗᑎᒃ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᓐᓂ (ᑲᓇᑕᒥ ᐆᒪᔪᓕᕆᓂᕐᒧᑦ ᐱᔨᑦᑎᕋᐃᔩᑦ 2015; ᑳᓯᐃᒃᑯᑦ ᑲᑎᒪᔨᕋᒌᖏᑦ 2015).

ᓯᓚᐅᑉ ᐆᓇᖅᓯᕙᓪᓕᐊᓂᖓᓄᑦᑕᐅᖅ ᑯᒪᒃᑕᖃᖅᐸᓪᓕᐊᓕᕐᒥᔪᖅ ᐱᑕᖃᖅᐸᓚᐅᖏᑦᑐᓂᒃ ᐅᑭᐅᖅᑕᖅᑐᒥ ᕿᑭᖅᑕᖁᓴᐅᔪᓂ (Kutz et al. 2014). ᐅᒃᑑᑎᒋᓗᒍ, ᖃᓪᓗᓈᑎᑐᑦ ᑐᑭᖃᖅᑐᒥᒃ ᑕᐃᔭᐅᔪᓂᒃ ᐳᕙᖏ ᕿᑎᐳᓪᓕᕐᓂᒃ-lungword-ᓂᒃ (*Varestrongylus spp.*), ᐱᑕᖃᕌᖑᔪᓂᒃ ᑕᒪᐃᓐᓂᒃ ᑐᒃᑐᓂᒃ ᐊᒻᒪᓗ ᐅᒥᖕᒪᖕᓂᒃ *(Ovibos moschatus)*, ᓯᕗᓪᓕᕐᒥ ᖃᐅᔨᔭᐅᓚᐅᖅᑐᓂᒃ ᐱᑕᖃᕐᓂᖏᑦ ᑭᓪᓕᓂᕐᒥ ᑖᓂ 2010-ᒥ (Kutz et al. 2014). ᑕᐃᒫᑦᓴᐃᓐᓇᖅᑐᖅ, ᓈᕐᒥ ᑯᒪᐃᑦ *Teladorsagia boreoarcticus*, ᐱᑕᖃᓕᐳᓇᕐᒥᔪᑦ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᓐᓂ, ᖃᐅᔨᔭᐅᓵᓚᐅᕐᒥᔪᑦ ᐱᑕᖃᕐᓂᖏᓐᓂ ᐃᑳHᐆᑉ ᕿᑭᖅᑕᖓᓂ ᐊᒻᒪᓗ ᑭᓪᓕᓂᕐᒥ ᑐᒃᑐᖏᓐᓂ (Hoberg et al. 2012). ᐃᓚᖏᑦ ᑕᒪᒃᑯᐊ ᓄᑖᑦ ᑯᒪᐃᑦ ᐃᓱᒪᓘᑕᐅᓕᖅᑐᑦ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᓂ. ᐃᓚᖏᑦ ᓄᓇᓖᑦ

ᐅᖃᐅᓯᖃᖅᓯᒪᖓᒪᑕ ᐃᓱᒫᓘᑕᐅᓂᖏᓐᓂᒃ ᐊᐃᑦᑑᓯᐊᖅᑕᕆᔭᐅᖃᑕᕈᓐᓇᕐᓂᖏᓐᓂᒃ ᑎᖏᐊᕐᓂᒃ ᑯᒪᓕᖕᓂᒃ/ᕐᑯᐱᕈᓕᖕᓂᒃ, ᐊᐃᑦᑐᐃᔪᓐᓇᖅᑐᓐᓃᒃ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᓄᑦ ᓯᓚᐅᑉ ᐆᓇᖅᓯᕗᓪᓕᐊᓂᖓᓂ ᐃᓱᒪᒋᓪᓗᒋᑦ.

ᑕᒪᒃᑯᐊ ᑯᒪᐃᑦ ᕐᑯᑉᐱᕐᕈᐃᓪᓗ ᐋᓐᓂᐊᓕᕈᑕᔪᓐᓇᖅᑐᓪᓗ ᐃᓕᑕᕆᔭᐅᓯᒪᒐᓗᐊᖅᑐᑎᒃ ᐊᑰᓂᕐᒥᒃ-ᐊᑦᑎᕐᑐᓄᑦ ᐊᒃᑐᐃᔪᓐᓇ ᕐᓂᖏᓐᓂᒃ ᑕᒪᐃᓐᓂᑦᑎᐊᖅ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᓐᓂ, ᐃᓚᖏᑦ ᓄᓇᓖᑦ ᐃᓱᒪᖃᖅᑐᑦ ᐅᓗᕆᐊᓇᕐᓂᖏᑦ ᑕᒪᒃᑯᐊ ᐱᒪᕆᐅᑎᑕᐅᓂᖅᓴᐅᔭᕆᐊᓖᑦ ᐱᑎᓕᐊᓘᓂᖏᓐᓄᑦ ᐊᓯᖏᓐᓂᒃ ᐆᒪᔪᓂ ᓖᕐᓗ ᐆᒃᑐᑎᒋᓗᒍ ᐅᒥᖕᒪᖕᓂ, ᑎᖏᐊᕐᓂ ᓂᕿᒃᓴᕆᔭᐅᕙᒃᑐᓂ ᐊᓯᖏᓐᓂᓗ ᑐᒃᑐᓂᒃ ᐃᓚᒋᔭᐅᕙᒃᑐᓂᒃ ᓱᕐᓗ ᓇᐸᖅᑐᖃᖏᑦᑐᕐᒥᐅᑦ ᑐᒃᑐᖏᓐᓂᒃ; ᐊᒻᒪᓗ ᐊᒥᓱᕈᖅᐸᓪᓕᐊᔪᓐᓇᕐᓂᖏᓐᓂ ᑯᒪᐃᓪᓗ ᕐᑯᑉᐱᕐᕈᐃᓪᓗ ᐋᓐᓂᐊᓕᕈᑕᐅᔪᓐᓇᖅᑐᓪᓗ ᓯᓚᐅᑉ ᐊᓯᔾᔨᖅᐸᓪᓕᐊᓂᖓ ᐱᔾᔪᑕᐅᓗᓂ (ᐅᓗᒃᕼᐊᖅᑑᕐᒥᐅᑦ ᐊᖑᓇᓱᒃᑏᑦ ᑲᑎᒪᔨᕋᖏᑦ 2016; ᐃᑳᕼᐆᑉ ᐊᖑᓇᓱᒃᑏᑦ ᑲᑎᒪᔨᕋᖏᑦ 2016).

ᓯᓚᐅᑉ ᐊᓯᔾᔨᖅᐸᓪᓕᐊᓂᖓ ᐱᔾᔪᑕᐅᓕᕈᓐᓇᖅᑐᖅ ᐊᒥᓱᓂᖅᓴᐅᓕᕈᓐᓇᕐᓂᖏᓐᓄᑦ ᐱᑕᖃᕐᓂᖏᑦ ᑕᒪᒃᑯᐊ ᑐᒃᑐᐃᑦ ᑯᒪᖏᑦ, ᕿᒃᑐᕆᐊᓪᓗ ᐊᓯᖏᓪᓗ ᑮᓯᕙᒃᑐᑦ ᑯᒪᐃᑦ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖃᕐᕕᐅᕙᕐᑐᓂ (Moen 2008; Culler et al. 2015). ᐸᒡᕕᒃᓴᒃᑕᐅᔪᓐᓇᕐᓂᖏᑦ ᕿᒃᑐᕆᐊᓄᑦ ᐊᓯᖏᓄᓪᓗ ᐱᒻᒪᕆᐊᓗᖏᒃ ᐊᑲᐅᖏᓕᐅᕈᑕᐅᔪᓐᓇᕐᒪᑕ ᑐᒃᑐᓄᑦ ᓂᕿᒃᓴᖅᓯᐅᓗᐊᕈᓐᓇᐃᔪᓐᓇᕐᒪᑕ ᐊᒻᒪᓗ ᓄᖃᖓᔪᓐᓇᐃᓕᓗᑎᒃ ᐱᒻᒪᕆᐅᔪᒥ ᐱᔾᔪᑕᐅᓂᕐᒧᑦ ᐊᒥᓱᓗᐊᕐᓂᖏᓐᓄᑦ ᑕᒪᒃᑯᐊ ᑯᒪᐃᓪᓗ, ᕿᒃᑐᕆᐊᓪᓗ ᒥᓗᕆᐊᓗᑦ ᐊᓯᖏᓪᓗ ᐱᑕᓕᐊᓘᓂᖏᓐᓄᑦ (Hagemoen and Reimers 2002; Witter et al. 2012), ᐊᒻᒪᓗ ᐱᑕᖃᓕᖅᐸᓪᓕᐊᑐᐃᓐᓇᕆᓪᓗᑎᒃ ᓯᓚᐅᑉ ᐅᕐᑰᓇᓗᐊᕌᓗᓐᓂᖓᓄᑦ (Mörschel and Klein 1997). ᕿᒃᑐᕆᐊᓪᓗ ᐊᓯᖏᓪᓗ ᕿᒫᔭᐅᓂᖏᓐᓄᑦ ᐱᐅᖏᑦᑐᒥᒃ ᐊᒃᑐᖅᑕᐅᓯᒪᔪᓐᓇᖅᑐᑦ ᑐᒃᑐᐃᑦ ᓄᕐᕆᔪᓐᓇᕐᓂᖏᓐᓂ, ᓂᕿᒃᓴᖅᓯᐅᖏᓐᓂᖅᓴᐅᓗᐊᓕᕈᓐᓇᕐᓂᖏᓐᓄᑦ ᑕᒪᒃᑯᓂᖓ ᕿᒫᖏᓐᓇᓗᐊᕐᓂᕐᒧᑦ (Colman et al. 2003; Weladji et al. 2003). ᐱᒥᓱᕈᖅᐸᓪᓕᐊᓗᑎᒃ ᕿᒃᑐᕆᐊᑦ ᐊᓯᖏᓪᓗ ᐊᒃᓱᐊᓗᒃ ᓇᒻᒪᒌᓐᓂᕈᑕᐅᔪᓐᓇᕐᒪᑕ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᓐᓄᑦ, ᓂᕿᒃᓴᖅᓯᐅᖏᓐᓇᕆᐊᖃᖅᑎᓗᒋᑦ ᑕᐃᒫᒃ ᑐᓐᓄᖃᑦᑎᐊᕆᐊᖃᕐᓂᕐᒧᑦ ᐆᒪᐃᓐᓇᕈᑎᒃᓴᖏᓐᓄᒃ ᐅᑭᐅᒃᑯᑦ ᐊᒻᒪᓗ ᓄᕐᕆᔪᓐᓇᕐᓂᐊᕐᒪᑕ. ᐃᓚᖏᑦ ᓄᓇᓖᑦ ᑕᑯᖃᑦᑕᓕᐊᓂᒃᑐᑦ ᑮᓯᕙᒃᑐᓂᒃ ᕿᒃᑐᕆᐊᕐᓂᒃ ᐊᓯᖏᓐᓂᒡᓗ ᒥᓗᕆᐊᓂᒃ ᐊᒥᓲᓂᖅᓵᒻᒪᕆᐊᓘᓕᕐᓂᖏᓐᓂᒃ, (ᐅᓗᒃᕼᐊᖅᑑᕐᒥᐅᑦ ᐊᖑᓇᓱᒃᑏᑦ ᑲᑎᒪᔨᕋᖏᑦ 2013; ᐃᑳᕼᐆᑉ ᐊᖑᓇᓱᒃᑏᑦ ᑲᑎᒪᔨᕋᖏᑦ 2013; ᐃᖃᓗᒃᑐᑦᑎᐊᕐᓂ ᐊᖑᓇᓱᒃᑎᒃᑯᑦ 2016) ᐊᓯᖏᓐᓂᒡᓗ ᐱᑕᖃᓕᖅᑐᓂᒃ ᓄᑖᓂᒃ ᕐᑯᑉᐱᕐᕈᓂᒃ ᑯᒪᖕᓂᒃ ᕿᒃᑐᕆᐊᓂᒡᓗᓐᓃᑦ (ᐃᖃᓗᒃᑐᑦᑎᐊᕐᓂ ᐊᖑᓇᓱᒃᑎᒃᑯᑦ 2016). ᐃᓄᐃᑦ ᐃᓱᒪᖃᓕᖅᑐᑦ ᐊᒥᓱᕈᖅᐸᓪᓕᐊᓂᖏᓐᓂ ᑐᕐᑯᕋᖅᐸᓪᓕᐊᖃᑕᓕᖅᑐᑦ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᓐᓂ ᑕᐃᒪᐃᓕᖓᔪᑦ ᐱᔾᔪᑕᐅᓂᕐᒧᑦ ᓯᓚ ᐅᕐᑰᓇᓗᐊᖃᑦᑕᕐᓂᖓᓄᑦ ᐊᒻᒪᓗ ᕿᒫᖏᓐᓇᓗᐊᒧᑦ ᑕᖃᓯᒪᓗᐊᓕᕐᓂᖏᓐᓄᑦ ᕿᒃᑐᕆᐊᓂᒃ ᐊᓯᖏᓐᓂᒡᓗ (ᐃᖃᓗᒃᑐᑦᑎᐊᕐᓂ ᐊᖑᓇᓱᒃᑎᒃᑯᑦ 2016).

ᐅᑭᐅᖅᑕᖅᑐᕐᒥᐅᑕᐅᖏᓐᓇᖅᑐᑦ ᐆᒪᔪᐃᑦ ᐱᕈᖅᑐᑦ ᐊᓯᖏᓪᓗ ᐊᑲᐅᖏᓕᐅᕈᑕᐅᕙᓐᖏᑦ (ᓄᓇᕐᔪᐊᕐᒥ ᓴᐳᓐᓂᐊᖅᑏᑦ ᐃᓚᒌᒃᑐᑦ ᐅᓗᕆᐊᓇᕐᓂᖏᑦ 8.2)

ᓂᕿᒃᓴᖅᓯᐅᖃᑕᐅᕙᓐᓂᖏᑦ - ᐅᒥᖕᒪᐃᑦ

ᓄᓇᓕᖕᓂ ᐃᓄᐃᑦ ᑕᓖᖕᒐᑦ ᐃᑳᕼᐆᑉ, ᐅᓗᒃᕼᐊᖅᑑᖅ, ᐸᐅᓗᑑᑉ, ᐅᖅᓱᖅᑑᑉ ᐊᒻᒪᓗ ᑕᓗᕐᔪᐊᓂ ᐃᓱᒪᖃᓕᖅᑐᑦ ᐅᒥᖕᒪᐃᑦ ᐅᓗᕆᐊᓇᕈᑕᐅᕙᓕᕐᓂᖏᓐᓂᒃ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ (ᐅᓗᒃᕼᐊᖅᑑᕐᒥᐅᑦ ᐊᖑᓇᓱᒃᑏᑦ ᑲᑎᒪᔨᕋᖏᑦ 2013; ᐸᐅᓗᑑᑉ ᐊᖑᓇᓱᒃᑏᑦ ᑲᑎᒪᔨᕋᖏᑦ 2013; ᑕᓗᕐᔪᐊᑉ ᐊᖑᓇᓱᒃᑎᖏᑦ 2013; ᐅᖅᓱᖅᑑᑉ ᐊᖑᓇᓱᒃᑎᒃᑯᑦ 2016; ᐅᓗᒃᕼᐊᖅᑑᕐᒥᐅᑦ ᐊᖑᓇᓱᒃᑏᑦ ᑲᑎᒪᔨᕋᖏᑦ 2016; ᐃᑳᕼᐆᑉ ᐊᖑᓇᓱᒃᑏᑦ ᑲᑎᒪᔨᕋᖏᑦ 2016; ᑕᓗᕐᔪᐊᑉ ᐊᖑᓇᓱᒃᑎᒃᑯᑦ 2016). ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ ᐊᒥᔅᓵᔪᓐᓂᖅᓯᒪᓂᖏᑦ ᓇᒻᒪᓈᖅᓯᒪᕗᑦ ᐅᒥᖕᒪᒃᑕᖃᕐᓂᖏᓐᓄᑦ, ᓇᓗᓇᖏᑦᑐᖅ ᑕᐃᒪᐃᓐᓂᖏᓐᓂ ᐊᔾᔨᒌᒃᐸᖏᑦᑐᑦ ᓇᓂᑐᐃᓐᓇᖅ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖃᕐᕕᐅᕙᓐᓂᖏᓐᓂ.
ᓵᕐᓗ ᐆᒃᑑᑎᒋᓗᒍ, ᓈᒻᒪᒍᓃᕈᑕᐅᕙᖕᒪᑕ ᐱᑕᖃᖃᑦᑕᕐᓂᖏᓐᓂ ᑕᒪᐃᓐᓂᒃ ᑕᐅᕙᓂ ᐃᑳᕼᐆᑉ ᕿᑭᖅᑕᖕᒐᓂ, ᑭᖕᒐᐃᓚᕐᒥᓗ ᐊᒻᒪᓗ ᑰᒐᓇᕉᑉ ᕿᑭᖅᑕᒐᓴᖏᓐᓂ ᑭᓯᐊᓂ ᓈᒻᒪᒍᓃᕈᑕᐅᓯᒪᒋᓪᓗᑎᒃ ᑕᐅᕙᓂ ᑭᖕᒐᐃᓚᐅᑉ ᐱᖕᒐᖕᓇᖕᒐᓂ ᕿᑭᖅᑕᒐᓴᖏᓐᓂ (Gunn and Dragon 1998; Gunn et al. 2000; ᑲᓇᑕᒥ ᐆᒪᔪᓕᕆᓂᕐᒧᑦ ᐱᔮᑦᑎᕋᐃᔾᔩᑦ 2012; ᐅᓗᒃᕼᐊᖅᑑᕐᒥᐅᑦ ᐊᖑᓇᓱᒃᑏᑦ ᑲᑎᒪᔨᕋᖏᑦ 2013; ᑲᓇᑕᒥ ᐆᒪᔪᓕᕆᓂᕐᒧᑦ ᐱᔮᑦᑎᕋᐃᔾᔩᑦ 2015; ᑳᓱᐃᒃᑯᑦ ᑲᑎᒪᔨᕋᖏᑦ 2015; ᑕᓗᕐᔪᐊᑉ ᐊᖑᓇᓱᒃᑎᒃᑯᑦ 2016).

ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ ᑕᑯᔭᐅᒐᔪᒃᐳᑦ ᐊᔾᔨᒋᖏᑦᑑᑎᐅᔪᓂ ᓄᓇᒥ ᐊᓯᖏᓐᓂᒃ ᐅᒥᖕᒪᖅᕕᐅᔪᓂ4 (Kevan 1974; Thomas et al. 1999; Jenkins 2006; ᐸᐅᓗᑑᑉ ᐊᖑᓇᓱᒃᑏᑦ ᑲᑎᒪᔨᕋᖏᑦ 2013; ᑕᓗᕐᔪᐊᑉ ᐊᖑᓇᓱᒃᑎᖏᑦ 2013; ᑳᓱᐃᒃᑯᑦ ᑲᑎᒪᔨᕋᖏᑦ 2015). ᑕᐃᒪᐃᓐᓇᓱᒋᔭᐅᕚᑦ ᐱᔾᔨᑕᐅᓗᑎᒃ ᑐᒃᑐᐃᑦ ᐅᒥᖕᒪᑕᓕᖕᓄᐊᖅᑕᐃᓕᒪᓂᖅ ᐱᓇᓱᐊᖅᑕᐅᔪᓐᓇᕐᓂᕐᒥᓂᒃ ᐅᓗᕆᐊᓇᕈᓐᓇᖅᑐᓂᒃ (Jenkins 2006; ᑲᓇᑕᒥ ᐆᒪᔪᓕᕆᓂᕐᒧᑦ ᐱᔮᑦᑎᕋᐃᔾᔩᑦ 2013), ᑐᒃᑐᐃᑦ ᒪᒪᖅᓴᖃᑕᖓᓕᒪᑕ ᐅᒥᖕᒪᐃᑦ ᑎᐱᖏᓐᓂᒃ (ᐃᖃᓗᒃᑐᑦᑎᐊᕐᓂ ᐊᖑᓇᓱᒃᑎᒃᑯᑦ 2013; ᐊᐃᕙᖅ ᐊᖑᓇᓱᒃᑎᖏᑦ; ᐸᐅᓗᑑᑉ ᐊᖑᓇᓱᒃᑏᑦ ᑲᑎᒪᔨᕋᖏᑦ 2013),

ᐅᕝᕙᓗᓐᓂᓃᑦ ᐅᒥᖕᒪᐃᑦ ᒪᐅᔨᕈᓐᓇᕐᓂᖕᖏᓐᓂᒃ ᐊᐳᒻᒥᒃ ᐊᒻᒪᓗ ᓂᕿᒃᓴᖃᕐᕕᒋᕙᒃᑕᖕᖏᓐᓂᒃ (ᐆᒪᔪᐃᑦ ᐊᒥᓲᖕᖏᓗᐊᕐᓂᖕᖏᓐᓄᑦ ᑲᑎᒪᔨᕋᓖᑦ 2012). ᐃᓱᒪᒋᔭᐅᓯᒪᖕᒥᔪᑦ ᐊᒥᓱᒍᑎᒃ ᐅᒥᖕᒪᐃᑦ, ᐊᒥᓱᖃᑕᕐᒥᖕᒪᑕ ᐊᒪᕈᐃᑦ, ᐊᒪᕈᕐᓄᓪᓗ ᐊᖑᔭᐅᓇᓱᒍᓐᓇᕐᒪᑕ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖕᖏᑦ (Miller 1993b; Nagy et al. 1996; Miller 2003; Gunn 2005; Gunn et al. 2011; ᑲᓇᑕᒥ ᐆᒪᔪᓕᕆᓂᕐᒧᑦ ᐱᔨᑦᑎᕋᐃᔩᑦ 2013; Larter 2013). ᐅᒥᖕᒪᖕᓄᑦ ᖃᓪᓕᒃᑕᐃᓕᒪᕙᖕᓂᖕᖏᓐᓄᑦ ᓇᒧᖕᖓᐅᕕᒃᓴᐃᕈᑎᓯᒪᓲᖕᖑᔪᑦ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖕᖏᑦ, ᐱᓗᐊᖅᑐᒥᒃ ᐊᒥᓱᔫᖕᖓᒥᒃ ᐅᒥᖕᒪᐃᑦ.

ᑕᐃᒪᐃᓐᓂᑲᓴᒃ ᖃᐅᔨᓴᖅᑕᐅᖃᑕᕐᓂᖕᖏᓐᓂ ᐃᓱᒪᓇᖅᑐᑦ ᓂᕿᒃᓴᖅᓯᐅᕐᓂᖅᓴᐅᕙᖕᓂᖕᖏᓐᓂ ᑕᒪᒃᑯᐊ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖕᖏᑦ ᐅᒥᖕᒪᐃᓪᓗ ᑕᐃᒪᐃᓕᖕᖓᔪᑦ ᑕᐅᕙᓃᑐᐃᓐᓇᖃᑕᕐᓂᖕᖏᓐᓄᑦ ᐊᒥᓱᓂᖕᖏᓐᓂᒃ ᓇᔪᖅᑕᐅᕙᒃᑐᓂ ᐊᒻᒪᓗ ᓂᕿᒃᓴᖃᖃᑕᐅᕙᖕᓂᖕᖏᓐᓂᒃ (Kevan 1974; Wilkinson et al. 1976; Miller et al. 1977; Parker 1978; Shank et al. 1978; Russell et al. 1979; Thomas and Edmonds 1983; Schaefer et al. 1996; Thomas et al. 1999), ᐅᒥᖕᒪᐃᑦ ᑐᒃᑐᐃᓪᓗ ᐱᓂᖅᓴᐅᓇᓱᒍᓐᓇᕐᒪᑕ ᑕᐃᒃᑯᓂᖕᖓᑦᓴᐃᓐᓇᖅ ᓂᕿᒃᓴᓂᒃ, ᐊᕙᑎᖓᓂ ᑕᐃᒪᐃᓕᖓᓂᖕᖏᓐᓂᒃ ᒪᓕᒃᑐᓂᒃ, ᐱᐅᔪᓃᕈᑕᐅᔪᓐᓇᖅᑐᓂᒃ ᑕᒪᒃᑯᓄ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᓄᑦᑦ (Larter and Nagy 1997; Gunn et al. 2000; ᑲᓇᑕᒥ ᐆᒪᔪᓕᕆᓂᕐᒧᑦ ᐱᔨᑦᑎᕋᐃᔩᑦ 2013; ᐅᓗᒃᕼᐊᖅᑑᕐᒥᐅᑦ ᐊᖑᓇᓱᒃᑏᑦ ᑲᑎᒪᔨᕋᓖᖏᑦ 2013). ᐃᓚᖏᓐᓂ ᖃᐅᔨᓴᖅᑕᐅᓚᐅᖅᑐᓂ ᑐᑭᓯᓇᖅᑐᑦ ᓂᖏᔮᒃᓴᖅᓯᐅᕐᓂᖅᓴᐅᔪᓐᓇᕐᓂᖕᖏᑦ ᐊᑐᖅᑕᐅᓕᖃᑕᖅᑐᑦ ᓂᕿᒃᓴᖃᑎᐊᖕᖏᓗᐊᓕᕐᓂᕐᒥ (Miller et al. 1977; Parker 1978; Staaland et al. 1997; Larter and Nagy 2001b) ᐅᕝᕙᓗᓐᓃᑦ ᐅᒥᖕᒪᖃᕐᓂᖕᖏᑦ ᐊᒥᓲᐊᓘᓕᕋᖕᖓᒥᒃ (Vincent and Gunn 1981). ᓄᓇᓕᖕᓄᑦ ᐅᖃᐅᓯᐅᕙᓚᐅᖅᑐᑦ, ᐊᒃᑐᖅᑕᐅᔪᓐᓇᕐᓂᖕᖏᑦ ᓯᓚᓗᒡᔪᐊᖃᑕᕐᓂᕐᒧᑦ ᐅᒥᖕᒪᐃᑦ, ᐱᐅᓯᑎᓕᖃᑕᖅᑕᖕᖏᓪᓗ ᐊᒃᑐᖅᓯᓯᒪᔪᓐᓇᖅᑐᑦ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖕᖏᓐᓂᒃ (ᑲᓇᑕᒥ ᐆᒪᔪᓕᕆᓂᕐᒧᑦ ᐱᔨᑦᑎᕋᐃᔩᑦ 2015).

ᐆᒪᔪᐃᑦ ᑐᒃᑐᓂᒃ ᓂᕿᒃᓴᖅᓯᐅᖅᐸᒃᑐᑦ - ᐅᑭᐅᒃᑕᖅᑐᒥ ᐊᒪᕈᐃᑦ

ᐅᑭᐅᖅᑕᖅᑐᒥ ᐊᒪᕈᐃᑦ ᐱᑕᖃᕈᖕᖑᕗᑦ ᓇᔪᖃᕈᓐᓇᕐᕋᒥᒃ ᑕᐃᒃᑯᓂᖕᖓᑦᓴᐃᓐᓇᖅ ᓇᔪᖅᑕᐅᕙᒃᑐᓂ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖕᖏᑦ ᓇᓂᑐᐃᓐᓇᖅ (Miller 1992; Miller and Reintjes 1995; van Zyll de Jong and Carbyn 1999) ᓂᕿᒃᓴᖅᓯᐅᖅᐸᒃᓯᑎᒃ ᑐᒃᑐᓂᒃ ᐊᒻᒪ ᓗᐅᒥᖕᒪᖕᓂᒃ, ᒪᓕᒃᑐᓂᒃ ᐱᑕᖃᕐᓂᖕᖏᓐᓂ (Gunn et al. 1998; Gunn et al. 2000; Larter 2013) ᐅᕝᕙᓗᓐᓃᑦ ᐱᓂᖅᓴᐅᔪᒪᔭᒥᓂᒃ (Miller 1993b; Gunn et al. 2000; Taylor 2005; ᐆᒪᔪᐃᑦ ᐊᒥᓲᖕᖏᓗᐊᕐᓂᖕᖏᓐᓄᑦ ᑲᑎᒪᔨᕋᓖᑦ 2012; ᑲᓇᑕᒥ ᐆᒪᔪᓕᕆᓂᕐᒧᑦ ᐱᔨᑦᑎᕋᐃᔩᑦ 2013). ᐊᒪᕈᐃᑦ ᑐᒃᑐᓯᐅᖃᑕᕐᒪᑦ ᐱᓗᐊᖅᑐᒥᒃ ᓄᕋᖕᖏᓐᓂᒃ ᐅᕝᕙᓗᓐᓃᑦ ᐃᓐᓇᐅᓂᖅᓴᓂᒃ ᑐᒃᑐᓂᒃ (Miller et al. 1985). ᐊᒪᕈᐃᑦ ᑐᒃᑐᐃᓪᓗ ᑕᐃᒃᑯᓇᓃᑦᓴᐃᓐᓇᖃᑕᕐᒥᒃ ᐱᐅᓯᑎᔭᐅᓪᓗᓂ ᑕᒪᓐᓇ ᑕᐅᓴᒐᓴᖕᖏᓐᓂ ᐊᕐᕌᒍᓂ, ᐊᒪᕈᐃᑦ ᑐᒃᑐᓯᐅᖃᑕᕐᓂᖕᖏᑦ ᐊᒥᓱᓐᓃᕈᑕᐅᕆᐊᒃᑲᓐᓂᕈᓐᓇᕐᒪᑕ ᑐᒃᑐᓄᑦ ᐅᕝᕙᓗᓐᓃᑦ ᐊᒥᓱᑭᖅᐸᓪᓕᐊᓯᓐᓇᐃᓪᓕᕝᔭᑕᐅᓯᓐᓇᖅᓯᑎᒃ, ᐃᓗᐊᖅᑐᒥᒃ ᖃᖕᖓᑐᐃᓐᓇᖅ ᑐᒃᑐᐃᑦ ᐊᒥᑦᓯᓯᓐᓂᖅᓯᒪᓂᖕᖏᓂᖕᖏᓐᓄᑦ ᐊᒻᒪᓗ ᓵᖕᖓᓕᖅᑎᓪᓗᒋᑦ ᐊᒥᓯᖓᓴᖕᓂᒃ ᐅᓗᑎᐊᓇᕈᑕᐅᓯᓂᒃ ᐱᑕᖃᐃᓐᓇᕈᓐᓇᕐᓂᖕᖏᓐᓄᑦ (Nagy et al. 1996; Gunn et al. 1998; Gunn et al. 2000; Miller and Gunn 2001). ᑐᒃᑐᐃᑦ ᐱᓗᐊᖅᑐᒥᒃ ᐊᒃᑐᖅᑕᐅᓴᕋᐃᑐᐃᓐᓇᕐᒪᑕ ᖃᓄᐃᓕᐅᕐᓂᖕᖏᓐᓂ ᐱᐅᓯᑎᕙᒃᑕᖕᖏᓐᓂ ᐊᑐᕐᓗᑎᒃ, ᓲᕐᓗ ᓄᕐᑎᕙᓪᓕᐊᓕᖅᑎᓪᓗᒋᑦ ᓈᒻᒪᓈᑎᐊᖅᑐᓂᓪᓗᓐᓂᑦ ᓄᐸᓪᓕᐊᓕᕐᓂᖕᖏᓐᓂᒃ (ᖃᐅᓯᐃᑦᑑᑉ ᐊᖑᓇᓱᒃᑎᖕᖏᑦ 2013). ᐊᒪᕈᕐᓄᑦ ᓂᕿᒃᓴᖅᓯᐊᑎᔭᐅᓇᓱᐊᕐᓂᖕᖏᓐᓂ ᐊᓯᔾᔨᕈᑕᐅᕙᖕᒥᔪᑦ ᓇᐅᑦᑖᖃᑕᕐᓂᖕᖏᓐᓄᑦ ᓅᑉᐸᓪᓕᐊᕕᒋᕙᒃᑕᖕᖏᓐᓂ (ᑲᓇᑕᒥ ᐆᒪᔪᓕᕆᓂᕐᒧᑦ ᐱᔨᑦᑎᕋᐃᔩᑦ 2013).

ᐅᓗᑎᐊᓇᕈᓐᓇᕐᓂᖕᖏᑦ ᐊᒪᕈᐃᑦ ᓇᓂᑐᐃᓐᓇᖅ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᓄᑦ ᐊᔾᔨᒌᒃᐸᖕᖏᒻᒪᑕ ᑕᒪᐃᓐᓂ ᓇᔪᖅᐸᒃᑕᖕᖏᓐᓂ ᑭᓱᐊᓂ ᐃᓱᒪᒋᔭᐅᓚᐅᖅᑐᖅ ᐱᒻᒪᕆᐅᓂᖅᓴᐅᕙᖕᓂᖅ ᓄᓇᖕᖏᓐᓂ ᐃᓚᖕᖏᓐᓂ , (ᑲᓇᑕᒥ ᐆᒪᔪᓕᕆᓂᕐᒧᑦ ᐱᔨᑦᑎᕋᐃᔩᑦ 2015), ᐱᓗᐊᖅᑐᒥᒃ ᑕᐅᕙᓂ ᕿᑎᖅᒥᐅᑦ ᐱᖕᖓᖕᓇᖕᖓᓂ (ᑲᓇᑕᒥ ᐆᒪᔪᓕᕆᓂᕐᒧᑦ ᐱᔨᑦᑎᕋᐃᔩᑦ 2013; ᐃᖃᓗᒃᑑᑦᑎᐊᕐᓂ ᐊᖑᓇᓱᒃᑎᒃᑯᑦ 2013; ᐅᖅᓱᖅᑑᑉ ᐊᖑᓇᓱᒃᑎᖕᖏᑦ 2013; ᐅᓗᒃᕼᐊᖅᑑᕐᒥᐅᑦ ᐊᖑᓇᓱᒃᑏᑦ ᑲᑎᒪᔨᕋᓖᖕᖏᑦ 2013; ᐃᖃᕼᐅᐸ ᐊᖑᓇᓱᒃᑏᑦ ᑲᑎᒪᔨᕋᓖᖕᖏᑦ 2013). ᐊᒥᕈᐃᑦ ᐊᒥᓲᓂᖅᓴᐅᕙᓕᕐᒪᑕ ᑕᑯᔭᐅᕙᖕᓂᖕᖏᑦ ᓇᓂᑐᐃᓐᓇᖅ ᑐᒃᑐᖃᕐᕕᐅᕙᒃᑐᓂ ᐊᒥᓱᓕᖅᑐᓂ (Gunn 2005; ᐃᖃᓗᒃᑐᑦᑎᐊᕐᓂ ᐊᖑᓇᓱᒃᑎᒃᑯᑦ 2013; ᐅᖅᓱᖅᑑᑉ ᐊᖑᓇᓱᒃᑎᖕᖏᑦ 2013; ᐅᓗᒃᕼᐊᖅᑑᕐᒥᐅᑦ ᐊᖑᓇᓱᒃᑏᑦ ᑲᑎᒪᔨᕋᓖᖕᖏᑦ 2013; ᑕᓗᕐᔪᐊᑉ ᐊᖑᓇᓱᒃᑎᖕᖏᑦ 2013; ᐃᖃᓗᒃᑐᑦᑎᐊᕐᓂ ᐊᖑᓇᓱᒃᑎᒃᑯᑦ 2016; ᐅᓗᒃᕼᐊᖅᑑᕐᒥᐅᑦ ᐊᖑᓇᓱᒃᑏᑦ ᑲᑎᒪᔨᕋᓖᖕᖏᑦ 2016; ᐸᐅᓗᑑᑉ ᐊᖑᓇᓱᒃᑏᑦ ᑲᑎᒪᔨᕋᓖᖕᖏᑦ 2016a; ᐃᖃᕼᐅᐸ ᐊᖑᓇᓱᒃᑏᑦ ᑲᑎᒪᔨᕋᓖᖕᖏᑦ 2016), ᑭᓱᐊᓂᓕᑕᐅᖅ ᑕᑯᔭᐅᖃᑕᕐᓂᖕᖏᑦ ᐊᒪᕈᐃᑦ ᑐᑭᖃᐃᓐᓇᖕᖏᓐᓂᕚᖅ ᐊᒥᓱᑭᖅᐸᓪᓕᐊᓂᖕᖏᓐᓂᒃ ᐊᒪᕈᐃᑦ (ᑲᓇᑕᒥ ᐆᒪᔪᓕᕆᓂᕐᒧᑦ ᐱᔨᑦᑎᕋᐃᔩᑦ 2015). ᐊᑕᐅᓯᖅ ᓄᓇᓕᒃ ᐃᓱᒪᓘᑎᖃᕐᓂᖕᖏᓐᓂᒃ ᐅᖃᐅᓯᖃᓚᐅᖅᑐᖅ ᓴᓇᕝᕕᐅᖃᕐᓂᖕᖏᓐᓄᑦ ᐱᔾᔪᑕᐅᓕᖅᑐᑦ ᐊᒪᕈᐃᑦ ᐅᐊᖕᓇᖅᐸᓯᑖᖃᕐᓂᖅᓴᐅᓕᕐᓂᖅ ᕿᓚᒻᒧᑎᒃ ᑕᒪᒃᑯᓂᖓ ᐱᓕᕆᐊᕝᕕᐅᕙᒃᑐᓂ (ᐅᓗᒃᕼᐊᖅᑑᕐᒥᐅᑦ ᐊᖑᓇᓱᒃᑏᑦ ᑲᑎᒪᔨᕋᓖᖕᖏᑦ 2016). ᑐᑭᓯᓂᐊᕐᕕᐅᓂᖕᖏᓐᓂ ᓄᓇᓖᑦ ᑖᓂ 2016-ᒥ, ᑕᒪᕐᒥᒃ ᓄᓇᓖᑦ, ᐱᖏᑐᑑᓪᓗᑎᒃ ᐊᑕᐅᓯᖅ ᓄᓇᓕᒃ, ᐃᓕᑕᖅᓯᓚᐅᖅᑐᑦ ᐊᒥᓱᓂᒃ ᐊᒥᓱᑭᖅᓯᒪᔪᓂᓪᓗᓃ ᐊᒪᕈᕐᓂᒃ ᐊᒃᑐᖅᑕᐅᕙᓪᓕᐊᓗᑎᒃ ᑕᒪᒃᑯᐊ ᑐᒃᑐᐃᑦ ᐱᒻᒪᕆᐊᓗᖕᒥᒃ ᐃᓱᒪᓘᑕᐅᓗᑎᒃ. ᑕᐃᒪᐃᓐᓂᑲᓴᐃᑦ ᓄᓇᓖᑦ ᐅᖃᓚᐅᖅᑐᑦ ᑐᒃᑐᓯᐅᖅᑕᐅᖃᑕᕐᓂᖕᖏᑦ (ᐱᓗᐊᖅᑐᒥᒃ ᐊᒪᕈᕐᓄᑦ) ᓄᓇᓖᑦ ᐊᕙᑎᖕᖏᓐᓂ, ᐊᒻᒪᓗ ᐃᖃᓗᒃᑑᑦᑎᐊᕐᒥ, ᐅᖅᓱᖅᑑᕐᒥ, ᑕᓗᕐᔪᐊᓂ ᐊᒻᒪᓗ ᖃᐅᓯᐃᑦᑐᕐᒥ ᓄᓇᓖᑦ ᐃᓕᑕᖅᓯᓚᐅᖅᑐᑦ ᐊᒪᕈᖕᓂᒃ ᐱᒻᒪᕆᐅᓂᖅᐹᖑᓂᖅ

ᐅᓗᕆᐊᓇᕈᑕᐅᓂᖅ ᐊᕙᒃᑐᖅᓯᒪᓂᖏᓐᓂ (ᐃᖃᓗᒃᑐᑦᑎᐊᕐᓂ ᐊᖑᓇᓱᒃᑎᒃᑯᑦ 2016; ᐅᖅᓱᖅᑑᑉ ᐊᖑᓇᓱᒃᑎᒃᑯᑦ 2016; ᐅᓗᒃHᐊᖅᑑᕐᒥᐅᑦ ᐊᖑᓇᓱᒃᑏᑦ ᑲᑎᒪᔨᕋᖄᖏᑦ 2016; ᐸᐅᓗᑑᑉ ᐊᖑᓇᓱᒃᑏᑦ ᑲᑎᒪᔨᕋᖄᖏᑦ 2016a; ᖃᐅᓯᐃᑦᑑᑉ ᐊᖑᓇᓱᒃᑎᖏᑦ 2016; ᐃᑳHᐆᑉ ᐊᖑᓇᓱᒃᑏᑦ ᑲᑎᒪᔨᕋᖄᖏᑦ 2016; ᑕᓗᕐᔪᐊᑉ ᐊᖑᓇᓱᒃᑎᒃᑯᑦ 2016). ᐊᒪᕈᐃᑦ ᐊᖑᑎᓇᓱᒍᓐᓇᕐᒪᑕ ᑐᒃᑐᓂᒃ ᒪᑐᐃᖓᔪᒥ ᑕᕆᐅᕐᒥ ᐅᙯᓗᓐᓂᑦ ᐃᓖᒍᑦ ᑕᕆᐅᕐᒥ ᓯᑯᓯᒪᓂᕐᒥ, ᑕᐅᑐᒃᑕᐅᖃᑕᖅᓯᒪᓪᓗᑎᒃ ᐃᓚᖓᓄᑦ ᐊᑕᐅᓯᕐᒧᑦ ᓄᓇᓕᖕᒧᑦ ᑕᐃᒪᓕᐅᕐᓂᖏᓐᓂ (ᐃᖃᓗᒃᑐᑦᑎᐊᕐᓂ ᐊᖑᓇᓱᒃᑎᒃᑯᑦ 2016).

ᖃᐅᔨᒪᔭᐅᖏᓗᐊᕐᓂᖏᑦ ᐊᒪᕈᐃᑦ ᑐᒃᑐᓯᐅᖃᑦᑕᕐᓂᖏᓐᓄᑦ ᐊᒃᑐᖅᑕᐅᙱᓂᖏᑦ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ ᐱᒻᒪᕆᐊᓗᖏᓪᓗ ᖃᐅᔨᒪᔅᔪᑎᒃᓴᐃᑦ ᑕᒪᒃᑯᓂᖓ ᐊᒥᓚᓗᐊᕐᒪᑕ, ᖃᐅᔨᓴᖅᑕᐅᑦᑎᐊᒃᑳᓂᕆᐊᖃᕐᓂᐊᖅᑐᑦ.

ᐊᓱᖏᑦ ᐅᒪᔪᐃᑦ

ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ ᐊᑐᖅᐸᒃᑐᑦ ᑭᓂᐸᔪᓂᒃ ᐊᕙᑎᓂᒃ ᓅᐸᓪᓕᐊᓂᖏᓐᓄ ᓄᓇᒃᑯᑦ, ᑭᓯᐊᓂ ᖃᑯᑎᒃᑯᑦ (Wilkinson et al. 1976; Miller et al. 1982; Thomas et al. 1999; Larter and Nagy 2001b). ᓄᓇᓖᑦ ᐃᓕᑕᖅᓯᓯᒪᔪᑦ ᑕᐃᒃᑯᓂᖔ ᖅᑲᕋᕐᔪᙵᓂ ᐊᒻᒪᓗ ᑲᖑᕐᓂᒃ ᑕᐃᑯᓂᖔᑦᓴᐃᓐᓇᖅ ᓂᕿᒃᓴᖅᓯᐅᑎᐅᕙᓐᓂᖏᓐᓂᒃ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᐃᑦ ᓂᕿᒃᓴᕆᕙᒃᑕᖏᓐᓂᒃ ᐱᔾᔪᑕᐅᓗᑎᒃ ᐊᒃᓱᒃᑳᓗᒃ ᓄᖑᑎᕆᔪᓐᓇᕐᒪᑕ ᐱᕈᖅᑐᓂᒃ ᒪᓴᐅᓂᖏᓐᓂ, ᓂᕆᕙᒃᑲᒥᒃ ᐃᓗᑦᑐᓂᒃ ᐱᕈᖅᑐᓕᒫᓂᒃ, ᐊᐃᕋᖏᓐᓂᓪᓗ (ᑲᓇᑕᒥ ᐆᒪᔪᓕᕆᓂᕐᒧᑦ ᐱᔨᑦᑎᕋᐃᔾᔫᑦ 2013) ᓂᕆᔭᒃᓴᖃᕈᓃᕈᑕᐅᔪᓐᓇᕐᒪᑕ ᑐᒃᑐᓄᑦ. ᐊᒻᒪᑕᐅᖅ, ᐊᒥᓱᕈᖅᐸᓪᓕᐊᓂᖏᓐᓄᑦ ᑯᖓᐃᑦ, ᑕᐃᒪᐃᓂᖏᓐᓄᑦ ᐱᐅᓯᖃᓕᕐᓂᐊᖅᑐᑦ ᓄᓇᖅᐱᐅᓂᕐᒥᒃ ᓇᔪᐃᕙᓪᓕᐊᓂᐊᕋᓱᒋᔭᐅᓂᖅ (Reed et al. 2002). ᑕᐃᒪᐃᓐᓂᕈᑎᒃ ᓂᕿᒃᓴᖅᓯᐅᕐᓂᖅᓴᐅᓕᕐᓂᐊᖅᑐᑦ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ, ᖄᕋᕐᔪᐃᓪᓗ, ᑲᖑᐃᓪᓗ ᑕᐃᒃᑯᖓᓪᓴᐃᓐᓇᖅ. ᐊᓱᖏᑦ ᐆᒪᔪᐃᑦ ᐱᕈᖅᑐᓂᒃ ᓂᕿᖃᓲᑦ ᓲᕐᓗ ᐆᑲᓖᑦ ᐊᕿᒡᒌᓪᓗ (ᑕᐃᒃᑯᖓᓪᓴᐃᓐᓇᖅ ᓂᕿᒃᓴᖅᓯᐅᕈᓐᓇᕐᒥᔪᑦ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᐃᑦ ᓂᕿᒋᕙᒃᑕᖏᓐᓂ (Larter and Nagy 2004).

ᓄᓇᓖᑦ ᓇᓗᓇᐃᔭᐃᓚᐅᖅᑐᑦ ᓇᓄᕐᓂᒃ, ᐊᒡᕙᓂᒃ, ᖃᑉᕝᕙᓐᓂᒃ ᐊᒻᒪᓗ ᑎᕆᒐᓂᐊᕐᓂᖅ ᓂᕆᔭᒃᓴᖅᓯᐅᖃᑕᐅᕙᖕᒥᔪᓂᒃ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᓂᒃ (ᑲᓇᑕᒥ ᐆᒪᔪᓕᕆᓂᕐᒧᑦ ᐱᔨᑦᑎᕋᐃᔾᔫᑦ 2012, 2013; ᐅᓗᒃHᐊᖅᑑᕐᒥᐅᑦ ᐊᖑᓇᓱᒃᑏᑦ ᑲᑎᒪᔨᕋᖄᖏᑦ 2013). ᓯᓚᐅᑉ ᐊᓯᔾᔨᖅᐸᓪᓕᐊᓂᖓᓄᑕᐅᖅ ᐱᕙᓪᓕᐊᓕᕈᑕᐅᔪᓐᓇᕐᒥᔪᑦ ᓂᕿᖃᖅᓯᐅᖃᑕᕈᓐᓇᕐᓂᖏᓐᓂᒃ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖃᕐᕕᐅᕙᓐᓂᖏᓐᓂ. ᐊᒥᓯᑦ ᐆᒪᔪᐃᑦ ᐅᐊᖓᖅᐸᓯᒧᑦ ᓅᐸᓪᓕᐊᓕᕐᒪᑕ ᐱᔾᔪᑕᐅᓂᖓᓄᑦ ᐊᓯᔾᔨᖅᐸᓪᓕᐊᓂᖓ, ᑕᒪᓇᓗ ᐊᒃᑐᓕᓈᖅᑐᖅ ᐅᑭᐅᖅᑕᖅᑑᑉ ᐊᕙᑎᖏᓐᓂᒃ ᐊᒻᒪᓗ ᐊᕙᑎᒥᐅᑕᕆᔭᖏᓐᓂᒃ (Post et al. 2009). ᓲᕐᓗ ᐆᒃᑐᑎᒋᓗᒍ, ᐃᓚᖏᑦ ᐊᖑᓇᓱᒃᑏᑦ ᑕᑯᕙᓕᖅᑐᑦ ᐊᒦᓯᓂᖅᓴᐅᕙᓕᕐᓂᖏᓐᓂᒃ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᑕᐅᕙᓕᖅᑐᑦ ᑕᒪᒃᑯᓄᖓ ᐊᒡᕙᓄᑦ ᖃᑉᕝᕙᓐᓂᓪᓗ (ᑲᓇᑕᒥ ᐆᒪᔪᓕᕆᓂᕐᒧᑦ ᐱᔨᑦᑎᕋᐃᔾᔫᑦ 2012, 2013; ᐅᓗᒃHᐊᖅᑑᕐᒥᐅᑦ ᐊᖑᓇᓱᒃᑏᑦ ᑲᑎᒪᔨᕋᖄᖏᑦ 2013; ᐃᖃᓗᒃᑐᑦᑎᐊᕐᓂ ᐊᖑᓇᓱᒃᑎᒃᑯᑦ 2016; ᐅᓗᒃHᐊᖅᑑᕐᒥᐅᑦ ᐊᖑᓇᓱᒃᑏᑦ ᑲᑎᒪᔨᕋᖄᖏᑦ 2016) ᐅᙯᓗᓐᓃᑦ ᐊᒡᕙᐃᑦ ᓯᓂᒃᑮᓂᖅᓴᐅᕙᓕᕐᓂᖏᓐᓂᒃ ᐊᐅᔭᒃᑰᖅᔫᕙᖕᓂᖏᓐᓂᒃ ᕿᓚᒥᐅᓂᖅᓴᖅ (ᐃᖃᓗᒃᑐᑦᑎᐊᕐᓂ ᐊᖑᓇᓱᒃᑎᒃᑯᑦ 2016).

ᖃᐅᔨᓴᖅᑕᐅᑲᓐᓂᕆᐊᓖᑦ ᑐᑭᓯᔭᐅᓂᐊᕐᒪᑕ ᓂᕿᒃᓴᖅᓯᐅᖅᐸᖕᓂᖏᑦ ᑕᐃᒃᑯᓂᖓᓪᓴᐃᓐᓇᖅ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ ᐅᒥᖕᒪᐃᓪᓗ, ᖃᓄᐃᓕᖓᕙᖕᓂᖏᓪᓗ ᓂᕿᖅᓴᖅᓯᐅᖅᐸᒃᑐᑦ-ᐅᒪᔪᐃᑦ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᓐᓂᒃ, ᐅᒥᖕᒪᖕᓂᒃ ᐊᒻᒪᓗ ᐊᒪᕈᕐᓂᖅ. ᑐᑭᓯᒋᐊᑎᐊᒃᑲᓐᓂᕈᒪᒍᕕᑦ ᐱᓂᖅᓴᐅᒐᓱᐊᖃᑦᑕᕐᓂᖏᓐᓂᒃ ᐅᓂᒃᑳᖅᑐᓂᒃ ᐊᒻᒪᓗ ᓂᖅᓴᖅᓯᐅᖅᑎᐅᕙᒃᑐᑦ ᐅᓗᕆᐊᓇᕈᑕᐅᙱᓂᖏᓐᓂᒃ, ᑕᑯᓂᐊᖅᐸᑎᑦ ᑎᑎᖃᐃᑦ ᐃᓚᒃᑳᓂᖏᑦ II-ᒥᑦᑐᑦ Johnson et al. (2016).

4.2.4. ᐆᒻᖁᓯᐅᕐᕖᑦ ᐊᒻᒪᓗ ᐅᔭᕋᙵᓂᐊᕐᕖᑦ (ᓄᓇᒥᐅᑕᓂᒃ ᐊᒨᖃᐃᙯᓐᓂᖅ) (ᓄᓇᕐᔪᐊᕐᒥ ᓴᐳᓐᓂᐊᖅᑏᑦ ᐃᓚᒌᒃᑐᑦ ᐅᓗᕆᐊᓇᕐᓂᖏᑦ 3)

ᑕᒪᓐᓇ ᐱᒻᒪᕆᐅᔪᒥᒃ ᐃᓱᒪᓘᑕᐅᓭᖅ ᐃᓄᙵᓄᑦ ᐊᒻᒪᓗ ᐃᓄᕝᕙᐊᓗᙵᓄᑦ ᐊᒃᑐᖅᑕᐅᔪᓐᓇᕐᓂᖏᓐᓄᑦ ᐅᔭᕋᙵᓂᐊᕐᓂᕐᒧᑦ, ᐅᖅᓱᐊᓗᒃᓴᖅᓯᐅᕐᓂᕐᒧᑦ, ᒡᓴᔩᒃᓴᖅᓯᐅᖅᓂᕐᒧᑦ ᐊᒻᒪᓗ ᑕᕆᐅᕐᒥ ᐃᒪᕐᓂ ᓴᖏᔪᐊᓗᙵᓂᒃ ᐳᓪᓚᓄᐊᖅᑐᐊᓗᙵᓂᒃ ᖁᑭᕐᓇᖅᑐᓂᒃ ᐊᑐᖅᑕᐅᖃᑦᑕᕐᓂᖏᓐᓂ ᐊᒃᑐᖅᓯᔪᓐᓇᕐᓂᖏᓐᓂ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖃᕐᕕᐅᕙᓐᓂᖏᓐᓂᒃ ᑕᒪᒃᑯᓇᖓᑦ (ᑲᓇᑕᒥ ᐆᒪᔪᓕᕆᓂᕐᒧᑦ ᐱᔨᑦᑎᕋᐃᔾᔫᑦ 2012, 2015). ᑕᐃᔅᓯᒪᓂᑲᓂᖅ ᕿᓂᕐᕙᐅᖃᑦᑕᕐᓂᖏᓐᓂ, ᐅᔭᕋᓐᓂᐊᕐᕙᐅᖃᑦᑕᕐᓂᖏᓐᓂᓗ ᑐᒃᑐᖃᕈᓐᓃᖅᐸᓪᓕᐊᓕᓚᐅᖅᑐᖅ ᑕᒪᓂ ᐱᒋᐊᖅᑐᓂᒃ 1970-ᖏᓐᓂ (Miller et al. 1977; ᐊᐅᓯᐃᑦᑐᕐᒥ ᖁᑦᑎᒃᑐᒥ ᑐᒃᑐᓕᕆᓂᕐᒧᑦ ᑲᑎᒪᓂᖏᑦ ᐃᓕᓐᓂᐊᕐᓂᖏᓐᓂᓗ 1997-ᒥ; ᑲᓇᑕᒥ ᐆᒪᔪᓕᕆᓂᕐᒧᑦ ᐱᔨᑦᑎᕋᐃᔾᔫᑦ 2013; ᐊᐃᕙᖅ ᐊᖑᓇᓱᒃᑎᖏᑦ; ᑕᓗᕐᔪᐊᑉ ᐊᖑᓇᓱᒃᑎᖏᑦ 2013). ᐆᒻᖁᑎᒃᓴᓕᐅᕈᑎᑦ ᐊᒻᒪᓗ ᐅᔭᕋᙵᓂᐊᖅᑐᑦ ᒫᓇᐅᔪᖅ ᐱᑕᖃᓗᐊᖅᑕᐃᓕᒪᑎᑕᐅᓕᖅᑐᑦ ᐱᑕᖃᕐᕙᐅᙯᓐᓂᖏᓐᓂ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᓐᓂᒃ. ᑭᓯᐊᓂᓕᑕᐅᖅ ᐱᔪᒪᔭᐅᖏᓇᕐᓂᖏᑦ ᓄᓇᒥᐅᑕᐃᑦ ᐱᓕᕆᐊᖑᕙᓪᓕᐊᓕᕈᓐᓇᕐᒥᔪᑦ ᓯᕗᓂᒃᓴᒥ,ᐊᒻᒪᓗ ᑎᑭᑕᐅᓴᕋᐃᓐᓂᖅᓴᐅᓕᖅᑎᓪᓗᒍ ᐅᑭᐅᖅᑕᖅᑑᑉ ᓄᓇᖓ, ᓄᓇᒥᐅᑕᓂᒃ ᐱᓇᓱᐊᕐᕙᐅᔪᓐᓇᕐᓂᖏᑦ ᐅᓗᕆᐊᓇᕈᑕᐅᓕᕈᓐᓇᖅᑐᑦ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᓕᓐᓄᑦ, ᐸᕐᓇᐅᑕᐅᓯᒪᕚᖏᑐᐊᕈᑎᒃ ᓇᓃᑐᓐᓇᕐᓂᖏᑦ

ᐊᒻᒪᓗ ᖃᖓᐅᓇᔭᕐᓂᖏᑦ ᑕᒪᒃᑯᐊ ᐊᑐᓕᕋᔭᕐᓂᖏᑦ. ᖁᑦᑎᒃᑐᒥ ᐅᑭᐅᖅᑕᖅᑐᒥ ᓄᓇᓖᑦ ᐃᓱᒪᕈᑎᖃᕐᒪᑕ ᐅᔭᕆᓐᓂᐊᕈᒪᔪᑦ (ᐊᐃᕙᖅ ᐊᖑᓇᓱᒃᑎᒃᑯᑦ 2016; ᖃᐅᓯᐃᑦᑑᑉ ᐊᖑᓇᓱᒃᑎᖏᑦ 2016), ᑲᔪᓯᑎᑕᐅᓇᔭᕈᑎᒃ ᐅᓗᕆᐊᓇᕈᑕᐅᑲᓂᕐᓂᐊᕐᒪᑕ ᑕᒪᒃᑯᓄᖓ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᓐᓄᑦ.

ᓄᓇᒥᐅᑕᓂᒃ ᐱᔮᓪᓗᑎᒃ ᐅᔭᕋᓐᓂᐊᕐᓂᕐᒥᒃ ᐊᒨᖃᐃᕝᖓᓂᖏᓐᓂ ᐱᔾᔪᑕᐅᔫᓇᖅᐳᑦ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᓄᑦ ᓇᔪᖅᑕᐅᖃᑕᕈᓐᓇᕐᓂᖏᓐᓂᒃ ᓱᕋᖅᑎᖅᑕᐅᔫᓇᕐᓂᖏᓐᓄᑦ. ᑕᒪᒃᑯᐊ ᐃᒪᐃᓕᖓᓕᕈᓐᓇᕐᒥᖓᒪᑕ, ᓄᓇᐃᕈᑎᔭᐅᔫᓇᕐᓂᖏᑦ ᐱᒻᒪᕆᐅᓂᖅᓴᐅᔫᓇᖅᐳᑦ ᓴᓂᐊᓂᒃ ᓄᓇᐃᑦ ᐊᒃᑐᖅᑕᐅᓂᕐᔪᒃᓯᒪᔫᓇᕐᓂᖏᓐᓂᒃ ᐋᔭᐃᕙᐅᕝᖓᓂᖏᓐᓂ ᐅᔭᕋᓐᓂᐊᖅᑕᐅᓂᕐᒧᑦ ᐱᔾᔪᑕᐅᓗᑎᒃ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ ᕿᒪᐃᔫᓇᕐᒪᑕ ᓇᔪᖅᐸᓚᐅᖅᑕᖏᓐᓂᒃ ᐅᕝᕙᓘᓐᓃᑦ ᓇᐅᒃᑰᕝᕕᕆᕙᓚᐅᖅᑕᖏᓐᓂᒃ ᖃᓂᓪᓕᑕᐃᓕᒪᓂᕐᒧᑦ ᓄᓇᒥᒃ ᐱᔭᐃᕙᖃᖅᑐᓂᒃ ᐱᓕᕆᔪᓂᒃ (ᐊᐃᕙᖅ ᐊᖑᓇᓱᒃᑎᖏᑦ). ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ ᑕᑯᔭᐅᖃᑦᑕᖅᓯᒪᔪᑦ ᖃᓂᓪᓕᑕᐃᓕᒪᓂᖏᑦ ᐊᖏᔫᑎᓂᒃ ᓄᓇᒥᒃ ᓴᓇᕙᖃᖅᑐᓂᒃ ᐊᒻᒪᓗ ᐸᒡᕙᓴᐃᔪᓂᒃ ᓲᕐᓗ ᓇᐅᑯᑦ ᖄᖅᑎᕆᕙᓪᓗᒃᑐᓂᒃ ᐳᓚᓕᖓᓂ ᕿᓂᕈᑎᓂᒃ ᑕᕆᐅᕐᒥ ᐃᒪᕐᓂ, ᐊᐅᓚᐅᑎᓕᖓᓂᓗ ᓄᓇᒃᐴᑎᓂᒃ ᐊᒻᒪᓗ ᖁᓕᒥᒨᓕᖓᓂᒃ ᕿᒫᕙᖓᒪᑕ (Riewe 1973; Taylor 2005; ᑲᓇᑕᒥ ᐆᒪᔪᓕᕆᓂᕐᒧᑦ ᐱᔨᑦᑎᕋᐃᓊᑦ 2013; ᐃᑳᕼᐆᑉ ᐊᖑᓇᓱᒃᑏᑦ ᑲᑎᒪᔩᑦ 2013). ᐅᒃᑑᑎᒋᓗᒍ, ᐊᐅᓯᐃᑦᑐᕐᒥ, ᓄᓇᓖᑦ ᑕᑯᖃᑦᑕᖅᑐᑦ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᓂᒃ ᓅᖃᑕᖅᑐᓂᒃ ᓂᕿᒃᓴᑦᑎᐊᖏᓂᖅᓴᐅᔪᓄᑦ ᐅᖅᓱᐊᓗᒃᓭᔭᖅᓯᐅᖅᑐᖃᓇᐊᕋᖓᑦ (ᐊᐃᕙᖅ ᐊᖑᓇᓱᒃᑎᖏᑦ). ᑭᓯᐊᓂᓕᑕᐅᖅ ᐊᔾᔨᖃᑕᖏᓐᓂᑲᑦ ᖃᓄᐃᓕᐅᕈᑎᕆᕚᑕᖏᑦ ᐸᕝᕙᓭᑕᐅᖃᑦᑕᕐᓂᖏᓄᑦ ᐃᓄᐃᑦ ᐱᓕᕆᓂᖏᓐᓄᑦ (Slaney and Co. Ltd. 1974; Slaney and Co. Ltd. 1975; Gunn and Miller 1980; Taylor 2005; ᐃᖃᓗᒃᑐᑦᑎᐊᕐᓂ ᐊᖑᓇᓱᒃᑎᒃᑯᑦ 2013; ᐊᐃᕙᖅ ᐊᖑᓇᓱᒃᑎᖏᑦ; ᖃᐅᓯᐃᑦᑑᑉ ᐊᖑᓇᓱᒃᑎᖏᑦ 2013). ᖃᓂᓪᓕᑕᐃᓕᒪᖃᑦᑕᕐᓂᖏᑦ ᐃᓱᒪᒋᔭᐅᖓᒪᑕ ᐱᐅᖏᑐᒥᒃ ᖃᓄᐃᓕᖓᓕᕈᑕᐅᔫᓇᕐᓂᖅ ᑕᒪᒃᑯᓄᖓ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᓄᑦ, ᐃᓚᖃᕐᒥᖓᒪᑕ ᑎᑭᑕᐅᔫᓇᐃᓕᖃᑦᑕᕐᓂᖏᓐᓂᒃ ᐱᐅᔫᑏᑦ ᓇᔪᓪᓗᕆᕙᓚᐅᖅᑕᖏᑦ (Taylor 2005; ᐊᐃᕙᖅ ᐊᖑᓇᓱᒃᑎᖏᑦ 2013) ᐊᒻᒪᓗ ᐊᑐᖅᑕᐅᔫᓇᐃᓕᕝᖓᓂᖏᓐᓄᑦ ᓇᐅᒃᑰᕝᕕᕆᕚᒃᑕᖏᑦ ᓅᕆᐊᕋᖓᒥᒃ (ᐅᓗᒃᕼᐊᖅᑑᕐᒥᐅᑦ ᐊᖑᓇᓱᒃᑏᑦ ᑲᑎᒪᔩᑦ 2013). ᑐᓴᖅᓴᐅᔪᖃᐃᓈᓗᖕᓂᒃᑕᐅᖅ, ᖃᓂᓪᓕᔭᐅᑕᐃᓕᒪᔾᔪᑕᐅᕝᖓᒥᖅ, ᐃᓱᒪᓘᑕᐅᓗᓂ ᐊᐅᓯᐃᑦᑐᕐᒥᐅᓄᑦ ᓄᓇᓕᖕᓄᑦ (ᐊᐃᕙᖅ ᐊᖑᓇᓱᒃᑎᒃᑯᑦ 2016). ᓴᓇᔭᐅᖃᑦᑕᕐᓂᖏᑦ ᓱᓪᓗᓖ ᐅᖅᓱᐊᓗᒃᓯᐅᕐᓂᕐᒧᑦ ᒐᓴᓖᒃᓴᓄᓪᓗ ᐊᖅᑯᑎᒃᓴᐃᑦ ᓱᕋᐃᓗᑕᐅᒋᐊᑲᓐᓂᕈᓐᓇᕐᒥᔪᑦ ᐆᒪᔪᖃᕐᕙᐅᔫᓇᕐᓂᖅ ᓴᓇᔭᐅᓇᔭᕈᑎᒃ, ᐊᒻᒪᓗ ᐊᒡᕙᐊᕐᖁᑕᐅᓕᕈᓐᓇᖅᓯᑎᒃ ᐅᖓᓯᒃᑐᒧᑦ ᓅᑐᓇᕐᓂᖏᓐᓄᑦ ᑐᒃᑐᐃᑦ (Russell et al. 1979).

ᓄᓇᒥᐅᑕᓂᒃ ᐋᔭᐃᕝᕙᐅᓂᖏᓐᓂ ᐊᒃᑐᖅᑕᐅᓯᒪᔫᓇᖅᐳᑦ ᖃᓄᐃᖏᓐᓂᖏᑦ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ. ᐳᔪᖅᑐᓂᒃ ᐊᒻᒪᓗ ᐳᔪᕐᓗᖕᓂᒃ ᖃᖅᑎᓇᖃᑕᕐᓂᖏᓐᓂᒃ ᑐᒃᑐᓄᑦ ᐋᓂᐊᓕᕈᑕᐅᕙᓪᓕᑕ, ᑐᖁᔾᔪᑕᐅᕙᒃᓯᑎᒃ (Taylor 2005; ᐊᐃᕙᖅ ᐊᖑᓇᓱᒃᑎᖏᑦ; ᖃᐅᓯᐃᑦᑑᑉ ᐊᖑᓇᐊᓱᒃᑎᖏᑦ 2013; ᐃᑳᕼᐆᑉ ᐊᖑᓇᓱᒃᑏᑦ ᑲᑎᒪᔩᑦ 2013). ᐃᓐᓇᑐᖃᐃᑦ ᐃᑳᕼᐅᖏ ᑕᑯᓚᐅᖅᑐᑦ ᑐᒃᑐᒥᒃ ᑐᖁᖓᔪᒥᒃ ᓂᒐᕙᓐᓂᑰᔪᒥᒃ ᐳᓪᓚᓕᖓᓄᑦ ᖁᑭᐅᑎᓄᑦ ᓴᕙᒐᔭᐅᖏᓐᓄᑦ/ᐅᐃᔭᖓᖏᓐᓄᑦ (ᐃᑳᕼᐆᑉ ᐊᖑᓇᓱᒃᑏᑦ ᑲᑎᒪᔩᑦ 2013), ᐃᓄᐃᓪᓗ ᐅᓂᒃᑳᖃᑦᑕᖅᓯᒪᔪᑦ ᑕᐃᔅᓯᒪᓂ ᐅᖅᓱᐊᓗᖕᓂᐊᕐᓂᖏᓐᓂ ᒐᓴᓖᒃᓴᖅᓯᐅᕝᕙᐅᓂᖏᓐᓂᓗ ᐊᖏᔫᑎᐊᓗᖕᓂᒃ ᕿᒪᐃᖃᑕᖅᓯᒪᔪᑦ ᓱᕈᕐᓇᖅᑐᐃᓈᓗᖕᓂᒃ, ᓱᓕ ᐅᓪᓗᒥᒧ ᐅᓗᕆᐊᓇᕈᑕᐅᒃᑐᓂᒃ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᓄᑦ (ᑲᓇᑕᒥ ᐆᒪᔪᓕᕆᓂᕐᒧᑦ ᐱᔨᑦᑎᕋᐃᓊᑦ 2015).

ᓄᓇᒥᐅᑕᓂᒃ ᐱᕙᓪᓕᐊᑐᐃᓐᓇᖃᑕᕈᑎᒃᑕᐅᑦ ᐅᔭᕋᓐᓂᐊᓂᕐᒥᒃ ᐱᕙᓪᓕᐊᑐᐃᓐᓇᕐᓂᐊᕐᒥᔪᑦ ᐱᑕᖃᕐᓂᖅᓴᐅᓕᕈᓐᓇᕐᓂᖏᓐᓄᑦ ᐅᒥᐊᕐᔪᐊᑦ, ᐅᓗᕆᐊᓇᕐᒪᑕ ᑕᒪᒃᑯᐊ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᓐᓄᑦ ᐃᑳᕈᓐᓇᖃᑕᕐᓂᖏᓐᓄᑦ ᕿᑭᖅᑕᒐᓴᐃᑦ ᐊᑯᓐᓂᖓᒍᑦ (ᑕᑯᓗᒋᑦ ᑎᑎᕋᖅᓯᒪᓂᖏᓐ 4.2.3-ᒥ ᑕᕆᐅᑉ ᐃᒫᒍᑦ ᐃᖏᕐᕋᕝᑐᑦ).

ᐊᒃᑐᖅᑕᐅᓯᒪᕐᔪᐊᕈᓐᓇᕆᕗᑦ ᓄᓇᒥᐅᑕᓂᒃ ᐋᔭᐃᕙᐅᕙᓪᓕᐊᓂᖏᓐᓂᒃ ᐱᕙᓪᓕᐊᑐᐃᓐᓇᕈᑎᒃ ᐱᒻᒪᕆᐅᔪᓂᒃ ᐱᐅᖏᑦᑐᒥᒃ ᓄᓇᒥᑦᑐᑦ ᑕᒪᑯᐊ ᐊᒃᑐᖅᑕᐅᓴᕋᐃᑦᑐᕙᖕᓂᖏᑦ (ᓲᕐᓗ ᐆᒃᑐᑎᒋᓗᒍ ᓄᕐᓇᕙᖏᓐᓂ ᐃᑳᕼᐆᑉ ᕿᑭᖅᑕᖓᓂ, ᐆᒪᔪᐃᑦ ᐊᒥᓲᖏᓗᐊᕐᓂᖏᓐᓄᑦ ᑲᑎᒪᔨᕋᓛᑦ 2012; ᐃᑳᕼᐆᑉ ᐊᖑᓇᓱᒃᑏᑦ ᑲᑎᒪᔩᑦ 2013, 2016), ᐊᒥᓱᓂᒡᓗ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖃᕐᕕᐅᕙᖕᓂᖏᑦ (ᑲᓇᑕᒥ ᐆᒪᔪᓕᕆᓂᕐᒧᑦ ᐱᔨᑦᑎᕋᐃᓊᑦ 2013), ᐅᕝᕙᓘᓐᓃᑦ ᐱᑕᖃᓇᐊᓕᒻᒪᕆᖕᓂ ᐊᑐᖅᑕᐅᖃᑦᑕᖅᑐᓂ ᐱᐅᓯᕐᒥᓂ ᐊᑐᕐᓂᖏᓐᓂ ᑐᒃᑐᐃᑦ ᓲᕐᓗ ᓄᕐᓇᕙᓪᓕᐊᖃᑦᑕᕐᓂᖏᓐᓂ ᐅᕝᕙᓘᓐᓃᑦ ᓂᕿᒃᓴᖃᑦᑎᐊᕈᓐᓂᖅᓯᒪᓂᖏᓐᓂ ᓄᓇᒥ (ᑕᓗᕐᔪᐊᑉ ᐊᖑᓇᓱᒃᑎᒃᑯᑦ 2016). ᐆᒪᕐᖁᑎᒃᓴᓕᐅᕐᕕᐅᕙᒃᑐᑦ ᐊᒻᒪᓗ ᐅᔭᕋᓐᓂᐊᕐᕕᐅᕙᒃᑐᑦ ᐃᓕᑕᕆᔭᐅᓯᒪᓪᓚᓗᐊᖅᑎᓪᓗᒋᑦ ᑕᒪᐃᓐᓂ ᐊᑦᑎᒃᑐᒦᓐᓂᕋᖅᑕᐅᕙᓐᓂᖅ ᐊᒃᑐᖅᓯᖃᑕᐅᓇᕐᓂᖏᓐᓂ, ᒫᓇᐅᔪᖅ ᐱᑕᖃᓗᐊᓲᖑᖏᓐᓂᖏᓐᓂ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖃᕐᕕᐅᕙᒃᑐᓂ, ᐅᓗᕆᐊᓇᕈᑕᐅᔫᓇᕐᓂᖏᑦ ᑕᒪᒃᑯᐊ ᐱᐅᖏᑦᑐᒻᒪᕆᐊᓘᔫᓇᖅᐳᖅ.

ᐅᓂᒃᑳᓯᒪᑦᑎᐊᒃᑲᓂᖅᑐᓂᒃ ᑕᑯᔪᒪᒍᕕᑦ ᐅᓗᕆᐊᓇᕐᓂᖏᓐᓂᒃ ᐆᒪᕐᖁᓯᐅᕐᕕᑦ ᐊᒻᒪᓗ ᐅᔭᕋᓐᓂᐊᕐᕕᑦ ᐱᔾᔪᑕᐅᓂᖏᓐᓂ, ᑕᑯᓂᐊᖅᐸᑎᑦ ᑎᑎᖃᐃᑦ ᐃᓚᒃᑲᓂᖏᑦ II-ᒥᑦᑐᑦ Johnson et al. (2016).

4.2.5. ᐃᓄᐃᑦ ᐊᒡᕕᐊᕐᑯᑕᐅᓂᖏᑦ ᐊᒻᒪᓗ ᐸᒡᕕᓴᖃᑕᕐᓂᖏᑦ (ᓄᓇᕐᔪᐊᕐᒥ ᓴᐳᓐᓂᐊᖅᑏᑦ ᐃᓚᒌᒃᑐᑦ ᐅᓗᕆᐊᓇᕐᓂᖏᑦ 6)

ᐃᓄᐃᑦ ᐊᒡᕕᐊᕐᑯᑕᐅᕙᓂᖏᑦ ᐱᓕᕆᓂᖏᓐᓄᑦ ᐃᖃᓇᐃᔭᕐᓂᕐᒧᑦ ᐊᒻᒪᓗ ᐃᕿᐊᖑᐃᔾᐅᑎᖃᕐᓂᖏᓐᓄᑦ ᐊᒥᓲᕈᖅᐸᓕᐊᖓᑕ ᐊᑐᖅᑕᐅᕙᓪᓕᐊᓂᖏᑦ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖃᕐᕕᐅᕙᓂᖏᓐᓂ. ᑕᒪᑯᐊ ᐱᔾᔪᑕᐅᓕᖅᑐᑦ ᐊᒥᓱᓂᖅᓴᐅᕙᓕᕐᓂᖏᑦ ᐃᖏᕋᕙᓕᖅᑐᑦ ᓯᑭᑑᒃᑯᑦ, Hᐋᓐᑕᒃᑯᑦ (ᓯᑕᒪᓕᒃᑯᑦ), ᕐᑯᓕᒥᒨᓕᒃᑯᑦ, ᖃᖓᑕᓲᒃᑯᑦ ᐊᒻᒪᓗ ᐊᔾᔨᓕᐅᕈᑎᓕᓐᓂᒃ ᖃᖓᑕᑎᑕᐅᔪᓇᖅᑐᓂᒃ, ᐸᒡᕕᓴᒍᑕᐅᔪᓐᓇᖅᑐᓂᒃ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖕᖏᓐᓂᒃ. ᐊᒥᓱᑦ ᓄᓇᓖᑦ ᐅᖃᐅᓯᖃᖅᓯᒪᔪᑦ ᐃᓱᒪᓘᑖᐅᓂᖏᓐᓂᒃ ᑐᓵᖅᓴᐅᔪᖃᐃᓐᓇᓄᐊᖃᑕᕐᓂᖕᖓᓂᒃ. ᓂᐱᖅᑯᖅᑐᓂᖏᓐᓂ ᐊᒻᒪᓗ ᑐᓴᖅᓴᐅᖏᓇᕐᓂᖏᓐᓂ), ᑎᖏᕚᑦ ᐊᑦᑎᓈᕈᓐᓇᕐᓂᖏᑦ ᐊᒻᒪᓗ ᖃᖓᐅᕙᓂᖏᑦ ᐊᒃᑐᖅᓯᔪᓐᓇᖅᑐᑦ ᖃᓄᐃᖏᓂᖏᓐᓂᒃ ᑐᒃᑐᐃᑦ (ᐃᖃᓗᒃᑑᑦᑎᐊᕐᓂ ᐊᖑᓇᓱᒃᑎᒃᑯᑦ 2016; ᖁᑕᐃᕈᕐᔪᐊᑉ ᐊᖑᓇᓱᒃᑎᒃᑯᑦ 2016; ᐅᓗᒃHᐊᖅᑑᕐᒥᐅᑦ ᐊᖑᓇᓱᒃᑏᑦ ᑲᑎᒪᔨᕋᓛᖏᑦ 2016; ᐃᑳHᐆᑉ ᐊᖑᓇᓱᒃᑏᑦ ᑲᑎᒪᔨᕋᓛᖏᑦ 2016; ᑕᓗᕐᔪᐊᑉ ᐊᖑᓇᓱᒃᑎᒃᑯᑦ 2016). ᐊᒡᓚᑦ ᑕᒪᑯᐊ ᐱᓕᐊᖑᕙᓂᖏᑦ ᖃᓂᒡᓕᑕᐃᓕᒪᓕᕈᑕᐅᕝᑯᑎᒃ ᐅᕝᕙᓗᓐᓃᑦ ᓂᕿᒃᓴᓂᒍᓐᓇᐃᓕᓗᑕᐅᒍᑎᒃ, ᑐᒃᑐᓄᑦ ᐊᒃᓯᕈᑕᐅᒃᑲᓐᓂᕈᓐᓇᖅᑐᑦ ᐱᓇᓱᐊᕆᐊᖃᕐᓂᖏᓐᓄᑦ (Weladji and Forbes 2002). ᐃᖃᓗᒃᑑᑦᑎᐊᕐᒥᐅᑦ ᓄᓇᓖᑦ ᐃᓱᒪᓘᑎᖃᕐᒥᔪᖅ ᐊᑐᖅᑕᐅᕙᓂᖏᓐᓂᒃ ᐊᑲᐅᓂᖅᐹᖑᒐᓗᐊᕐᒪᖔᑕ ᖃᑕᓲᑦ (ᓲᕐᓗ ᐆᒃᑐᑎᒋᓗᒍ ᐊᒃᑐᖅᑕᐅᓗᐊᕆᓐᒃᑯᑎᖃᕐᓗᑎᕐ ᖁᓕᒥᒨᓕᖕᓄᑦ ᖃᖓᑕᓲᕐᓄᓪᓗ ᑎᖏᕚᕐᓄᑦ ᑐᓴᖅᓴᐅᓂᖏᓐᓂᒃ ᐊᒻᒪᓗ ᐱᑕᖃᓱᖑᓂᖏᓐᓂ, ᐊᑎᓈᓗᐊᖅᑕᐃᓕᒪᑎᑕᐅᖃᑕᕐᓗᑎᒃ ᐊᒻᒪᓗ ᖃᓂᒡᓕᒃᑎᑕᐅᑦᑕᐃᓕᒪᖃᑕᕐᓗᑎᒃ ᑕᒪᒃᑯᓄᖕᖓ ᐆᒫᔪᓂᒃ ᖃᖓᑕᓂᖏᓐᓂ) ᑕᒪᒃᑯᐊᓗ ᒪᓕᒐᖃᕈᐃᓖᒍᐊᑦ ᒪᓕᒃᑕᐅᔪᐃᓐᓇᖅᓯᒪᖏᒪᑕ ᐱᓕᕆᔨᐅᔪᓄᑦ ᐅᔭᕋᖕᓂᐊᕐᕕᖕᓂ ᐅᕝᕙᓗᓐᓃᑦ ᐊᑯᑎᖏᓐᓂ ᖃᖓᔫᓂ (ᐃᖃᓗᒃᑐᑦᑎᐊᕐᓂ ᐊᖑᓇᓱᒃᑎᒃᑯᑦ 2016).

ᐃᓄᐃᑦ ᐊᐅᓯᐃᑦᑐᕐᒥ ᐊᒻᒪᓗ ᖃᐅᓯᐃᑦᑐᕐᒥ ᐅᖃᐅᓯᖃᖅᓯᒪᖏᔫᑦ ᐃᓱᒪᓘᑎᕆᔭᖏᓐᓂᒃ ᖃᐅᔨᓴᖅᑎᓄᑦ ᐱᐅᓯᕆᔭᐅᕙᓂᖏᓐᓂᒃ ᓲᕐᓗ ᐊᖑᔭᐅᖃᑕᕐᓂᖏᓐᓂᒃ ᐆᒪᔪᐃᑦ ᐊᒻᒪᓗ ᖁᖓᓯᕈᑦᑎᖅᑕᐅᕙᓂᖏᓐᓂᒃ ᐱᐅᖏᑦᑐᒥᒃ ᐊᒃᑐᐃᕙᓂᖏᓐᓂᒃ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᓐᓂᒃ. ᑲᒪᒋᔭᐅᕙᓂᖏᑦ ᑐᒃᑐᐃᑦ ᐊᒃᓯᐊᓗᒃ ᐱᕐᑯᔭᐅᕙᖏᒻᒪᑕ ᐃᓄᖕᓄᑦ (ᐊᐃᕕᖅ ᐊᖑᓇᓱᒃᑎᖏᑦ; ᖃᐅᓯᐃᑦᑑᑉ ᐊᖑᓇᓱᒃᑎᖏᑦ 2013), ᓱᓕᔪᓇᔭᐅᓪᓗᑎᒃ ᐱᐅᔪᓐᓃᕈᑕᐅᖃᑕᕐᓂᖏᓐᓄᑦ ᖃᓄᐃᖏᓂᖏᓐᓄᑦ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᓄᑦ, ᑕᐃᒪᐃᓂᖓᓄᓪᓗ ᕿᒪᓯᕙᒻᒪᑕ ᑐᒃᑐᐃᑦ ᑕᐅᕙᖓᑦ, ᐊᓯᔾᔨᕈᑕᐅᔪᓇᖅᓱᑎᒡᓗ ᐱᐅᓯᕙᓚᐅᖅᑕᖏᓐᓄᑦ ᐅᕝᕙᓗᓐᓃᑦ ᓈᒻᒪᒍᓐᓂᕈᑕᐅᔪᓇᕐᒪᑕ ᑎᒥᖏᓐᓂ ᖃᓄᐃᓚᐅᖏᑎᓪᓗᒋᑦ, (ᑲᓇᑕᒥ ᐆᒪᔪᓕᕆᓂᕐᒧᑦ ᐱᔾᑦᑎᑫᐃᔾᔾᑦ 2013; ᐊᐃᕕᖅ ᐊᖑᓇᓱᒃᑎᖏᑦ; ᖃᐅᓯᐃᑦᑑᑉ ᐊᖑᓇᓱᒃᑎᖏᑦ 2013). ᓄᓇᕗᑦ ᒐᕙᒪᐃᑦ ᐊᒻᒪᓗ ᓄᓇᑦᓯᐊᑉ ᒐᕙᒪᐃᑦ ᓄᓇᓕᖕᓂ ᐱᓕᕆᖃᑎᖃᕐᒪᑕ ᐊᑐᓕᖅᑎᑦᑎᕙᓕᐊᔪᒪᓂᖅ ᐃᓱᒪᓘᑎᒋᔭᖏᓐᓂᒃ ᑕᒪᒃᑯᓄᖓ ᖃᐅᔨᓴᖅᑎᓄᑦ ᐱᓕᕆᐊᕆᔭᐅᕙᓂᖏᓐᓂᒃ ᐊᒻᒪᓗ ᒫᓇᐅᓕᖅᑐᖅ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ ᖁᖓᓯᕈᑦᑎᖅᑕᐅᓯᒪᖏᑦᓯᒋᑦ. ᖃᐅᔨᓴᕈᑎᓂᒃ ᐃᓕᐅᖃᐃᔭᓂᖅᑐᑦ ᖁᖓᓯᕈᑎᓂᒃ ᓄᓇᕘᒥ ᑕᒫᓂ ᐊᓂᒍᖅᑐᓂ 18-ᖑᓕᖅᑐᓂ ᐊᕐᕌᒍᓂ (ᓇᖕᒥᓂᖅ ᐅᖃᐅᓯᕆᔭᖏᑦ M. Anderson, 2016).

ᐊᕐᕌᒍᓕᒫᖅ ᐅᓇᖅᑐᒃᓴᐃᑦ ᐆᒃᑐᕋᖃᑕᕐᓂᖏᑦ, ᐱᓗᐊᖅᑐᒥᒃ ᐅᒥᐊᕐᔪᐊᒃᑯᑦ ᓄᓇᒥᑐᓂᒡᓗ, ᐊᑐᖅᑕᐅᕙᓕᐊᑐᐃᓐᓇᓕᖅᑐᑦ ᐊᒥᓲᖅᑕᖅᑕᐅᕙᓕᐊᓗᑎᒃ ᑕᐅᕙᓂ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖃᕐᕕᐅᕙᓂᖏᓐᓂ, ᐅᓇᑕᖅᑐᒃᓴᐃᑦ ᐅᖓᓯᒃᑐᐊᓗᖕᓄᑦ ᑲᔪᓯᕙᒃᓯᑎᒃ ᕿᑭᖅᑕᓚᓴᐃᑦ ᐊᑯᓐᓂᖏᓐᓂ. ᑕᒪᒃᑯᐊ ᐱᓕᕆᐊᖑᕙᒃᑐᑦ ᐸᒡᕕᓴᒍᑕᐅᔪᓇᖅᑐᑦ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ (ᖃᐅᓯᐃᑦᑑᑉ ᐊᖑᓇᓱᒃᑎᖏᑦ 2013). ᑑᓴᔭᐅᔪᓇᕐᓂᖏᑦ, ᐃᒃᐱᒋᔭᐅᔪᓇᕐᓂᖏᑦ ᐅᓇᖅᑐᒃᓴᓄᑦ ᐆᒃᑐᕌᑕᐅᕙᒃᑐᑦ ᐊᑐᖅᑕᐅᕐᓂᖏᓐᓂ ᐱᒻᒪᕆᐅᔪᓂᒃ ᐊᒃᑐᐃᕙᖕᒪᑕ ᐆᒪᔪᐃᑦ ᐊᑐᖅᐸᒃᑕᖏᓐᓂ ᐊᑐᓕᖅᑎᓪᓗᒋᑦ ᑕᒪᑯᐊ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ, ᑕᒪᒃᑯᐊᓗ ᐃᓱᒪᒋᑕᐅᓂᖏᑦ ᓇᓗᓇᐃᖅᑕᐅᖃᑕᓚᐅᖅᑐᑦ (ᐃᖃᓗᒃᑑᑦᑎᐊᕐᓂ ᐊᖑᓇᓱᒃᑎᒃᑯᑦ 2016).

ᕿᑭᖅᑕᓗᓴᐃᑦ ᑎᑭᑕᐅᖃᑕᕐᓂᖏᑦ ᐳᓚᕋᑦᑎᓄᑦ ᐱᕙᓪᓕᐊᑐᐃᓐᓇᖅᐳᑦ, ᐸᒡᕕᓴᒍᑕᐅᔪᓇᖅᑐᑦ ᑐᒃᑐᓂᒃ ᐊᒻᒪᓗ/ᐅᕝᕙᓗᓐᓃᑦ ᓇᓚᔪᖅᐸᒃᑕᖏᓐᓂ, ᑕᒪᐃᓐᓂᓕᒫᑲᓴᑦᑎᐊᖅ ᓇᐅᑦᑎᖅᑐᐃᔭᖃᖅᑎᑕᐅᕙᓚᑎᑦ ᑎᑭᐸᒃᑐᑦ ᐳᓚᕋᑏᑦ (ᑲᓇᑕᒥ ᐆᒪᔪᓕᕆᓂᕐᒧᑦ ᐱᔾᑦᑎᑫᐃᔾᔾᑦ 2015). ᐃᓚᖏᓐᓂ ᓄᓇᓕᖕᒥ ᐅᖃᐅᓯᐅᓚᐅᑦ ᐱᕙᓪᓕᐊᑐᐃᓐᓇᓚᖓᓂᖏᓐᓂᒃ ᓂᕆᐅᖕᓂᖏᓐᓂᒃ ᐊᕐᕿᒍᒐᓴᐅᓂᐊᓕᖅᑐᓂ ᖃᐅᓯᐃᑦᑑᑉ ᑲᓇᑕᓕᒫᒥ ᒥᕐᖑᐊᖅᓯᕐᕕᖓᓂ ᑕᐅᕙᓂ ᑐᒃᑐᓕᐊᕐᕕᐅᑉ ᕿᑭᖅᑕᖓᓂ (ᖃᐅᓯᐃᑦᑑᑉ ᐊᖑᓇᓱᒃᑎᖏᑦ 2016). ᓄᓇᓖᑦᑕᐅᖅ ᐅᖃᐅᓯᖃᓚᐅᖅᑐᑦ ᐱᒻᒪᕆᐅᓂᖏᓐᓂᒃ ᐃᓕᑕᕆᔭᐅᔭᕆᐊᖃᕐᓂᖏᓪᓗ ᐱᑕᖃᕆᐊᓕᒪᕆᓐᑦ ᓄᓇᖏᑦ ᓲᕐᓗ ᓄᕐᕆᕖᖏᑦ ᐊᒻᒪᓗ ᓇᐅᒃᑰᕐᕕᕆᕙᒃᑕᖏᑦ ᐸᒡᕕᓭᑕᐅᑦᑕᐃᓕᕐᑯᓪᓗᒋᑦ ᓯᕗᓂᒃᓴᒥᒃ ᑲᓇᑕᓕᒫᒥ ᒥᕐᖑᐃᖅᓯᕐᕕᓕᐊᖅᐸᒃᑐᓄᑦ. (ᖃᐅᓯᐃᑦᑑᑉ ᐊᖑᓇᓱᒃᑎᖏᑦ 2016). ᐃᓱᒪᒋᑕᐅᖃᑕᕐᒪᑕ ᐊᒥᓲᓗᐊᖅᑐᑦ ᐃᓄᐃᑦ ᑎᑭᑉᐸᒃᑐᑦ, ᐳᓚᕋᑦᑎᐅᔪᑦ, ᖃᐅᔨᓴᖅᑏᓪᓗ, ᖃᐅᔨᓇᓱᐊᖅᑎᐅᕝᕙᒃᑐᓪᓗ ᐊᔾᔨᓖᖏᑦᑐᓂᒃ ᐃᖃᓇᐃᔭᖅᐸᒃᑐᑦ, ᓄᓇᒨᖓᐅᕙᖓᑕ ᓯᓚ ᐅᕐᑰᓇᕐᓂᖅᓴᐅᓂᖓᓂ, ᑕᒪᒃᑯᐊᓗ ᐅᖃᐅᓯᐅᓪᓗᑎᒃ ᐱᒻᒪᕆᐊᓗᖕᓂᒃ ᐸᒡᕕᓴᒍᑕᐅᕙᓂᖏᓐᓂᒃ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ (ᐅᖅᓱᖅᑑᑉ ᐊᖑᓇᓱᒃᑎᒃᑯᑦ 2016).

ᑐᑭᓯᒋᐊᑎᐊᒃᑲᓐᓂᕈᒪᒍᕕᑦ ᐊᒃᑐᖅᑕᐅᖃᑕᕐᓂᖏᓐᓂ ᑕᒪᒃᑯᓄᖓ ᐃᖏᕋᔾᔪᑕᐅᕙᒃᑐᓄᑦ ᐃᓄᖕᓄᓪᓗ ᑕᑯᓂᐊᖅᐸᑎᑦ ᑎᑎᖃᐃᑦ ᐃᓚᒃᑲᓂᖏᑦ II-ᒥᑦᑐᑦ Johnson et al. (2016).

4.2.6. ᐅᒪᔪᖅᓯᐅᖅᑕᐅᕙᖕᓂᖏᑦ (ᓄᓇᕐᔪᐊᕐᒥ ᓴᐳᓐᓂᐊᖅᑏᑦ ᐃᓚᒌᒃᑐᑦ ᐅᓗᕆᐊᓇᕐᓂᖏᑦ 5) ᐊᖑᓇᓱᖕᓂᖅ ᐊᒻᒪᓗ ᑲᑎᖅᓱᐃᕙᖕᓂᖅ (ᓄᓇᕐᔪᐊᕐᒥ ᓴᐳᓐᓂᐊᖅᑏᑦ ᐃᓚᒌᒃᑐᑦ ᐅᓗᕆᐊᓇᕐᓂᖏᑦ 5.1)

ᕿᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ ᐱᒻᒪᕆᐊᓗᖕᒥ ᐃᓚᒋᔭᐅᕗᑦ ᐃᓄᐃᑦ ᐊᒻᒪᓗ ᐃᓄᕕᐊᓗᐃᑦᓗ ᐃᓕᖅᑯᓯᑐᖃᖏᓐᓄᑦ ᐊᒻᒪᓗ ᐃᓅᔾᔪᑎᒃᓴᖏᓐᓄᑦ ᐅᑭᐅᖅᑕᖅᑐᒥ, ᑕᐃᒪᐃᓕᖓᓚᒥᒃ ᑕᒪᓂ ᐅᖓᑖᓃᓗ 4,000-ᓂᒃ ᐊᕐᕿᒍᓂᒃ (Meldgaard 1960; Fitzhugh 1976; Manseau et al. 2005; Howse 2008; Friesen 2013). ᑕᐃᒃᑯᐊ ᐃᓄᕕᐊᓗᐃᑦ ᑭᖑᓪᓕᕐᒥ ᐊᖏᕈᑎᖏᑦ ᓄᓇᑖᕈᑎᒥᓄᑦ (1984) ᐊᒻᒪᓗ ᓄᓇᕗᒻᒥ ᓄᓇᑖᕈᑎᓂᒃ ᐊᖏᕈᑏᑦ (1993) ᐃᓕᑕᖅᓯᓯᒪᕗᑦ ᓄᓇᓕᑐᖃᐃᑦ ᐱᔪᓇᐅᑎᖏᓐᓂᒃ ᐊᖑᓇᓱᒍᓐᓇᕐᓂᖅ, ᐊᒥᐊᒃᑯᓯᒪᐃᓐᓇᕐᓗᑎᒃ ᐊᒻᒪᓗ ᐃᓄᓕᒫᓄᑦ ᐅᓗᕆᐊᓇᕐᓂᖃᖏᓪᓗᑎᒃ. ᑕᒃᑯᐊᒃ ᒪᕐᕉᒃ ᓄᓇᑖᕈᑎᓄᑦ ᐊᖏᕈᑏᒃ ᐱᑕᖃᕈᑕᐅᕗᑦ ᐱᒻᒪᕆᐅᔪᓂᒃ ᐅᒪᔪᓕᕆᓂᕐᒥᒃ ᐊᐅᓚᑦᑎᔪᓐᓇᕐᓂᖅ ᑕᐃᒃᑯᓄᖓ ᐆᒪᔪᐃᑦ ᐊᐅᓚᑕᐅᕙᖕᓂᖏᓐᓄᑦ ᐅᖃᐅᔾᔨᕖᐊᖅᑏᑦ ᑲᑎᒪᔨᖏᓐᓄᑦ (ᓄᓇᑦᓯᐊᕐᒥ) ᐊᒻᒪᓗ ᓄᓇᕗᒻᒥ ᐆᒪᔪᓕᕆᔨᕐᔪᐊᑯᑦ ᑲᑎᒪᔨᖏᑦ (ᐆᒪᔪᓕᕆᔨᕐᔪᐊᒃᑯᓐᓄᑦ) ᑖᒃᑯᓂ ᕿᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖃᕐᕕᐅᓂᖏᓐᓂ. ᐆᒪᔪᓕᕆᓂᕐᒥᒃ ᐊᐅᓚᑦᑎᔨᑦ ᐊᐅᓚᑦᑎᔨᖏᑦ ᐊᑐᓕᕐᑯᔭᓕᐅᕈᓐᓇᖅᐳᑦ ᒪᓕᒃᐅᕐᑯᔭᖏᓐᓂᒃ ᐊᖑᓇᓱᒃᑕᐅᔫᓇᕐᓂᖏᓐᓄᑦ ᒪᓕᒃᑲᕐᓂᒃ ᐊᕙᒃᑐᖅᓯᒪᓂᖏᓐᓂ ᒥᓂᒃᑕᖓᓄᑦ ᕿᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᓕᕆᓂᕐᒧᑦ ᐅᔾᔨᖅᑐᑦᑎᐊᕐᑯᓪᓗᒋᑦ ᐊᖑᓇᓲᕕᐅᔫᓇᕐᓂᖏᑦ ᐊᒥᐊᒃᑯᔭᐅᓯᒪᐃᓐᓇᕆᐊᖃᕐᓂᖏᑦ ᑐᒃᑐᖏᓐᓂ, ᑕᐃᒃᑯᐊᓗ ᓄᓇᓕᖕᓂ ᐊᐅᓚᑦᑎᔨᐅᕙᒃᑐᑦ, ᓱᕐᓗ ᐊᖑᓇᓱᒃᑏᑦ ᑲᑎᒪᔨᕋᖏᑦ ᐊᒻᒪᓗ ᑲᑐᔾᔨᖃᑎᒌᖏᑦ, ᐊᖑᓇᓱᒃᑕᐅᔫᓇᕐᓂᖏᓐᓂᒃ ᑐᑭᓕᐅᖅᑎᐅᕙᖓᑕ ᐃᓚᓕᐅᑎᓯᒪᔪᓄᑦ.

ᐊᖑᓇᓱᒃᑕᐅᓗᐊᖃᑦᑕᕐᓂᖏᓐᓂ ᑕᐃᔅᓯᒪᓂ ᐱᔾᔪᑎᕙᓂᐅᖓᑕ ᐊᒥᓲᔫᓂᖅᓯᒪᓂᖏᓐᓄᑦ ᕿᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ, ᑕᐃᑯᐊᓗ ᐃᓕᒋᔭᐅᓗᑎᒃ ᔪᐊᙵᕐᒥᐅᑦ ᖃᓗᓈᑎ ᑎᑭᓯᒪᓂᖏᓐᓂ ᓲᕐᓗ ᕿᔮᑦ ᐱᐅᙱᑐᑦ ᐱᒋᐊᓕᓵᕐᓂᖏᓐᓂ ᐊᕐᕌᒍᐃᑦ 1900-ᖏᓐᓂ (Petersen et al. 2010). ᐊᒥᓲᖓᑕ ᕿᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖃᕐᕕᐅᔪᑦ ᑎᑭᑕᐅᔫᓇᖃᖏᑦᑕᖏᑦᑐᑦ ᐊᖑᓇᓱᒃᑎᓄᑦ ᓯᑭᑑᒃᑯᑦ (ᑲᓇᑕᒥ ᐆᒪᔪᓕᕆᓂᕐᒧᑦ ᐱᔨᑦᑎᕋᐃᔩᑦ 2013; ᐃᖃᓗᒃᑐᑦᑎᐊᕐᓂ ᐊᖑᓇᓱᒃᑎᒃᑯᑦ 2013; ᐅᓗᒃᕼᐊᖅᑑᕐᒥᐅᑦ ᐊᖑᓇᓱᒃᑏᑦ ᑲᑎᒪᔨᕋᓛᖏᑦ 2013; ᐃᑳᕼᐃᐅᑉ ᐊᖑᓇᓱᒃᑏᑦ ᑲᑎᒪᔨᕋᓛᖏᑦ 2013; ᑳᓱᐃᒃᑯᑦ ᑲᑎᒪᔨᕋᓛᖏᑦ 2015) ᐊᒻᒪᓗ ᐊᖑᓇᓲᕕᐅᖃᑦᑕᕐᓂᖏᓐᓂ ᐱᓗᐊᖅᑐᒥᒃ ᑕᒫᓂᖃᑦᑕᖅᑐᓂ 80 km ᑭᓛᒥᑕᓂᒃ ᐅᖓᓯᖕᓂᓕᖕᓂ ᓄᓇᓕᖕᓂ ᓇᓕᐊᖕᓂᑐᐃᓐᓇᖅ (ᐃᑳᕼᐃᐅᑉ ᐊᖑᓇᓱᒃᑏᑦ ᑲᑎᒪᔨᕋᓛᖏᑦ 2013). ᐊᒻᒪᑕᐅᖅ, ᐊᒥᓲᖏᒻᒥᔪᑦ ᓄᓇᓖᑦ ᐅᐊᖕᓇᖅᐸᓯᐅᓂᖅᐹᖓᓃᑦᑐᑦ ᕿᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖃᕐᕕᐅᓂᕐᒥ, ᐃᓄᖃᕐᕕᐅᖏᑐᓐᒪᑕ. ᑕᒪᒃᑯᐊ ᐱᔾᔪᑕᐅᓗᑎᒃ, ᐃᓄᐃᑦ ᐊᒻᒪᓗ ᐃᓄᕕᐊᓗᐃᑦ ᐊᖑᓇᓱᒃᐸᖕᓂᖏᑦ ᐃᓱᒪᒋᔭᐅᕙᖏᑦᑐᑦ ᐅᓗᕆᐊᓇᕈᑕᐅᕙᖕᓂᖅ ᕿᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᐃᑦ ᒫᓇᐅᔪᖅ ᐊᐅᓚᑕᐅᕙᖕᓂᖏᓐᓂ ᖃᓄᐃᓕᖓᓂᖏᓐᓂ (ᐃᖃᓗᒃᑐᑦᑎᐊᕐᓂ ᐊᖑᓇᓱᒃᑎᒃᑯᑦ 2013; ᐅᖅᓱᖅᑑᑉ ᐊᖑᓇᓱᒃᑎᖏᑦ 2013; ᐅᓗᒃᕼᐊᖅᑑᕐᒥᐅᑦ ᐊᖑᓇᓱᒃᑏᑦ ᑲᑎᒪᔨᕋᓛᖏᑦ 2013; ᐸᐅᓗᑑᑉ ᐊᖑᓇᓱᒃᑏᑦ ᑲᑎᒪᔨᕋᓛᖏᑦ 2013; ᖃᐅᓯᐃᑦᑑᑉ ᐊᖑᓇᓱᒃᑎᖏᑦ 2013; ᑕᓗᕐᔪᐊᑉ ᐊᖑᓇᓱᒃᑎᖏᑦ 2013; ᑲᓇᑕᒥ ᐆᒪᔪᓕᕆᓂᕐᒧᑦ ᐱᔨᑦᑎᕋᐃᔩᑦ 2015).

ᓄᓇᓖᑦ ᑕᒪᐃᓐᓂ ᖃᐅᔨᖃᑦᑕᖅᓯᒪᔪᑦ ᐊᔪᕐᓇᖅᑎᑕᐅᓂᖏᓐᓂ ᑐᒃᑐᕝᕕᐅᔫᓇᕐᓂᖏᓐᓂᒃ ᐊᒥᓱᕈᓇᐊᕈᑕᐅᓗᐊᖅᓯᒪᖏᑦᑐᑦ ᕿᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᓂᒃ, ᐃᓱᒪᓇᖅᓱᓂ ᐊᖑᓇᓲᕕᐅᕙᖕᓂᖏᑦ ᐱᔾᔪᑕᐅᖏᓐᓂᖅ ᕿᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᐃᑦ ᐱᑕᖃᕐᓂᖏᓐᓄᑦ ᐊᒥᓲᓂᖏᓐᓄᑦ (ᑲᓇᑕᒥ ᐆᒪᔪᓕᕆᓂᕐᒧᑦ ᐱᔨᑦᑎᕋᐃᔩᑦ 2013). ᑕᒪᒃᑯᐊ ᐅᒃᐱᓇᔭᐅᕙᓗᐊᖅᓱᑎᒃ, ᑐᒃᑐᓯᐅᕐᕕᐅᓗᐊᖃᑦᑕᖏᑐᑦ ᑕᒪᐃᓐᓂᓕᒫᑲᒃᓴᒃ ᐱᑕᖃᕐᕕᐅᓂᖏᓐᓂ(ᐊᐃᕙᖅ ᐊᖑᓇᓱᒃᑎᖏᑦ; ᐸᐅᓗᑑᑉ ᐊᖑᓇᓱᒃᑏᑦ ᑲᑎᒪᔨᕋᓛᖏᑦ 2013; ᐃᑳᕼᐃᐅᑉ ᐊᖑᓇᓱᒃᑏᑦ ᑲᑎᒪᔨᕋᓛᖏᑦ 2013; ᑳᓱᐃᒃᑯᑦ ᑲᑎᒪᔨᕋᓛᖏᑦ 2015). ᐃᓚᖏᑦ ᐊᖑᓇᓱᒃᑎᒃᑯᑦ ᐃᓱᒪᖅᓱᖅᓱᑎᒃ ᐃᖕᒥᓃᓐᓇᖅ ᐊᖑᓇᓱᒃᑎᑦᑎᑕᐃᓕᓯᒪᔪᑦ ᐊᒥᓱᓂᒃ ᐊᕐᕿᒎᓂᒃ ᐊᒥᓱᕈᖅᓯᐊᕆᓪᓗᒋᑦ ᑐᒃᑐᐃᑦ, ᐊᒻᒪᓗ ᐋᕿᒋᐊᕆᖃᑦᑕᖅᓯᒪᓗᑎᒃ ᑐᒃᑐᓯᐅᕝᕕᐅᔫᓇᕐᓂᖏᓐᓂᒃ ᒪᓕᒃᑐᓂᒃ ᐊᒥᓲᓂᖏᑦ ᑐᒃᑐᖏᑦ (Larter and Nagy 2000a; ᑳᓱᐃᒃᑯᑦ ᑲᑎᒪᔨᕋᓛᖏᓐᓄᑦ 2004; Gunn 2005; Taylor 2005; ᓄᓇᕗᑦ ᒐᕙᒪᒃᑯᖏᑦ 2014; ᑳᓱᐃᒃᑯᑦ ᑲᑎᒪᔨᕋᓛᖏᑦ 2015). ᐊᑕᐅᓯᕐᒥᒃ ᐆᒃᑑᑎᒃᓴᖃᖅᐳᖅ ᑖᒃᑲᓂ ᖃᐅᓯᐃᑦᑑᕐᒥ ᓄᖃᖅᑎᑦᑎᓚᐅᕐᓂᖏᓐᓂᒃ ᐊᖑᓇᓲᕕᐅᔫᓇᕐᓂᖏᓐᓂᒃ ᐊᒥᓲᖏᑐᒪᕆᐅᓕᓚᐅᕐᓂᖏᓐᓄᑦ, ᐊᒥᓱᕈᖅᐹᓕᐊᓕᓚᐅᖅᑐᓂᖅ (Miller and Gunn 2003a). ᐆᒃᑑᑎᒃᓴᖃᕗᑦ ᐃᓱᖅᓱᖅᓱᑎᒃ ᑐᒃᑐᓯᐅᕝᕕᐅᑎᑦᑎᑕᐃᓕᒪᓂᖏᓂ ᑕᐅᕙᓂ ᐃᑳᕼᐅᖕᒥ ᐊᒻᒪᓗ ᐅᓗᒃᕼᐊᖅᑑᑉ ᐊᖑᓇᓱᒃᑎᖏᓐᓄᑦ, ᑕᐃᒪᐃᓂᖏᓄᓪᓗ ᐃᑲᔪᕐᓂᖃᖅᑐᒃᓴᐅᓚᐅᖅᑐᑦ ᓄᖃᖅᑎᑕᐅᓂᖏᓐᓂᒃ ᐊᒥᓲᖏᓗᐊᑲᓐᓂᕈᓐᓇᓚᐅᕐᓂᖏᓐᓂᒃ ᕿᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ ᑕᒫᓂ ᐊᕐᕿᒎᖏᓐᓂ 1990-ᖏᓐᓂ (ᐆᒪᔪᐃᑦ ᐊᒥᓲᖏᓗᐊᕐᓂᖏᓐᓄᑦ ᑲᑎᒪᔨᕋᓛᑦ 2012). ᑭᖑᓪᓕᕐᒥ, ᐊᖑᓇᓲᕕᐅᔫᓇᕐᓂᖏᑦ ᑕᒫᓃᓇᓱᒋᔭᐅᕗᑦ 1-3% ᐳᓴᓐᑎᖏᓐᓃᓐᓂᖅ ᑕᐅᕙᓂ ᐃᑳᕼᐃᐅᑉ ᕿᑭᖅᑕᖓᓂ ᐊᒻᒪᓗ ᐊᑕᓃᖏᓐᓇᓕᒫᖅᓱᑎᒃ ᑰᑕᖅᖅᑎᑕᐅᓂᖏᓐᓂᒃ ᑐᒃᑐᑕᐅᕝᕕᐅᔫᓇᕐᓂᖏᓐᓂᒃ ᐊᒥᓵᓕᖅᑐᓂ ᐊᕐᕿᒍᓂᒃ (ᐆᒪᔪᐃᑦ ᐊᒥᓲᖏᓗᐊᕐᓂᖏᓐᓄᑦ ᑲᑎᒪᔨᕋᓛᑦ 2012). ᑲᔪᓯᒪᑦᑎᐊᕐᓂᖏᑦ ᐊᐅᓚᑦᑎᓂᖏᓐᓂ ᑐᖓᕙᖃᕐᒪᑕ ᓈᒪᔪᓂᒃ ᖃᐅᔨᒪᑦᑎᐊᖃᑦᑕᕐᓂᖅ ᑐᒃᑐᐃᑦ ᐱᑕᖃᕐᓂᖏᓐᓂᒃ ᐊᖑᓇᓲᕕᐅᓗᐊᕈᑎᒃ ᐊᒥᓲᔫᓐᓂᕈᑕᐅᔫᓇᕐᓂᖏᓐᓂᒃ ᑐᒃᑐᓄᑦ ᐅᕝᕙᓗᓐᓃᑦ ᐊᒥᓱᕈᒃᑲᓐᓂᕈᓇᕐᓂᖏᓐᓄᑦ ᐊᑯᓂᐅᓗᑕᐅᔫᓇᕐᓂᖏᓐᓂᒃ.

ᐃᓱᒪᔾᑕᐅᒋᕗᑦ ᐅᖃᐅᓯᐅᕙᖕᒋᓂᖏ ᑐᒃᑐᑕᐅᕙᒃᑐᑦ ᐊᒥᓲᔪᓐᓃᕈᑕᐅᖕᑕᕈᓐᓇᕐᓂᖕᒋᓐᓄᑦ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᓄᑦ. ᐃᓱᒪᒋᔭᐅᕙᖕᒋᓂᖕᒋᑦ ᐊᖑᓇᓱᒃᑏᑦ ᑲᑎᒪᔨᖕᒋᓐᓂ ᒪᓕᒡᕋᓛᖕᒋᑦ[5] (ᓲᕐᓗ ᐆᒃᑐᑎᒋᓗᒍ ᓲᕐᓗ ᐆᒃᑐᑎᒋᓗᒍ, ᒪᓕᒐᕐᓂ ᓱᕋᐃᓂᕐᒧᑦ ᐊᖑᓇᓱᒃᐸᖕᓂᖅ ᐊᒻᒪᓗ ᐅᖃᐅᓯᐅᕙᖕᖕᒋᓂᖕᒋᑦ ᑐᒃᑐᑕᐅᔪᑦ) ᓴᕿᑎᑕᐅᓚᐅᕐᑐᑦ ᐃᓱᒪᔾᑕᐅᓗᑎᒃ ᐊᑕᐅᓯᕐᒥ ᓄᓇᓕᖕᒥ ᐅᓗᕆᐊᓇᕐᓂᕐᒦᓕᕈᓐᓇᕐᓂᖕᒋᓐᓄᑦ ᑐᒃᑐᑕᐅᓗᐊᖕᑕᕈᓐᓇᕐᓂᖕᒋᓐᓄᑦ (ᐃᑳᕼᐃᐅᑉ ᐊᖑᓇᓱᒃᑏᑦ ᑲᑎᒪᔨᕋᓛᖕᒋᑦ 2016). ᐊᒻᒪᑕᐅᖅ, ᐊᕐᓇᓪᓗᐃᑦ ᐊᖑᔅᓪᓗᐃᓪᓗᓐᓂᑦ ᐸᖕᓂᑦ ᐅᙱᓗᓐᓂᑦ ᖃᓄᖅ ᐅᑭᐅᖃᕐᓂᖕᒋᑦ, ᑐᒃᑐᑕᐅᕙᖕᓂᖕᒋᑦ ᐃᓱᒪᒋᔭᐅᕙᖕᒥᔪᑦ ᐱᐅᖕᒋᑦᑐᒥᒃ ᖃᓄᐃᓕᖕᓕᕈᑕᐅᔪᓐᓇᕐᓂᖕᒋᓐᓂᒃ ᑐᒃᑐᐃᑦ ᐊᒥᓱᓂᖕᒋᓐᓂ (ᑲᓇᑕᒥ ᐆᒪᔪᓕᕆᔨᓂᕐᒧᑦ ᐱᔨᑦᑎᕋᐃᔾᔫᑦ 2013; ᐸᐅᓗᑑᑉ ᐊᖑᓇᓱᒃᑏᑦ ᑲᑎᒪᔨᕋᓛᖕᒋᑦ 2016b). ᑕᐃᒃᑯᓇᓂ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖕᒋᑦ ᐊᑯᓯᒪᖕᑕᐅᒍᑎᒃ ᐃᓚᖕᑲᓕᕐᓗᑎᒃ ᐃᓗᐃᓪᓕᒥ ᑭᓪᓕᓂᕐᒥᓗ ᑐᒃᑐᖕᒋᓐᓂᒃ (ᓲᕐᓗ ᐆᒃᑐᑎᒋᓗᒍ ᑕᐅᕙᓂ ᑭᓪᓕᓂᕐᒥ) ᐊᖑᓇᓱᒃᑕᐅᖕᑕᕈᓐᓇᕐᓂᖕᒋᑦ ᐊᔪᕐᓇᕐᓂᖅᓴᐅᔪᓐᓇᕐᒥᔪᑦ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᓯᐅᕐᓂᕐᒧᑦ ᐱᔾᔪᑎᒋᓪᓗᒍ ᐊᔾᔨᒌᖕᒋᓐᓐᓂᖕᒋᓐᓂᒃ ᖃᐅᔨᓴᓵᕋᐃᓇᖕᒋᑦᑎᐊᕐᒪᑦ ᑕᒪᒃᑯᓂᖕᒐ ᓂᒋᖅᐸᓯᐊᓃᑦᑐᑦ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖕᒋᑦ ᐊᖑᓇᓱᒃᑕᐅᔪᓐᓇᖅᓯᒍᑎᒃ (ᐸᐅᓗᑑᑉ ᐊᖑᓇᓱᒃᑏᑦ ᑲᑎᒪᔨᕋᓛᖕᒋᑦ 2016a). ᓄᓇᓕᖕᓄᑦ ᐃᓱᒪᔾᑕᐅᒋᕗᑦ ᐊᖑᓇᓱᒃᑕᐅᔪᒪᓂᖕᒋᑦ ᐱᕙᓪᓕᐊᔪᓐᓇᕐᓂᖕᒋᓐᓂᒃ ᑕᒪᒃᑯᓂᖕᒐ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᓂᒃ ᓂᐅᕿᑎᒃᓴᐅᖕᑕᕈᓐᓇᖅᓯᓂᐊᕈᑎᒃ ᑐᔪᖅᑕᐅᔪᓐᓇᖅᓯᓗᑎᒡᓗ ᐊᓯᖕᒋᓐᓄᑦ ᓄᓇᓕᖕᓄᑦ, ᐱᐅᓯᕆᔭᐅᕙᓪᓕᐊᓗᓂ ᑕᒪᓐᓇ. ᐱᔪᒪᔭᐅᖕᑕᕐᓂᖕᒋᑦ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖕᒋᑦ ᐱᕙᓪᓕᐊᑐᐃᓐᓇᕐᒪᑦ ᐊᒥᓲᔪᓐᓂᖅᐸᓪᓕᐊᓂᖕᒋᓐᓄᑦ ᐊᓯᖕᒋᑦ ᑐᒃᑐᐃᑦ (M. Anderson, ᓇᖕᒥᓂᖅ ᐅᖃᐅᓯᕆᔭᖕᒋᑦ 2016).

ᖃᐅᔨᒪᔭᐅᓂᐊᖅᐳᖅ ᐅᖃᐅᓯᐅᓂᖕᒋᑦ ᑐᒃᑐᓯᐅᕐᕕᐅᖕᑕᕐᓂᖕᒋᑦ ᑕᒡᕙᓂ ᑎᑎᕋᖅᓗᓯᒪᓂᖕᒋᓐᓂ ᐊᒥᓱᕈᖅᓰᓂᕐᒧᑦ ᖃᓄᐃᓕᐅᕈᑎᒃᓴᓂᒃ ᐱᔾᔪᑎᖃᕐᒪᑕ ᑐᑭᓕᐅᕈᒪᓂᖅ ᑐᒃᑐᓯᐅᖅᑕᐅᖕᑕᕐᓂᖅ ᐅᓗᕆᐊᓇᕈᑕᐅᔪᓐᓇᕐᒪᖔᑕ ᑕᒪᒃᑯᓄᖓ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖕᒋᑦ. ᐊᖑᓇᓱᙳᐅᔪᓐᓇᕐᓂᖕᒋᓐᓂ ᐊᐅᓚᑦᑎᓂᖅ ᓇᐅᑦᑎᖅᑐᐃᖕᑕᕐᓂᕐᓗ ᑲᒪᒋᔭᐅᕗᖅ ᑕᒪᐃᓐᓂᒃ ᐅᑭᐅᖅᑕᖅᑑᑉ ᐊᙳᑎᖅᓯᒪᓂᖕᒋᓐᓄᑦ ᓚᕙᒪᓄᑦ ᐊᒻᒪᓗ ᐊᐅᓚᑦᑎᔨᐅᑕᐅᔪᑦ ᑲᑎᒫᔨᖕᒋᓐᓄᑦ ᒪᓕᒡᓗᑎᒃ ᐊᑐᓂ ᓄᓇᑖᕈᑎᓂᒃ ᐊᖏᕈᑎᖕᒋᓐᓂᒃ. ᐱᒻᒪᕆᐊᓘᕗᖅ ᐊᖑᓇᓱᙳᐅᔪᓐᓇᕐᓂᖕᒋᑦ ᐊᐅᓚᑕᐅᔭᕆᐊᖕᓂᖕᒋᑦ ᑕᐃᒫᒃ ᐅᖓᑕᐅᔾᔨᑕᐃᓕᒪᔭᕆᐊᖕᓂᖅ ᐊᖑᓇᓱᒃᑕᐅᖕᑕᕈᓐᓇᕐᓂᖕᒋᓐᓂᒃ ᑕᒪᓐᓇ ᐅᓗᕆᐊᓇᖅᑑᓂᐊᖕᒋᒻᒪᑕ ᓯᕗᓂᒃᓴᒥ. ᐊᑯᓂᐅᔪᒧᑦ ᑐᕋᒐᕆᔭᐅᕗᑦ ᐊᒥᓱᕈᖅᓰᓂᕐᒧᑦ ᖃᓄᐃᓕᐅᕈᑎᒃᓴᓂᒃ ᐱᔾᔪᑎᓕᒃ ᐅᔾᔨᖅᑐᑦᑎᐊᖕᑕᑦᑯᔨᓂᖅ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖕᕝᕕᐅᕙᖕᓂᖕᒋᑦ ᐃᓄᖕᓄᑦ/ᐃᓄᕕᐊᓗᖕᓄᓪᓗ ᐊᖑᓇᓱᕝᕕᐅᖕᑕᕈᓐᓇᕐᓂᖕᒋᑦ ᑐᖕᒐᕝᕕᖕᓗᑎᒃ ᐱᑕᖕᓂᖕᒋᓐᓂ ᐊᓯᔾᔨᖕᑕᖅᑐᓂᒃ ᐊᒥᓲᓂᖕᒋᓐᓂ ᖁᒻᒧᑦ ᐊᒻᒪᓗ ᐊᒻᒧᑦ ᑐᒃᑐᐃᑦ ᐊᒥᓲᓂᖕᒋᓐᓂ ᐃᒃᐱᒍᓱᒃᑐᓂᒃ.

4.2.7. ᐅᓗᕆᐊᓇᕈᑏᑦ ᖃᓄᖅ ᐊᒃᑐᖅᓯᔪᓐᓇᕐᓂᖕᒋᑦ ᖃᐅᔨᒪᔭᐅᖕᒋᓂᖕᒋᓐ

ᐳᔪᕐᓗᐃᑦ (ᓄᓇᕐᔪᐊᕐᒥ ᓴᐳᓐᓂᐊᖅᑏᑦ ᐃᓚᒌᒃᑐᑦ ᐅᓗᕆᐊᓇᕐᓂᖕᒋᑦ 9)

ᐊᒥᓲᖕᒋᓛᑦ ᓇᖕᒥᓂᖅ ᐳᔪᕐᓗᓕᐅᕐᕕᐅᕙᒃᑐᑦ ᓯᓚᒧᑦ ᓄᓇᕚᒥ ᓄᓇᓯᑦᓯᐊᕐᒥᓗ ᑭᓯᐊᓂ ᐅᑭᐅᖅᑕᖅᑐᖅᐸᓯᐅᓂᖅ ᑲᑕᒐᐃᕝᐅᖕᑕᐃᓐᓇᖅᐳᖅ ᓯᓚᒃᑯᖅᑐᓂᒃ ᐳᔪᕐᓗᓕᐊᕆᔭᐅᕙᓪᓕᐊᔪᓂᒃ ᐊᓯᖕᒋᓂᖖᖅᑐᓂᒃ ᐊᕝᒃᑐᖅᓯᒪᓂᖕᒋᓐᓂ (Gamberg et al. 2005; Hung et al. 2005; Law and Stohl 2007). ᐅᓗᕆᐊᓇᕈᑏᑦ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᓄᑦ ᓯᓚᒥᒃ ᐳᔪᕐᓕᖅᐸᓪᓕᐊᓂᖕᒐᓂᒃ ᖃᐅᔨᒪᔭᐅᖕᒋᑦᑐᖅ ᖃᓄᐃᓕᖕᒐᓂᖕᒋᓐᓂ. ᐱᑕᖃᕈᓐᓇᕐᓂᖕᒋᑦ ᑐᖁᓐᓇᖅᑎᓕᓂᒃ ᒨᑯᓕᒥᒃ/ᐊᑭᕐᑰᔭᖅᑲᓂᒃ ᐊᒻᒪᓗ ᓴᕕᕋᔭᐃᓐᓇᐅᔪᓂᒃ ᐅᖁᒪᐃᑦᑐᓂᒃ ᐱᑕᖅᑲᕐᓂᖕᒋᑦ ᐊᔾᔨᒌᖃᑦᑕᖕᒋᒻᒪᑕ ᓇᓂᑐᐃᓐᓇᖅ ᑐᒃᑐᖃᕐᕕᐅᓂᖕᒋᓐᓂ ᑲᓇᑕᒥ (ᐅᑭᐅᖅᑕᖅᑐᒥ ᓱᕈᕐᓇᖅᑐᓕᕆᓂᕐᒥᒃ ᐱᓕᕆᐊᖑᖕᒋᑦ 2003). ᐊᑕᐅᓯᕐᒥᒃ ᖃᐅᔨᓴᖅᑕᐅᓚᐅᖅᑐᒥ, ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖕᒋᑦ ᑕᐅᕙᓂ ᐃᑳᕼᐃᐅᑉ ᕿᑭᖅᑕᖕᒐᓂ ᒨᑯᓕᖅᑲᕐᓂᖕᒋᑦ ᐊᒻᒪᓗ ᐹᑐᓖᒃᓴᔭᕐᓄᑦ ᐊᑐᖅᑕᐅᕙᒃᑐᓂᒃ ᑳᑦᒥᔭᒻᒥᒃ (cadmium) ᐊᑦᑎᒃᑐᒦᓚᐅᕐᒪᑕ ᓴᓂᐊᓂ ᐊᓯᖕᒋᓐᓂᒃ ᓇᐹᖅᑐᓕᖕᒥ ᑐᒃᑐᖃᕐᕕᐅᔪᓂ ᑕᐅᕙᓂ ᖁᕐᓗᖅᑑᑉ ᑲᓇᖕᓇᖕᒐᓂ ᑐᒃᑐᓂᒃ ᐊᒻᒪᓗ ᕿᑎᖅᒥᐅᑦ ᐱᖕᒐᖕᓇᖅᐸᓯᖕᒐᓂ ᑐᒃᑐᓂᒃ, ᑖᒃᑯᓂᖕᒐᓗ ᐅᓂᒃᑳᓕᐊᓂᒃ ᑎᑎᕋᖅᑐᑦ ᐃᓱᒪᒋᓗᒍ ᑕᐃᒪᐃᓚᕿᔪᓐᓇᕐᓂᖕᒋᑦ ᑎᖕᒐᐅᔭᖅᑎᐊᖕᒋᓂᖅᓴᐅᓕᕐᓂᖕᒐᓄᑦ ᓄᓇᖕᒋᓐᓂ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖕᒋᓐᓄᑦ ᓂᕿᒃᓴᕆᔭᐅᕙᒃᑐᓂᒃ (Larter and Nagy 2000b). ᑭᓯᐊᓂᓕᑦᑕᐅᖅ, ᑕᒪᕐᓂᒃ ᐊᔾᔨᒌᖕᒋᓐᓂᖕᒋᑦ ᑐᑭᓯᓂᐊᖅᑕᐅᒐᒥᒃ ᒨᑯᓕᖅᑲᕐᓂᖕᒋᓐᓂ, ᖃᐅᔨᓴᖅᑕᐅᑦᑎᐊᒃᑲᓂᕐᒥᒐᒥ ᐊᓯᐊᒍᑦ, ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖕᒋᑦ ᐃᑳᕼᐃᐅᑉ ᕿᑭᖅᑕᖕᒐᓂ ᐱᑕᖅᑲᐅᓂᖅᓴᐅᓚᐅᖅᑐᑦ ᒨᑯᓕᒃ, 7-ᖕᒋᓐ ᑐᒃᑐᖃᕐᕕᐅᔪᓂ ᑕᒪᐃᓐᓂᒃ 8-ᓂ ᖃᐅᔨᓴᖅᑕᐅᓚᐅᖅᑐᓂᒃ ᓇᐹᖅᑐᖃᖕᒋᑦᑐᕐᒥᐅᑦ ᑐᒃᑐᖕᒋᓐᓂᒃ ᐊᔾᔨᖕᒋᑐᓂᒃ (ᐅᑭᐅᖅᑕᖅᑐᒥ ᓱᕈᕐᓇᖅᑐᓕᕆᓂᕐᒥᒃ ᐱᓕᕆᐊᖑᓂᖕᒋᑦ2012). ᒨᑯᓕᖅᑲᕐᓂᖕᒋᑦ ᐊᔾᔨᖕᒋᒃᑲᓗᐊᖅᑎᓪᓗᒋᑦ ᑐᒃᑐᖃᕐᕕᐅᔪᓂ, ᑕᒪᐃᓐᓂ ᑐᒃᑐᐃᑦ ᐊᒃᑐᖅᑕᐅᓂᕐᓗᒃᓯᒪᔫᒃᖕᒋᑦᑐᑦ ᑕᒪᑯᓄᖕᒐ ᒨᑯᓕᓕᖕᓄᑦ (AMAP 2018). ᐱᑕᖅᑲᕐᓂᖕᒋᑦ ᓄᖑᔪᐃᑦᑐᓂᒃ ᓱᕈᐃᕙᓪᓕᐊᖕᒋᓐᓇᖅᑐᑦ ᖃᐅᔨᕈᑕᐅᓚᐅᖅᑐᑦ 15-ᓂᒃ ᐊᔾᔨᖕᒋᑦᑐᓂᒃ ᑐᒃᑐᖃᕐᕕᐅᓂᖕᒋᓐᓂ ᑲᓇᑕᐅᑉ ᐅᐊᖕᓇᖅᐸᓯᖕᒐᓂ ᑕᓖᓂ ᐊᕋᒍᖕᒋᓐᓂ 1990 ᐱᑕᖅᑎᐊᓚᐅᖕᒋᒪᕈᑦ ᑕᐃᔅᓯᒪᓂ (ᐅᑭᐅᖅᑕᖅᑐᒥ ᓱᕈᕐᓇᖅᑐᓕᕆᓂᕐᒥᒃ ᐱᓕᕆᐊᖑᓂᖕᒋᑦ 2003). ᐊᒃᑐᖅᑕᐅᔪᓐᓇᕐᓂᖕᒋᑦ ᑐᒃᑐᐃᑦ ᓄᑖᕈᖅᐸᓪᓕᐊᔪᓄᑦ ᓴᕿᐅᒪᓕᖅᑐᓄᓪᓗ ᓱᕈᖅᓇᖅᑐᓕᖕᓄᑦ, ᓄᖑᔪᐃᑦᑐᓂᒃ ᓱᕈᐃᕙᓪᓕᐊᔪᓇᕐᓂᖕᒋᑦ, ᐊᖕᒋᔪᒥᒃ ᖃᐅᔨᒪᔭᐅᖕᒋᒪᑕ (Gamberg et al.

[5] ᒪᓕᒐᕋᓛᖃᕐᒪᑦ ᐊᖑᓇᓱᒃᑏᑦ ᑲᑐᔾᔨᖃᑎᒌᖕᒋᑦ, ᑲᑎᒪᔨᕋᓛᖕᒋᑦ, ᑎᒥᖁᑎᖕᒋᓪᓗ, ᐊᐅᓚᑕᐅᓂᖕᒋᓐᓄᑦ ᐆᒪᔪᖅᑕᐅᔪᓐᓇᕐᓂᖕᒋᓐᓄᑦ ᑲᒪᔨᐅᕝᕕᒋᔭᑦ. ᐊᖑᓇᓱᒃᑏᑦ ᑲᑎᒪᔨᖕᒋᓐᓂ ᒪᓕᒐᕋᓛᑦ ᐊᐅᓚᑕᐅᕙᒃᑐᑦ ᓄᓇᑦᓯᐊᕐᒥ ᐆᒪᔪᓕᕆᓂᕐᒧᑦ ᒪᓕᒐᕐᓂᒃ ᒪᓕᒃᓯᑎᒃ.

2005).

ᓄᖑᔪᐃᑦᑐᓂᒃ ᓱᑉᕐᓇᖅᑐᓖᑦ ᐱᑕᖃᕐᓂᖏᑦ ᐊᒻᒪᓗ ᒨᑯᓕᖃᓲᖑᓂᖏᑦ ᐱᑕᖃᕈᓐᓂᖅᐸᓪᓕᐊᓇᓱᒋᔭᐅᖕᒪᑕ ᐊᒻᒪᓗ/ᐅᕝᕙᓗᓐᓃᑦ ᑕᐃᒪᐃᓕᖓᑐᐃᓐᓇᓕᕐᓂᖅ ᓇᓂᑐᐃᓐᓇᖅ ᐅᑭᐅᖅᑕᖅᑐᒥ (ᐅᑭᐅᖅᑕᖅᑐᒥ ᓱᑉᕐᓇᖅᑐᓕᕆᓂᕐᒥᒃ ᐱᓕᕆᐊᖑᓂᖏᑦ 2017). ᐱᑕᖃᕈᓐᓃᖅᐸᓪᓕᐊᒐᓗᐊᖅᑎᓪᓗᒋᑦ ᐊᒥᓱᓂᒃ ᓱᓕ ᓇᓗᓇᖅᑐᖃᖅᐳᖅ ᖃᓄᖅ ᐊᒃᑐᖅᑕᐅᔪᓐᓇᕐᓂᖏᓐᓂᒃ ᓯᓚᐅᑉ ᐊᓯᔾᔨᖅᐸᓪᓕᐊᓂᖓ ᑕᒪᒃᑯᓇᖓᑦ ᓄᖑᔪᐃᑦᑐᓂᒃ ᓱᑉᕐᓇᖅᑐᓂᒃ ᐊᒻᒪᓗ ᓱᓕ ᐱᑕᖃᕐᓂᖏᓐᓂ ᒨᑯᓕᖃᕐᓂᖏᑦ ᐊᒥᐊᒃᑯᕕᓂᖏᑦ ᓱᓕ. ᓯᓚᐅᑉ ᐊᓯᔾᔨᖅᐸᓪᓕᐊᓂᖓ ᐱᔾᔪᑕᐅᔪᓐᓇᕐᒪᑕ ᖃᓄᖅ ᓱᑉᕐᓇᖅᑐᓖᑦ ᓴᑭᑕᐅᖃᑕᕐᒪᖓᑕ ᐊᒻᒪᓗ ᐊᒃᑐᖅᑕᐅᖃᑕᕐᓂᐊᕐᒪᖓᑕ, ᐊᒻᒪᓗ ᖃᓄᖅ ᑐᕐᖁᖅᑕᐅᓯᒪᔭᕆᐊᖃᕐᒪᖓᑕ ᐅᕝᕙᓗᓐᓃᑦ ᐅᓯᔭᐅᖃᑕᐅᓐᓇᕐᓂᐊᕐᒪᖔᑕ ᐊᕙᑎᒥᐅᔪᓂ. ᓄᓇᓖᑦ ᐱᖕᖏᓇᖅᐸᓯᖏᓐᓂᑦᑐᑦ ᐅᖃᐅᓯᖃᖃᑦᑕᖅᓯᒪᔪᑦ ᐃᓱᒪᔫᑎᒋᔭᒥᓂᒃ ᐱᐅᖏᑦᑐᒥᒃ ᐳᔪᐃᓇᐅᓕᖃᑕᕐᓂᖏᓐᓂ ᐊᒻᒪᓗ ᐳᔪᕐᓗᓕᐅᖃᑕᕐᓂᖏᓐᓂᒃ ᓇᐸᖅᑐᓂᒃ ᐃᑯᐊᓚᔪᓂᒃ ᓄᓇᑦᓯᐊᕐᒥ ᐊᕙᓗᖏᓐᓃᑦᑐᓂᓗ ᐆᒪᔪᐃᑦ ᐊᒃᑐᖅᑕᐅᔪᓐᓇᕐᓂᖏᓐᓂ, ᒪᑯᓂᐊ ᐃᓚᖃᕐᒥᔪᓂᒃ ᕿᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᓐᓂᒃ (ᐃᖃᓗᒃᑐᑦᑎᐊᕐᓂ ᐊᖑᓇᓱᒃᑎᒃᑯᑦ 2016; ᐅᓗᒃHᐊᖅᑑᕐᒥᐅᑦ ᐊᖑᓇᓱᒃᑏᑦ ᑲᑎᒪᔨᕋᓛᖏᑦ 2016; ᐸᐅᓗᑑᑉ ᐊᖑᓇᓱᒃᑏᑦ ᑲᑎᒪᔨᕋᓛᖏᑦ 2016a; ᐃᑳHᐆᑉ ᐊᖑᓇᓱᒃᑏᑦ ᑲᑎᒪᔨᕋᓛᖏᑦ 2016). ᓯᓚᐅᑉ ᐊᓯᔾᔨᖅᐸᓪᓕᐊᓂᖓᓂᒃ ᐊᒻᒪᓗ ᐆᓇᖅᓯᕙᓪᓕᐊᓂᖓᓄᑦ ᓱᓕ ᐱᔾᔪᑕᐅᓂᕋᖅᑕᐅᓗᑎᒃ ᐊᒥᓰᓂᖅᓴᐅᖃᑕᕐᓂᖏᓐᓄᑦ ᓴᖏᓂᖅᓵᓘᖃᑕᕐᓂᖏᓐᓄᓗ ᓇᐹᖅᑐᐃᑦ ᐃᑯᐊᓪᓚᖃᑕᕐᓂᖏᑦ ᐃᓚᖏᓐᓂ ᐊᕕᒃᑐᖅᓯᒪᓂᖏᓐᓂ (IPCC 1996; Stocks et al. 1998; Dale et al. 2001), ᓴᕿᑦᑎᕙᐅᔪᓐᓇᖅᑐᓂᒃ ᓯᓚᒧᑦ ᓴᓗᒪᔪᓄᑦ ᐳᔪᕐᓗᓕᐅᕈᑕᐅᕙᖕᓂᖏᓐᓂᒃ ᐊᒻᒪᓗ ᓱᕈᐃᕙᓪᓕᐊᖃᑕᕐᓂᖏᓐᓂᒃ ᓯᓚᒥ ᐊᓂᕐᓂᕐᒥᒃ (Friedli et al. 2003; Law and Stohl 2007). ᕿᑦᑎᒃᑐᒥᒃ ᒐᕙᒪᒃᑯᑦ ᓇᐅᑦᑎᖅᑐᐃᕕᖓᓂ ᐊᓘᑦᒥ, ᓄᓇᕗᒻᒥ ᖃᐅᔨᓚᐅᖅᑐᑦ ᕿᕝᕙᓱᒃᓯᕙᓪᓕᐊᓂᖏᑦ ᐆᓇᖅᓯᕙᓪᓕᐊᓂᕐᒧᑦ ᓯᓚᖓ ᐊᒃᑐᐃᕙᓪᓕᐊᓕᕐᔪᑦ ᑲᑕᒐᐃᕕᐅᖃᑕᕐᓂᖏᓐᓂᒃ ᖃᖓᐅᓂᖓᓂ (ᓲᕐᓗ ᐆᒃᑐᑎᒋᓗᒍ ᓱᑉᕐᓇᖅᑐᑦ ᑲᑕᒐᓕᖃᑕᕐᓂᖏᓐᓂᒃ ᓄᓇᒧᑦ ᓯᓚᒥᒃ) (ᐅᑭᐅᖅᑕᖅᑐᒥ ᓱᑉᕐᓇᖅᑐᓕᕆᓂᕐᒥᒃ ᐱᓕᕆᐊᖑᓂᖏᑦ 2017). ᑮᖑᓪᓕᕐᒥᓗ, ᐊᓯᔾᔨᖅᐸᓪᓕᐊᓂᖏᑦ ᐱᑉᕐᕕᐅᔪᓐᓇᕐᓂᖏᑦ ᐅᑭᐅᖅᑕᖅᑐᒥ (ᑕᑯᓗᒋᑦ ᐱᑉᖅᑐᑦ ᐊᓯᔾᔨᕐᓂᖏᑦ ᑎᑎᕋᖅᓯᒪᓂᖏᓐᓂ 4.2.1) ᓇᖕᒥᓂᖅ ᐊᓯᔾᔩᔪᓐᓇᕐᒪᑕ ᖃᓄᖅ ᓱᑉᕐᓇᖅᑐᖃᓕᖅᐸᓪᓕᐊᔪᓐᓇᕐᓂᖅ ᐊᕙᑎᒥ, ᐊᓯᔾᔨᖃᑕᕐᓂᖏᓐᓄᑦ ᐊᐳᑎᐅᑉ ᖃᖓᓃᑦᑐᑦ, ᓄᓇᒥ ᐃᑉᔪᑉ ᐆᓇᕐᓂᖓᓂᒃ ᐊᒻᒪᓗ/ᐅᕝᕙᓗᓐᓃᑦ ᑭᓂᐸᓂᖃᕐᓂᖏᓐᓂᒃ, ᑕᐃᒪᐃᓂᖓᓄᑦ, ᐊᓯᔿᔪᓐᓇᕐᒪᑕ ᖃᓄᖅ ᓱᑉᕐᓇᖅᑐᓖᑦ ᓄᓇᒥᒃ ᐃᑉᔪᕐᒥᒃ ᐱᑉᖅᑐᐃᓪᓗ ᐆᒪᔪᕐᓄᐊᖃᕈᓐᓇᕐᓂᖏᓐᓂᒃ ᓂᕆᔭᐅᕙᖕᓂᖏᓐᓄᑦ ᑕᒪᑯᐊ ᐊᒻᒪᓗ ᐊᒃᑐᑕᐅᖃᑕᕐᓂᖏᓐᓄᑦ ᐊᕙᑎᖏᑦ (Macdonald et al. 2005; Stern et al. 2012). ᐊᒃᑐᖅᑕᐅᔪᓐᓇᕐᓂᖏᑦ ᓯᓚᐅᑉ ᐊᓯᔾᔨᖅᐸᓪᓕᐊᓂᖓᓄᑦ ᐱᔭᕆᐊᑐᔪᑦ ᖃᐅᔨᓴᖅᑕᐅᑦᑎᐊᒃᑲᓂᕆᐊᖅᓱᑎᓪᓗ ᑐᑭᓯᔭᐅᑦᑎᐊᕐᓂᐊᕐᒪᑕ ᐱᕙᓪᓕᐊᔪᒥᒃ ᐊᒃᑐᖅᑕᐅᕙᓪᓕᐊᓂᖏᑦ ᐳᔪᕐᓗᖕᓄᑦ ᐊᒻᒪᓗ ᓴᓗᒪᖏᑦᑐᓄᑦ ᓱᑉᕐᓇᖅᑐᓄᑦ ᑎᑭᑕᐅᕙᓪᓕᐊᓂᖓ ᐅᑭᐅᖅᑕᖅᑑᑉ.

ᓄᓇᓖᑦ ᐃᓱᒪᓘᑎᖃᕐᒪᑕ ᐊᒃᑕᑯᓂᒃ ᓱᑉᕐᓇᖅᑐᓂᓪᓗ ᑕᐃᔅᓯᒪᓂ ᐊᖏᔩᑎᓂᒃ ᓄᓇᒥᐅᑕᓂᒃ ᐱᔭᐃᕝᕕᐅᕙᓚᐅᖅᑐᓂᒃ, ᖃᐅᔨᓴᖅᑕᐅᕙᓚᐅᖅᑐᓂᓪᓗ ᐊᒧᒪ ᐅᓇᑕᖅᑐᒃᓴᓄᑦ ᐱᓕᕆᕕᐅᕙᓚᐅᕐᓂᖏᓐᓂᒃ ᓴᓗᒻᒪᖅᓴᖅᑕᐅᓯᒪᖏᑦᑐᓂᒃ, ᑲᔪᓯᔪᒥᒃ ᐅᓗᕆᐊᓇᕈᑕᐅᖏᓐᓇᕐᒪᑕ ᕿᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᐃᑦ ᖃᓄᐃᓕᖓᔪᓐᓇᕐᓂᖏᓐᓄᑦ (ᑲᓇᑕᒥ ᐆᒪᔪᓕᕆᓂᕐᒧᑦ ᐱᔨᑦᑎᕋᐃᔩᑦ 2013; ᐅᖅᓱᖅᑑᑉ ᐊᖑᓇᓱᒃᑎᖏᑦ 2013; ᐊᐃᕙᖅ ᐊᖑᓇᓱᒃᑎᖏᑦ; ᖃᐅᓱᐃᑦᑑᑉ ᐊᖑᓇᓱᒃᑎᖏᑦ 2013; ᑲᓇᑕᒥ ᐆᒪᔪᓕᕆᓂᕐᒧᑦ ᐱᔨᑦᑎᕋᐃᔩᑦ 2015; ᐃᖃᓗᒃᑐᑦᑎᐊᕐᓂ ᐊᖑᓇᓱᒃᑎᒃᑯᑦ 2016; ᕿᑕᐃᑉᕐᔪᐊᑉ ᐊᖑᓇᓱᒃᑎᒃᑯᑦ 2016; ᐸᐅᓗᑑᑉ ᐊᖑᓇᓱᒃᑏᑦ ᑲᑎᒪᔨᕋᓛᖏᑦ 2016a; ᖃᐅᓱᐃᑦᑑᑉ ᐊᖑᓇᓱᒃᑎᖏᑦ 2016; ᐃᑳHᐆᑉ ᐊᖑᓇᓱᒃᑏᑦ ᑲᑎᒪᔨᕋᓛᖏᑦ 2016). ᐆᒃᑑᑎᒋᓗᖑ, ᐊᖑᓇᓱᒃᑏᑦ ᓇᓂᓯᓯᒪᔪᑦ ᕿᒪᑯᓂᒃ ᐅᖅᓱᐊᓗᖃᑕᐅᑎᕙᓂᐊᓗᖕᓂᒃ ᑕᐅᓴᐅᔭᓯᒪᔪᓂᒃ ᓄᓇᒥ, ᓯᐊᒪᒃᐸᓪᓕᐊᖕᒋᓐᓇᖅᑐᓂᒃ ᑯᑐᖕᓂᕐᒧᑦ ᐃᓗᓕᖏᑦ. ᐃᓕᑕᕆᔭᐅᓯᒪᓕᖅᑐᑦ ᓴᓪᒪᖅᓴᖅᑕᐅᔭᕆᐊᖃᕐᓂᖏᑦ ᑕᒪᒃᑯᐊ ᓱᑉᖅᑕᐅᓯᒪᔪᑦ ᐱᒻᒪᕆᐅᔪᒥᒃ ᓯᕗᓪᓕᐅᕐᑯᔭᐅᓗᑎᒃ ᐃᓄᖕᓄᑦ ᐊᒥᓱᓂ ᓄᓇᓕᖕᓂ (ᑲᓇᑕᒥ ᐆᒪᔪᓕᕆᓂᕐᒧᑦ ᐱᔨᑦᑎᕋᐃᔩᑦ 2013; ᐅᖅᓱᖅᑑᑉ ᐊᖑᓇᓱᒃᑎᖏᑦ 2013; ᑲᓇᑕᒥ ᐆᒪᔪᓕᕆᓂᕐᒧᑦ ᐱᔨᑦᑎᕋᐃᔩᑦ 2015; ᐃᖃᓗᒃᑐᑦᑎᐊᕐᓂ ᐊᖑᓇᓱᒃᑎᒃᑯᑦ 2016; ᐸᐅᓗᑑᑉ ᐊᖑᓇᓱᒃᑏᑦ ᑲᑎᒪᔨᕋᓛᖏᑦ 2016a; ᖃᐅᓱᐃᑦᑑᑉ ᐊᖑᓇᓱᒃᑎᖏᑦ 2016). ᐃᒪᕐᓗᑯᐃᑦ ᐊᑐᐊᓂᒃᓯᒪᔪᑦ ᐅᒥᐊᕐᔪᐊᓂᒃ ᐊᒻᒪᓗ ᐅᒥᐊᕐᔪᐊᑦ ᐳᑕᕐᑯᑎᖏᓐᓂᖕᖢᖅᐸᒃᑐᑦ ᐃᒻᒥᖅᑕᐅᓯᒪᕙᖏᓐᓂᖏᑦ ᐊᓯᔾᔨᖅᑕᐅᖃᑦᑐᑦ ᐱᔾᔪᑕᐅᖕᒥᔪᑦ ᓱᑉᕐᓇᖅᑐᓕᐅᕈᑕᐅᕙᓪᓕᐊᓂᕐᒧᑦ ᐅᓗᕆᐊᓇᕈᓐᓇᕐᔪᓄᑦ ᕿᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᓐᓄᑦ (ᑲᓇᑕᒥ ᐆᒪᔪᓕᕆᓂᕐᒧᑦ ᐱᔨᑦᑎᕋᐃᔩᑦ 2015).

ᓱᑉᕐᓇᖅᑐᓕᖕᓄᑦ ᐊᒃᑐᖅᑕᐅᓯᒪᔪᓐᓇᕐᓂᖅ ᕿᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ ᑐᒃᑐᖃᕐᕕᐅᕙᖕᓂᖏᑦ ᓱᓕ ᖃᐅᔨᒪᔭᐅᖏᓗᐊᖅᑐᑦ ᑭᓯᐊᓂ ᐃᒃᐱᒋᔭᐅᕙᓪᓕᐊᓂᖅᓴᐅᔪᓐᓇᕐᕆᔪᑦ ᑐᒃᑐᓄᑦ ᖃᓂᒋᔭᖏᓐᓇᑦᑐᓄᑦ ᓱᑉᐃᓇᑉᖅᑎᑕᐅᕙᓪᓕᐊᓂᖏᓂ. ᐱᒻᒪᕆᐅᕗᖅ ᖃᐅᔨᒪᓂᖅ ᓱᑉᕐᓇᖅᑐᑦ ᐊᒃᑐᖅᓯᑐᐃᓐᓇᓲᖑᖏᓂᖏᑦ ᑐᒃᑐᓂᒃ, ᐊᒃᑐᐃᔪᓐᓇᕐᒥᖕᒪᑕ ᖃᓄᐃᓂᖏᓐᓂ ᐃᓄᐃᑦ ᐊᒻᒪᓗ ᐃᓄᕕᐊᓗᐃᑦ ᑕᒪᒃᑯᓂᖓ ᓂᕿᒃᓴᖃᖅᐸᒃᑐᑦ ᐃᓄᔾᔪᑎᒃᓴᕆᔭᒥᓂᒃ.

ᐱᑕᖃᓕᖅᐸᓪᓕᐊᓂᖕᒋᑦ ᐆᒪᔪᐃᑦ ᐊᔾᔨᒌᖕᒋᓐᓂᖕᒋᓐᓂ ᐱᐅᓯᑐᖃᑯᑦ ᑎᒥᖕᒋᓐᓂ ᓴᓇᒪᓂᖕᒋᓐᓂ ᑲᑎᑉᐸᓪᓕᐊᓂᖕᒋᓐᓄᑦ ᐆᒪᔪᖃᓕᖅᐸᓪᓕᐊᓂᖕᒋᑦ ᐊᑯᓯᒪᔪᓂ (ᓄᓇᕐᔪᐊᕐᒥ ᓴᐳᓐᓂᐊᖅᑏᑦ ᐃᓚᒌᒃᑐᑦ ᐅᓗᕆᐊᓇᕐᓂᖕᒋᑦ 8.3)

ᐊᒃᑐᖅᑕᐅᔪᓐᓇᕐᓂᖕᒋᑦ ᖁᑦᑎᒃᑐᒥ ᑐᒃᑐᖕᒋᑦ ᑕᒪᒃᑯᐊ ᐱᑕᖃᓕᖅᐸᓪᓕᐊᓂᖕᒋᓐᓄᑦ ᐊᔾᔨᒋᔭᐅᖕᒋᑦᑐᑦ ᑐᒃᑐᐃᑦ ᐊᑯᓯᒪᓂᖕᒋᓐᓄᑦ ᓴᓇᒪᓂᖕᒥᓂ ᐱᐅᓯᑐᖃᕐᒥᓂ ᖃᓄᐃᓕᖓᓕᕈᑕᐅᔪᓐᓇᕐᓂᖕᒋᑦ ᒫᓐᓇᐅᔪᖅ ᖃᐅᔨᒪᔭᐅᖕᒋᒻᒪᑕ. ᑕᐃᒃᑯᐊ ᑭᓯᐊᓂ ᑕᐅᕙᓂᑦᑐᑦ ᐱᒻᒪᕆᐅᔪᓃᒃ ᐊᑯᐸᓪᓕᐊᓕᕐᒪᑕ ᐊᔾᔨᒌᖕᒋᓐᓂᖕᒋᑦ ᑐᒃᑐᐃᑦ, ᐅᐊᖓᖅᐸᓯᖕᒐᑕ ᐱᖕᒐᖓᖅᐸᓯᖕᒐᓂ ᑭᓪᓕᓂᐅᑉ ᐊᒻᒪᓗ ᐃᓗᐃᓪᓕᐅᑉ ᑭᓪᓕᓂᐅᑉᓗ ᑐᒃᑐᖕᒋᓐᓂᒃ ᐊᒻᒪᓗ ᐃᑦᑐᐊᕐᑐᕐᕕᐅᑉ ᓄᕗᐊᓂᒃ ᐊᑯᐸᓪᓕᐊᓪᓗᑎᒃ ᓇᑲᖅᑐᖃᖕᒋᑦᑐᕐᒥᐅᑦ ᑐᒃᑐᖕᒋᓐᓂ. ᖃᐅᔨᓴᐅᓂᖕᒋᑦ ᓄᓕᐊᖃᑕᕐᓂᖕᒋᓐᓂ ᓴᓇᒪᓂᖕᒋᑦ ᐊᐅᖓᒍᑦ ᖃᐅᔨᓴᖅᑕᐅᒐᒥᒃ ᓴᕿᑕᐅᓚᐅᖅᑐᑦ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖕᒋᑦ ᓴᓇᒪᓂᖕᒋᓐᓂ ᐊᔾᔨᒋᔭᐅᖕᒋᒻᒪᑕ ᓇᑲᖅᑐᖃᖕᒋᑦᑐᕐᒥᐅᑦ ᑐᒃᑐᖕᒋᓐᓂᒃ ᐊᒻᒪᓗ ᐃᓗᐃᓪᓕᒥ ᑭᓪᓕᓂᕐᒥᓗ ᑐᒃᑐᖕᒋᓐᓄᑦ, ᑕᐅᕙᑯᐊᓗ ᐃᓗᐃᓪᓕᒥ ᑭᓪᓕᓂᕐᒥᓗ ᑐᒃᑐᖕᒋᑦ ᐊᔾᔨᖃᕐᓂᖅᓴᐅᒋᓪᓗᑎᒃ ᓴᓇᒪᓂᖕᒋᓐᓂ ᑕᐃᒃᑯᓄᖓ ᓇᑲᖅᑐᖃᖕᒋᑦᑐᕐᒥᐅᑦ ᑐᒃᑐᖕᒋᓐᓂᒃ, ᓴᓂᐊᓂᒃ ᑕᐃᒃᑯᓇᖓᑦ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖕᒋᓐᓂ (Zittlau et al. 2003). ᐊᖑᓇᓱᒃᑎᑦ ᐅᓂᒃᑳᖃᑦᑕᖅᓯᒪᔪᑦ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖕᒋᑦ ᓄᓕᐊᕌᖓᒥᒃ ᐊᓯᖕᒋᓐᓂᒃ ᑐᒃᑐᓂᒃ ᐊᔾᔨᖕᒋᑕᖕᒋᓐᓂᒃ, ᐊᓯᔾᔨᖅᓯᒪᖃᑕᓕᖅᑐᑦ ᐊᔾᔨᒋᔭᐅᖕᒋᑦᑐᓂᒃ ᐃᓛᒋᑦ ᑎᒥᖕᒋᓐᓂ (ᐅᖅᓱᖅᑑᑉ ᐊᖑᓇᓱᒃᑎᖕᒋᑦ 2013; ᐅᓗᒃHᐊᖅᑑᕐᒥᐅᑦ ᐊᖑᓇᓱᒃᑏᑦ ᑲᑎᒪᔨᕋᓛᖕᒋᑦ 2013; ᐸᐅᓗᑦᑑᑉ ᐊᖑᓇᓱᒃᑏᑦ ᑲᑎᒪᔨᕋᓛᖕᒋᑦ 2013; ᐃᖃᓗᒃᑐᑦᑎᐊᕐᓂ ᐊᖑᓇᓱᒃᑎᒃᑯᑦ 2016). ᓇᐹᖅᑐᖃᖕᒋᑦᑐᕐᒥᐅᑦ ᑐᒃᑐᖕᒋᑦ ᓅᑉᐸᓪᓕᐊᖕᒋᓐᓇᕈᑎᒃ ᐅᐊᖓᖅᖑᖓᒧᑦ ᐱᔾᔪᑕᐅᓂᕐᒧᑦ ᓯᓚᐅᑉ ᐊᓯᔾᔨᖅᐸᓪᓕᐊᓂᖓ, ᓄᓕᐊᖅᐸᓪᓕᐊᓂᖅᓴᐅᓕᕈᓐᓇᖅᐳᑦ.

5. ᐊᒥᔫᓂᖕᒋᑦ ᓇᓃᑐᓐᓇᕐᓂᖕᒋᓐᓄᓪᓗ ᑐᕌᒐᔭᐅᔪᑦ

<u>*ᐊᒥᓱᓂᖕᒋᓐᓄᑦ ᑐᕌᒐᔭᐅᔪᑦ*</u>
ᐅᑯᐊ ᐊᑕᓃᑦᑐᑦ: ᐊᑯᓂᐅᓂᐊᖅᑐᒥ ᐊᒥᔫᓂᖕᒋᓐᓄᑦ ᑐᕌᒐᔭᐅᔪᑦ ᒪᑯᓂᖓ ᐃᓚᖃᖅᐳᑦ:

- ᑕᒪᕐᒥᒃ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖕᒋᑦ ᓄᓇᓖᑦ ᓯᓚᑕᓃᑦᑐᑦ ᖃᓄᐃᖕᒋᑦᑎᐊᕐᑯᓗᒋᑦ, ᐱᑕᖃᐃᓐᓇᕈᓐᓇᕐᑯᓪᓗᒋᓪᓗ ᓯᕗᓂᒃᓴᒥ ᐃᓅᔫᒪᕐᒥᔪᓄᑦ.
- ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖕᒋᑦ ᐊᒥᔫᓂᖕᒋᑦ ᐊᓯᔾᔨᖃᑦᑕᕐᒪᑕ ᐱᐅᓯᑐᖃᕐᒥᒍᑦ ᐊᓯᔾᔨᖃᑕᕐᓂᖕᒋᓐᓂᒃ ᒪᓕᑐᐃᓐᓇᖅᑐᓂᒃ.
- ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖕᒋᑦ ᓄᓇᓖᑦ ᓯᓚᑖᓂᐸᒃᑐᑦ ᐃᓅᔾᔪᑎᒃᓴᓇᔭᐅᖃᑕᐅᓇᕐᓂᐊᕐᒪᑕ ᐃᓄᖕᓄᑦ/ᐃᓄᕕᐊᓗᖕᓄᓪᓗ ᐊᖑᓇᓱᖕᕕᐅᔪᓐᓇᕐᓗᑎᒃ, ᒪᓕᒃᑐᓂᒃ ᐊᒥᔫᓱᓂᖕᒋᓐᓂᒃ ᖃᓄᐃᓕᖓᓕᕐᓂᖕᒋᓐᓂᒃ.

ᕿᓚᒥᐊᔪᓄᑦ ᑐᒃᑐᐃᑦ ᐊᒥᔫᓂᖕᒋᓐᓂᒃ ᑐᕌᒐᔭᐅᔪᑦ ᑕᒪᒃᑯᓂᖓ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖕᒋᑦ ᓄᖃᖅᑎᑦᑎᔪᒪᓂᖅ ᐊᒥᔫᔪᓐᓃᖅᐸᓪᓕᐊᓂᖕᒋᓐᓂᒃ ᓯᕗᓂᐊᒍᑦ ᐊᕐᕌᒎᑉ2031 (ᐆᒃᑑᑎᒋᓗ ᖁᓕᓂᒃ 10 ᐊᕐᕋᒍᐃᑦ ᑭᖑᓂᐊᒍᑦ ᑕᒪᑐᒪ ᐊᒥᓱᕈᖅᔫᓂᕐᒧᑦ ᖃᓄᐃᓕᐅᕈᑎᒃᓴᓂᒃ ᐃᓕᔭᐅᓂᖓᓂᒃ ᐆᒪᔪᐃᑦ ᐊᒥᔩᖕᒋᓗᐊᓕᕐᓂᖕᒋᓐᓄᑦ ᐅᓗᕆᐊᓇᕐᓂᕐᒥᓐᓂᖕᒋᓐᓂᒃ ᑎᑎᖃᖃᕐᕕᒃᑯᑦ ᐃᓄᓕᒪᓄᑦ).

<u>*ᓇᓃᖃᑕᕐᓂᖕᒋᓐᓂ ᑐᕌᒐᔭᐅᔪᑦ*</u>

- ᑕᐃᒪᐃᓕᖓᑎᑕᐅᓗᑎᒃ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖕᒋᑦ ᑕᒪᐃᓐᓂ ᑲᓇᑕᒥ ᐱᑕᖃᕐᓂᖕᒋᓐᓂ ᒫᓐᓇ.
- ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖕᒋᑦ ᓇᒧᖓᐅᔪᓐᓇᖃᑕᕐᓗᑎᒃ ᓇᓂᑐᐃᓐᓇᖅ ᓄᓇᒥ ᐊᒻᒪᓗ ᑕᕆᐅᕐᒥ ᓯᑯᒃᑯᑦ (ᑕᒪᑯᓇᓂ ᐊᒻᒪᓗ ᐊᑯᓐᓂᖕᒋᓐᓂ ᕿᑭᖅᑕᒐᓴᐃᑦ) ᐅᔾᔨᖅᑐᑦᑎᐊᕈᒪᓪᓗᒋᑦ ᐱᐅᓯᑐᖃᕐᒥᒍᑦ ᐊᑐᕈᓐᓇᕐᓂᖕᒋᓐᓂᒃ ᓄᓇᒥᒃ ᐊᒻᒪᓗ ᓅᖃᑕᕈᓐᓇᕐᓂᖕᒋᓐᓂᒃ (ᐊᔪᖅᑎᑕᐅᑦᑕᐃᓕᒪᓗᑎᒃ ᓇᒧᖓᐅᖃᑕᐃᓐᓇᕈᓐᓇᕐᓂᖕᒋᓐᓂᒃ/ᓅᑎᑕᐅᔭᓇᐊᖃᖕᒋᓪᓗᑎᒃ) ᓇᔪᖅᐸᒃᑕᖕᒋᓐᓂᒃ ᐊᒻᒪᓗ ᓇᒧᖓᐅᖃᑕᐅᓇᕐᓗᑎᒃ ᖃᓄᐃᓕᔪᖃᕋᖕᒐᑦ, ᓲᕐᓗ ᓯᓚᐅᓪᔪᐊᖅᑐᐊᓘᓕᕈᓐᓇᕐᓂᕐᒥ.

<u>*ᑐᑭᓕᐅᕈᑕᐅᓗᑎᒃ*</u>
ᑐᖓᕕᐅᓪᓗᑎᒃ ᐅᖃᐅᓯᖃᑦᑕᖅᓯᒪᓂᖕᒋᑦ, ᐊᐅᓚᑦᑎᔨᐅᖃᑕᐅᔪᑦ, ᑐᒃᑐᓂᓪᓗ ᖃᐅᔨᒪᔩᑦ, ᓄᓇᓖᓗ ᐃᓄᐃᑦ ᑐᑭᓯᓇᖅᓯᓚᐅᖅᑐᖅ ᐱᕕᒃᓴᖅᑎᑕᐅᔭᓇᐊᖃᕐᓂᖕᒋᑦ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᐃᑦ ᐱᐅᓯᓇᔾᔨᖕᒋᓐᓂᒃ ᐊᑐᕈᓐᓇᑎᐊᖃᕐᒪᑕ ᐊᒻᒪᓗ ᐊᒥᓱᖅᐸᓪᓕᐊᔪᓐᓇᕐᓗᑎᒃ ᐊᒻᒪᓗ ᓇᒧᑐᐃᓐᓇᖃᑕᕈᓐᓇᕐᓗᑎᒃ ᓇᔪᖅᐸᒃᑕᑐᖃᑎᔾᔨᖕᒋᓐᓂ, ᑕᐃᒪᐃᑕᓇᐊᖃᒻᒪᓇᖕᒪᑦ. ᐊᒥᔫᓂᖕᒋᑦ ᐊᒻᒪᓗ ᓇᓃᑐᓐᓇᕐᓂᖕᒋᓐᓄᑦ ᑐᕌᒐᔭᐅᔪᑦ ᐱᔾᔪᙱᖃᕐᒪᑕ ᑕᒪᒃᑯᐊ ᐆᒪᔪᐃᑦ ᐊᖕᒋᔪᐊᓗᖕᒥᒃ ᐃᓂᒃᓴᖃᓇᐊᖃᕐᓂᖕᒋᓐᓂᒃ, ᐊᑐᐃᓐᓇᐅᔪᓐᓇᕐᓂᖕᒋᓐᓂᓪᓗ ᓂᕿᒃᓴᖅᓯᐅᕈᓐᓇᓇᐊᖅᓱᑎᑦ, ᐊᒻᒪᓗ ᑕᐅᑐᕈᓐᓇᕐᓗᑎᒃ ᑕᒪᐃᓐᓂᒃ ᓄᓇᒥᒃ ᐊᒻᒪᓗ ᑕᕆᐅᕐᒥ ᓯᑯᒥᒃ. ᑕᒪᒃᑯᐊ ᑐᕌᒐᔭᐅᔪᑦ ᐱᑕᖃᓇᐊᖃᕐᒪᓇᖕᓂᐊᖅᑐᑦ ᐊᒥᓱᕈᖅᓯᐊᓇᔭᐅᓂᐊᕈᑎᒃ ᐃᓂᖃᒃᓴᑦᑎᐊᕐᓗᑎᒃ ᐊᕐᕕᒥᒃ ᑖᒪᑯᓄᖓ ᑐᕌᖓᓂᐊᖅᑐᓂᒃ.

ᑐᑭᓕᐅᕈᑕᐅᓗᑎᒃ ᖃᓄᐃᖏᒪᖖᑕ ᑐᒃᑐᐃᑦ ᐃᖏᓃᓐᓇᕐᓗᓐᓂᑦ ᐆᒪᐃᓐᓇᕈᓐᓇᕐᒪᖔ, ᐊᒥᓱᓂᖏᑦ ᖃᐅᔨᓴᖅᑕᐅᓂᐊᖅᑐᑦ ᒪᑯᓂᖓ ᒪᓕᒡᓗᑎᒃ ᐊᑖᓐᑦᑐᓂᒃ:

- ᑐᒃᑐᐃᑦ ᓄᕐᕆᓂᖅᓴᐅᖃᑕᖅᓯᒪᓂᖏᓐᓂᒃ ᓴᓂᐊᓂ ᑐᕐᑯᕋᖅᓯᒪᓂᖏᓐᓂᒃ ᐊᑯᓂᐅᓂᐊᖅᑐᒥ.
- ᓈᒻᒪᒋᐊᓖᑦ ᓄᓇᐃᑦ ᐱᑕᖃᐃᓐᓇᕈᓐᓇᕐᓂᖏᓐᓄᑦ ᐊᒻᒪᓗ ᖃᓄᐃᑦᑑᓐᓂᕈᓐᓇᖃᑕᕐᓂᖏᓐᓄᑦ ᖃᓄᐃᓕᔭᖅᑎᓪᓗᒍᑦ (ᓱᕐᓗ ᓯᓚᓗᒡᔭᐊᖅᑐᐊᓗᓚᐅᕐᓂᕐᒧᑦ) ᐊᒻᒪᓗ ᐃᓄᐃᑦ ᖃᓄᐃᓕᐅᕈᓯᕆᕙᒃᑕᖏᓐᓂᒃ.
- ᐃᓄᖕᓄᑦ ᐃᑲᔪᖅᓱᖅᑕᐅᔭᕆᐊᖃᕈᓃᕐᓗᑎᒃ (ᓱᕐᓗ ᐆᒃᑐᑎᒋᓗᒍ ᓂᕆᔭᒃᓴᓂᒃᑕᐅᑦᑕᕆᐊᖃᕐᓂᖅ ᐅᕝᕙᓗᓐᓂᑦ ᐆᒪᔪᐃᑦ ᑐᒃᑐᓯᐅᖃᑦᑕᕐᓂᖏᓐᓂ ᐊᐅᓚᑕᐅᔭᕆᐊᖃᕐᓂᖏᓐᓂᒃ).
- ᑕᐃᒪᐃᓕᖓᔪᓐᓇᖅᓯᓗᑎᒃ ᐊᑯᓂᐅᓂᐊᖅᑐᒧᑦ (ᖁᓖᐅᓈᖅᑎᖅᑕᐅᓯᒪᔪᑦ ᐊᕐᕋᒍᕆᓴᓂᒃ ᑭᖑᓕᕇᓪᓗᑎᒃ) ᐊᑯᓂᐅᓂᓕᖕᓂᒃ.

6. ᓂᕈᑐᔪᓂᒃ ᖃᓄᐃᓕᐅᕈᑎᒃᓴᐃᑦ ᑕᒪᐃᓐᓂᓪᓗ ᖃᓄᐃᓕᐅᕈᑎᒃᓴᐃᑦ ᐊᖑᒪᓂᕐᒧᑦ ᑐᕌᒐᕆᔭᐅᓂᐊᖅᑐᓂᒃ

6.1 ᐱᓕᕆᐊᖑᓕᐊᓂᒃᑐᑦ ᐱᔭᕇᖅᑕᐅᓯᒪᔪᑦ ᐅᕝᕙᓗᓐᓃᑦ ᓱᓕ ᑲᒪᒋᔭᐅᕙᓪᓕᐊᔪᑦ

ᑲᓇᑕᐅᑉ ᐊᒻᒪᓗ ᐅᑭᐅᖅᑕᖅᑐᖓᑕ ᐊᕕᒃᑐᖅᓯᒪᓂᖏᓐᓂ ᒐᕙᒪᐃᑦ, ᐆᒪᔪᓕᕆᔨᕐᔪᐊᒃᑯᑦ, ᐆᒪᔪᐃᑦ ᐊᐅᓚᑕᐅᕙᓂᖏᓐᓄᑦ ᐅᖃᐅᔾᔨᒋᐊᖅᑏᑦ ᑲᑎᒪᔨᖏᑦ (ᓄᓇᑦᓯᐊᕐᒥ), ᐃᓄᐃᑦ ᐊᒻᒪᓗ ᐃᓄᕕᐊᓗᐃᑦ, ᓄᓇᓖ, ᐊᖑᓇᓱᒃᑎᒃᑯᑦ/ᑲᑎᒪᔨᕋᓛᖏᓪᓗ, ᒐᕙᒪᐅᖏᑦᑐᑦ ᑎᒥᖁᑎᖏᑦ ᐊᒻᒪᓗ ᐊᒃᑐᖅᑕᐅᓯᒪᓂᐊᖅᑐᑦ ᐊᖏᔫᑎᓂᒃ ᓴᓈᖃᖅᑐᑦ ᐊᔾᔨᒋᖏᑦᑑᑎᐅᔪᓂᒃ ᖃᓄᐃᓕᐅᖃᑕᐅᓯᒪᖕᒪᑕ ᐊᐅᓚᑦᑎᓂᕐᒧᑦ ᓴᐳᓂᐊᕐᓂᕐᒧᓪᓗ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᓐᓂ ᐊᒻᒪᓗ ᓇᔪᖅᐸᒃᑕᖏᓐᓂ.

ᐱᓕᕆᐊᕆᔭᐅᔪᑦ ᐱᔭᕇᖅᑕᐅᓂᖏᑦ ᐅᕝᕙᓗᓐᓂᑦ ᓲᓕ ᑲᒪᒋᔭᐅᕙᓪᓕᐊᔪᑦ ᒪᑯᓂᖓ ᐃᓚᖃᖅᐳᑦ:

- ᑲᒪᒋᔭᐅᓗᑎᒃ ᑐᑭᓕᐅᖅᑕᐅᓪᓗᑎᓪᓗ ᐊᐅᓚᑦᑎᔨᐅᖃᑕᐅᔪᓄᑦ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᓂᒃ ᓄᓇᑦᓯᐊᕐᒥ ᑕᐃᒃᑯᓄᖓ ᓄᓇᑦᓯᐊᑉ ᒐᕙᒪᒃᑯᖏᓐᓄᑦ, ᐃᖃᓇᐱᔭᕐᕕᖓᓂ ᐊᕙᑎᓕᕆᔨᒃᑯᑦ ᓄᓇᒥᐅᑕᓕᕆᔨᒃᑯᓪᓗᑦ, ᐆᒪᔪᐃᑦ ᐊᐅᓚᑕᐅᕙᓂᖏᓐᓄᑦ ᐅᖃᐅᔾᔨᒋᐊᖅᑏᑦ ᑲᑎᒪᔨᖏᑦ, (ᓄᓇᑦᓯᐊᕐᒥ), ᐃᓄᕕᐊᓗᐃᓪᓗ ᐊᖑᓇᓱᒃᑐᓕᕆᔩᑦ ᑲᑎᒪᔨᖏᓐᓂᒃ, ᐊᖑᓇᓱᒃᑏᑦ ᑲᑎᒪᔨᕋᓛᖏᑦ, ᐊᒻᒪᓗ ᓄᓇᕗᒻᒥ, ᓄᓇᕗᑦ ᒐᕙᒪᒃᑯᑦ ᐊᕙᑎᓕᕆᔨᒃᑯᖏᑦ, ᐆᒪᔪᓕᕆᔨᕐᔪᐊᒃᑯᑦ ᐊᒻᒪᓗ ᐊᖑᓇᓱᒃᑎᑦ ᑲᑐᔾᔨᖃᑎᒌᖏᑦ.
- ᑲᔪᓯᔪᓂᒃ ᐱᓕᕆᖃᑎᒌᒃᑐᑦ ᐊᐅᓚᑦᑎᓂᕐᒥᒃ, ᓴᐳᓐᓂᐊᓂᕐᒥᒃ, ᖃᐅᔨᓴᕐᓂᕐᒥᒃ ᐊᒻᒪᓗ ᓇᐅᑦᑎᖅᑐᐃᓂᕐᒥᒃ ᐱᓕᕆᓂᕐᒥ ᓄᓇᑦᓯᐊᕐᒥ ᓄᓇᕗᒻᒥ ᐊᐅᓚᑦᑎᔨᐅᖃᑕᐅᓂᕐᒧᑦ ᐱᔪᓐᓇᐅᑎᖃᕐᓂᖏᓐᓂ.

ᑕᑯᓗᒋᑦ ᐊᕕᒃᑐᖅᓯᒪᓂᖏᑦ 5 ᑕᒥᒃᑭᖅᑐᓂᒃ ᑕᑯᔭᒪᒍᕕᒃ ᑭᓇᒃᑰᓂᖏᓐᓂᒃ ᐃᓚᒋᔭᐅᓂᖏᑦ.

ᐊᕕᒃᑐᖅᓯᒪᓂᖏᑦ 5. ᓇᐃᓈᖅᑕᐅᓯᒪᔪᑦ ᐱᔮᕇᖅᑕᐅᔪᑦ ᑲᔪᓯᔪᓪᓗᓃᑦ ᐊᒥᓱᐳᖅᓰᓂᕐᒧᑦ ᐱᓕᕆᐊᕆᔭᐅᔪᑦ

ᓱᓇᒥᒃ	ᐊᕕᒃᑐᖅᓯᒪᓂᖏᑦ/ᑲᑐᔾᔨᖃᑎᒌᒍᓐᓃᑦ	ᐊᒥᓱᐳᖅᓰᓂᕐᒧᑦ ᐊᐅᓚᑎᓂᕐᒨᒍᓐᓃᑦ ᐱᓕᕆᐊᕆᔭᐅᔪᑦ
ᖃᐅᔨᓴᕐᓂᖅ	ᓄᓇᕗᑦ-ᐊᕙᑎᓕᕆᔨᖏᑦ ᓄᓇᒥᐅᑕᓕᕆᔨᖏᓪᓗ, ᓄᓇᕘᑦ ᒐᕙᒪᐃᑦ-ᐊᕙᑎᓕᕆᔩᒃᑯᑦ ᐊᒻᒪᓗ ᒥᕐᖑᐃᖅᓯᕐᕕᓕᕆᔩᒃᑯᑦ ᑲᓇᑕᒥ	ᐃᓕᑕᕆᔭᐅᓂᖏᑦ ᓇᓗᓇᐃᖅᑕᐅᓂᖏᓪᓗ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖃᕐᕕᐅᔪᑦ, ᐋᖓᕐᒥᐊᖅᑕᐅᑎᒃᑳᓂᕐᓂᖏᑦ ᑐᒃᑐᖃᕐᕕᐅᕙᓐᓂᖏᑦ ᑕᒪᒃᑯᓂᙵ ᓇᓗᓇᐃᖅᑕᐅᓂᖏᓐᓂ ᖃᓄᐃᓕᙵᕙᓐᓂᖏᓐᓂᓗ ᕿᑭᖅᑕᒐᔭᐅᔾᔮᒃ ᔫᖃᑦᑐᕐᓂᖏᑦ ᒪᑯᓂᙵ ᐊᑐᖅᐸᓐᓂᖏᓐᓂ: • ᐃᓄᐃᑦ ᖃᐅᔨᒪᔭᑐᖃᖏᑦ/ᐱᐅᓯᑐᖃᕐᓂᒃ ᐊᕙᑎᒥᒃ, ᐊᕙᑎᓕᕆᓂᕐᒥᓪᓗ ᖃᐅᔨᒪᔭᐅᔪᑦ, ᓄᓇᓕᓐᓄᑦ ᖃᐅᔨᒪᔭᐅᓂᖏᓐᓂ ᐊᒻᒪᓗ ᓈᒪᔪᓂᒃ ᖃᐅᔨᓴᕈᓯᐅᕐᑯᔭᐅᔪᓂᒃ ᐊᑐᕐᓗᑎᒃ • ᐊᖏᔫᑎᓂᒃ ᑕᐃᒪᐃᓐᓂᒃ ᐆᒪᔪᐃᑦ ᑕᐅᑐᙱᓂᒃ ᓴᓇᒪᓂᖏᓐᓂᓗ ᑐᑭᓯᓂᐊᕈᑕᐅᓂᖏᑦ ᐊᑐᖅᑕᐅᓗᑎᒃ ᑐᒃᑐᐃᑦ ᐊᓇᖏᑦ ᐊᒻᒪ ᑕᒪᑯᐊ ᐃᓄᐃᑦ ᖃᐅᔨᒪᔭᑐᖃᖏᑦ/ᐱᐅᓯᑐᖃᕐᓂᒃ ᐊᕙᑎᒥᒃ ᐊᕙᑎᓕᕆᓂᕐᒥᓪᓗ ᖃᐅᔨᒪᔭᐅᔪᑦ • ᐊᑐᖅᑕᐅᓂᖏᑦ ᖃᐅᔨᒪᔾᔪᑎᖃᐃᑦ ᖃᐅᔨᔪᒪᓂᕐᒧᑦ ᓇᓃᑦᑐᒪᓂᖅᓴᐅᖃᑕᕐᒪᙱᑕ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᐃᑦ ᐅᑭᐅᖅᐸᓯᒃᑯᑦ ᐊᐅᔭᒃᑯᓪᓗ ᑕᐅᕙᓂ ᐊᐅᓚᕕᖕᒥ ᑲᓇᑕᓕᒫᒥ ᒥᕐᖑᐃᖅᓯᕐᕕᖓᓂ • ᖃᐅᔨᓴᖅᑕᐅᓂᖏᑦ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᓄᑦ ᓂᕿᖃᕆᔭᐅᕙᓐᓂᖏᑦ ᑕᐅᕙᓂ ᑕᐅᕙᓂ ᐊᐅᓚᕕᖕᒥ ᑲᓇᑕᓕᒫᒥ ᒥᕐᖑᐃᖅᓯᕐᕕᖓᓂ
	ᓄᓇᕗᑦ-ᐊᕙᑎᓕᕆᔩᒃᑯᑦ ᓄᓇᒥᐅᑕᓕᕆᔨᓪᓗ ᐊᒻᒪᓗ ᐆᒪᔪᐃᑦ ᐊᐅᓚᑕᐅᓂᖏᓐᓄᑦ ᐅᖃᐅᔾᔨᒋᐊᖅᑎᑦ ᑲᑎᒪᔨᖏᑦ (ᓄᓇᑦᓯᐊᕐᒥ)	ᑎᑎᕋᖅᑕᐅᓂᖏᑦ ᐱᐅᓯᑐᖃᐃᑦ ᐊᕙᑎᓕᕆᓂᕐᒥᒃ ᖃᐅᔨᒪᔭᐅᓂᖏᑦ ᐊᒻᒪᓗ ᓄᓇᓖᑦ ᖃᐅᔨᒪᓂᖏᑦ ᑕᒪᑯᓂᖓ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ ᐊᐱᖅᓱᖅᑕᐅᕝᓯᑎᒃ ᖃᐅᔨᒪᔨᑕᐃᑦ ᐅᓚᒃᕼᐊᖅᑑᒥ, ᓄᓇᑦᓯᐊᖅ. ᐱᓕᕆᖃᑎᒌᓐᒋᑦ ᐊᓯᖏᑦ ᓄᓇᓖᑦ ᓯᓕ ᑲᔪᓯᐊᕐᓂᐊᖅᑐᑦ.
	ᓄᓇᕘᑦ ᒐᕙᒪᐃᑦ-ᐊᕙᑎᓕᕆᔩᒃᑯᑦ	ᐱᓕᕆᖃᑎᒋᔭᐅᓂᖏᑦ ᐊᒥᐊᓕᑲᒥᐅᑦ ᐃᓕᓐᓂᐊᕐᑯᑖᕝᕕᖓᑦ ᔫᑖᒥ (Utah State University) ᑐᑭᓯᓂᐊᖅᑕᐅᓂᕐᒧᑦ ᓇᓃᖃᑦᑐᕐᓂᖏᑦ, ᓇᓂ ᐃᓂᖃᓰᙱᓂᖏᑦ ᐊᒻᒪᓗ ᑐᒃᑐᓯᐅᖅᑕᐅᖃᑦᑐᕐᓂᖏᓐᓂ ᐊᒪᕈᖅᓇᖅᑐᑦ ᑕᐅᕙᓂ Fosheim Peninsula-ᑉ ᓄᕚᓂ ᐊᒻᒪᓗ ᓇᐹᖅᑐᓕᖕᒥ ᐅᒥᖕᒪᐃᑦ ᕿᑭᖅᑕᖏᓐᓂ. ᖃᐅᔨᒪᔾᔪᑎᖃᓂᒃᓯᒪᓕᖅᑐᑦ ᑕᓕᒪᓂᒃ ᐊᒪᕈᖃᕐᕕᐅᕙᒃᑐᓂᒃ, ᐱᖓᓱᐃᓪᓗ ᐊᒪᕈᐃᑦ ᒫᓇᒨᖅ ᖁᖓᓯᕈᑎᖅᑕᐅᓚᐅᖅᑐᑦ.
	ᓄᓇᑦᓯᐊᕐᒥ/ᓄᓇᕘᒧᑦ: ᓄᓇᕗᑦ ᐆᓇᐅᔭᒃᓴᓂᒃᓯᕙᒃᑐᑦ ᐆᒪᔪᓕᕆᓂᕐᒧᑦ	ᑲᑎᖅᓱᖅᑕᐅᓂᖏᑦ ᐃᓄᐃᑦ ᖃᐅᔨᒪᔭᑐᖃᖏᑦ/ᐱᐅᓯᑐᖃᕐᓂᒃ ᐊᕙᑎᒥᒃ ᐊᕙᑎᓕᕆᓂᕐᒥᓪᓗ ᖃᐅᔨᒪᔭᐅᔪᑦ ᖃᐅᔨᓴᖅᑎᓄᓪᓗ ᖃᐅᔨᔭᐅᓂᖏᑦ ᑭᖑᓪᓕᕐᒥ ᓯᑯᓯᒪᕐᔪᐊᓚᐅᕐᓂᕐᒥᒃ ᓄᓇᓂᒃ (ᐅᑭᐅᖅᑕᖅᑐᒥ ᑲᒪᒃᑯᐊ ᐊᐅᔭᒃᑯᑦ ᓯᑯᖃᐃᓐᓇᕐᓂᐊᕋᓱᒋᔭᐅᓂᖏᑦ ᑎᑭᓪᓗᒍ ᑕᒪᐅᖓ 2050[6]).
	ᓄᓇᕗᑦ-ᐊᕙᑎᓕᕆᔨᖏᑦ ᓄᓇᒥᐅᑕᓕᕆᔨᖏᓪᓗ, ᒥᕐᖑᐃᖅᓯᕐᕕᓕᕆᔩᒃᑯᑦ ᑲᓇᑕᒥ, ᐆᒪᔪᐃᑦ ᐊᐅᓚᑕᐅᓂᖏᓐᓄᑦ ᐅᖃᐅᔾᔨᒋᐊᖅᑎᑦ ᑲᑎᒪᔨᖏᑦ - ᓄᓇᑦᓯᐊᕐᒥ, ᐃᓄᐃᑦ ᑕᐱᕇᑦ ᑲᓇᑕᒥ	ᖃᐅᔨᓴᕈᑎᖃᐃᑦ ᐱᒋᐊᖅᑎᑕᐅᓚᐅᖅᑐᑦ ᓄᓈᓖᑦ ᐱᓕᕆᖃᑎᒋᓪᓗᒋᑦ ᑖᒥᓂ ᓄᓇᑦᓯᐊᖅ ᐊᒻᒪ ᓄᓇᕘᑦ 1 - ᑎᑎᕋᖅᑕᐅᓂᖏᓐᓂ ᐃᓄᐃᑦ/ᐃᓄᕕᐊᓗᐃᑦ ᖃᐅᔨᒪᓂᖏᑦ ᐊᒃᑐᖅᑕᐅᔫᓇᕐᓂ ᓯᓚᐅᑉ ᐊᓯᔾᔨᖅᐸᓪᓕᐊᓂᖏᑦ ᓄᓇᒦᑦᓴᐃᓈᖃᑕᐹᓇᕐᓂᖏᑦ ᑕᒪᒃᑯᐊ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᐃᑦ, ᐃᒥᖕᒪᐃᑦ, ᑕᒪᒃᑯᓂᖓ ᐆᒪᔪᐃᑦ ᓂᕿᖃᖅᓯᐅᖅᐸᒃᑐᑦ, ᐊᒻᒪᓗ 2 - ᖃᐅᔨᓴᕐᓗᒋᑦ ᖃᓄᖅ ᓯᓚᐅᑉ ᐊᓯᔾᔨᖅᐸᓪᓕᐊᓂᖓᓄᑦ ᐊᒃᑐᖅᑕᐅᕙᓪᓕᐊᓂᖏᑦ ᐊᐅᑦ ᐱᕈᖅᑐᓪᓗ ᐊᒻᒪᓗ ᖃᓄᖅ ᑕᒪᒃᑯᐊᑕᐅᖅ ᐊᒃᑐᖅᓯᓗᑕᐅᕙᙱᓚᙱᑦ ᑕᒪᒃᑯᓂᖓ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ. ᑕᒪᒃᑮᕆᐊᕐᓗᑎᒃ ᖃᐅᔨᓴᕈᓯᖃᕐᓂᕐᒧᑦ ᑐᑭᓯᓂᐊᖅᑕᐅᔫᓇᕐᒪᑕ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᐃᑦ ᐊᒥᒫᓂᖏᑦ ᓇᓗᓇᐃᖅᑕᐅᓗᑎᒡᓗ ᐱᒻᒪᕆᐅᔫᓂᖏᑦ ᓇᔪᒐᕆᕙᒃᑕᖏᑦ.

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[6] ᓄᓇᕗᑦ ᐆᒪᔪᓕᕆᓂᕐᒧᑦ ᑮᓇᐅᔭᒃᓴᓂᒃᓯᕙᒃᑐᑦ. 2015. ᑕᐃᔅᓯᒪᓂ ᓇᓂ ᓯᑯᐃᓐᓇᐅᓚᐅᖅᓯᒪᓂᖅ. http://wwf.panda.org/what_we_do/where_we_work/arctic/last_ice_area/ *ᑐᑭᓯᓂᐊᕐᕕᐅᓚᐅᖅᑐᑦ ᓯᑎᐱᕆ 1 2015.*

	(ITK), ᐊᕙᑎᓕᕆᔨᕐᔪᐊᒃᑯᑦ, ᐃᓕᓐᓂᐊᒃᑯᑖᒃᕕᖕᒐᑦ ᓱᐳᕈᒃᒥ, ᒪᒋᐅᓪᒥ ᐃᓕᓐᓂᐊᒃᑯᑖᒃᕕᖕᒐᑦ ᐊᒻᒪᓗ ᑐᕌᓐᑐᒥ ᐃᓕᓐᓂᐊᒃᑯᑖᒃᕕᖕᒐᑦ	
ᓇᐅᑦᑎᖅᑐᐃᓂᖅ	ᓄᓇᕐᔪᐊᕐᒥ-ᐊᕙᑎᓕᕆᔨᒃᑯᑦ ᓄᓇᒥᐅᑕᓕᕆᔩᓪᓗ ᐊᒻᒪᓗ ᒥᕐᖑᐃᖅᓯᕐᕕᓕᕆᔨᒃᑯᑦ ᑲᓇᑕᒥ ᓄᓇᕗᑦ ᒐᕙᒪᐃᑦ-ᐊᕙᑎᓕᕆᔨᒃᑯᑦ ᓄᓇᑦᓯᐊᕐᒥ ᓄᓇᓖᑦ ᐊᒻᒪᓗ ᓄᓇᕐᔪᐊᕐᒥ-ᐊᕙᑎᓕᕆᔨᖏᑦ ᓄᓇᒥᐅᑕᓕᕆᔨᖏᓪᓗ ᓄᓇᑦᓯᐊᖅ ᐊᒻᒪ ᓄᓇᕗᑦ	ᐊᒥᓲᓂᖏᑦ ᖃᐅᔨᓴᖅᑕᐅᕙᒃᑐᑦ ᖃᓂᒋᔭᖏᓐᓂ ᑕᓕᒪᑕᒪᑦ ᐊᕐᕋᒍᓂ ᖃᓃᖑᓂᖏᓐᓂ ᓄᓇᓕᖕᓄᑦ, ᐊᒥᓱᐃᖅᑕᐅᖏᓐᓂᖅᓴᐅᓗᑎᒃ ᐅᖓᓯᖕᓂᖅᓴᓃᑦᑐᑦ. ᓄᓇᓖᑦ ᓇᐅᑦᑎᖅᑐᐃᔨᖏᑦ ᖃᐅᔨᑎᑦᑎᕙᒃᑐᑦ ᐃᓱᒪᓕᐅᕈᑕᐅᓂᖏᓐᓂᒃ ᖃᐅᔨᒋᐊᖅᑕᐅᔪᓐᓇᕐᓂᖅ. ᖃᐅᔨᓴᖅᑕᐅᖃᑕᐃᓐᓇᖅᑐᑦ ᑕᐃᒪᖕᒐᑦ ᕿᑭᖅᑕᓂᖃᑦᑕᕐᓂᖏᑦ ᐊᑐᖅᑕᐅᓪᓗᑎᒡᓗ ᓄᓇᓕᖕᓂ ᓇᐅᑦᑎᖅᑐᐃᔩᑦ ᖃᐅᔨᑎᑦᑎᖃᑦᑕᕐᒪᑦ ᖃᓄᖅ ᐊᓯᔾᔨᖅᓂᖏᓐᓂᒃ ᑐᒃᑐᐃᑦ ᐊᒥᓲᓂᖏᑦ, ᖃᐅᔨᒋᐊᖅᑕᐅᖁᔭᐅᓗᑎᒃ ᓄᑖᕈᕆᐊᖅᑕᐅᓗᑎᒃ ᓇᓚᐅᑖᕈᑏᑦ ᐊᒥᓱᓂᖏᓐᓂ ᑐᒃᑐᐃᑦ. ᓄᓇᓕᖕᓂ ᖃᐅᔨᓴᖅᑕᐅᖃᑦᑕᕐᓂᖏᑦ, ᖃᓄᐃᖏᓂᖏᑦ, ᖃᓄᐃᓕᕐᓂᖏᑦ, ᓴᓇᒪᓂᖏᓪᓗ ᑕᐅᑐᑐᖏᑦ ᖃᐅᔨᓴᖃᒃᓴᐃᔭᐃᕕᐅᖃᑦᑕᕐᒪᑕ ᑐᒃᑐᑕᐅᓯᒪᔪᓂᒃ ᓇᐅᑦᑎᖅᑐᓂᕐᒧᑦ ᑎᒥᖏᓐᓂᒃ, ᓂᕿᑭᕙᒃᑕᖏᓐᓂᒃ, ᐊᕐᓇᓪᓘᓂᖏᓐᓂᒃ ᐊᖑᓴᓪᓘᓂᖏᓐᓂᒃ, ᐅᑭᐅᖃᕐᓂᖏᓐᓂᓗ ᑐᒃᑐᑕᐅᓯᒪᔪᑦ ᓄᓇᑦᓯᐊᕐᒥ. ᑕᐃᓖᑦᓴᐃᓐᓇᖅᑕᐅᖅ ᖃᐅᔨᓴᖅᑕᐅᒋᐊᕐᓂᐊᕐᒥᔪᑦ ᓄᓇᕗᒻᒥ ᓯᕗᓂᒃᓴᒥ. ᐊᑐᖅᑕᐅᓕᖅᑐᑦ ᓄᓇᑦᓯᐊᕐᒥ ᓄᓇᕗᒻᒥᓗ ᑲᑎᖅᓱᐃᕝᕕᐅᖃᑦᑕᕐᓂᖏᑦ ᖃᐅᔨᓴᕐᓴᒃᓂᒃ ᐊᒪᕈᖅᑕᐅᓯᒪᔪᓂ, ᐊᓐᓴᑕᐅᓯᒪᔪᓪᓗ ᖃᐅᔨᔪᒪᓗᒋᑦ ᖃᓄᐃᓂᖏᑦ ᓇᓅᓂᖏᓪᓗ ᑐᒃᑐᓂᒃ ᓂᕿᒃᓴᖅᓯᐅᖅᐸᖕᓂᖏᑦ ᐆᒪᔪᐃᑦ.

ᒪᓕᒐᓕᐅᑐᐃᑦ / ᒪᓕᒐᕋᓛᑦ / ᐃᑲᔪᕐᓂᕐᒧᑦ ᐊᑭᓕᖅᑕᐅᒐᑎᒃ ᐱᓕᕆᐊᑦ (ᐊᒻᒪᓗ ᐱᖃᓯᐅᑎᓗᒍ ᐊᖑᓴᒃᑕᐅᓂᖏᑦ)	ᓄᓇᑦᓯᐊᑉ ᑲᕙᒪᐃᑦ ᐊᒻᒪᓗ ᓄᓇᕗᑦ ᑲᕙᒪᐃᑦ	<u>ᐊᐅᓚᑕᐅᓂᖏᓐᓄᑦ ᓴᐳᓐᓂᐊᖅᑕᐅᓂᖏᓐᓄ</u> ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ: ᓄᓇᑦᓯᐊᑉ ᑲᕙᒪᐃᑦ: ᒪᓕᒐᐅᑎᑦᑎᔪᑦ ᐊᑐᖅᓱᑎᒃ ᒪᓕᒐᕋᓛᖏᓐᓂᒃ ᑎᑎᕋᖅᓯᒪᖕᒪᑕ ᒪᓕᒐᓕᐅᑐᕆᔭᐅᔪᓄᑦ ᓄᓇᑦᓯᐊᕐᒥ ᐆᒪᔪᓕᕆᓂᕐᒧᑦ ᒪᓕᒐᖅᑎᒍᑦ ᐊᑎᓕᐅᖅᑕᐅᖃᑕᕐᒪᑦ ᓄᓇᓕᖕᓂ ᐊᖑᓇᓱᒃᑏᑦ ᑲᑎᒪᔨᕋᓛᖏᓐᓄᑦ. ᓄᓇᕗᑦ ᑲᕙᒪᐃᑦ: (ᑕᒪᐃᓐᓂ ᐃᓗᓕᖏᑦ ᒪᓕᒐᓕᕆᔨᑦ ᐸᒃᑮᓭᑕᐅᖃᑦᑕᕆᐊᖃᕐᓂᖏᓐᓄᑦ ᐅᒪᔪᐃᑦ) ᐊᑐᓕᖅᑎᑕᐅᕙᒃᑐᑦ ᑕᐃᒫᓐᓇ ᒪᓕᒐᓗᒃᑎᒍᑦ ᑎᑎᕋᖅᓯᒪᔪᓂ ᓄᓇᕗᒻᒥ *ᐆᒪᔪᓕᕆᓂᕐᒧᑦ ᒪᓕᒐᕐᓂ ᐊᒻᒪᓗ ᒪᓕᒐᕋᐅᖏᓐᓂ ᑎᑎᕋᖅᑕᐅᕙᒃᑐᓂᒃ* ᓄᓇᓕᖕᓂ ᐊᖑᓇᓱᒃᑎᒃᑯᓐᓄᑦ ᐊᒻᒪᓗ ᐊᕕᒃᑐᖅᓯᒪᓂᖏᓐᓂ ᐊᖑᓇᓱᒃᑎᓕᒫᑦ ᑎᒥᖁᑎᖏᓐᓄᑦ.
		<u>ᐊᖑᓇᓱᖕᓂᖅ – ᓄᓇᓕᖕᓂ ᒪᓕᕆᐊᓖᑦ ᐊᒻᒪᓗ ᒪᓕᒐᓕᐅᕐᓕᐅ</u>
	ᓄᓇᑦᓯᐊᖅ: ᐅᓗᒃᕼᐊᖅᑑᑉ ᐊᒻᒪᓗ ᐃᑳᕼᐆᑉ ᓄᓇᖏᒃ	ᓯᕗᓪᓕᕐᒥ ᐃᓱᒪᕆᔭᐅᓚᐅᖅᑐᑦ ᐊᔪᕐᓇᖅᑎᑕᐅᔭᕆᐊᖃᕐᓂᖏᓐᓂᒃ ᐊᒻᒪᓗ ᐃᓱᒪᖅᓱᖅᑎᑕᐅᓗᑦ ᐊᖑᓇᓱᒃᑕᐅᑎᑦᑎᑕᐃᓕᒪᓂᖅᓂ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ, ᐊᒻᒪᓗ ᒪᓇᐅᓕᖅᑐᖅ ᑎᑎᕋᖅᓯᒪᓕᖅᑐᑦ ᒪᓕᒐᓕᐅᑐᖏᓐᓂ[7].
	ᓄᓇᑦᓯᐊᑉ ᑲᕙᒪᐃᑦ ᐊᒻᒪᓗ ᓄᓇᑦᓯᐊᕐᒥ: ᓄᓇᓖᑦ	ᓄᓇᑦᓯᐊᕐᒥ, ᐊᐅᓚᑕᐅᕆᐊᓕᓚᐅᖅᑐᑦ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ ᑕᒪᓂ 1990-ᖏᓐᓂ ᐃᓱᒪᖅᓯᑕᐅᓗᑎᒃ ᑕᐃᒪᐃᖁᔨᓪᓗᑎᒃ. ᑐᒃᑐᕝᕕᐅᔪᓐᓇᕐᓂᖏᓐᓂᒃ ᐊᕿᒃᓯᓚᐅᖅᑐᑦ, ᒪᓕᒃᑕᐅᖃᖅᓯᑎᒃ ᖃᐅᔨᒪᔪᑎᒃᓴᐃᑦ ᑰᑕᒃᑯᑦ ᐊᑐᓕᖅᑎᑕᐅᓚᐅᕐᓂᖏᓐᓂᒃ ᐊᐅᓚᑦᑎᕝᕙᓂ.
	ᓄᓇᑦᓯᐊᖅ: ᐃᑳᕼᐆᑉ	ᐊᕐᕌᒍᖏᓐᓂ 1990, ᐃᓱᒪᓘᑕᐅᓕᕋᒃ ᐊᒥᖓᖏᓗᐊᓕᕐᓂᖏᓐᓂᑦ, ᐃᑳᕼᐆᑉ ᐊᖑᓇᓱᒃᑏᑦ ᑲᑎᒪᔩᑦ ᑐᒃᑐᒍᓐᓇᖅᑎᑦᑎᓕᓚᐅᖅᑐᑦ ᐊᖑᓴᓕᐃᓇᕐᓂᒃ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᓐᓂᒃ ᑕᐅᕙᓂᑦ ᐃᑳᕼᐆᑉ ᕿᑭᖅᑕᖓᓂ ᑎᑎᕋᑕᐅᕋᑕᓕᓚᐅᖅᑐᓂᒃ ᒪᓕᒐᓕᐅᑐᕐᓄᑦ. ᒫᓇᓵᖅ ᒪᓕᒐᓕᐅᑐᐃᑦ ᐊᓯᔾᔨᖅᑕᐅᓚᐅᖅᑐᑦ ᑰᑕᑲᕈᑕᐅᓕᖅᓯᑎᒃ ᐊᒥᓲᓂᖏᓐᓂᒃ ᑐᒃᑐᓄᓇᐅᑎᓂᒃ, ᖃᐃᑦᑎᖃᑦᑯᔭᐅᓕᓗᑎᓪᓗ ᖃᐅᔾᔮᕆᒃᓴᓂᒃ ᑐᒃᑐᑕᒥᓂᒃ.
	ᓄᓇᑦᓯᐊᖅ: ᐅᓗᒃᕼᐊᖅᑑᖅ	ᑕᒫᓂ 1993-ᒥ, ᑕᐃᒃᑯᐊ ᐅᓗᒃᕼᐊᖅᑑᕐᒥᐅᑦ ᐊᖑᓇᓱᒃᑏᑦ ᑲᑎᒪᔩᑦ ᐱᒋᑲᐊᖅᑎᑦᑎᓚᐅᖅᑐᑦ ᑐᒃᑐᕝᕕᐅᑦᑕᐃᓕᒪᑎᑦᑎᓂᕐᒥᒃ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᓐᓂᒃ ᑕᐅᕙᖓᑦ ᐅᐊᖕᓇᖅᐸᓯᖓᑕ ᐱᖓᓐᖓᓂ ᑭᓕᓂᐅᑉ, ᑕᐃᒫᒃ ᑕᐃᒃᑯᐊᑐᐊᓐ ᐃᓗᐃᓪᓕᒥ ᑭᓕᓂᕐᒧ ᑐᒃᑐᖏᑦ ᑐᒃᑐᓯᐅᕝᕕᐅᓗᓐᓇᕐᓂᖏᓐᓂᒃ ᑕᐃᒃᑯᓂᖓᐅᖏᑦᑐᖅ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᓐᓂᒃ. ᑕᒪᓐᓇ ᑭᖑᓂᐊᒍᑦ ᒪᓕᒐᓕᐅᕐᓂᕐᒧᑦ ᑎᑎᕋᖅᑕᐅᓚᐅᖅᑐᑦ ᐊᒻᒪᓗ ᑯᑕᒃᖅᑎᑕᐅᓗᑎᒃ ᑐᒃᑐᓄᓇᐅᑎᓂᒃ ᖃᐃᑦᑎᖃᑦᑯᔭᐅᓕᓗᑎᓪᓗ ᖃᐅᔾᔮᕆᒃᓴᓂᒃ ᑐᒃᑐᑕᒥᓂᒃ.
	ᓄᓇᕗᒻᒥ: ᓄᓇᓖᑦ	ᒪᑐᔭᐅᓯᒪᔪᑦ, ᐃᓚᐃᓐᓇᒪᕆᖏᓐ ᐊᒻᒪᓗ/ᐅᕝᕙᓘᓐᓃᑦ ᐊᐅᓚᑕᐅᓗᑎᒃ ᑐᒃᑐᓯᐅᕝᕕᐅᔪᓐᓇᕐᓂᖏᑦ ᐃᓄᖕᓄᑦ ᓄᓇᕗᒻᒥ ᐃᓱᒪᖅᓱᕐᓗᑎᒃ. ᐃᓚᖏᑦ ᐆᒃᑑᑏᑦ[8]: • 1986-ᒥᒃ ᑎᓪᓗᒍ 1996-ᒧᑦ, ᐊᐃᕙᒃᑯᑦ ᐊᖑᓇᓱᒃᑎᖏᑦ ᐊᐅᓯᐃᑦᑐᕐᒥ ᐱᒋᐊᖅᑎᑦᑎᓚᐅᖅᑐᑦ ᐃᓱᒪᖅᓱᕐᓂᕐᒥᒃ ᐊᑐᖅᓱᑎᒃ ᑐᒃᑐᕝᕕᐅᑦᑕᐃᓕᒪᑎᑦᑎᓂᖅ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᓐᓂᒃ ᐊᖏᔪᐊᓗᖕᒥ ᓂᒋᐊᓂ ᑕᐅᕙᓂ ᐊᐅᓯᐃᑦᑑᑉ ᕿᑭᖅᑖᓗᐊᓂ. • ᖃᐅᓯᐃᑦᑑᑉ ᐊᖑᓇᓱᒃᑎᖏᑦ ᐱᒋᐊᖅᑎᑦᑎᓚᐅᖅᑐᑦ ᐊᖑᓇᓱᒡᕕᐅᑎᑦᑎᑕᐃᓕᓂᖅ ᑐᑐᓕᐊᕐᕕᖕᓂ ᐊᕐᕌᒍᓂᒃ ᑕᒫᓂ 1975-1989, ᐅᖓᕙᓇᐊᑕᖅᐅᓚᐅᖅᑐᓂᓗ ᑕᒪᐅᖓ 1982 Cornwallis ᕿᑭᖅᑕᖓᓄᑦ ᐊᓯᖏᓄᓪᓗ ᕿᑭᖅᑕᖏᓐᓄᑦ.

[7] ᐃᑳᕼᐅᖕᒥ ᓄᓇᓖᑦ ᓴᐳᓐᓂᐊᕐᓂᖏᓐᓄᑦ ᐸᕐᓇᐅᑏᖏᑦ (1992, 2000, 2008, 2016); ᐅᓗᒃᕼᐊᖅᑑᕐᒥ ᐃᑳᕼᐅᖕᒥ ᓄᓇᓖᑦ ᓴᐳᓐᓂᐊᕐᓂᖏᓐᓄᑦ ᐸᕐᓇᐅᑏᖏᑦ (2008, 2016).
[8] ᓄᓇᕗᑦ ᑲᕙᒪᐃᑦ. 2014.

		ᐊᒻᒪᑕᐅᖅ, ᖃᐅᓱᐃᑦᑑᑉ ᐊᖑᓇᓱᒃᑎᖏᑦ ᐊᔪᖅᑎᑦᑎᓚᐅᖅᑐᑦ ᐊᖑᓇᓱᒡᕕᐅᔪᓐᓇᕐᓂᖏᓐᓂᒃ ᕿᑎᖅᐸᓯᖏᓐᓂ 1990-ᖏᓐᓂ ᐅᑭᐅᖕᒐᓄᑦ ᑎᑭᓪᓗᒍ 2000-ᒥᒃ 2001-ᒧᑦ, ᑐᒃᑐᓕᐊᕐᕕᐅᑉ ᕿᑭᖅᑖᖕᒐᓂ.
ᓴᐳᓐᓂᐊᖅᑕᐅᓪᕚᑦ	ᓄᓇᑦᓯᐊᕐᒥ/ᓄᓇᕗᒻᒥᒧ: ᒥᕐᖑᐃᖅᓯᕐᕕᓕᕆᔨᒃᑯᑦ ᑲᓇᑕᒥ	1988-ᒥ, ᖁᑦᑎᓂᖅᐹᒥ ᑲᓇᑕᓕᒫᒥ ᒥᕐᖑᐃᖅᓯᕐᕕᒃ ᓴᕿᑎᑕᐅᓚᐅᖅᑐᖅ. ᖁᑦᑎᓂᖅᐹ 1992-ᒥ, ᐊᐅᓚᕕᒃ ᑲᓇᑕᓕᒫᒥ ᒥᕐᖑᐃᖅᓯᕐᕕᒃ ᓴᕿᑎᑕᐅᓚᐅᖅᑐᖅ. 2015-ᒥ, ᖃᐅᓱᐃᑦᑐᖅ ᑲᓇᑕᓕᒫᒥ ᒥᕐᖑᐃᖅᓯᕐᕕᒃ ᓴᕿᑎᑕᐅᓚᐅᖅᑐᖅ ᑐᒃᑐᓯᐅᕐᕕᐅᓂᖓᓂ, ᓄᓇᕗᒻᒥ, ᐱᒻᒪᕆᐅᖓᒪᑦ ᐱᑕᖃᕐᓂᖏᓐᓄᑦ ᑕᐅᕙᓂ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᓐᓄᑦ. 2019-ᒥ, ᐊᖏᕈᑎᓕᐅᓚᐅᖅᑐᑦ ᑲᓇᑕᓗ ᐃᓄᐃᓪᓗ ᕿᑭᖅᑖᓘᖏ ᓴᕿᑎᑦᑎᓂᕐᒧᑦ ᑕᓪᓗᕈᑏᑦ ᐃᒪᖓᓂᒃ ᑲᓇᑕᓕᒫᒥ ᓴᐳᓐᓂᐊᖅᑕᐅᕝᓴᓂᖓᓂᒃ. ᐱᓕᕆᓕᖅᑐᑦ ᐃᓚᒋᓪᓗᒋᑦ ᑲᓇᑕᒥ ᑕᕆᐅᕐᒥ ᐃᒪᕐᓂ ᓴᐳᓐᓂᐊᖅᑕᐅᕝᓴᖓᓄᑦ ᒪᓕᒐᓕᕆᓂᖏᓐ.
ᓄᓇᐃᑦ ᐋᑐᑎᒃᓴᖏᓐᓂᒃ ᐸᕐᓇᐅᑏᑦ	ᓄᓇᑦᓯᐊᖅ: ᐆᒪᔪᐃᑦ ᐊᐅᓚᑕᐅᕙᓂᖏᓐᓄᑦ ᐅᖃᐅᓯᔾᔨᓯᐊᖅᑏᑦ ᑲᑎᒪᔨᖏᑦ (ᓄᓇᑦᓯᐊᕐᒥ) ᓄᓇᑦᓯᐊᖅ: ᐃᑳᕼᐆᑉ, ᐅᓗᒃᕼᐊᖅᑑᖅ ᐊᒻᒪᓗ ᐸᐅᓗᑑᑉ	ᐆᒪᔪᐃᑦ ᐊᐅᓚᑕᐅᕙᓂᖏᓐᓄᑦ ᐅᖃᐅᓯᔾᔨᓯᐊᖅᑏᑦ ᑲᑎᒪᔨᖏᑦ (ᓄᓇᑦᓯᐊᕐᒥ) ᑲᒪᔨᐅᕗᑦ ᐃᑲᔪᕐᓂᖅ ᓄᓇᓕᖕᓂ ᐸᕐᓈᒃᐸᓪᓕᐊᓂᖅ ᓄᓇᓕᖕᓂ ᓴᐳᓐᓂᐊᖅᑕᐅᕝᓴᓂᒃ ᐸᕐᓇᐅᑎᓂᒃ, ᓇᓗᓇᐃᔭᐃᓂᐊᕐᒪᑕ ᑐᕌᓚᔭᐅᔪᓂᒃ ᐊᒻᒪᓗ ᑐᖓᕕᐅᓂᐊᖅᑐᓂᒃ ᓴᐳᓐᓂᐊᖅᑕᐅᕝᓴᓂᒃ ᓄᓇᓂᒃ ᐃᓄᕕᐊᓗᐃᑦ ᓄᓇᖁᑎᖏᓃᑦᑐᓂᒃ, ᕿᒥᕈᐊᖅᑕᐅᖃᑕᐃᓐᓇᕐᒪᑕ ᓄᑖᕈᕆᐊᖅᑕᐅᖃᑦᑕᖅᓯᑎᓪᓗ ᑕᐃᒪᖓᑦ. ᓄᓇᓕᖕᓂ ᓴᐳᓐᓂᐊᖅᑕᐅᓂᐊᖅᑐᑦ ᐸᕐᓇᐅᑎᖏᑦ ᐊᑐᖅᑕᐅᕙᒃᑐᑦ ᐊᕙᑎᒥᒃ ᐊᒃᑐᖅᑕᐅᔪᖃᕈᓐᓇᕐᓂᕐᒧᑦ ᖃᐅᔨᓴᕈᑕᐅᕙᖕᓂᖅ, ᐊᒻᒪᓗ ᕿᒥᕈᐊᖅᑕᐅᖃᑦᑕᕐᓂᖏᑦ ᐊᑐᖅᑕᐅᖃᕐᒥᔪᑦ ᓄᓇᐃᑦ ᐊᑐᖅᑕᐅᔪᓐᓇᕐᓂᖏᓐᓄᑦ ᐃᓱᒪᓕᐅᕈᑕᐅᔪᓐᓇᕐᓂᕐᒧᑦ, ᑕᐃᒃᑯᓂᖓ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ ᓴᐳᓐᓂᐊᖅᑕᐅᓯᒪᔭᕆᐊᖃᕐᓂᖏᑦ ᓱᕗᓪᓕᐅᑎᑕᐅᖏᓐᓇᖅᓯᑎᒃ. ᓄᓇᓕᖕᓂ ᓴᐳᓐᓂᐊᕐᓂᕐᒧᑦ ᐸᕐᓇᐅᑎᖏᑦ ᓇᓗᓇᐃᔭᐃᕙᒃᑐᑦ ᐱᒻᒪᕆᐅᓂᖏᓐᓂᒃ ᓄᓇᒥᒃ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᓐᓂᒃ ᐊᒻᒪᓗ ᑎᒃᑯᐊᖅᑕᐅᕙᒃᑐᑦ ᖁᑦᑎᖕᓂᖅᐹᑦᑎᐊᓂᒃ ᓴᐳᓐᓂᐊᖅᑕᐅᓯᒪᔭᕆᐊᖃᕐᓂᖏᑦ ᓄᕐᕆᕖᑦ[9]. ᐊᒻᒪᓗ ᓴᐳᓐᓂᐊᖅᑕᐅᕙᖕᒥᔪᑦ ᐊᑐᖅᑕᐅᓂᖏᓐᓄᑦ ᐸᐅᓗᑑᑉ ᓄᓇᓕᖕᓂ ᓴᐳᓐᓂᐊᕐᓂᕐᒧᑦ ᐸᕐᓇᐅᑎᖏᑦ ᑭᓯᐊᓂ ᓇᐹᖅᑐᖃᖏᑦᑐᕐᒥᐅᑕᓂᒃ ᑐᒃᑐᖃᕐᓂᖅᓴᐅᖏᓐᓇᖅᐳᑦ ᑕᐅᕙᓂ ᓄᓇᖏᓐᓂ ᐸᐅᓗᑑᑉ[10].
	ᓄᓇᕗᑦ ᒐᕙᒪᐃᑦ	ᓄᓇᕗᒻᒥ ᓄᓇᐃᑦ ᐋᑐᑎᒃᓴᖏᓐᓂᒃ ᐸᕐᓇᐅᑏᑦ[11]: ᒫᓐᓇᐅᔪᖅ ᑎᑎᕋᖅᓯᒪᓕᖅᑐᓂ, ᐃᓚᐃᓐᖏᓐᓂᒃ ᐊᑐᖅᑕᐅᔪᓐᓇᖅᑎᑕᐅᕗᑦ ᓄᓇᖏᑦ ᑎᒃᑯᐊᖅᑕᐅᓯᒪᔪᑦ ᑲᓇᖕᓇᖕᖓᓂ ᖃᐅᓱᐃᑦᑑᑉ ᑲᓇᑕᓕᒫᒥ ᒥᕐᖑᐃᖅᓯᕐᕕᖓᓂ, ᐃᓕᑕᕆᔭᐅᓯᒪᓂᖓᓄᑦ ᐱᒻᒪᕆᐅᓂᖅ ᐱᑕᖃᐃᓐᓇᕈᓐᓇᕐᓂᖏᓐᓂᑦ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ ᑕᐅᕙᓂ ᑐᒃᑐᓕᐊᕐᕕᖏᒥ, ᓄᓇᕗᒻᒥ. ᐃᓚᖏᑦ ᓯᑯᒃᑯᑦ ᐃᑳᕆᐊᖅᑐᕐᕕᒋᕙᒃᑕᖏᑦ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᐃᑦ ᑎᒃᑯᐊᖅᑕᐅᓯᒪᖏᒻᒥᔪᑦ ᒪᓕᒡᖅᑎᑕᐅᔪᓄᑦ ᑭᓯᐊᓂ ᐊᑐᖅᑕᐅᔪᓐᓇᕐᓂᖏᑦ ᐊᑐᖅᑕᐃᓕᒪᑎᑕᐅᕙᒃᑐᓂᒡᓗ ᐃᓛᓂᒃᑯᑦ, ᐊᒻᒪᓗ ᑕᐃᒃᑯᐊ ᐱᒻᒪᕆᐅᓂᖏᑦ ᑎᖏᐊᖃᕐᕖᑦ ᑎᒃᑯᐊᖅᑕᐅᓯᒪᔪᑦ ᑲᓇᖕᓇᖅᐸᓯᖕᖓᓂᒃ ᐅᒥᖕᒪᐃᑦ ᓄᓇᖓᓂ ᐊᒻᒪᓗ ᐱᒻᒪᕆᐊᓘᖏᔪᑦ ᓴᐳᓐᓂᐊᖅᑕᐅᓯᒪᕚᐅᓂᖏᑦ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᓂᒃ.

9 ᐅᓗᒃᕼᐊᖅᑑᑉ ᓇᓖᑦ ᓴᐳᓐᓂᐊᕐᓂᖏᓐᓄᑦ ᐸᕐᓇᐅᑏᖏᑦ (1992, 2000, 2008, 2016); ᐅᓗᒃᕼᐊᖅᑑᑉ (2008, 2016).
10 ᐸᐅᓪᓗᑑᑉ ᓄᓇᓖᑦ ᓴᐳᓐᓂᐊᕐᓂᖏᓐᓄᑦ ᐸᕐᓇᐅᑏᖏᑦ (2008, 2016).
11 ᓄᓇᕗᒻᒥ ᐸᕐᓇᔨᒃᑯᑦ ᑲᒥᓯᓇᒃᑯᑦ. 2021. ᓄᓇᕗᒻᒥ ᓄᓇᐃᑦ ᐋᑐᑎᒃᓴᖏᓐᓄᑦ ᐸᕐᓇᐅᑏᑦ [ᑎᑎᕋᖅᑕᐅᕋᓵᖅᑐᑦ]. 110 pp ᒪᒃᐱᒐᓕᑦ.

ᐊᕙᑎᓕᕆᓂᕐᒥᒃ ᕿᒥᕐᕈᐊᖅᑕᕐᓂᖏᑦ	ᓄᓇᕗᑦ/ᓄᓇᑦᓯᐊᖅ: ᓄᓇᕗᒻᒥ ᐊᕙᑎᖏᑦ ᐊᒃᑐᖅᑕᐅᔪᓐᓇᕐᓂᖏᓐᓄᑦ ᑲᑎᒪᔨᖏᑦ ᐊᒻᒪᓗ ᐃᓄᕕᐊᓗᐃᑦ ᐊᕙᑎᓕᕆᓂᕐᒧᑦ ᐊᒃᑐᖅᑕᐅᓯᒪᔪᓐᓇᖅᑐᓂᒃ ᖃᐅᔨᓴᖅᑏᑦ ᑲᑎᒪᔨᕋᓛᖏᑦ ᐊᒻᒪᓗ ᑲᑎᒪᔨᖏᑦ ᓄᓇᑦᓯᐊᖅ: ᐃᓄᕕᐊᓗᐃᑦ ᐊᕙᑎᓕᕆᓂᕐᒧᑦ ᐊᒃᑐᖅᑕᐅᓯᒪᔪᓐᓇᖅᑐᓂᒃ ᖃᐅᔨᓴᖅᑏᑦ ᑲᑎᒪᔨᕋᓛᖏᑦ	ᐃᓱᒪᒃᓴᖅᓯᐅᕈᑕᐅᕙᒃᑐᑦ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ ᐆᒪᐃᓐᓇᕈᓐᓇᕆᐊᖃᕐᓂᖏᓐᓂᒃ ᖃᓄᐃᓕᖓᔪᓇᕆᐊᖃᕐᓂᖏᓐᓂᒃ ᐸᕐᓇᐃᓗᑎᒃ ᐊᒻᒪᓗ ᕿᒥᕐᕈᐊᖅᑕᐅᓂᖏᓐᓂ ᐱᕙᓪᓕᐊᑎᑕᐅᔪᒪᔪᓂᒃ ᐱᓕᕆᐊᒃᓴᓂᒃ ᐱᒋᐊᖅᑎᑕᐅᔪᒪᔪᑦ. ᐊᕙᑎᓕᕆᓂᕐᒥᒃ ᖃᐅᔨᓴᖃᑦᑕᖅᑐᑦ ᓴᓇᔭᐅᔪᒪᔪᖃᖅᐸᑦ ᐱᒻᒪᕆᐅᔪᓂᒃ ᐱᕙᓪᓕᐊᑎᑕᐅᔪᒪᔪᓂᒃ ᑕᒪᐃᓐᓂ ᑕᕆᐅᕐᒥ ᐊᒻᒪᓗ ᓄᓇᒥ ᐃᓄᕕᐊᓗᐃᑦ ᓄᓇᑖᕐᕕᒋᓯᒪᔭᖏᓐᓂ, ᐃᓱᒪᒃᓴᖅᓯᐅᕈᑕᐅᖃᑦᑕᕐᒪᑕ ᐊᑐᖅᑕᐅᓗᑎᒃ ᑕᐃᒃᑯᐊ ᓄᓇᓕᖕᓂ ᓴᐳᓐᓂᐊᕐᓂᕐᒧᑦ ᐸᕐᓇᐅᑎᖏᑦ ᐱᒪᓗᐅᓂᖏᓐᓂ ᐱᔾᔪᑎᖃᖅᑐᑦ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᓕᕆᓂᕐᒥᒃ.
ᐊᕙᑎᓕᕆᓂᕐᒥᒃ ᓴᓗᒻᒪᖅᓴᖅᑕᐅᕙᒃᑐᑦ	ᓄᓇᕗᑦ ᒐᕙᒪᒃᑯᑦ / ᒥᕐᖑᐃᖅᓯᕐᕕᓕᕆᔨᒃᑯᑦ ᑲᓇᑕᒥ / ᑲᓇᑕᐅᑉ ᒐᕙᒪᖏᑦ -ᓄᓇᓕᑐᖃᐃᓪᓗ ᐱᓕᕆᖃᑎᒌᒃᑯᑦ ᐅᑭᐅᖅᑕᖅᑐᒥ ᐱᕙᓪᓕᐊᔪᓕᕆᔨᒃᑯᑦ ᑲᓇᑕᒥ	ᐃᖃᓇᐃᔭᕐᕕᖓᑦ ᐃᓄᓕᕆᔨᑐᖃᒃᑯᑦ ᐅᑭᐅᖅᑕᖅᑐᒥ ᐱᕙᓪᓕᐊᔪᓕᕆᔩᑦ (ᒫᓇᐅᓕᖅᑐᖅ ᑕᐃᔭᐅᔪᑦ ᑲᓇᑕᐅᑉ ᒐᕙᒪᖏᑦ-ᓄᓇᓕᑐᖃᐃᓪᓗ ᐱᓕᖃᑎᒌᒃᑎᖏᑦ ᐅᑭᐅᖅᑕᖅᑑᒥᓗ ᐱᕙᓪᓕᐊᔪᓕᕆᓂᕐᒧᑦ ᑲᓇᑕᒥ - CIRNAC-ᑯᑦ-ᓯᕐᓈᒃᑯᑦ) ᐱᒋᐊᖅᑎᑦᑎᓚᐅᖅᑐᑦ ᐊᖏᔪᒥᒃ ᐱᓕᕆᕝᕕᐅᔪᓂᒃ ᓄᓇᒥ ᑕᐅᕙᓂ ᓄᓇᖓᓂ Johnson Point ᓄᕗᐊᓂ ᐃᑳᕼᐅᑉ ᕿᑭᖅᑕᖓᓂ ᓄᓇᑦᓯᐊᕐᒥ, ᓴᓗᒻᒪᖅᓴᖅᑕᐅᓗᑎᒃ ᓱᕈᐃᓐᓇᐅᓂᖏᑦ ᐲᔭᖅᑕᐅᓂᖏᓪᓗ ᐃᒡᓗᕖᓂᑦ[12]. ᓴᓗᒻᒪᖅᓴᖅᑕᓚᐅᕐᒥᒧᑦ ᐃᓚᖏᑦ ᓄᓇᖏᑦ ᑕᐅᕙᓂ Lougheed Island ᕿᑭᖅᑕᖓᓂ, Satellite Bay ᑕᓯᐅᔭᖓᓂ (Prince Patrick Island ᕿᑭᖅᑕᖓᓂ), Romulus Lake ᑕᓯᐊᓂ (ᕿᑎᖅᐸᓯᐊᓂᑦᑐᖅ ᐊᐅᓯᐃᑦᑑᑉ ᕿᑭᑖᓗᐊᓂ) ᐊᒻᒪᓗ Rae Point ᓄᕗᐊᓂ (ᑲᓐᓇᖓᓂ ᐃᓗᐃᓪᓕᐅᑉ ᕿᑭᖅᑕᖓᓂ). ᓄᓇᕗᒻᒥᓕ, ᑲᓇᑕᐅᑉ ᒐᕙᒪᐃᑦ-ᓄᓇᓕᑐᖃᐃᓪᓗ ᐱᓕᕆᖃᑎᒌᒃᑎᖏᑦ ᐅᑭᐅᖅᑕᖅᑐᒥᓗ ᐱᕙᓪᓕᐊᔪᓕᕆᔨᖏᑦ ᑲᓇᑕᒥ-CIRNAC-ᑯᑦ (ᓯᕐᓈᒃᑯᑦ ᓇᐃᓈᕐᓗᒋᑦ) ᓴᓗᒻᒪᖅᓴᐃᓕᖅᑐᑦ ᑐᒃᑐᓕᐊᕐᕕᖏᒃ ᐊᕙᓗᐊᓃᑦᑐᓂᓪᓗ ᖁᑦᑎᒃᑐᒥ ᕿᑭᖅᑕᓂᒃ ᑲᒪᔨᐅᓪᓗᑎᒃ ᑲᓇᑕᒥ ᓱᕋᕐᓇᖅᑐᓕᕆᔨᖏᑦ ᓄᓇᖏᓐᓂᒃ ᐱᓕᕆᐊᒃᓴᓄᑦ ᐸᕐᓇᐅᑎᓕᐊᖏᓐᓂ ᐊᑐᖅᓯᑎᒃ, ᑕᐃᒃᑯᐊᓗ ᒥᕐᖑᐃᖅᓯᕐᕕᓕᕆᔨᒃᑯᑦ ᑲᓇᑕᒥ ᐱᓕᕆᕙᓪᓕᐊᓕᖅᑐᑦ ᐲᔭᐃᓂᕐᒥᒃ ᐅᖅᓯᐊᓗᖃᐅᑏᑦ ᖃᑦᑕᐅᔭᕐᔪᐊᖏᓐᓂᒃ ᐊᓯᖏᓐᓂᓗ ᐊᖏᔪᓂᒃ ᐱᓕᕆᕖᖃᓚᐅᕐᓂᖏᓐᓂ ᐊᒃᑕᑯᓕᐊᕕᓂᖏᓐᓂᒃ ᓄᓇᒥᒃ ᑕᐅᕙᖓᑦ ᖃᓯᐃᑦᑑᑉ ᑲᓇᑕᓕᒫᒥ ᒥᕐᖑᐃᖅᓯᕐᕕᖓᓂ. ᓄᓇᑦᓯᐊᕐᒥ, ᓴᓗᒻᒪᖅᓴᖅᑕᐅᓂᐊᕐᒥᓄᑦ ᑕᐅᕙᓂ Mould Bay ᑕᓯᐅᔭᕐᔪᐊᖓᓂ (Prince Patrick Island ᕿᑭᖅᑕᖓᓂ).
ᓯᓚᐅᑉ ᐊᓯᔾᔨᖅᐸᓪᓕᐊᓂᖓ	ᓄᓇᑦᓯᐊᑉ ᒐᕙᒪᐃᑦ:	ᓄᓇᑦᓯᐊᑉ ᒐᕙᒪᐃᑦ ᒫᓇᐅᔪᖅ ᓴᓇᔭᐅᕙᓪᓕᐊᓕᖅᑐᑦ ᓯᓚᐅᑉ ᐊᓯᔾᔨᖅᐸᓪᓕᐊᓂᖓ ᓱᖏᐅᑎᔪᕙᓪᓕᐊᔪᓐᓇᕐᓂᕐᒧᑦ ᖃᓄᐃᓕᐅᕈᑎᒃ ᓴᐃᑦ ᑕᐅᕙᓂ ᓄᓇᑦᓯᐊᕐᒥ.

[12] ᓱᕈᕐᓇᖅᑐᓕᕆᔨᒃᑯᑦ ᓴᓗᒻᒪᖅᓴᐃᓂᕐᒧᑦ ᐃᖃᓇᐃᔭᕐᕕᖓᑦ. 2009. ᓱᕈᕐᓇᖅᑐᓂᒃ ᓴᓗᒻᒪᒃᓴᒪᐃᕕᖓᑦ ᐱᐅᓯᒋᐊᖅᑎᑦᑎᓂᕐᒧᓪᓗ: ᖃᓄᐃᓕᐅᕐᓂᖏᑦ ᑕᐅᕙᓂ ISR. ᒫᔾᔨ 2009. ᐃᓄᓕᕆᔨᑐᖃᒃᑯᑦ ᐅᑭᐅᖅᑕᒥᓗ ᐱᕙᓪᓕᐊᔪᑦ ᑲᓇᑕᒥ, ᐋᑐᕚ, ᐋᓐᑎᐅᕆᔫ.

ᐸᕐᑭᔨᐅᖃᑕᐅᓂᖏᑦ ᒥᐊᓂᕆᔨᑦ	ᓄᓇᕗᑦ/ᓄᓇᑦᓯᐊᖅ: ᖃᐅᓱᐃᑦᑑᑉ ᐊᖑᓇᓱᒃᑎᖏᑦ, ᐊᐃᕕᖅ ᐊᖑᓇᓱᒃᑎᒃᑯᑦ, ᐅᓗᒃᕼᐊᖅᑑᕐᒥᐅᑦ ᐊᖑᓇᓱᒃᑏᑦ ᑲᑎᒪᔨᕋᓘᖏᑦ ᐊᒻᒪᓗ ᐃᑳᕼᐆᑉ ᐊᖑᓇᓱᒃᑏᑦ ᑲᑎᒪᔨᕋᓘᖏᑦ	ᐱᓕᕆᖃᑎᒌᖕᓂᕐᒧᑦ ᐸᖅᑭᔨᐅᓂᖏᓐᓄᑦ ᐊᖏᕈᑏᑦ ᐱᓕᕆᐊᒃᓴᐃᓪᓗ: ᐃᑲᔪᖅᑕᐅᓂᖏᑦ ᐃᓄᐃᑦ ᐃᓚᐅᔪᓐᓇᕐᓂᖅ ᓇᐅᑦᑎᖅᑐᐃᔨᐅᓂᕐᒧᑦ, ᐊᐅᓚᑦᑎᔨᐅᓂᕐᒧᑦ, ᓴᐳᓐᓂᐊᖅᑕᐅᓂᕐᒧᓪᓗ ᕿᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᓐᓂᒃ ᑮᓇᐅᔭᒃᓴᓂᒃᑕᐅᓯᒪᓪᓂᒃ ᓄᓇᓕᑐᖃᐃᑦ ᑮᓇᐅᔭᒃᓴᓂᒃᑕᐅᔪᓐᓇᕐᓂᖏᓐᓂᒃ ᐆᒪᔪᓕᕆᓂᕐᒧᑦ ᐊᒥᓲᖏᓗᐊᓕᐊᖅᑐᓂᒃ ᐊᒻᒪᓗ ᓇᔪᒐᕆᔭᐅᕚᓂᖏᓐᓂᒃ ᐸᕐᑭᔨᐅᖃᑕᐅᓂᖏᓐᓄᑦ ᐊᑐᖅᑕᐅᕙᒃᑐᓂᒃ (ᑲᓇᑕᐅᑉ ᒐᕙᒪᒃᑯᖏᓐᓄᑦ ᑮᓇᐅᔭᒃᓴᓂᒃᑕᐅᕙᒃᑐᓂᒃ).

ᑕᒪᐃᓐᓂ, ᑕᒪᑯᐊ ᖃᓄᐃᓕᐅᕈᑕᐅᓂᖏᑦ ᐊᒻᒪᓗ ᐱᓂᐊᕐᓂᖃᕐᕕᐅᔪᑦ ᐱᓕᕆᐊᖑᔪᒪᓂᖅ ᓇᓂᑐᐃᓐᓇᖅ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖃᕐᕕᐅᓂᖏᓐᓂ ᐱᔪᒥᓭᐅᑕᐅᒻᒪᕆᒃᑐᑦ ᑐᖓᕕᐅᕈᑕᐅᔪᓐᓇᕐᒧᑦ ᐱᓕᕆᐊᖑᓂᐊᖅᑐᓄᑦ.

ᐊᒥᓲᕗᑦ ᐊᒥᓲᕈᖅᔫᓂᕐᒧᑦ ᑎᑎᖃᕐᖁᑎᒋᔭᐅᓕᖅᑐᖅ ᓴᓇᔭᐅᕙᓪᓕᐊᓕᖅᑐᓪᓗᓐᓂᑦ ᐊᒃᑐᖅᑕᐅᓯᒪᔪᓐᓇᕐᓂᖏᓐᓄᑦ ᑐᕋᖓᔪᑦ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᓐᓄᑦ.

ᐊᕙᒃᑐᖅᓯᒪᓂᖏᑦ 6 ᓇᐃᓈᖅᓯᒪᕗᑦ ᑖᕝᕙ ᐊᒥᓲᕈᖅᓯᐊᕆᔭᐅᓂᖏᓐᓂ ᑐᕌᒐᕆᔭᐅᔪᑦ ᑖᒃᑯᓇᓂ ᑎᑎᕋᖅᓯᒪᓂᖏᓐᓂ.

ᐊᕙᒃᑐᖅᓯᒪᓂᖏᑦ 6: ᖃᓄᐃᓕᖓᓂᖏᑦ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ ᐊᒥᓲᕈᖅᔫᓂᕐᒧᑦ ᐸᕐᓇᐅᑎᒃᓴᐃᑦ ᐅᑭᐅᖅᑕᖅᑑᑉ ᐊᕙᒃᑐᖅᓯᒪᓂᖏᓐᓂ ᐊᒻᒪᓗ ᑲᓇᑕᐅᑉ ᐊᕙᒃᑐᖅᓯᒪᓂᖏᓐᓂ ᐱᑕᑲᕐᓂᖏᓐᓂ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ.

ᐅᑭᐅᖅᑕᖅᑑᑉ ᐊᕙᒃᑐᖅᓯᒪᓂᖓᓂ/ ᑲᓇᑕᒥᓗᓐᓃᑦ ᐊᐅᓚᑦᑎᕙᖏᑦ	ᐊᒥᓲᕈᖅᓯᐊᕆᔭᐅᓂᖏᓐᓂ ᑎᑎᖃᖁᑎᖏᑦ	ᐊᒥᓲᕈᖅᓯᐊᕆᔭᐅᓂᖏᓐᓄᑦ ᑐᕌᒐᕆᔭᐅᔪᑦ/ᑐᖓᕕᐅᓂᖏᓗ
ᓄᓇᕗᑦ	ᐊᐅᓚᑦᑎᓂᕐᒧᑦ ᐸᕐᓇᐅᑏᑦ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᓂᒃ ᓄᓇᕗᒻᒥ (2015-ᒥ ᑎᑎᕋᖅᑕᐅᕐᕆᓂᖂᕐᓂᖏᑦ ᕿᒥᕈᐊᖅᑕᐅᔪᑦ / ᐃᓱᒪᒃᓴᖅᓯᐅᕈᑕᐅᔪᑦ ᐆᒪᔪᓕᕆᔩᕐᔪᐊᒃᑯᑦ)	• ᐊᐅᓚᑦᑎᓂᕐᒧᑦ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᓂᒃ ᐱᓕᕆᖃᑎᒌᒍᑕᐅᓗᑎᒃ ᐃᓚᐅᔪᑎᒃ ᑕᒪᕐᒥᒃ ᓄᓇᓖᑦ ᑕᐃᑯᐊᓗ ᐊᐅᓚᑦᑎᔨᐅᖃᑕᐅᔪᑦ. • ᐊᑐᖅᑕᐅᓗᑎᒃ ᐃᓄᐃᑦ ᖃᐅᔨᒪᔭᑐᖃᖏᑦ ᐊᒻᒪᓗ ᖃᐅᔨᓴᖅᑎᓄᑦ ᖃᐅᔨᔭᐅᓯᒪᒧᑦ ᓇᓕᖃᕆᒃᑐᓂᒃ ᐊᐅᓚᑦᑎᔾᔪᓯᕆᔭᐅᕝᑐᓂ. • ᓄᓇᓕᖕᓂ ᐊᕙᒃᑐᖅᓯᒪᓂᖏᓐᓂ ᐃᓚᐅᑎᑦᑎᓂᖅᓵᐅᕆᐊᖃᑕᕐᓂᖅ ᐃᓱᒪᓕᐅᖅᑎᐅᔪᓐᓇᕐᓂᖏᓐᓂ. • ᓴᐳᓂᐊᖅᑕᐅᓂᖏᓄᑦ, ᐸᐸᑕᐅᓂᖏᓐᓄᑦ, ᐊᐅᓚᑕᐅᓂᖏᓄᓪᓗ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ ᐊᒥᐊᒃᑯᓯᒪᐃᓐᓇᕆᐊᕐᓗᑎᒃ. • ᐅᔾᔨᖅᑐᑦᑎᓯᐊᕐᓂᖅ ᑕᒪᐃᓐᓂᒃ ᐊᑑᑎᖃᑦᑎᐊᖅᑐᓂᒃ ᐃᓚᐅᑎᑦᑎᕙᖕᓂᖅ ᐃᓄᖕᓂᑦ ᐊᒻᒪᓗ ᐊᐅᓚᑦᑎᔨᐅᖃᑕᐅᔪᓂᒃ ᖃᔪᓯᔪᒥᒃ ᓇᐅᑦᑎᖅᑐᖅᑕᐅᕙᓐᓂᖏᓐᓂᒃ ᐊᐅᓚᑕᐅᕙᓐᓂᖏᓄᓪᓗ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ, ᐊᒻᒪᓗ ᐃᓱᒪᓕᐅᕈᑕᐅᕙᖕᖏᓂᖏᓐᓂ.
ᓄᓇᑦᓯᐊᕐᒥ	ᑲᓇᑕᓕᒫᒥ ᐊᒥᓲᕈᖅᔫᓂᕐᒧᑦ ᖃᓄᐃᓕᐅᕈᑎᒃᓴᓂᒃ ᐋᕿᒋᐊᖅᑕᐅᓂᐊᖅᑐᑦ ᒪᓕᒐᖅᑕᐅᖏᓂᐊᒍᑦ / ᐃᓚᒋᔭᐅᖅᑕᐅᓂᖏᓄᓪᓗᓐᓃᑦ ᑕᒪᒃᑯᐊ ᐱᔭᕆᐊᖃᕐᓂᖏᓐᓂ	
ᑲᓇᑕᒥ	ᐊᐅᓚᕕᒃ ᑲᓇᑕᓕᒫᒥ ᒥᕐᖑᐃᖅᓯᕐᕕᒃ ᐊᐅᓚᑕᐅᓂᖓᓄᑦ ᐸᕐᓇᐅᑏᑦ	• ᑐᖓᕕᐅᓗᑎᒃ ᒫᓐᓇᐅᔪᖅ ᐃᓃᒋᕝᕕᐅᓂᖏᑦ ᐊᓯᖏᓐᓄᑦ ᑲᓇᑕᒥ, ᓄᓇᑦᓯᐊᕐᒥ ᐊᒻᒪᓗ ᐃᓄᕕᐊᓗᐃᑦ ᑎᒥᖁᑎᖏᓐᓂ ᐃᑲᔪᕐᓂᖃᕐᓂᖅ ᐊᕙᑎᒥᒃ ᐊᕙᑎᒥᐅᑕᓂᒡᓗ ᓇᐅᑦᑎᖅᑐᐃᓂᕐᒥᒃ, ᐃᓚᖃᕐᓗᑎᒃ ᐱᓕᕆᐊᒃᓴᓂᒃ ᓇᐅᑦᑎᖅᑐᐃᓂᕐᒧᑦ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᓂᒃ ᐊᒻᒪᓗ ᐅᒥᖓᓕᕆᓂᕐᒥᒃ. • ᑐᑭᓯᒋᐊᕈᑕᐅᓗᑎᒃ ᐱᕕᒃᓴᐅᓕᕈᓐᓇᖅᑐᑦ ᐃᓚᑖᕆᔭᐅᔪᓐᓇᕐᓂᖏᑦ ᑕᐃᔅᓯᒪᓂᓂᑕᓕᕆᔾᔨᓂᒃ ᖃᐅᔨᕕᐅᔪᓇᕐᓂᖏᓐᓂᒃ ᒥᖑᐃᓯᕕᓕᕆᓂᕐᒧᑦ ᖃᐅᔨᒪᔭᐅᑎᐊᕐᓂᐊᕐᒪᑕ ᐊᕙᑎᖏᓪᓗ ᐊᕙᑎᒥᐅᑕᖏᓪᓗ ᓘᕐᓗ ᑐᑭᔭᐅᔪᓐᓇᕐᓂᖏᓐᓂ ᖃᓄᖅ ᑐᒃᑐᖃᐃᓐᓇᕐᒪᖓᑕ ᐊᒻᒪᓗ ᐊᒥᓲᕈᖅᐸᓪᓕᐊᖃᑕᕐᓂᖏᓐᓂᒃ. .

ᐅᑭᐅᖅᑕᖅᑑᑉ ᐊᕕᒃᑐᖅᓯᒪᓂᖓᓂ/ ᑲᓇᑕᒥᓗᓐᓃᑦ ᐊᐅᓚᑦᑎᕖᖏᑦ	ᐊᒥᖅᑭᖅᓯᐊᕆᔭᐅᓂᖏᓐᓂ ᑎᑎᖃᖁᑎᖏᑦ	ᐊᒥᖅᑭᖅᓯᐊᕆᔭᐅᓂᖏᓐᓄᑦ ᑐᕌᒐᕆᔭᐅᔪᑦ/ᑐᙵᕕᐅᓂᖏᓗ
		• ᐱᓕᕆᓗᑎᒃ ᐊᐅᓚᑦᑎᔨᐅᖃᑕᐅᔪᑦ ᓴᕿᑎᑦᑎᓂᕐᒥᒃ ᐊᒥᖅᑭᖅᐰᓂᕐᒧᑦ ᖃᓄᐃᓕᐅᕈᑎᒃᓴᓂᒃ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ.
ᖁᑦᑎᓂᖅᐹᒥᒃ ᒥᕐᖑᐃᖅᓯᕐᕕᖓᒥ ᑲᓇᑕᒥ ᐊᐅᓚᑕᐅᓂᙵᓄᑦ ᐸᕐᓇᐅᑎᖏᑦ	• ᖃᓄᐃᑦᑐᒥᒃ ᐊᒥᑲᓂᓖᑦ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ ᑕᐃᒪᐃᖏᓐᓇᕉᓐᓇᕐᖁᓗᑎᒃ ᖁᓛᓐᑦᑐᒥᒃ ᐅᖓᑖᓂ ᒪᓐᓇᐅᔪᖅ ᐊᒥᑲᓂᓕᖕᓂᒃ 45-ᖏᓐᓃᑦᑐᓂᒃ ᑐᒃᑐᖏᑦ. • ᐱᒻᒪᕆᐅᔪᓂᒃ ᐊᓯᔾᔨᖅᑕᐅᑕᐃᓕᓂᖏᑦ ᓇᓃᖃᑦᑎᓂᖏᓐᓂᒃ ᖃᓄᐃᓕᖓᓂᖏᑦ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ ᐅᒥᖕᒪᐃᓪᓗᓐᓃᑦ.
ᖃᐅᓯᐃᑦᑐᖅ ᑲᓇᑕᓕᒫᒥ ᒥᕐᖑᐃᖅᓯᕐᕕᒃ	• ᐊᑐᖅᑕᐅᑲᐃᓐᓇᕐᓂᐊᖅᑐᑦ ᐊᐅᓚᑦᑎᓂᕐᒧᑦ ᐸᕐᓇᐅᑎᑦ ᐊᖏᕈᑕᐅᓂᖏᑦ ᖃᐅᓯᐃᑦᑐᕐᒥ ᒥᕐᖑᐃᖅᓯᕐᕕᖓᒥ ᐊᐅᓚᑦᑎᓂᕐᒧᑦ ᑲᑎᒪᔨᕋᖁᖏᑦ 2020-ᒥ: o ᑐᙵᕕᒃᓴᐃᑦ ᓯᕗᓂᒃᓴᒧᑦ: ᓇᓗᓇᐃᒃᑯᑕᐃᑦ ᐊᐅᓚᑦᑎᓂᕐᒧᑦ ᖃᐅᓯᐃᑦᑐᕐᒥ ᑲᓇᑕᓕᒫᒥ ᒥᕐᖑᐃᖅᓯᕐᕕᖓᓂ (ᓄᓇᕗᑦ, ᑲᓇᑕ) 2020 - 2022 • ᐊᐅᓚᑦᑎᓂᕐᒧᑦ ᐸᕐᓇᐅᑎᑦ ᖃᐅᓯᐃᑦᑐᕐᒥ ᒥᕐᖑᐃᖅᓯᕐᕕᖓᒥ ᐱᔭᕇᖅᑕᐅᕝᕕᒃᓴᖃᖅᑐᑦ ᑕᒫᓂ 2023-ᒥ.

6.2 ᖃᓄᐃᓕᐅᕈᑎᒃᓴᐃᑦ ᐊᑐᓕᖅᑎᑕᐅᕙᓪᓕᐊᓂᖏᑦ ᐊᒥᖅᑭᖅᐰᓂᕐᒧᑦ

ᐊᖑᒪᓂᐊᕈᑎᒃ ᐱᔭᕇᕈᓐᓇᕐᓗᑎᒃ ᑎᑭᐅᑎᔪᓐᓇᕐᓂᖅ ᐊᒦᓯᖏᓐᓂᒃ ᐊᒻᒪᓗ ᓇᓅᓐᓂᖏᓐᓂᒃ ᖃᐅᔨᔪᓐᓇᕐᓂᖅ, ᒪᑯᐊ ᐊᑕᓅᑦᑐᑦ ᐊᕕᒃᑐᖅᓯᒪᓂᖏᑦ (ᐊᕕᒃᑐᖅᓯᒪᓂᖏᑦ 7) ᐊᒻᒪᓗ ᐅᓂᒃᑳᖅᑕᐅᓂᖏᑦ ᓂᕈᑐᓇᖅᑕᐅᔪᑦ ᖃᓄᐃᓕᐅᕈᑎᒃᓴᐃᑦ ᑲᒪᒋᔭᐅᕙᓪᓕᐊᖃᖅᑐᑦ ᑲᓇᑕᓕᒫᒥ, ᑕᐃᑯᐊᓗ ᖃᐅᔨᓴᖅᑕᐅᔭᓪᓕᐊᓖᑦ ᐊᐅᓚᑕᐅᔭᓪᓕᐊᓖᓪᓗ ᐱᓕᕆᐊᒃᓴᐃᑦ ᖃᓄᐃᓕᐅᑕᐅᓗᑎᒃ ᐅᓗᕆᐊᓇᕐᓂᖏᑦ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᓄᑦ, ᓇᔪᖅᐸᒃᑕᖏᓐᓂᓗ. ᐃᓄᐃᑦ ᖃᐅᔨᒪᔭᑐᖃᖏᑦ/ᐱᐅᓯᑐᖃᕐᓂᒃ ᐊᕙᑎᒥᒃ ᐊᕙᑎᓕᕆᓂᕐᒥᓪᓗ ᖃᐅᔨᒪᔭᐅᔪᑦ ᐊᒻᒪᓗ ᓄᓇᓖᑦ ᖃᐅᔨᒪᓂᖏᑦ ᐃᓱᒪᒋᔭᐅᔭᕆᐊᖃᕐᒥᔪᑦ ᑕᒪᐃᓐᓂᑦᑎᐊᖅ ᖃᓄᐃᓕᐅᕈᑎᒃᓴᓂᒃ ᖃᐅᔨᒪᔭᐅᔪᓄᑦ ᐊᑐᖅᑕᐅᓗᑎᒃ. ᐊᐅᓚᑦᑎᓂᕐᒧᑦ ᖃᓄᐃᓕᐅᕈᑎᒃᓴᐃᑦ ᐃᓚᐅᑎᑦᑎᕙᓪᓚᑕ ᑕᒪᐃᓐᓂᒃ ᖃᓗᓈᒃ ᖃᐅᔨᓴᕈᓯᕆᔭᖏᓐᓂᒃ ᐊᒻᒪᓗ ᐱᐅᓯᑐᖃᐃᑦ ᖃᐅᔨᒪᔭᐅᓂᖏᓐᓄᑦ ᐃᓄᖕᓄᑦ, ᒪᑯᓂᖓ ᖃᓄᐃᓕᐅᕈᑎᒃᓴᓄᑦ ᐃᑲᔪᕐᓂᖃᕐᓗᑎᒃ:

- ᓇᐅᑦᑎᖅᑐᐃᓂᕐᒥᒃ ᐊᒻᒪᓗ ᖃᐅᔨᓴᕐᓂᕐᒥᒃ: ᑐᕚᒐᕆᔭᐅᔪᑦ ᑲᒪᒋᔭᐅᖃᑦᑕᕐᓗᑎᒃ ᖃᐅᔨᓴᖅᑕᐅᔪᒪᔪᑦ ᑐᑭᓯᐅᒪᔾᔪᑎᐊᒃᑳᓂᕐᓂᐊᕐᒪᑕ ᐱᒻᒪᕆᐅᓂᖏᑦ ᓇᔪᕋᕆᔭᐅᕙᒃᑐᑦ, ᑐᒃᑐᐃᑦ ᐊᒥᒋᓂᖏᑦ ᐊᒻᒪᓗ ᓇᓃᓂᖏᑦ, ᓇᒨᖓᐅᕙᓐᓂᖏᑦ ᓄᓇᒦᖃᑦᑕᕐᓂᖏᓪᓗ, ᐊᒻᒪᓗ ᐊᒃᑐᖅᑕᐅᔾᔭᓇᕐᓂᖏᑦ ᐅᓗᕆᐊᓇᕈᑕᐅᔪᑦ ᑕᒪᒃᑯᓄᖓ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᓐᓄᑦ.
- ᓇᔪᕋᕆᔭᐅᔪᑦ ᐅᒪᔩᐃᓪᓗ ᓴᐳᓐᓂᐊᖅᑕᐅᓂᖏᑦ ᐊᐅᓚᑕᐅᓂᖏᓪᓗ: ᓴᓇᔭᐅᓗᑎᒃ ᐊᐅᓚᑦᑎᓂᕐᒧᑦ ᖃᓄᐃᓕᐅᕈᑎᒃᓴᖏᑦ ᓴᐳᓐᓂᐊᖅᑕᐅᓂᖏᓐᓄᑦ ᓇᔪᕋᕆᔭᐅᕙᓐᓂᖏᑦ, ᒥᑭᓪᓕᑎᖅᑕᐅᓗᑎᓪᓗ ᐅᓗᕆᐊᓇᕈᑕᐅᓂᖏᑦ ᖁᑦᑎᒃᑐᒥ ᑐᒃᑐᓄᑦ ᐱᓕᕆᖃᑎᒌᒃᑐᑎᒃ ᑲᑐᔾᔨᖃᑎᒌᓪᓗᑎᒃ ᓇᓂᑐᐃᓐᓇᖅ ᐊᔾᔨᒌᖏᒌᑦᑐᓂ ᐊᐅᓚᑦᑎᕕᐅᔪᓂ.
- ᐃᓕᓐᓂᐊᖅᑐᓕᕆᓂᕐᒥ ᐊᒻᒪᓗ ᖃᐅᔨᒪᓕᕐᓂᕐᒥᒃ, ᐸᕿᔨᐅᓂᕐᒥᒃ ᐊᒻᒪᓗ ᐃᓚᒌᒍᓐᓇᕐᓂᕐᒥᒃ: ᐃᓕᓐᓂᐊᖅᑎᑦᑎᕆᐊᒃᑲᓂᕐᒧᑎᒃ ᑕᒪᒃᑯᓂᖓ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᓕᕆᓂᕐᒥᒃ, ᓄᓇᕗᒻᒥ/ᓄᓇᑦᓯᐊᕐᒥ, ᑲᓇᑕᓕᒫᒥ, ᓄᓇᕐᔪᐊᕐᒥᓗ, ᐱᕙᓪᓕᐊᑎᑦᑎᓗᑎᒃ ᐋᕿᐅᒪᑎᑦᑎᓗᑎᓪᓗ ᐃᓚᒌᒍᓐᓇᕐᓂᖏᓐᓂᒃ ᑕᒪᒃᑯᐊ ᐊᐅᓚᑦᑎᔨᐅᖃᑕᐅᔪᑦ.
- ᒪᓕᒐᓕᕆᓂᖅ ᐊᒻᒪᓗ ᐊᑐᐊᒐᓕᕆᓂᖅ: ᓴᓇᔭᐅᓗᑎᒃ ᐊᑐᓕᖅᑎᑕᐅᓗᑎᓪᓗ ᐊᑐᐊᒐᕆᔭᐅᔪᑦ, ᒪᓕᒋᐊᓪᓗᑐᖃᕈᑎᖏᓪᓗ, ᐃᑲᔫᑕᐅᓂᕐᒧᑦ ᒪᓕᒃᑕᐅᔭᕆᐊᖃᕐᓂᐊᕐᒪᑕ ᐊᒻᒪᓗ ᐃᓱᒪᒃᓴᖅᓯᐅᕈᑕᐅᖁᓪᓗᒋᑦ ᑕᒪᒃᑯᐊ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ ᓄᓇᒦᖃᑦᑕᕐᓂᖏᓐᓂᒃ ᐊᑐᖅᑕᐅᔭᕆᐊᖃᕐᓂᖏᑦ ᓄᓇᐃᑦ ᐸᕐᓇᐅᑎᖏᓐᓂ.

ᐊᑐᖅᑕᐅᔪᓐᓇᕐᓂᖏᑦ ᖃᓄᐃᓕᐅᕈᑎᒃᓴᐃᑦ ᐅᖃᐅᓯᐅᓯᒪᔪᑦ ᐊᕕᒃᑐᖅᓯᒪᓂᖏᑦ 7 ᐋᖏᐊᖅᑕᐅᖃᑕᐅᓐᓇᖅᐳᑦ, ᓱᕈᓪᓕᐅᕐᔭᐅᓯᒪᓂᖏᓪᓗ, ᑮᓇᐅᔭᐃᓪᓗ ᓈᒻᒪᒍᓃᕈᑎᒃ ᐃᓚᐅᔪᓐᓇᕐᓂᖏᓐᓄ ᐊᔾᔨᒌᖏᑑᓂ ᐊᐅᓚᑦᑎᔨᐅᔪᑦ, ᐆᒪᔪᓕᕆᓂᕐᒥᒃ ᐊᐅᓚᑦᑎᔨᐅᖃᑕᐅᓂᕐᒧᑦ ᑲᑎᒫᔨᖏᓐᓂ ᐊᒻᒪᓗ ᐃᓚᒋᔭᐅᕙᒃᑐᓂ ᑲᑐᔾᔨᖃᑎᒌᖕᓂ. ᐅᓂᒃᑲᖅᓯᒪᑦᑎᐊᒃᑲᓐᓂᖅᐳᑦ ᐊᒻᒪᓗ ᓴᕿᑎᑕᐅᔪᒫᖅᑐᑦ ᐊᑐᓕᖅᑎᑦᑎᕙᓪᓕᐊᓂᕐᒧᑦ ᖃᖓᒃᑯᑦ ᐱᒋᐊᕈᒫᕐᓂᖏᑦ ᓇᓗᓇᐃᒃᑯᑕᐃᑦ ᓴᕿᑎᑕᐅᔪᒫᕐᒥᔪᑦ ᐱᓕᕆᐊᒃᓴᓄᑦ ᐸᕐᓇᐅᑎᓕᐊᓂ.

ᐊᕕᒃᑐᖅᓯᒪᓂᖏᑦ 7: ᐊᒥᓱᕈᖅᔫᓂᕐᒧᑦ ᐸᕐᓇᐅᑏᑦ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᓕᕆᓂᕐᒧᑦ.

ᐅᓗᕆᐊᓇᕈᑏᑦ ᐊᔪᕈᑎᓗᓐᓃᑦ	ᓂᕈᑐᓈᖅᑕᐅᔪᑦ ᖃᓄᐃᓕᐅᕈᑎᒃᓴᐃᑦ ᐊᒥᓱᕈᖅᔫᓂᕐᒧᑦ	ᓯᕗᓪᓕᐅᑎᑕ ᐅᓂᖏᑦᓇ	ᑕᒪᐃᓐᓂ ᖃᓄᐃᓕᐅᕈᑎᒃᓴᐃᑦ ᖃᐅᔨᓴᕐᓂᕐᒧᑦ ᐊᐅᓚᑦᑎᓂᕐᒧᑦ ᐱᓕᕆᐊᒃᓴᓄᑦ
ᓂᕈᑐᓈᖅᑕᐅᔪᑦ ᖃᓄᐃᓕᐅᕈᑎᒃᓴᐃᑦ ᐊᕕᒃᑐᖅᓯᒪᓂᖏᓐᓂ: ᓇᐅᑦᑎᖅᑐᐃᓂᖅ ᐊᒻᒪᓗ ᖃᐅᔨᓴᖃᑦᑕᕐᓂᖅ			
ᖃᐅᔨᒪᔭᐅᖏᓂᖏᑦ ᐊᒥᓱᕈᖅᔫᓂᕐᒧᑦ ᑕᒪᐃᓂᓪᓗ ᐅᓗᕆᐊᓇᖅᑐᓕᖕᓄ	ᑕᒪᐃᓐᓂ	ᐱᒻᒪᕆᑦ	1. ᐊᑐᖅᑕᐅᓗᑎᒃ ᐃᓄᐃᑦ ᖃᐅᔨᒪᔾᔪᑕᖏᑦ/ᐱᐅᓯᑐᖃᕐᓂᒃ ᐊᕙᑎᒥᒃ ᐊᕙᑎᓕᕆᓂᕐᒥᒡᓗ ᖃᐅᔨᒪᔾᔭᐅᔪᑦ, ᓄᓇᓕᖕᓄᑦ ᖃᐅᔨᒪᔾᔭᐅᓂᖏᓐᓂ ᖃᐅᔨᓴᖅᑎᓄᓪᓗ ᖃᐅᔨᒪᔭᐅᓂᖏᑦ ᓇᐅᑦᑎᖅᑐᐃᓂᕐᒧᑦ, ᓈᓴᐃᕙᖕᓂᕐᒧᑦ, ᖃᐅᔨᓴᖅᑕᐅᓂᕐᒧᓪᓗ, ᐃᒃᐱᒋᔭᐅᓗᑎᒃ ᐱᒻᒪᕆᐅᓂᖏᑦ ᐃᓄᐃᑦ ᖃᐅᔨᒪᔾᔪᑕᖏᑦ/ᐱᐅᓯᑐᖃᕐᓂᒃ ᐊᕙᑎᒥᒃ ᐊᕙᑎᓕᕆᓂᕐᒥᒡᓗ ᖃᐅᔨᒪᔾᔭᐅᔪᑦ ᐊᒻᒪᓗ ᓄᓇᖠᑦ ᖃᐅᔨᒪᓂᖏᑦ to ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ ᓴᐳᓐᓂᐊᕐᓂᕐᒧᑦ ᐊᒥᓱᕈᖅᔫᓂᕐᒧᓪᓗ.
		ᐊᑯᓐᓂᖅᑐᑦ	2. ᑎᑎᕋᖅᑕᐅᓗᑎᒃ ᐋᕿᐅᒪᓗᑎᒡᓗ ᐊᑕᐅᓯᕐᑖᑐᐃᓐᓇᐅᓂᐊᖅᑐᑦ ᐃᓕᓯᕚᒃᓴᐃᑦ (ᑎᑎᖃᕐᕕᖕᓂᒃ) ᑕᒪᑯᓇᖓ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ ᓇᐅᑦᑎᖅᑐᖅᑕᐅᓂᖏᓐᓄᑦ/ᖃᐅᔨᓴᖅᑦᑕᐅᖃᑦᑕᕐᓂᖏᓐᓄᓪᓗ ᑕᐃᒫᒃ ᓈᒪᓈᖃᑦᑕᕐᓂᐊᕐᒪᑕ ᖃᐅᔨᒪᔅᔪᑎᒃᓴᐃᑦ ᑕᑯᔭᐅᖃᑕᐅᓇᕐᓂᖏᑦ.
			3. ᖃᐅᔨᒋᐊᖃᑦᑕᕐᓗᑎᒃ ᐱᕕᒃᓴᓂᒃ ᓄᓇᓕᖕᓂ ᑐᖖᕕᐅᔪᓐᓇᖅᑐᓂᒃ ᓇᐅᑦᑎᖅᑐᖅᑕᐅᕙᓪᓕᐊᔾᔪᑕᐅᔪᓐᓇᖅᑐᓂᒃ.
	ᐱᒪᕆᐅᓂᖏᑦ ᓇᔪᒐᕆᔭᐅᕙᒃᑐᑦ	ᐱᒻᒪᕆᑦ	4. ᑕᒪᒃᑯᓂᖓ ᐃᓄᐃᑦ ᖃᐅᔨᒪᔾᔪᑕᖏᑦ/ᐱᐅᓯᑐᖃᕐᓂᒃ ᐊᕙᑎᒥᒃ ᐊᕙᑎᓕᕆᓂᕐᒥᒡᓗ ᖃᐅᔨᒪᔭᐅᔪᑦ ᐊᑐᖃᑦᑐᑎᒃ ᖃᐅᔨᔭᐅᓂᐊᕐᒪᑕ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᐃᑦ ᓇᔪᒐᕆᕙᒃᑕᖏᑦ, ᐊᕙᑎᒥᐅᑕᕆᕙᒃᑕᖏᑦ ᐊᒻᒪᓗ ᓇᓃᖃᑦᑕᕐᓂᖏᑦ (ᓘᕐᓗ ᐆᒃᑐᑎᒋᓗᒍ, ᐱᒪᕆᐅᔪᑦ ᓇᔪᕆᔭᐅᕙᖕᓂᖏᓐᓂᒃ ᓱᓇᑕᖃᓲᖑᓂᖏᓐᓂᒃ).
			5. ᐃᓕᑕᕆᔭᐅᕙᓪᓗᑎᒃ ᓄᕐᕆᐋᑦ ᐊᓯᖏᓕᓗ ᐱᒪᕆᐅᔪᑦ ᐆᒪᔪᕐᓄᑦ ᖃᖓᑐᐃᓐᓇᖅ ᐆᒪᓂᖏᓐᓂᒃ ᐊᑐᖃᑦᑕᖅᑕᖏᑦ ᐱᐅᓯᕐᒥᒍᑦ ᐅᕝᕙᓗᓐᓃᑦ ᖃᖑᓂᖓᓂ ᐊᑐᖅᑕᐅᕙᖕᓂᖏᓐᓂᒃ ᐊᕐᕌᒍᒥ.
	ᑐᒃᑐᐃᑦ ᐊᒥᒌᓂᖏᑦ ᐊᒻᒪᓗ ᓇᓃᖃᑦᑕᕐᓂᖏᑦ	ᐱᒻᒪᕆᑦ	6. ᖃᐅᔨᓴᕐᓗᑎᒃ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᐃᑦ ᐊᒥᒌᓂᖏᑦ ᑐᑭᓯᔭᐅᓗᑎᒃ/ᐱᐅᓯᒋᐊᖅᑕᐅᓗᑎᒃ ᑐᒃᑐᖃᕐᕕᐅᕙᖕᓂᖏᑦ ᑕᒪᒃᑯᓂᖓ, ᓇᒧᓪᓗ ᑎᑭᐅᒪᕙᖕᒫᖓᑕ, ᐊᒥᒋᓂᖏᓐᓂᓗ ᖃᓄᐃᓕᖕᒪᓂᖏᑦ, ᓇᓂ ᑭᒡᓕᖃᕐᕕᐅᓂᖏᓐᓂᒃ, ᖃᓄᐃᓕᕙᓪᓕᐊᓂᖏᓐᓂᒃ, ᓇᒨᖓᐅᕙᓪᓕᐊᓂᖏᓐᓂᒃ ᐊᑐᖃᑦᑕᖅᑕᖏᓐᓂ ᐊᒻᒪᓗ ᐊᓯᖏᓄᐊᖃᑦᑕᕐᓂᖏᑦ ᑐᒃᑐᖃᕐᕕᐅᕙᖕᒥᔪᓄᑦ.
			7. ᖃᐅᔨᓴᖅᑕᐅᓗᑎᒃ ᐱᔾᔪᑕᐅᕙᒃᑐᑦ ᐊᒃᑐᖅᑕᐅᓯᒪᖃᑕᐅᓇᕐᓂᖏᓐᓂᒃ ᓄᕐᓇᖃᑕᐅᓇᕐᓂᖏᓐᓄᑦ, ᐆᒪᐃᓐᓇᐅᓇᕐᓂᖏᓐᓄᓪᓗ, ᓇᔪᓇᖅᑕᖏᓐᓂᓗ ᓄᓇᓂᒃ ᓄᕐᓇᕕᒋᓂᕐᒧᑦ.
	ᓇᒧᖓᐅᕙᓂᖏᑦ ᓄᓇᒥᓗ ᓇᔪᐃᕙᖕᓂᖏᑦ	ᐱᒻᒪᕆᑦ	8. ᑐᑭᓯᔭᐅᓗᑎᒃ-ᐱᐅᓯᒋᐊᖅᑕᐅᓗᑎᒃ ᖃᐅᔨᒪᔭᐅᓂᖏᑦ ᐅᖓᓯᒃᑐᒧᑦ ᐊᒥᓱᖅᐸᓪᓕᐊᓗᑎᒃ ᓇᒨᖓᐅᕙᖕᓂᖏᑦ ᓈᐸᓪᓕᐊᓗᑎᒃ, ᐊᓯᖏᓐᓄᐊᖃᑦᑕᕐᓂᖏᑦ ᑐᒃᑐᖃᕐᕕᖕᓄᑦ ᐊᒻᒪᓗ ᓯᑯᒃᑯᑦ ᐃᑳᕆᐊᖅᑐᕐᕕᒋᕙᒃᑕᖏᓐᓂᖅ (ᓘᕐᓗ ᐆᒃᑑᑎᒋᓗᒍ ᓇᐅᒃᑯᑦ ᖃᓄᕐᓗ ᐊᒥᓯᐃᖅᑕᖅᑐᒥᒃ) ᓇᔪᖅᐸᒃᑕᖏᓐᓂ ᑕᒪᒃᑯᓇᖓ ᑐᒃᑐᓄᑦ.
			9. ᖃᐅᔨᓴᖅᑕᐅᑎᐊᒃᑲᓐᓂᕐᓗᑎᒃ ᓇᓂ ᓄᓇᒥᒃ ᓇᔪᖅᐸᖕᒪᖔᑕ (ᓘᕐᓗ ᐆᒃᑑᑎᒋᓗᒍ ᑐᒃᑐᖃᕐᕕᐅᕙᖕᓂᖏᑦ ᑕᒪᒃᑯᓂᖓ ᐊᖏᓂᖏᓐᓂᒃ, ᐱᐅᓂᖅᓴᓂᒃ ᖃᐅᔨᒪᔭᐅᓕᕐᖁᖁᓪᓗᑎᒃ ᓇᓃᖃᑦᑕᕐᓂᖏᓐᓂᒃ ᐱᔾᔪᑎᖃᖅᑐᓂᒃ ᖃᓄᐃᑦᑐᓂᒃ ᓇᔪᕐᓂᖅᓴᐅᕙᖕᒪᑕ ᓱᓇᑕᖃᕐᓂᖏᓐᓂᒡᓗᓐᓃᑦ).
		ᐊᑯᓂᖅᑐᑦ	10. ᑐᑭᓯᔭᐅᓗᑎᒃ ᓛᓐᓇᐅᓕᖅᑐᖅ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ ᓇᔪᖃᑦᑕᖅᑕᖏᑦ ᖃᓄᐃᓕᖓᓕᕐᓂᖏᓐᓂᒃ ᐊᒻᒪᓗ ᓇᐅᑦᑎᖅᑐᖅᑕᐅᓗᑎᒃ ᓇᔪᖃᑦᑕᖅᑕᖏᓐᓂ ᐊᓯᔾᔨᖅᐸᓪᓕᐊᔪᑦ/ᐊᓯᕈᖅᓯᒪᔪᓗᓐᓃᑦ.
		ᐊᑦᑎᒃᑐᒦᑐᑦ	11. ᐱᕙᓪᓕᐊᓗᑎᒃ ᐊᐅᓚᑦᑎᓗᑎᒡᓗ ᑕᒪᒃᑭᓇᐊᖅᑐᓂᒃ ᖃᐅᔨᓴᖅᑕᐅᓂᖏᓐᓂᒃ ᐱᕈᖅᑐᖃᕐᕕᐅᓂᖏᓐᓂᒃ ᐊᑐᖅᑕᐅᕙᖕᓂᖕᓂᒃ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᓄᑦ (ᓘᕐᓗ ᐆᒃᑑᑎᒋᓗᒍ, ᓂᕿᒃᓴᓇᕙᒃᑕᖏᑦ, ᓂᕆᕕᒋᕙᒃᑕᖏᑦ ᐊᒃᑐᖅᑕᐅᓯᒪᓂᖏᑦ, ᐱᕈᒃᑲᓂᖅᓯᒪᓂᖏᑦ ᓄᖑᓯᒪᓕᓚᐅᕋᓗᐊᖅᑎᓪᓗᒋᑦ ᓂᕿᒋᕙᒃᑕᖏᑦ ᐱᕈᒃᒃᑲᓂᖅᑐᑦ.
			12. ᓇᓗᓇᐃᖅᑕᐅᓂᖏᑦ ᓇᐅᑯᑦ ᐊᒻᒪᓗ ᖃᖓ ᓯᑯᒃᑯᑦ ᐃᑳᕆᐊᑐᖃᕐᓂᖏᑦ.
			13. ᒪᓕᒃᓴᖃᕐᓗᑎᒃ ᖃᓄᐃᓕᐅᕈᓐᓇᕐᓂᖏᓐᓂᒃ ᐱᐅᓯᖃᕈᑕᐅᓂᐊᖅᑐᓂᒃ ᐊᒻᒪᓗ ᖃᓄᐃᓕᖓᓂᐊᕐᓂᖏᓐᓂ ᓈᓴᖅᑕᐅᔪᓐᓇᕐᓂᖏᑦ (ᖃᐅᔨᒪᔾᔪᑎᒃᓴᐃᑦ ᑲᑎᖅᓱᖅᑕᐅᓂᖏᑦ ᑐᑭᓯᓂᐊᖅᑕᐅᓂᖏᓪᓗ) for ᑐᒃᑐᖃᕐᕕᐅᕙᖕᓂᖏᑦ ᑕᒪᒃᑯᓂᖓ. ᓇᔪᖅᐸᒃᑕᖏᓐᓂᓗ.
	ᐱᑕᖃᓕᕈᓐᓇᕐᓂᖏᑦ ᐊᒃᑐᖅᑕᐅᔪᓐᓇᕐᓂᖏᑦ ᐅᓗᕆᐊᓇᖅᑐᓄᑦ	ᐱᒻᒪᕆᑦ	14. ᖃᐅᔨᒋᐊᖅᑕᐅᓗᑎᒃ ᓛᓐᓇᐅᔪᖅ ᓯᕗᓂᒃᓴᒥᓗᓐᓃᑦ ᐊᒃᑐᖅᑕᐅᔪᓐᓇᕐᓂᖏᑦ ᓯᓚᐅᑉ ᐊᓯᔾᔨᖅᐸᓪᓕᐊᓂᖓ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ ᑕᕆᐅᕐᒥᓗ ᓯᑯᒥ ᓄᓇᒥᓗ ᓇᔪᖅᐸᒃᑕᖏᓐᓂ ᓇᓂᕕᒋᔭᐅᖃᑦᑕᖅᑐᓂ ᑕᒪᒃᑯᓄᖓ.
			15. ᑐᑭᓯᓂᐊᖅᑕᐅᓗᑎᒃ ᐱᒪᕆᐅᓂᖏᑦ ᖃᐅᔨᒪᔭᐅᓕᖅᑐᑦ ᐊᒻᒪᓗ ᐱᑕᖃᓕᕈᓐᓇᕐᒥᔪᑦ ᐅᓗᕆᐊᓇᕈᑏᑦ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᓄᑦ ᓇᓂᑐᐃᓐᓇᖅ ᓇᔪᖅᐸᒃᑕᖏᓐᓂᓗ ᐊᒻᒪᓗ ᐱᕙᓪᓕᐊᔪᒥᒃ ᐊᒃᑐᖅᑕᐅᓯᒪᔪᓐᓇᕐᓂᖏᑦ ᑕᒪᒃᑯᐊ ᐆᒪᔪᐃᑦ.

			16. ᖃᐅᔨᓴᖅᑕᐅᓗᑎᒃ ᖃᓄᐃᓕᖓᕙᖕᒪᖔᑕ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ ᐱᑕᖃᕐᓂᖏᓐᓂ ᐅᒥᖓᒪᐃᑦ, ᐊᒪᕈᐃᑦ, ᐊᓯᖏᓪᓗ ᑐᒃᑐᐃᑦ ᐊᒻᒪᓗ ᑐᒃᑐᓂᒃ ᓂᕿᒃᓴᖅᓯᐅᖅᐸᒃᑐᑦ ᐆᒪᔪᐃᑦ.
		ᐊᑯᓂᖅᑐᑦ	17. ᖃᐅᔨᓴᖅᑕᐅᓗᑎᒃ ᖃᓄᑎᒋᒧᑦ, ᓇᓈᓂᖏᓐᓂ ᐊᒻᒪᓗ ᖃᓄᐃᓕᖓᓕᕈᑕᐅᔪᓐᓇᕐᓂᖏᓐᓂᒃ ᐃᒃᐱᒋᕙᒃᑕᖏᓐᓂᒃ ᐸᒃᕕᓴᒃᑕᐅᖃᑦᑕᕐᓂᖏᓐᓄᑦ (ᓲᕐᓗ ᐅᒃᑑᑎᒋᓗᒍ, ᖃᖓᑕᓲᖃᕐᓂᕐᒧᑦ, ᓯᑭᑑᖃᕐᓂᕐᒧᑦ, Hᐋᑕᐃᑦ ᐊᑐᖅᑕᐅᓂᖏᓐᓄᑦ, ᐳᓚᕋᖅᑎᓄᑦ, ᖃᐅᔨᓴᖅᑎᓄᑦ, ᓴᓇᕐᕈᑎᓄᓪᓗ ᐊᑐᖅᑕᐅᕙᒃᑐᓄᑦ ᓄᓇᒥᐅᑕᓂᒃ ᐱᔭᒪᔭᐅᔪᓂᒃ ᕿᓂᕈᑕᐅᕙᒃᑐᓂᒃ ᐊᒻᒪᓗ ᐱᕙᓪᓕᐊᔾᔪᑕᐅᕙᖕᓂᖏᓐᓂᒃ ᐊᑐᖅᑕᐅᕙᒃᑐᑦ ᓴᓇᕐᕈᑎᕐᔪᐊᑦ) ᐊᒃᑐᐃᕙᒃᑐᑦ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᓐᓂ, ᖃᐅᔨᓴᖅᑕᐅᓗᑎᓪᓗ ᐊᒃᑐᖅᑕᐅᓗᐊᕼᒃᑯᑕᐅᔪᓐᓇᖅᑐᑦ, ᐱᓗᐊᖅᑐᒥᒃ ᐊᒃᑐᖅᑕᐅᓴᕋᐃᓐᓂᕐᒦᓐᓂᖏᓐᓂ ᐊᑐᓕᖅᑎᓪᓗᒋᑦ (ᓲᕐᓗ ᐆᒃᑑᑎᒋᓗᒍ ᐊᐅᔭᒃᑯᑦ ᐅᖓᓯᒃᑐᒧᑦ ᓅᖃᑦᑕᕐᓂᖏᓐᓂᒃ, ᓂᕆᓇᖏᓐᓂᓗ ᖃᓄᐃᓕᖓᓕᕐᓂᖏᓐᓂ). 18. ᖃᐅᔨᓴᖅᑕᐅᓗᑎᒃ ᑯᒪᒃᑕᖃᕐᒪᖔᑕ ᐋᓂᐊᓕᕈᑕᐅᔪᓐᓇᖅᑐᓂᒡᓗᓐᓃᑦ ᐊᐃᑦᑐᖅᑕᐅᔪᓐᓇᖅᑐᓂᒃ ᐆᒪᔪᓂᖔᕈᓐᓇᖅᑐᓂᒃ (ᓲᕐᓗ ᐆᒃᑐᑎᒋᓗᒍ ᐅᒥᖓᖕᓂᒃ, ᑎᖕᒥᐊᕐᓂᒃ) ᐊᒻᒪᓗ ᐊᒃᑐᐃᔪᓐᓇᖅᑐᓂ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᓂᒃ, ᑕᒪᑯᐊ ᑯᒪᐃᓪᓗ ᐋᓂᐊᓕᕈᑕᐅᔪᓐᓇᖅᑐᓂᒃ ᐱᑕᖃᓕᖅᐸᓪᓕᐊᑐᐃᓇᕈᓇᕐᒪᑕ ᓯᓚᐅᑉ ᐊᓯᔾᔨᖅᐸᓪᓕᐊᓂᖓᓄᑦ. 19. ᐃᒃᐱᒋᔭᐅᔪᓐᓇᖅᑐᓂᒃ ᐸᒃᕖᓴᒃᑕᐅᓗᐊᖅᑕᐃᓕᒪᑎᑦᑎᔭᕆᐊᖃᕐᓂᖏᑦ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᓂᒃ ᓇᐅᑦᑎᖅᑐᖅᑕᐅᕙᓪᓕᐊᓂᖏᓐᓂᑦ ᖃᐅᔨᓴᖅᑕᐅᕙᓪᓕᐊᓂᖏᓐᓈᓗᓐᓃᑦ, ᖃᐅᔨᒋᐊᖃᕐᓗᑎᒃ ᐊᑐᕈᓐᓇᕐᓂᖏᓐᓂᒃ ᐸᒡᕕᓇᖏᓂᖕᓴᐅᔪᓐᓇᖅᑐᓂᒃ ᖃᐅᔨᓴᕈᑎᖏᓐᓂᒃ ᐆᒪᔪᓂᒃ, ᐊᑐᖃᑦᑕᕐᓗᑎᒃ ᓇᐅᑦᑎᖅᑑᑎᒃᓴᓂᒃ ᖃᐅᔨᓴᕐᓂᕐᒧᑦ ᖃᓄᐃᓕᐅᕈᑕᐅᔪᓐᓇᖅᑐᓂᒃ ᐸᒡᕕᓇᖏᓂᖕᓴᐅᓂᐊᖅᑐᓂᒃ (ᓲᕐᓗ ᐆᒃᑐᑎᒋᓗᒍ ᐸᒡᕕᓴᖏᑦᑐᓂᒃ ᖃᐅᔨᓴᕈᑎᒃᓴᓂᒃ ᑐᕐᓗᑎᒃ, ᓲᕐᓗ ᑕᒪᒃᑯᓂᖓ ᓴᓇᒪᓂᖏᓐᓂᒃ ᖃᐅᔨᓴᕈᑎᓂᒃ, ᐅᖓᓯᒃᑐᒥᒃ ᖃᐅᔨᕕᐅᔪᓐᓇᕐᓂᖏᓐᓂᒃ, ᐃᓄᐃᑦ ᖃᐅᔨᒪᔭᐅᖃᖏᑦ/ᐱᐅᓯᐅᖃᕐᓂᒃ ᐊᕙᑎᒥᒃ ᐊᕙᑎᓕᕆᓂᕐᒥᒡᓗ ᖃᐅᔨᒪᔭᐅᔪᑦ ᑲᑎᖅᓱᐃᔪᓇᕐᓂᖏᓐᓂ). 20. ᓇᐅᑦᑎᖅᑐᖅᑕᐅᓂᖏᓐᓂ ᐅᒥᐊᕐᔪᐊᖃᕐᓂᖏᑦ ᓇᐅᑯᐃᓇᖅ ᓅᕝᕕᐅᕙᒃᑐᓂᒃᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᓐᓄᑦ ᐊᑐᖅᑕᐅᕙᒃᑐᓂᒃ, ᖃᖓᐅᓂᖓᓂᓗ ᐅᒥᐊᕐᔪᐊᖃᕐᔫᖑᓂᖏᓐᓂᒃ ᐊᒻᒪᓗ ᖃᓄᐃᑦᑑᕙᖕᓂᖏᓐᓂ ᐅᒥᐊᕐᔪᐊᖃᕐᓂᖏᑦ.
		ᐊᑦᑎᒃᑐᒦᑦᑐᑦ	21. ᖃᐅᔨᒪᖅᑕᐅᓂᖅ ᖃᓄᑎᒋᐅᔾᔨᒃ ᐊᒻᒪᓗ ᐊᓄᖅ ᑐᒃᑐᓯᐅᕐᕕᐅᕙᖕᓂᖏᓐᓂᒃ ᐅᕝᕙᓗᓐᓃᑦ ᑐᒃᑐᓯᐅᕐᕕᐅᔪᓇᕐᓂᖏᓐᓂᒃ, ᑕᐃᒃᑯᓂᖓ ᐃᓚᖃᕐᓗᑎᒃ ᐊᑭᓖᕙᒃᑐᓂᒃ ᑐᒃᑐᓯᐅᕈᔾᔭᐅᕙᒃᑐᓂᒃ ᐊᒻᒪᓗ ᑐᑭᓯᓂᐊᖅᑕᐅᓗᑎᒃ ᐊᒃᑐᖅᑕᐅᓗᐊᖅᑕᐃᓕᒪᔾᔪᑎᒃᓴᐅᔪᓐᓇᖅᑐᑦ, ᐱᔭᕇᐊᖃᕈᑎᒃ, ᐊᑐᕐᓗᑎᒃ ᒪᓕᒃᑕᐅᓗᑎᓪᓗ ᓄᓇᑖᕈᑎᓂᒃ ᐊᖏᕈᑎᑦ.
ᓂᕈᑐᔪᒥᒃ ᖃᓄᐃᓕᐅᕈᑎᒃᓴᓂᐃᑦ ᐊᕕᒃᑐᖅᓯᒪᓂᖏᓐᓂ: ᓇᔪᖓᓇᔭᐅᕙᖕᓂᖏᑦ ᑐᒃᑐᓄᑦ ᐊᒻᒪᓗ ᑐᒃᑐᐃᑦ ᓴᐳᓐᓂᐊᖅᑕᐅᓂᖏᓐᓄᑦ ᐊᐅᓚᑕᐅᓂᖏᑦ			
ᖃᐅᔨᒪᔭᐅᖏᓐᓂᖏᑦ ᐊᒥᕐᓱᕈᖅᔫᓂᕐᒧᑦ ᑕᒪᐃᓂᓪᓗ ᐅᓗᕆᐊᓇᖅᑐᓕᖕᓄ	ᖃᓄᐃᓕᐅᕈᑎᒃᓴᐃᑦ ᓴᐳᓐᓂᐊᕐᓂᕐᒧᑦ ᓇᔪᖓᓇᔭᐅᕙᒃᑐᓂᒃ	ᐱᒻᒪᕆᓪᓚᕆᐅᑦ	22. ᓴᐳᓐᓂᐊᖅᑕᐅᓪᓗᑎᒃ ᓇᔪᖅᑕᐅᕙᒃᑐᑦ ᑕᒪᒃᑯᓄᖓ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᓐᓄᑦ ᑕᒪᐃᓐᓂ ᓇᔪᖅᑕᐅᕙᖕᓂᖏᑦ ᐆᒪᓂᓕᒫᖏᓐᓂil ᐊᑐᖅᐸᒃᑕᖏᑦ (ᓲᕐᓗ ᐆᒃᑐᑎᒋᓗᒍ ᓄᕐᓇᕕᖏᑦ, ᐊᐅᔭᒃᑯᑦ ᓇᔪᖅᐸᒃᑕᖏᑦ, ᓄᓕᐊᕐᓕᖅᐸᖕᓂᖏᑦ, ᐅᑮᕕᖏᑦ, ᐅᖓᓯᒃᑐᒧᑦ ᓅᖃᑦᑕᕐᓂᖏᑦ, ᓇᐅᕐᑰᕐᕕᒋᕙᒃᑕᖏᑦ (ᑕᕆᐅᕐᒥ ᓯᑯᒃᑯᑦ ᓄᓇᒃᑯᓪᓗ). 23. ᑲᒪᒋᔭᐅᓗᑎᕐ ᑐᑭᓕᐅᕈᑕᐅᓂᖏᑦ ᓄᓇᐃᓪᓗ ᓄᓇᒥᐅᑕᐃᓪᓗ ᐸᕐᓇᐅᑕᐅᓂᖏᓐᓂ ᖃᐅᔨᒪᓂᐊᕐᒪᑕ ᑕᒪᕐᒥᒃ ᓴᓇᔭᐅᔪᒪᔪᓂᒃ ᐱᓕᖅᕕᐅᔪᒪᓂᖏᑦ ᐸᕐᓇᑕᐅᔪᑦ ᐊᑐᓕᖅᑎᑕᐅᓪᓗ ᑲᔪᓯᓂᐊᕐᒪᑕ ᓴᐳᓐᓂᐊᖅᑕᐅᓗᑎᒃ ᖁᑦᑎᒃᑐᒥ ᑐᒃᑐᓄᑦ ᐱᒻᒪᕆᐅᓂᖏᑦ ᓇᔪᖅᑕᐅᕙᒃᑐᑦ (ᓲᕐᓗ ᐆᒃᑐᑎᒋᓗᒍ ᐃᓱᒪᒃᓴᖅᓯᐅᕈᑕᐅᓂᖏᑦ ᐊᒃᑐᖅᑕᐅᓴᕋᐃᑦᑑᔭᐅᓇᕐᓂᖏᓐᓂᒃ ᐊᑐᖅᑐᑦ/ᑕᒪᒃᑯᐊᓗ ᓯᑯᒃᑯᑦ ᓇᐅᕐᑰᕐᕕᒋᕙᒃᑕᖏᑦ ᐊᕐᕋᒍᒥ, ᓄᕐᓇᕕᖏᓪᓗ, ᐊᓯᖏᓪᓗ). 24. ᑐᑭᓯᓂᐊᕈᑎᒃᓴᖃᕐᓗᑎᒃ ᐱᕙᓪᓕᐊᑐᐃᓇᖅᑐᓂᒃ ᐊᒃᑐᖅᑕᐅᕙᓪᓕᐊᔪᓇᕐᓂᖏᓐᓂᒃ ᖃᐅᔨᒪᔾᔪᑎᒃᓴᐅᓂᐊᖅᑐᓂᒃ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖃᕐᕕᐅᕙᖕᓂᖏᓐᓂ ᑕᒪᐃᓐᓂ ᐊᖏᔪᐊᓗᖕᒥ ᓄᓇᒥ ᓇᔪᖅᐸᒃᑕᖏᓐᓂ. 25. ᖃᓄᐃᓕᐅᕈᑎᒃᓴᓂᒃ ᐱᑕᖃᓕᖅᑎᑦᑎᓗᑎᒃ ᐊᑯᓂᐅᓂᐊᖅᑐᒧᑦ ᓴᐳᓐᓂᐊᕈᑎᒃᓴᓂᒃ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᓂᒃ, ᐃᓱᒪᒋᔭᐅᓯᒪᓗᑎᒃ ᓱᓕᔫᑦ ᑕᒪᒃᑯᐊ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ ᐅᑎᖃᑦᑕᕐᓂᖏᑦ ᓇᔪᖅᐸᓚᐅᖅᑕᒥᓄᑦ ᐊᑯᓂᐊᓗᒃ ᐅᑎᕐᕕᒋᓚᐅᕈᓃᕋᓗᐊᕈᓂᒋᑦ ᐊᕐᕋᒎᕙᓴᖕᓂ.
	ᖃᓄᐃᓕᐅᕈᑎᒃᓴᐃᑦ ᐊᑐᖅᑕᐅᓗᐊᖅᑕᐅᓕᓂᕐᒧᑦ ᐅᓗᕆᐊᓇᖅᑐᓄᑦ	ᐱᒻᒪᕆᓪᓚᕆᐅᑦ	26. ᐊᑑᑎᖃᑦᑎᐊᖅᑐᓂᒃ ᐊᐅᓚᑕᐅᓗᑎᒃ ᐊᑐᓕᖅᑎᑕᐅᓗᑎᓪᓗ ᐅᔾᔨᖅᑐᑦᑎᐊᕆᐊᖃᕐᓂᕐᒧᑦ ᖃᓄᐃᓕᐅᕈᑕᐅᓂᐊᖅᑐᑦ ᓇᓂᑐᐃᓐᓇᖅ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖃᕐᕕᐅᕙᖕᓂᖏᓐᓂ ᐊᖑᒪᔭᐅᕐᑯᓪᓗᑎᑦ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᓐᓄᑦ ᑐᕌᖓᔭᕆᐊᓕᑦ ᐊᒻᒪᓗ ᐊᒃᑐᖅᑕᐅᓗᐊᖅᑕᐃᓕᒪᔭᕆᐊᖃᕐᓂᖏᓐᓄᑦ. 27. ᐃᓚᐅᓗᑎᒃ ᐱᒋᐊᖅᑎᑕᐅᓯᒪᔪᓂᒃ ᑐᕌᖓᔪᓂᒃ ᒥᑭᓪᓕᑎᓇᔪᒪᓂᖅ ᓯᓚᐅᑉ ᐊᓯᔾᔨᖅᐸᓪᓕᐊᓂᖓᓄᑦ ᐊᒃᑐᖅᑕᐅᓯᒪᔪᓇᕐᓂᖏᓪᓕᒃ (ᓄᓇᓕᖕᓂ, ᐊᕕᒃᑐᖅᓯᒪᓂᖏᓐᓂ, ᑲᓇᑕᓕᒫᒥ, ᓄᓇᕐᔪᐊᕐᒥᓗ), ᒥᑭᓪᓕᑎᖅᑕᐅᓕᐊᕐᓗᑎᒃ/ᐱᑕᖃᕈᓐᓂᖅᑎᑕᐅᓗᑎᒃ ᓱᕈᕐᓇᖅᑐᓖᑦ ᐊᓯᖏᓪᓗ ᑐᕐᖁᓇᖅᑐᓖᒃ 28. ᐋᑭᐅᒪᑎᑦᑎᓗᑎᒃ ᐊᒃᑐᖅᑕᐅᓗᐊᕆᒃᑯᑎᒃᓴᐅᓂᐊᖅᑐᓂᒃ ᖁᓕᕇᖅᑎᖅᑕᐅᓯᒪᔪᒥᒃ ᓇᓗᓇᐃᖅᑕᐅᕆᔭᐅᓗᑎᒃb ᐱᐅᔪᓃᕈᑕᐅᔪᓇᖅᑐᓂᒃ ᐊᒃᑐᖅᑕᐅᕆᒃᑯᑕᐅᓗᑎᒃ ᐸᒡᕕᓴᒃᑕᐅᖃᑦᑕᕆᐊᖃᖅᑐᓂᖏᑦ ᐱᒪᕆᐅᔪᑦ ᑐᒃᑐᓄᑦ ᓲᕐᓗ ᓄᕐᓇᕕᖏᑦ ᐊᒻᒪᓗ ᓯᑯᒃᑯᑦ ᐃᑳᕆᐊᖅᑐᕐᕕᒋᕙᒃᑕᖏᑦ.

			29. ᐊᒃᑐᖅᑕᐅᓗᐊᕇᒃᑯᑎᖅᑕᐅᓗᑎᒃ ᑐᖁᕋᕈᑕᐅᓕᕈᓐᓇᖅᑐᓂᒃ ᐱᐅᖏᑦᑐᒥᒃ ᐊᒃᑐᖅᑕᐅᔪᓐᓇᕐᓂᖏᑦ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ. 30. ᖃᐅᔨᓴᖅᑕᐅᓗᑎᒃ ᖃᓄᐃᓕᖓᔪᓐᓇᕐᓂᖏᑦ ᑭᒡᓕᖃᕐᕕᐅᑎᑕᐅᓯᕆᐊᓖᑦ ᐸᒡᕕᒃᓴᑕᐅᖃᑦᑕᕐᓂᖏᓐᓂ, ᐃᓕᑕᕆᔭᐅᔪᓐᓇᕐᓂᖏᑦ ᐅᕝᕙᓘᓐᓃᑦ ᓴᐳᓐᓂᐊᖅᑕᐅᔪᓐᓇᕐᓂᖏᑦ ᐃᑲᔪᖅᑕᐅᓗᑎᒃ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ ᐊᒻᒪᓗ ᓇᔪᒐᕆᕙᒃᑕᖏᑦ.
		ᐊᑯᓂᖅᑐᑦ	31. ᑐᑭᓕᐅᖅᑕᐅᓗᑎᒃ ᓇᓃᖃᑦᑕᕐᓂᖏᑦ ᓄᓇᒥ ᓱᕈᕐᓇᖅᑐᓖᑦ/ᐊᒃᑕᑯᓖᑦ ᖃᐅᔨᓴᖅᑕᐅᓗᑎᒡᓗ ᖃᓄᖅ ᓴᓗᒻᒪᖅᓴᖅᑕᐅᔪᓐᓇᕋᔭᕐᒪᖔᑕ.
	ᑲᑐᔾᔨᖃᑎᒌᖕᓂᑯᑦ ᐊᐅᓚᑦᑎᓂᖅ	ᐱᒻᒪᕆᐅᑦ	32. ᓄᓇᓕᖕᓂ ᑐᒃᑐᖃᕐᕕᐅᓂᖏᓐᓂ ᑕᒪᐃᓐᓄᑦ ᐊᐅᓚᑕᐅᓂᖏᓐᓂ (ᓲᕐᓗ ᐆᒃᑑᑎᒥᓗᒍ ᓄᓇᑦᓯᐊᑉ ᓄᓇᕗᒡᓗ ᑭᒡᓕᖃᕐᕕᖏᓐᓂ) ᑲᑐᔾᔨᖃᑎᒌᖃᑦᑕᕐᓗᑎᒃ ᐊᐅᓚᑦᑎᕙᒡᓗᑎᕐ ᑲᒪᔨᐅᑎᑕᐅᔪᓂ ᑲᓇᑕᓂᒥ, ᓄᓇᕗᒻᒥ, ᓄᓇᑦᓯᐊᒥᓗ ᐊᐅᓚᑦᑎᔨᐅᖃᑕᐅᔪᓂ ᑎᒥᖁᑎᖃᕐᕕᐅᓂᖏᓐᓂᓗ ᐅᔾᔨᖅᑐᑦᑎᐊᕆᓚᓂᕐᒧᑦ ᓇᓕᖃᕇᒃᑐᓂᒃ ᐱᓇᓱᐊᕈᑕᐅᑎᐊᕐᓂᖏᓐᓂᒃ ᑕᒪᒃᑯᐊ.
		ᐊᑯᓂᖅᑐᑦ	33. ᑐᓴᐅᒪᔭᐅᑎᑦᑎᕙᓪᓗᑎᒃ ᐱᒻᒪᕆᐅᔪᓂᒃ ᐱᔪᓐᓇᐅᑎᐅᖃᖅᑎᐅᔪᓄᑦ/ᐃᓚᒋᔭᐅᕙᒃᑐᓄᓗ (ᓲᕐᓗ ᐆᒃᑑᑎᒥᓗᒍ ᒐᕙᒪᒃᑯᑦ, ᐆᒪᔪᓕᕆᓂᕐᒥᒃ ᐊᐅᓚᑦᑎᔾᔪᑦ ᑎᒥᖁᑎᖏᑦ, ᐊᕕᒃᑐᖅᓯᒪᔪᓂ ᐆᒪᔪᓕᕆᓂᕐᒧᑦ ᑲᑎᒪᔨᐅᔪᑦ, ᓄᓇᑖᕈᑎᓂᒃ ᑎᒥᖁᑎᓯᐅᔪᑦ, ᐃᓄᐃᑦ/ᐃᓄᕕᐊᓗᐃᑦ, ᖃᐅᔨᓴᖅᑏᑦ ᐅᔭᕋᖕᓂᐊᖅᑏᑦ ᐅᖅᓱᐊᓗᒃᓯᐅᖅᑏᒡᓗ ᒐᓴᓖᒃᓴᖅᓯᐅᖅᑏᒡᓗ, ᐅᒥᐊᕐᔪᐊᖅᑎᐅᕙᒃᑐᑦ ᐳᓚᕋᑦᑐᓕᕆᔩᒡᓗ, ᒐᕙᒪᐅᖏᑦᑐᑦ ᑎᒥᖁᖏᑦ ᐊᒻᒪᓗ ᐃᓅᓕᒫᖏᑦ) ᐊᒻᒪᓗ ᐊᓯᖏᑦ ᑎᒥᖁᑎᒋᔭᐅᔪᑦ ᑲᒪᔨᐅᕙᒃᑐᑦ ᓄᓇᒥᒃ ᐊᒻᒪᓗ/ᐅᕝᕙᓘᓐᓃᑦ ᓄᓇᒥᐅᑕᓕᕆᓂᕐᒥᒃ ᐊᐅᓚᑦᑎᔨᐅᔪᑦ ᐊᒻᒪᓗ/ᐅᕝᕙᓘᓐᓃᑦ ᓴᐳᓐᓂᐊᖅᑎᐅᕙᖕᓂᖅ ᑕᒪᒃᑯᓂᖓ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᓂᒃ, ᐅᔾᔨᖅᑐᕆᐊᕆᐊᖃᕐᓂᕐᒧᑦ ᑐᑭᓕᐅᖃᑎᒌᒌᐊᖃᕐᓂᖏᑦ ᐸᕐᓇᐅᓂᖏᓐᓄᑦ ᐊᐅᓚᑦᑎᔾᔪᓂᖏᓐᓄᓗ, ᐊᒻᒪᓗ ᐊᔪᕐᓇᖏᑦᑕᖑᖕᖑᒃ, ᑐᑭᓕᐅᖃᑎᒌᖕᖑᓗᑎᒃ ᐊᐅᓚᑦᑎᔨᐅᕕᒋᔭᖏᓐᓂ ᐊᒻᒪᓗ ᐊᑐᓕᖅᑎᑦᑎᓪᓕᐊᓂᖏᓐᓂ.
ᓂᕈᑐᔪᒥᒃ ᖃᓄᐃᓕᐅᕈᑎᒃᓴᓂᐃᑦ ᐊᕕᒃᑐᖅᓯᒪᓂᖏᓐᓂ: ᐃᓕᓐᓂᐊᖅᑐᓕᕆᓂᖅ ᖃᐅᔨᑎᑦᑎᕙᓪᓕᐊᓂᕐᒧ, ᐸᕿᔨᐅᖃᑕᐅᔪᐃᓐᓇᐃᑦ ᐊᒻᒪᓗ ᐃᓚᒌᒃᓯᖅᑐᑦ			
ᑕᒪᐃᓐᓂᒃ ᐅᓗᕆᐊᓇᕈᑕᐅᔪᑦ ᐊᒻᒪᓗ ᖃᐅᔨᒪᔭᐅᖏᓐᓂᖏᑦ ᐊᒥᓱᕈᖅᓲᓂᕐᒧᑦ	ᐃᓕᓐᓂᐊᕈᑎᒃᓴᐃᑦ ᓄᓇᕗᒻᒥ ᓄᓇᑦᓯᐊᒥᓗ ᐊᖏᒡᓕᒋᐊᖅᑕᐅᓗᑎᒃ, ᑲᓇᑕᓕᒫᒥ, ᓄᓇᕐᔪᐊᒥᓗ	ᐊᑯᓂᖅᑐᑦ	34. ᑐᓴᐅᒪᔭᐅᓗᑎᒃ ᐱᒻᒪᕆᐅᓂᖏᑦ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᐃᑦ ᐃᓄᖕᓄᑦ/ᐃᓄᕕᐊᓗᐃᓪᓗ ᐃᓕᖅᑯᓯᖏᓐᓄᑦ, ᑮᓇᐅᔭᓕᐅᕈᑎᖏᓐᓄᑦ, ᐊᕙᑎᒧᑦ, ᐊᕙᑎᒥᐅᑕᓄᓪᓗ ᐊᒻᒪᓗ ᐱᑕᖃᕈᓐᓇᕐᓂᖏᓐᓂ ᐊᔾᔨᒋᖏᑦᑑᑎᑦ ᐆᒪᔪᐃᑦ. 35. ᑐᓴᐅᒪᔾᔪᑎᒃᓴᓕᐅᕐᓗᑎᒃ ᐊᒻᒪᓗ/ᐅᕝᕙᓘᓐᓃᑦ ᑐᓴᒃᓴᓕᐊᕆᔭᐅᓗᑎᒃ ᐱᒻᒪᕆᐅᓂᖏᓐᓄᑦ ᐱᔪᓐᓇᐅᑎᖃᖅᑐᓄᑦ/ᐊᒃᑐᖅᑕᐅᔪᓐᓇᖅᑐᓄᑦ ᐊᒻᒪᓗ ᐃᓄᖕᓄᑦ ᑕᕝᕙ ᐱᒻᒪᕆᐅᓂᖏᓐᓂᒃ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ, ᓇᔪᒐᕆᕙᒃᑕᖏᑦ ᐊᒻᒪᓗ ᖃᓄᖅ ᐊᒃᑐᖅᑕᐅᓗᐊᕇᒃᑕᐅᔪᓐᓇᕐᓂᖏᓐᓂᒃ ᐅᓗᕆᐊᓇᖅᑐᓄᑦ. 36. ᐱᕙᓪᓕᐊᓗᑎᒃ ᑲᑎᖅᓱᐃᕙᖕᓂᖅ/ᖃᐅᔨᑎᑦᑎᕙᖕᓂᖅ ᑕᑯᔭᐅᖃᑦᑕᕐᓂᖏᓐᓂᒃ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ ᐊᒻᒪᓗ ᑐᓴᒃᓴᓕᐊᕆᔭᐅᓗᑎᒃ ᐃᓄᓕᒫᓄᑦ ᐅᓂᒃᑳᕐᕕᐅᕙᖕᓂᖏᓐᓄ ᑐᒃᑐᐃᑦ ᑕᑯᔭᐅᕙᖕᓂᖏᓐᓂ (ᓲᕐᓗ ᐆᒃᑑᑎᒥᓗᒍ ᖃᕆᐅᓴᖅᑎᓄᑦ, ᒐᕙᒪᒃᑯᓐᓄᑦ, ᐊᖏᔪᑎᓂᒡᓗ ᓴᓇᕕᓕᐅᖅᓯᒪᔪᓄᑦ). 37. ᑐᓴᒃᓴᓕᐊᕆᔭᐅᓗᑎᒃ ᐱᒻᒪᕆᐅᓂᖏᑦ ᓇᐅᑦᑎᖅᑐᖅᑕᐅᕙᖕᓂᖏᑦ ᑎᒥᒃᑯᑦ ᖃᓄᐃᓂᖏᑦ, ᑐᒃᑐᑕᐅᕙᖕᓂᖏᑦ ᐊᒻᒪᓗ ᖃᐅᔨᓴᒃᓴᓂᒃ ᑐᓂᔭᐅᕙᖕᓂᖏᑦ.
	ᐱᕙᓪᓕᐊᑎᑦᑎᓂᖅ/ᐋᕿᐅᒪᓪ ᑎᑦᑎᔪᓐᓇᕐᓂᖅ ᐃᓚᒌᒃᓯᖃᑕᐅᓇᕐᓂᖏᑦ ᐊᐅᓚᑦᑎᔨᐅᖃᑕᐅᔪᑦ	ᐊᑯᓂᖅᑐᑦ	38. ᐱᕚᒥᓴᐃᕝᕙᖕᓂᖅ ᐸᕿᔨᐅᖃᑕᐅᕙᖕᓂᕐᒥᒃ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᐃᑦ ᓇᔪᖅᐸᒃᑕᖏᓐᓂ ᑖᒃᑯᓇᓂ ᐊᖏᔪᑎᓂ ᓄᓇᒥᐅᑕᓂ ᐱᓇᓱᐊᖅᑎᐅᕙᒃᑐᓂᒃ, ᐃᓚᐅᔪᒪᔪᓂ ᑎᒥᖁᑎᒋᔭᐅᔪᓂ, ᐃᓄᖕᓂ/ᐃᓄᕕᐊᓗᖕᓂᓗ ᓄᓇᓕᖕᓂ ᐊᒻᒪᓗ ᑲᑐᔾᔨᖃᑎᒌᖕᓂ 39. ᐱᕚᒥᓴᐃᕙᖕᓂᖅ ᐱᓕᕆᖃᑎᖃᕈᓐᓇᕐᓂᖅ ᐱᒻᒪᕆᐅᔪᓂᒃ ᐱᔪᓐᓇᐅᑎᓕᖕᓂᒃ/ᐊᒃᑐᖅᑕᐅᔪᓐᓇᖅᑐᓂᒃ (ᓲᕐᓗ ᐆᒃᑑᑎᒥᓗᒍ ᒐᕙᒪᓂ, ᐆᒪᔪᓕᕆᓂᕐᒥᒃ ᐊᐅᓚᑦᑎᔨᐅᖃᑕᐅᓂᕐᒧᑦ ᑲᑎᒫᔨᖏᓐᓂᒃ, ᐊᕕᒃᑐᖅᓯᒪᓂᖏᓐᓂ ᐆᒪᔪᓕᕆᓂᕐᒥᒃ ᐊᐅᓚᑦᑎᔨᐅᖃᑕᐅᓂᕐᒧᑦ ᑲᑎᒪᔨᓂ, ᓄᓇᑖᖅᓯᒪᔪᓄᑦ ᑎᒥᖁᑎᖏᓐᓂᒃ, ᐃᓄᖕᓂᒃ/ᐃᓄᕕᐊᓗᖕᓂᒃ, ᖃᐅᔨᓴᖅᑎᓂᒃ, ᐅᖅᓱᐊᓗᖕᓂᐊᖅᑎᓂᒃ/ᒎᓴᓖᒃᓴᖅᓯᐅᑐᓂᒃ, ᐅᒥᐊᕐᔪᐊᖃᒃᑐᓂᒃ ᐱᓚᕋᑦᑐᓕᕆᓂᕐᒥᓗ ᐃᖃᓇᐃᔮᖅᑐᓂᒃ), ᐊᓯᖏᓐᓂᓗ ᑐᑭᓕᐅᕈᑕᐅᖁᓗᒋᑦ ᐱᓕᕆᐊᓇᕆᔭᐅᓂᐊᖅᑐᑦ, ᐅᓗᕆᐊᓇᑐᓄᓗ ᐊᒃᑐᖅᑕᐅᓗᐊᕇᒃᑯᑎᓄᑦ ᐊᒻᒪᓗ ᖃᐅᔨᑎᑦᑎᖃᑦᑕᕐᓂᖅ ᐊᒃᑐᖅᑕᐅᓴᕋᐃᓂᖏᓐᓂᒃ ᓄᓇᐃᓗ ᓯᓚᐅᓗ ᖃᓄᐃᓂᖓᓂᖓ ᑕᒪᒃᑯᓄᖓ ᐱᔾᔭᑎᓕᖕᓂᒃ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᓐᓂᒃ ᓇᔪᖅᐸᒃᑕᖏᓐᓂᓗ. 40. ᐱᕚᒥᓴᐃᓂᖅ ᐃᓕᓐᓂᐊᖅᑎᑦᑎᓂᖅ ᐃᓄᖕᓂᒃ ᐊᒻᒪᓗ ᐃᓄᕕᐊᓗᖕᓂᒃ ᐊᖑᓇᓱᒃᑎᖏᓐᓂᒃ ᒪᒃᑯᒃᑐᓄᓗ ᐱᐅᓯᑐᖃᑎᓴᐅᔪᓂᒃ ᐊᒻᒪᓗ ᐱᐅᓂᐹᓂ ᐊᑐᖃᑦᑕᕐᓂᖅ ᐊᒃᑕᑯᓕᐅᕇᒃᑯᑕᐅᓂᐊᖅᑐᓂᒃ, ᐊᑐᖅᑕᐅᖑᕈᓐᓇᕐᓂᖏᓐᓂ ᓂᖀᒃᓴᐃᑦ ᐊᓯᖏᑦ, ᐃᓕᑕᕆᔭᐅᓂᖏᑦ ᐊᔾᔨᒋᖏᑦᑑᑎᑦ ᑐᒃᑐᖃᕐᓂᖏᑦ ᐊᒻᒪᓗ ᖃᐅᔨᒪᔭᐅᓂᖏᓐᓂᒃ ᒪᓕᒐᕐᓂᒃ ᓱᕋᐃᓗᑎᒃ ᑐᒃᑐᓯᐅᖃᑕᐅᕈᓐᓇᕐᓂᖅ. 41. ᐱᕚᒥᓴᐃᓂᖅ ᑲᓇᑕᓕᒫᒥ ᓄᓇᕐᔪᐊᒥᓗ (ᓲᕐᓗ ᐆᒃᑑᑎᒥᓗᒍ ᐊᑯᑭᑦᑐᐃᓐᓂ) ᐱᓕᕆᖃᑎᒌᖕᓇᕐᓂᖏᓐᓂ ᐊᒻᒪᓗ ᑕᐱᑦᓯᕈᓐᓇᕐᓂᖏᓐᓂᒃ ᖃᐅᔨᑎᑦᑎᕙᓪᓕᐊᔪᓐᓇᕐᓂᖅ ᖃᐅᔨᒪᔭᐅᖏᓗᐊᕐᓂᖏᓐᓂᒃ ᐊᒻᒪᓗ ᐊᒃᑐᖅᑕᐅᓗᐊᕇᒃᑕᐅᔪᓐᓇᖅᑐᓂᒃ ᐅᓗᕆᐊᓇᖅᑐᓂᒃ ᑕᒪᐃᓐᓂ ᑲᓇᑕᒥ (ᓲᕐᓗ ᐆᒃᑑᑎᒥᓗᒍ ᓯᓚᐅᑉ ᐊᓯᔾᔨᖅᐸᓪᓕᐊᓂᖓ, ᓴᓗᒪᔪᓐᓂᕈᑕᐅᔪᓐᓇᖅᑐᑦ, ᐊᒻᒪᓗ ᓱᕈᐃᔪᓐᓇᖅᑐᑦ).

			42. ᐱᔫᒥᓴᐃᑮᓐᓂᖅ ᒪᓕᖃᑕᕐᑯᔨᓂᖅ ᑲᓇᑕᒥ (ᓲᕐᓗ ᐆᒃᑐᑎᒋᓗᒍ ᓯᐊᔭᒃᑯᑦ ᒪᓕᒐᖏᓐᓂᒃ), ᓄᓇᕐᓯᐊᕐᒥ ᓄᓇᔽᒻᒥᓗ, ᓄᓇᑖᕈᑏᓂᒃ ᒪᓕᒐᕐᓂᒃ ᐊᒻᒪᓗ ᐊᑐᐊᒐᕆᔭᐅᔪᓂᒃ ᐊᒻᒪᓗ ᐃᑲᔪᕐᓂᖃᕈᓐᓇᖅᑐᓂᒃ ᐊᐅᓚᑕᐅᔪᓐᓇᕐᓂᖏᑦ ᓴᐳᓐᓂᐊᕈᑕᐅᓂᐊᖅᑐᑦ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᓂᒃ ᐊᒻᒪᓗ ᓇᔪᕆᕚᒃᑕᖏᓐᓂᒃ. 43. ᓇᓗᓇᐃᖅᑕᐅᓗᑎᒃ ᐱᕕᒃᓴᐅᓕᕈᓐᓇᕐᓂᖏᑦ ᐊᒻᒪᓗ ᖃᓄᐃᓕᖓᓕᕈᑕᐅᔪᓐᓇᕐᓂᖏᑦ ᑐᑭᒧᐊᑦᑎᐊᕐᑯᓪᓗᒋᑦ ᐊᒻᒪᓗ ᐃᓚᓕᐅᑎᓗᑎᒃ ᑎᒥᐅᔪᓄᑦ ᑐᕌᖓᔪᓂᒃ ᐱᒋᐊᖅᑎᑕᐅᔪᓪᓗ ᐱᔾᔪᑎᖃᕐᓂᖅ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᓂᒃ ᐊᒻᒪᓗ/ᐅᕝᕙᓗᓐᓃᑦ ᐅᑭᐅᖅᑕᖅᑐᒥ ᓴᐳᓐᓂᐊᓂᕐᒥᒃ (ᓲᕐᓗ ᐆᒃᑐᑎᒋᓗᒍ ᑕᐃᒃᑯᓂᖓ ᑭᖑᓪᓕᕐᒥ ᓯᑯᓯᒪᕐᔪᐊᓚᐅᕐᓂᖏᓐᓂᒃ ᐱᓕᕆᐊᕆᔭᐅᔪᑦ (ᓄᓇᕐᔪᐊᕐᒥ ᐆᒪᔪᓕᕆᓂᕐᒧᑦ ᑮᓇᐅᔭᒃᓴᓂᒃᓯᒪᕕᒃᑯᑦ)). 44. ᐱᕕᒃᓴᒃᖅᑎᑦᑎᓗᑎᒃ ᐃᓄᓕᒫᓂᑦ ᐃᓚᐅᑎᑦᑎᑮᓐᓂᖅ ᓇᔪᕆᔭᐅᑮᒃᑐᓂᒃ ᐊᒻᒪᓗ ᐆᒪᔪᐃᑦ ᓴᐳᓐᓂᐊᖅᑕᐅᓂᖏᓐᓂ ᐊᓯᖏᓐᓂᓗ ᓴᐳᓐᓂᐊᕈᑕᐅᓂᕐᒧᑦ ᐱᓕᕆᐊᑮᓪᓕᐊᔪᓂᒃ.
ᓂᕈᑐᔪᒥᒃ ᖃᓄᐃᓕᐅᕈᑎᓭᓂᐃᑦ ᐊᕕᒃᑐᖅᓯᒪᓂᖏᓐᓂ: ᒪᓕᒐᐃᓪᓗ ᐊᑐᐊᒐᕆᔭᐅᔪᓪᓗ			
ᑕᒪᐃᓐᓄᑦ ᐆᒪᔪᕐᓄᑦ ᐅᓗᕆᐊᓇᕈᑕᐅᔪᑦ	ᓴᓇᔭᐅᓂᖏᑦ / ᐊᑐᓕᖅᑎᑕᐅᓂᖏᑦ ᐊᑐᐊᒐᐃᑦ ᒪᓕᒐᓪᓗᑐᐃᓪᓗᓐᓃᑦ ᐋᕿᐅᒪᓕᕈᓐᓇᖅᑐᑦ	ᐱᒻᒪᕇᑦ	45. ᑲᒪᔨᐅᖃᑕᐅᓂᖅ ᐋᕿᐅᒪᑎᑦᑎᖃᑕᐅᔪᓐᓇᕐᓂᖅ ᒫᓇᐅᔪᖅ ᒪᓕᒐᓪᓗᑐᕆᔭᐅᔪᓂᒃ ᐅᔾᔨᑐᕐᓂᕐᒧᑦ ᓴᖏᔪᒥᒃ ᓄᐃᖑᔪᓂᓪᓗ ᒪᓕᒐᓪᓗᑐᖃᕐᓂᖏᓐᓂᒃ ᓴᐳᓐᓂᐊᕈᑎᓭᓂᒃ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᓂᒃ ᐊᒻᒪᓗ ᓇᔪᖅᐸᒃᑕᖏᓐᓂ, ᓄᓇᓕᖕᓂ, ᐊᕕᒃᑐᖅᓯᒪᓂᖏᓐᓂ, ᓄᓇᕗᓕᒦᒥ/ᓄᓇᕐᓯᐊᕐᓕᒦᒥ, ᑲᓇᑕᓕᒦᒥ ᐊᒻᒪᓗ ᓄᓇᕐᔪᐊᓕᒦᒥ ᐊᑐᕈᓐᓇᖅᑐᓂᒃ (ᓲᕐᓗ ᐆᒃᑐᑎᒋᓗᒍ ᐅᒥᐊᕐᔪᐊᕐᓄᑦ, ᓯᓚᐅᑉ ᐊᓯᔾᔨᖅᐸᓕᐊᓂᖓᓂᒃ ᒥᑭᓕᑎᓇᔪᒪᓂᕐᒧᑦ, ᓄᓇᒥᐅᑕᓂᒃ ᐋᔭᐃᑮᒃᑐᓂ). 46. ᓴᓇᔭᐅᓗᑎᒃ, ᐊᑐᓕᖅᑎᑕᐅᓗᑎᒃ, ᐱᔫᒥᓴᐅᑕᐅᓗᑎᒡᓗ ᐃᑲᔫᕐᓂᖃᕈᓐᓇᖅᑐᑦ ᐊᐅᓚᑦᑎᔾᔪᑎᓭᐃᑦ ᑕᒪᑯᓂᖓ ᐆᒪᔪᓂᒃ ᓇᔪᖅᐸᒃᑕᖏᓐᓂᓗ (ᓲᕐᓗ ᐆᒃᑐᑎᒋᓗᒍ ᓇᒻᒪᓈᖅᑕᐅᖃᑦᑕᕐᓗᑎᒃ ᑲᒪᒋᔭᐅᓂᖏᑦ, ᖃᑕᑰᓲᒃᑯᖅᑐᑦ ᖁᓕᐅᑎᓂᖏᓐᓂ, ᐆᒪᔪᓕᕆᓂᕐᒧᑦ ᐸᕐᓇᐅᑎᓭᐃᑦ ᑕᒪᒃᑯᓄᖓ ᐅᔭᕋᖕᓂᐊᕐᕕᖕᓄᑦ/ᐅᖅᓱᐊᓗᓐᓂᐊᖅᑐᓄᑦ ᒐᓴᓖᓭᖅᓯᐅᖅᑎᓄᓪᓗ/ᐊᖏᔫᑎᓂᒃ ᓴᓇᕕᓕᖕᓂᒃ, ᐅᒥᐊᔪᖃᕐᕕᐅᔪᓐᓇᕐᓂᖏᓐᓂᒃ, ᑐᓴᖅᓴᐅᔪᖃᐃᓐᓇᕆᐊᖃᖏᓂᕐᒥᒃ, ᐊᓯᖏᓐᓂᓗ). 47. ᐊᑐᓕᖅᑎᑦᑮᓪᓕᐊᓂᖅ ᒪᓇᐅᔪᖅ ᐊᑐᐊᒐᕆᔭᐅᔪᓂᒃ ᐱᓕᕆᐊᖑᔪᓂᒡᓗ ᒥᑭᓕᒋᐊᕈᑕᐅᓇᓱᒃᑐᓂᒃ ᐊᒻᒪᓗ/ᐅᕝᕙᓗᓐᓃᑦ ᐊᒃᑐᖅᑕᐅᓗᐊᕇᑯᑕᐅᓂᐊᖅᑐᓂᒃ ᐅᓗᕆᐊᓇᖅᑐᓄᑦ ᐊᒻᒪᓗ ᓴᓇᔭᐅᓗᑎᒃ ᓄᑖᑦ ᐊᑐᐊᒐᐃᑦ ᐊᒻᒪᓗ ᐱᓕᕆᔭᐅᔫᓭᐃᑦ ᐊᒥᒐᕐᕕᐅᓂᖏᓐᓂ.
	ᐃᑲᔫᑎᓭᐃᑦ ᐊᑐᓕᖅᑎᑕᐅᓂᖏᑦ	ᐱᒻᒪᕇᑦ	48. ᐃᑲᔪᖅᓱᐃᓂᖅ ᐊᑐᓕᖅᑎᑕᐅᓂᖏᓐᓂ ᒫᓇᐅᔪᖅ ᒪᓕᒐᐃᑦ ᐊᒻᒪᓗ ᒪᓕᒐᓪᓗᑐᐃᑦ ᐱᔾᔪᑎᖃᖅᑐᑦ ᐅᓗᕆᐊᓇᓚᕈᑕᐅᔪᓂᒃ ᓅᖓᔭᐅᑮᒃᑐᓂᒃ ᑕᒪᒃᑯᓄᖓ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᓐᓄᑦ ᓇᔪᕆᕚᒃᑕᖏᓐᓂᓗ ᐊᒻᒪᓗ ᐱᔫᒥᓴᐃᓗᑎᒃ ᓴᐳᓐᓂᐊᖅᑕᐅᑎᐊᒃᑲᓐᓂᖁᔨᓂᖅ ᖃᓄᑐᐃᓇᖅ ᐱᓭᕆᐊᖃᖅᑐᓂᒃ (ᓲᕐᓗ ᐆᒃᑐᑎᒋᓗᒍ ᓄᓇᓕᖕᓂ ᓴᐳᓐᓂᐊᕐᓂᕐᒧᑦ ᐸᕐᓇᐅᑎᖏᑦ, ᓄᓇᐃᑦ ᐊᑑᑎᓭᖏᓐᓄᑦ ᐸᕐᓇᐅᑎᑦᑎᒍᑦ).
	ᐱᔫᒥᓴᐃᑮᓐᓂᖅ ᐃᓱᒪᒃᓴᖅᓯᐅᕈᑕᐅᖁᔨᓂᖅ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᓐᓂᒃ ᑕᒪᑯᓇᓂ ᓄᓇᐃᑦ ᐊᑑᑎᓭᖏᓐᓄᑦ ᐸᕐᓇᐅᑎᓂ	ᐱᒻᒪᕇᑦ	49. ᐃᓱᒪᒃᓴᖅᓯᐅᕈᑕᐅᓗᑎᒃ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᓄᑦ ᑐᕌᖓᔪᓂᒃ ᐃᓕᑦᔭᐅᔭᕆᐊᖃᖅᑐᓂᒃ ᐊᐅᓚᑦᑎᓂᕐᒧᑦ ᐸᕐᓇᐅᑎᓂᒃ ᐊᒻᒪᓗ ᐊᑐᐊᒐᕆᔭᐅᔪᓂᒃ ᐃᓄᓕᒪᖅᓯᐅᑎᓂ ᓄᓇᓂ, ᓇᖕᒥᓂᕆᔭᐅᔪᓂ ᐃᓄᖕᓄᑦ/ᐃᓄᕕᐊᓗᖕᓄᓪᓗ ᓄᓇᖁᑎᒋᔭᐅᔪᓂ, ᐊᕙᑎᓂᒃ ᖃᐅᔨᓴᖅᑕᐅᓂᐊᖅᑐᓂᒃ ᐊᒻᒪᓗ ᓄᓇᐃᑦ ᐊᑐᖅᑕᐅᓂᖏᓐᓂ (ᐆᒪᕐᑯᓯᐅᕈᑎᓭᓂᒃ ᓴᓇᓂᕐᒧᑦ, ᐅᔭᕋᖕᓂᐊᕐᓂᕐᒧᑦ, ᐅᒥᐊᕐᔪᐊᖃᕐᓂᕐᒧᑦ, ᐳᓚᕋᑦᑐᓕᕆᓂᕐᒧᑦ,ᐊᓯᖏᓐᓄᓪᓗ) ᐸᕐᓇᐅᑕᐅᓗᑎᒃ ᑲᒪᒋᔭᐅᓂᖏᓐᓂ.

[a] "ᓯᕗᓪᓕᖅᐸᐅᔾᔭᐅᓂᖅ". ᓴᕿᐅᒪᑎᑦᑎᔪᖅ ᖃᓄᖅ ᓂᕈᑐᔪᒃ ᖃᓄᐃᓕᐅᕈᑎᓭᐃᑦ ᑐᕌᖓᒪᖓᑕ ᐊᒥᓱᕈᖅᓯᐊᕆᔭᐅᓂᖏᓐᓄᑦ ᐆᒪᔪᐃᑦ ᐅᕝᕙᓗᓐᓃᑦ ᐱᒪᕆᐅᔪᓂᒃ ᐱᑕᖃᕆᐊᖃᕐᓂᖏᓐᓂᒃ ᓯᕗᓂᐊᒍᑦ ᖃᓄᐃᓕᐅᕈᑕᐅᒋᐊᕐᓂᐊᖅᑐᓄᑦ ᐊᒥᓱᕈᖅᔫᓂᕐᒧᑦ ᐆᒪᔪᓂᒃ.

[b] ᑕᒪᓐᓇ ᐅᖃᐅᓯᓕᒃ "ᐊᒃᑐᖅᑕᐅᓗᐊᕆᐊᒃᑯᑎᓭᐅᓂᐊᖅᑐᓂᒃ ᖁᓕᓇᖅᑎᖅᑕᐅᓯᒪᔪᒥᒃ" ᑐᑭᓕᒃ ᐱᕚᓪᓕᐊᔪᓐᓇᖅᑐᓂᒃ ᑲᒪᒋᔭᐅᕚᓪᓕᐊᔪᓐᓇᕐᓂᖏᓐᓂᒃ ᐃᓕᑕᕆᔭᐅᓂᖏᓐᓂ, ᐊᐅᓚᑕᐅᓂᖏᓐᓂ, ᐱᑕᖃᓕᕈᓐᓇᕐᓂᖏᓐᓂᓗ ᐅᓗᕆᐊᓇᕈᑕᐅᔪᑦ ᓇᓚᐆᑕᖅᑕᐅᖃᑦᑕᓗᑎᒃ ᖃᓄᑎᒋ ᐊᒃᑐᖅᑕᐅᔪᓐᓇᕐᓂᖏᑦ ᐅᓗᕆᐊᓇᖅᑐᓄᑦ, ᖃᓄᐃᓕᐅᕈᑕᐅᔪᓐᓇᕐᓂᖏᓐᓂᓗ ᐅᓗᕆᐊᓇᕐᓃᒃᑯᑕᐅᓕᕈᓐᓇᕐᓂᖏᓐᓄᑦ, ᖃᓄᐃᓕᐅᕈᑕᐅᓂᖏᑦ ᐊᒃᑐᖅᑕᐅᓂᕐᓗᒋᑯᑕᐅᓂᐊᖅᑐᑦ, ᐅᑎᖅᐸᓪᓕᐊᓂᖏᑦ ᐊᒃᑐᖅᑕᐅᓂᖏᑦ ᐊᒻᒪᓗ ᑭᖑᓪᓕᕐᒥᒃ ᒥᑭᓪᓕᒋᐊᖅᑎᑦᑎᓇᓱᖕᓂᖅ ᐊᒃᑐᖅᑕᐅᔪᓐᓇᕐᓂᖏᓐᓂᒃ ᐅᓗᕆᐊᓇᖅᑐᓄᑦ.

6.3 ᐅᓂᒃᑳᖅᑕᐅᓂᖏᑦ ᐃᑲᔪᑎᖃᐃᑦ ᐊᒥᓱᕈᖅᔫᓂᕐᒧᑦ ᐸᕐᓇᐅᑕᐅᓂᖏᑦ

ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ ᐊᒥᓱᕈᖅᓯᐊᓇᔭᐅᓂᐊᕈᑎᒃ ᐱᓂᐊᕐᓂᖃᓇᐊᖃᖅᐳᑦ, ᑲᑐᔾᔨᖃᑎᒌᒡᒍᑎᒃ ᐊᒻᒪᓗ ᐱᓕᕆᖃᑎᒌᒡᒍᑎᒃ ᑲᓇᑕᒥ, ᓄᓇᕗᒻᒥ, ᓄᓇᑦᓯᒥᐊᕐᒥᓗ ᐋᐅᓚᑦᑎᔨᐅᓂᖏᑦ, ᐆᒪᔪᓕᕆᔨᕐᔪᐊᒃᑯᑦ, ᐆᒪᔪᐃᑦ ᐋᐅᓚᑕᐅᕙᓂᖏᓐᓄᑦ ᐅᖃᐅᔾᔨᒌᐊᖅᑏᑦ ᑲᑎᒪᔨᖏᑦ (ᓄᓇᑦᓯᐊᕐᒥ), ᐃᓄᐃᑦ ᐊᒻᒪᓗ ᐃᓄᕕᐊᓗᐃᑦ, ᓄᓇᓖᑦᓗ, , ᐊᖑᓇᓱᒃᑎᒃᑯᑦ, ᐊᖏᔫᑎᓂᒃ ᓴᓇᕕᓕᐅᖅᐸᒃᑐᑦ, ᐊᓯᖏᓐᓗ ᐃᓚᐅᔪᒪᕙᒃᑐᑦ. ᐱᒻᒪᕆᐅᓂᐊᕐᒪᑦ ᓇᐅᑦᑎᖅᑐᐃᓂᖅ ᓇᓃᖃᑦᑎᕐᓂᖏᓐᓂᒃ, ᐊᒥᓱᓂᖏᓐᓂ ᖃᓄᐃᓕᕙᓪᓕᐊᓂᖏᓐᓂ ᑕᒪᒃᑯᐊ ᖁᑦᑎᒃᑐᒥᒃ ᖃᑯᖅᑐᓂᒃ ᑐᒃᑐᖃᕐᕕᐅᕙᓂᖏᑦ ᑕᐃᒫᑦ ᐊᑑᑎᖃᕈᓐᓇᕐᓂᐊᕐᒪᑕ ᐊᑐᓂ ᑐᒃᑐᖃᕐᕕᐅᕙᓂᖏᓐᓄ ᐊᐅᓚᑦᑎᔾᔪᑎᒃᓴᓇᔭᐅᔪᑦ ᐊᑑᑎᖃᕐᒪᖔᑕ ᑐᑭᓯᓂᐊᕈᑕᐅᖃᑦᑕᕐᓂᖏᑦ ᐋᕿᑎᐊᖅᑕᐅᖃᑦᑕᕐᓗᑎᓪᓗ ᐱᔭᕇᐊᖃᕈᑎᒃ.

ᐊᒥᓱᐊᓗᐃᑦ ᖃᐅᔨᓴᕈᑎᖃᐃᑦ ᐊᐅᓚᑦᑎᔾᔪᑎᖃᐃᓪᓗ ᐃᓕᑕᓇᔭᐅᓯᒪᕗᑦ ᑐᕌᖓᔪᑦ ᑕᒪᒃᑯᓄᖓ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᓄᑦ (ᐊᕕᒃᑐᖅᓯᒪᓂᖏᑦ 7) ᖃᓄᐃᓕᐅᕈᑎᖃᐅᓂᕐᒧᑦ ᐱᒻᒪᕆᐅᔪᓂᒃ ᖃᐅᔨᒪᔭᖏᓗᐊᕐᓂᖏᓐᓂᒃ ᐊᒥᓱᒐᕐᓂᖏᓐᓂᒃ ᐊᒻᒪᓗ ᐊᐅᓚᑕᐅᔪᓐᓇᕐᓂᖏᓐᓄᑦ ᐱᔭᕆᐊᑐᓂᖏᓐᓄᑦ ᑕᒪᒃᑯᐊ ᖁᒃᑎᒃᑐᒥ ᖃᑯᕐᓂᖅᖃᐃᑦ ᑐᒃᑐᐃᑦ. ᑕᒪᒃᑯᐊ ᐊᒃᓱᕈᕐᓇᖅᑐᑦ ᐱᑕᖃᖅᑐᑦ ᐱᔾᔪᑕᐅᓂᕐᒧᑦ ᐊᖏᔪᐊᓗᖏᒦᖃᑦᑕᕐᓂᖏᓐᓂ ᓇᔪᖅᐸᒃᑕᖏᓐᓂ ᑕᒪᒃᑯᐊ ᐆᒪᔪᐃᑦ ᐊᒻᒪᓗ ᐆᒪᔾᔪᑎᖃᕈᓐᓇᕐᓂᖏᓐᓄᑦ ᖃᓄᐃᓕᖓᓪᓗᑐᖅᑐᓂ ᑭᓱᐊᓂ ᐊᕙᑎᓂᒃ. ᐃᓚᖃᕆᓗᑎᒃ ᐱᑕᖃᕐᕕᒋᕙᒃᑕᖏᓐᓂ ᐃᓚᖏᑦ ᐊᑐᖅᑕᐅᓚᐃᐃᒻᒪᑦ ᑎᑭᑕᐅᓚᐃᐃᑐᓂᒃ ᐃᓄᖕᓄᑦ, ᐃᓄᕕᐊᓗᖕᓄᓪᓗ ᓄᓇᓕᖕᓄᓪᓗ, ᐊᒻᒪᓗ ᓇᔪᕆᖃᖅᓱᑎᒃ ᐊᒃᓱᕈᕐᓇᖅᑐᓂᒃ ᓄᓇᖏᓐᓂ ᖃᓄᐃᓕᖓᕙᖕᓂᖏᓐᓄᑦ, ᓇᓗᓇᖏᓐᓚᖅ ᖃᐅᔨᓴᖅᑕᐅᔪᓐᓇᕐᓂᖏᑦ ᖃᐅᔨᓴᐅᕙᓪᓕᐊᔪᓂᓪᓗ ᑲᑎᖅᓱᐃᕝᕕᐅᔪᓐᓇᕐᓂᖏᑦ ᐱᒻᒪᕆᐅᔪᑦ ᑐᑭᓯᐅᒪᑦᑎᐊᑲᓂᕈᒪᓂᖅ ᒫᓇᐅᔪᖅ ᖃᓄᐃᓕᖓᓂᖏᓐᓂᒃ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᓄᑦ ᐊᒻᒪᓗ ᖃᓄᖅ ᐊᓯᔾᔨᕈᓐᓇᕐᒪᖔᑕ ᓯᕗᓂᒃᓴᒥ. ᐊᐅᓚᑕᐅᔪᓐᓇᕐᓂᖏᑦ ᐃᓄᓕᒫᑦ ᐱᔾᔪᑕᐅᓂᖏᓐᓄᑦ ᐅᓗᕆᐊᓇᕈᑕᐅᓕᕐᓂᖏᑦ ᖃᓄᐃᓕᐅᕈᑕᐅᔭᕆᐊᖃᖅᐳᑦ, ᑕᒪᒃᑯᐊ ᐊᐅᓚᑕᐅᔪᓐᓇᖏᑲᓗᐊᖅᑎᓪᓗᒋᑦ ᐊᓯᖏᑦ ᓱᕐᓗ ᓯᓚ ᐊᓯᖏᓪᓗ ᐱᐅᓯᑐᖃᐃᑦ ᓄᖃᖅᑎᑕᐅᔪᓐᓇᖏᑲᓗᐊᖅᑎᓪᓗᒋᑦ, ᑲᔪᓯᕙᓪᓕᐊᔪᒥᒃ ᐊᒃᑐᐃᕙᓪᓕᐊᓂᖏᑦ ᐃᑲᔫᑕᐅᔪᓐᓇᕐᒪᑕ ᐊᑐᐃᓗᐊᖅᑕᐃᓕᒪᒋᐊᕈᑕᐅᓂᕐᒧᑦ ᐊᐅᓚᑕᐅᓗᑎᒃ ᐊᓯᖏᑦ ᐊᐅᓚᑕᐅᔪᓐᓇᕐᓂᖏᑦ ᐅᓗᕆᐊᓇᕈᑕᐅᔪᑦ. (ᑲᓇᑕᒥ ᐆᒪᔪᓕᕆᓂᕐᒧᑦ ᐱᔨᑦᑎᕋᐃᔩᑦ 2013).

ᐅᑯᐊ ᐊᑕᓃᑦᑐᑦ ᑎᑎᕋᖅᓯᒪᓂᖏᓐ ᐅᓂᒃᑲᓇᐊᓪᓚᑲᓐᓂᖅᐳᑦ ᑕᒪᐃᓐᓂᒃ ᖃᐅᔨᓴᖅᑕᐅᓂᖏᓐᓂ ᐊᒻᒪᓗ ᐊᐅᓚᑕᐅᓂᖏᓐᓄᑦ ᖃᓄᐃᓕᐅᕈᑕᐅᓂᐊᖅᑐᓂᒃ, ᑐᑭᓕᐅᕈᑕᐅᕆᐊᒃᑲᓐᓂᕈᒪᓪᓗᑎᒃ ᐱᔾᔪᑕᐅᓂᖏᓐᓂᒃ.

6.3.1. ᓇᐅᑦᑎᖅᑐᖅᑕᐅᖃᑦᑕᕐᓂᖏᑦ ᖃᐅᔨᓴᖅᑕᐅᕙᓐᓂᖏᓪᓗ

ᑲᔪᓯᑎᑕᐅᓂᐊᕈᑎᒃ ᓴᐳᓐᓂᐊᖅᑕᐅᔾᔪᑎᒃᓴᖏᑦ, ᐱᑕᖃᐃᓐᓇᕆᐊᖃᕐᓂᖏᓐᓗ ᐱᓕᕆᐊᖑᓂᐊᖅᑐᑦ, ᐃᑲᔪᖅᓱᖅᑕᐅᓗᑎᒃ ᐊᐅᓚᑦᑎᔨᐅᔪᓄᑦ, ᑕᒪᒃᑯᐊ ᖃᐅᔨᒪᔭᐅᖏᓗᐊᕐᓂᖏᑦ ᖃᓄᖅᑑᕈᑕᐅᓴᕆᐊᖃᕐᒪᑦ ᑐᑭᓕᐅᖅᓯᒪᔪᒥᒃ ᐱᖃᑕᐅᓗᑎᒃ ᐊᑐᖅᑕᐅᓂᖏᑦ ᐃᓄᐃᑦ ᖃᐅᔨᒪᔪᖃᖏᑦ/ᐱᐅᓯᑐᖃᕐᓂᒃ ᐊᕙᑎᒥᒃ ᐊᕙᑎᓕᕆᓂᕐᒥᓪᓗ ᖃᐅᔨᒪᔪᐅᔪᑦ ᐊᒻᒪᓗ ᓄᓇᓖᑦ ᖃᐅᔨᒪᓂᖏᑦ ᖃᐅᔨᓴᖅᑎᓪᓗ ᖃᐅᔨᒪᓯᒪᔭᖏᑦ. ᐃᓱᒪᒋᔭᐅᒍᑎᒃ ᓇᐅᑦᑎᖅᑐᖅᑕᐅᖃᑦᑕᕐᓂᖏᑦ ᐊᒻᒪᓗ ᖃᐅᔨᓴᖅᑕᐅᖃᑦᑕᕐᓂᖏᑦ, ᐃᓚᐅᓗᑎᒃ ᐃᓚᒋᔭᐅᔭᓇᐊᓕᒻᒪᕆᐅᕙᒃᑐᑦ ᑕᒪᒃᑯᓂᖓ ᖃᐅᔨᒪᔪᐅᓂᖏᑦ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᓕᕆᓂᕐᒥᒃ ᓯᕗᕙᕆᐊᕈᑕᐅᔪᓐᓇᕐᒪᑦ ᑕᒪᐃᓄᑦ ᐊᑕᐅᑎᒃᑯᑦ ᐱᐅᓂᖅᓴᓂᒃ ᑐᑭᓯᒪᑦᑎᐊᕐᓂᖅᓴᐅᓗᑎᒃ ᐊᐅᓚᑎᕙᓐᓂᕐᒧᑦ ᐃᓱᒪᓕᐅᕈᑕᐅᔪᓐᓇᖅᑐᓂᒃ.

ᖃᐅᔨᓴᖅᑕᐅᖃᑦᑕᕐᓗᑎᒃ ᐊᒥᓲᓂᖏᓐᓂ ᖃᓄᐃᓕᖓᓂᖏᑦ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᓂᒃ ᑐᑭᓯᓂᐊᕐᓗᒋᑦ/ᐋᖕᒋᐊᖅᑕᐅᓗᑎᓪᓗ ᖃᐅᔨᒪᔭᐅᓂᖏᑦ ᑐᒃᑐᖃᕐᕕᐅᕙᓂᖏᑦ ᑕᒪᒃᑯᓂᖓ ᑐᑭᓕᖅᑕᐅᓯᒪᓂᖏᑦ ᑎᑎᕋᐅᔭᖅᑕᐅᓯᒪᕙᓂᖏᓐᓂ ᐊᒻᒪᓗ ᓇᒎᖓᐅᖃᑦᑕᕐᓂᖏᓐᓂ ᑐᒃᑐᐃᑦ ᓇᔪᖅᐸᒃᑕᖏᓐᓂ ᖃᐅᔨᔭᐅᓂᖏᓐᓂ

ᐊᖏᔪᑲᓪᓚᒪᕆᖕᓂᒃ ᐊᔾᔨᒌᖏᑑᑎᐅᔪᓂᒃ ᑐᑭᓯᐅᒪᔭᐅᒐᒥᒃ ᒫᓇᐅᔪᖅ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖃᕐᕕᐅᕙᓂᖏᑦ ᖃᓄᐃᓕᖓᓂᖏᑦ, ᐋᕿᐅᒪᓂᖏᑦ, ᖃᓄᐃᓕᕙᓪᓕᐊᓂᖏᓐᓄ ᓇᓂᑐᐃᓐᓇᖅ ᐱᑕᖃᕐᕕᐅᕙᒃᑐᓂᒃ. ᑐᒃᑐᖃᕐᕕᐅᕙᓂᖏᑦ ᑕᒪᒃᑯᓂᖓ ᖃᐅᔨᔭᐅᖏᓗᐊᕐᓂᖏᓐᓂ, ᐊᒥᓱᓂᖏᓐᓂ ᐊᕙᑎᒥᒃ ᖃᐅᔨᓴᖅᑕᐅᔭᕆᐊᖃᖅᐳᑦ ᐱᑕᖃᓕᖁᓗᒋᑦ ᑐᖓᕕᐅᕙᓂᐊᖅᑐᑦ ᐸᕐᓇᐅᓯᐅᕈᑕᐅᔪᓐᓇᕐᓂᕐᒧᑦ ᐊᒻᒪᓗ ᐆᒃᑐᕋᖅᑕᐅᔪᓐᓇᕐᓂᖏᓐᓄᑦ ᐊᒥᓱᕈᖅᔫᓂᕐᒧᑦ ᖃᓄᐃᓕᐅᕈᑕᐅᔪᓐᓇᖅᑐᑦ (ᐅᓗᒃH ᐊᖅᑑᕐᒥᐅᑦ ᐊᖑᓇᓱᒃᑏᑦ ᑲᑎᒪᔨᕋᓛᖏᑦ 2013). For all ᑐᒃᑐᖃᕐᕕᐅᕙᓂᖏᑦ ᑕᒪᒃᑯᓂᖓ, ᓇᓃᓐᓂᖏᓐᓂᓗ ᖃᐅᔨᒪᔭᐅᓂᖏᑦ, ᐊᒥᓲᓂᖏᓪᓗ, ᖃᓄᐃᓕᕙᓪᓕᐊᓂᖏᓪᓗ ᐊᒻᒪᓗ ᑐᒃᑐᐃᑦ ᓇᓃᖃᑦᑕᕐᓂᖏᑦ ᐊᒻᒪᓗ ᓇᒎᖓᐅᖃᑦᑕᕐᓂᖏᑦ ᓇᐅᑦᑎᖅᑐᖅᑕᐅᔭᕆᐊᓕᑦ ᐊᑯᓂ ᖃᐅᔨᓴᕐᓗᑎᑦ ᐊᑐᑎᖃᕐᒪᖔᑕ ᐊᐅᓚᑦᑎᔾᔪᑎᖃᐃᑦᓄ ᐊᑐᓕᖅᑎᑕᐅᓂᖏᑦ, ᐋᖕᒋᐊᖅᑕᐅᖃᑦᑕᕐᓂᐊᕐᒪᑦ ᑕᒪᒃᑯᐊ ᐱᐅᓂᖅᓴᓄᑦ ᐱᔭᕇᐊᖃᕈᑎᒃ.

ᐊᒻᒪᑦᑕᐅᖅ, ᐃᓚᖏᓐᓂ ᖃᐅᔨᒪᔭᐅᖓᓗᐊᖅᓱᑎᒃ ᓇᒧᙵᐅᖃᑕᕐᓂᖏᓐᓂ, ᓇᐅᒃᑰᖃᑕᕐᓂᖏᓐᓂᓗ, ᖃᐅᔨᒪᔭᐅᖏᒻᒪᑕ ᑲᑎᑉᐸᖕᒪᑖ ᑐᒃᑐᐃᑦ ᐊᔾᔨᒌᖏᑦᑑᑎᐅᔪᓂ ᕿᑭᖅᑕᒐᓴᐅᔪᓂᓕᕉᖓᒥᒃ, ᑐᑭᓱᓇᕈᒥᓇᕐᒪᑕ ᖃᓄᐃᓕᖓᓂᖏᓐᓂᒃ ᖃᓄᕐᓗ ᐃᖕᒥᓂᒃ ᑕᒪᒃᑯᓄᖓ ᑎᑭᑐᓐᓇᖃᑕᕐᒪᖔᑕ, ᖃᓄᕐᓗ ᑐᙵᕗᖃᓲᖑᒻᒪᖔᑕ ᐆᒪᔪᑦ ᐊᔾᔨᒌᖏᒃᑐᓂᖕᖔᖅᐸᒃᑐᒃ ᓄᓇᓂᒃ. ᑕᒪᒃᑯᐊ ᖃᐅᔨᒪᔾᔪᑎᒃᓴᐃᑦ ᑲᑎᖅᓱᖅᑕᐅᔭᕆᐊᓖᑦ ᐱᐅᓯᕆᐊᕈᑕᐅᔪᓐᓇᕐᓂᐊᕐᒪᑕ ᑐᑐᖃᕐᕕᐅᕙᕐᓂᖏᓐᓂᒃ ᓴᓇᔭᐅᕙᕐᓂᖏᓐᓂ ᑮᓕᓕᐅᕐᕕᐅᕙᒃᑐᑦ ᐱᑕᖃᕐᓂᖏᓐᓂᒃ ᐊᒻᒪᓗ ᐊᒥᓲᓂᖏᓐᓂᒃ ᑎᑎᕋᖅᑕᐅᓯᒪᕙᒃᑐᑦ.

ᖃᐅᔨᓴᖅᑕᐅᓗᑎᒃ ᒫᓇᐅᔪᖅ ᓯᕗᓂᒃᓴᒥᓗ ᖃᓄᐃᓕᐅᕈᑕᐅᔪᓇᖅᑐᑦ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᓕᕆᓂᕐᒧᑦ ᓇᔪᖃᑦᑕᖅᑕᖏᓐᓂ ᐃᒪᐃᓕᐅᕐᓗᑕ:

(1) ᖃᐅᔨᓴᕐᓗᒋᑦ ᓯᓚᐅᑉ ᐊᓯᔾᔨᖅᐸᓪᓕᐊᓂᖓ ᐊᒃᑐᖅᑕᐅᕚᓪᓕᐊᓂᖏᑦ

ᓯᓚᐅᑉ ᐊᓯᔾᔨᖅᐸᓪᓕᐊᓂᖓ ᐃᓱᒪᒋᔭᐅᕙᖅ ᐱᒻᒪᕆᐅᓂᖅᐹᙳᓂᖅ ᐅᓗᕆᐊᓇᕈᑕᐅᓂᖏᓐᓄᑦ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᓄᑦ, ᐊᓯᖏᓄᓪᓗ ᐅᓗᕆᐊᓇᕈᑕᐅᔪᓄᑦ ᐱᕙᓪᓕᐊᓗᑕᐅᑳᓂᕈᓐᖅᓱᑎᒃ. ᑕᕆᐅᕐᒥ ᓯᑯᐃᔭᒻᐸᓪᓕᐊᓂᖅ, ᑕᕆᐅᕐᒥ ᐃᒪᖅ ᐃᑎᓪᓕᕙᓪᓕᐊᓂᖅ, ᓄᓇᒥ ᓇᔪᒐᕆᔭᐅᕙᒃᑐᓂ ᐊᓯᔾᔨᖅᐸᓪᓕᐊᓂᖏᑦ, ᐱᕙᓪᓕᐊᓂᖏᑦ ᐊᑐᖅᐸᓕᖅᑐᑦ ᐊᐳᑎᖃᓕᖅᑎᓪᓗᒍ-ᒪᕐᒃᐸᖕᓂᖅ, ᐅᕝᕙᓗᓐᓃᑦ ᓯᑯᕙᓕᕐᓂᖅ ᐱᒻᒪᕆᐊᓗᖕᓂᒃ ᐊᒃᑐᐃᔾᔭᓇᕐᒪᑕ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᓂᒃ ᓇᔪᖅᐸᒃᑕᖏᓐᓂᓪᓗ. ᖃᐅᔨᓴᖅᑕᐅᓂᖏᑦ ᓇᐅᑦᑎᖅᑐᖅᑕᐅᓂᖏᓪᓗ ᓯᓚᐅᑉ ᓯᓚᒧᓪᓗ ᖃᓄᐃᓕᖓᓕᕈᑕᐅᕙᖕᓂᖏᑦ ᑐᒃᑐᐃᑦ ᓇᔪᖅᐸᒃᑕᖏᓐᓄᑦ ᓇᓗᓇᕐᓂᖏᓐᓄᑦ ᐊᓯᔾᔨᖃᑕᕐᓂᖏᑦ ᓯᓚᐅᑉ ᖃᓄᐃᓕᐅᓂᖓᓄᑦ ᐸᓪᕕᓴᒃᑕᐅᔭᕆᐊᓕᕐᓂᖏᓐᓄᑦ ᐱᔾᔪᑕᐅᓗᑎᒃ, ᓇᔪᖅᐸᒃᑕᖏᑦ ᐱᒻᒪᕆᐅᔭᒥᒃ ᓇᐅᑦᑎᖅᑐᖅᑕᐅᔭᕆᐊᖃᖅᐳᑦ, ᑐᒃᑐᐃᑦ ᐊᒥᓱᕈᖅᐸᓪᓕᐊᖕᒪᖔᑕ ᐊᒻᒪᓗ ᖃᐅᔨᓴᖅᑕᐅᖃᑦᑕᕐᓗᑎᒃ ᐊᐅᓚᑕᐅᔭᕆᐊᓕᖕᒪᖔᑕ ᐊᓯᙳᖓᒍᑦ ᐅᓗᕆᐊᓇᕈᑕᐅᔪᑦ ᑲᒪᒋᔭᐅᓗᑎᒃ. ᐊᒃᑐᖅᑕᐅᓂᖏᑦ ᓯᓚᐅᑉ ᐊᓯᔾᔨᖅᐸᓪᓕᐊᓂᖓᓄᑦ ᐱᔾᔪᑕᐅᒍᑎᒃ ᐱᐅᔭᓅᕈᑕᐅᕙᒃᑐᓂᒃ ᐊᒃᑐᖅᑕᐅᔭᓇᕐᓂᖏᓐᓂ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ ᓇᔪᖅᐸᒃᑕᖏᓪᓗᓐᓅᑦ, ᐊᒥᓱᓂᖏᓐᓂᓗᓐᓂᑦ, ᐋᕿᒋᐊᖅᑕᐅᔭᓇᓚᐊᖃᕐᒪᑕ ᐊᓯᖏᑦ ᐅᓗᕆᐊᓇᕈᑕᐅᕙᖕᒥᔪᑦ ᐱᔭᓚᐊᖃᕈᑎᒃ (ᑲᓇᑕᒥ ᐆᒪᔪᓕᕆᓂᕐᒧᑦ ᐱᔨᑦᑎᕋᐃᓃᑦ 2013).

(2) ᖃᐅᔨᓴᖅᑕᐅᓂᖏᑦ ᒫᓇᐅᔪᖅ ᐅᓗᕆᐊᓇᕈᑕᐅᔪᑦ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᐃᑦ ᖃᓄᐃᖏᓂᖏᓐᓄᑦ

ᑕᐃᒃᑯᐊ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ ᑕᒪᐃᓐᓂ ᒫᓇᐅᔪᖅ ᐃᓱᒪᒋᔭᐅᓗᑎᒃ ᖃᓄᐃᖏᓐᓂᖅ, ᑯᒪᐃᓗ, ᐋᓂᐊᓕᕈᑕᐅᔪᓇᖅᑐᓗ ᐱᕙᓪᓕᐊᔪᓇᖅᐳᑦ ᐱᑕᖃᓕᖅᐸᓪᓕᐊᓗᑎᒃ ᐱᔾᔪᑕᐅᓂᕐᒧᑦ ᓯᓚᐅᑉ ᐊᓯᔾᔨᖅᐸᓪᓕᐊᓂᖓ, ᐊᒻᒪᓗ ᓱᕈᕐᓇᖅᑐᓖᑦ ᓄᓇᒥᒃ ᐊᒻᒪᓗ ᐊᖏᔫᑎᓂᒃ ᓴᓇᕝᕚᖅᑐᓂᒃ ᐱᓕᕆᕕᐅᔪᓂᒃ ᐱᐅᖏᑦᑐᒥᒃ ᐊᒃᑐᖅᑕᐅᔪᓇᕐᒪᑕ ᖃᓄᐃᖏᓂᖏᑦ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ. ᑕᐃᒪᐃᓂᖓᓄᑦ, ᖃᐅᔨᒪᓂᖅ ᖃᓄᐃᖏᓂᖏᓐᓂᒃ ᑎᒥᒃᑯᓪᓗ ᖃᓄᐃᓕᖓᓂᖏᓐᓂᒃ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ, ᐊᒻᒪᓗ ᐱᑕᖃᕐᓂᖏᓐᓂ ᓱᕈᕐᓇᖅᑐᖃᕐᓂᖏᑦ ᐱᕈᖅᑐᓂᒃ ᓇᐅᑦᑎᖅᑐᖅᑕᐅᔭᓇᕐᓇᕗᑦ ᑐᑭᓯᐅᒪᔭᐅᑦᑎᐊᕐᓂᐊᕐᒪᑕ ᐊᑕᖃᑎᒌᖏᓐᓂᖏᓐᓄᑦ ᐅᓗᕆᐊᓇᖅᑐᖃᕐᓂᖏᓐᓄᑦ ᖃᓄᐃᓕᖓᓕᕈᑕᐅᔭᓇᕐᓂᖏᓐᓂᓗ ᑐᒃᑐᖃᕐᕕᐅᕙᖕᓂᖏᑦ ᑕᒪᒃᑯᓂᖓ, ᑐᑭᓯᔪᐅᔭᓇᖁᓪᓗᒋᑦ ᓲᓕᒃᑲᓂᖅ ᐊᒥᓱᕈᖅᓯᐊᕆᔪᐅᓂᖏᓐᓄᑦ ᖃᓄᐃᓕᐅᕈᑎᒃᓴᖃᒃᑲᓂᕆᐊᖃᕐᓂᐊᕐᒪᖔᑖ.

(3) ᖃᐅᔨᓴᖅᑕᐅᓂᖏᑦ ᐅᓗᕆᐊᓇᕈᑕᐅᔪᑦ ᐊᓯᖏᓐᓂᒃ ᑕᐃᒃᑯᓂᖓᓪᓴᐃᓐᓇᖅ ᓂᕿᒃᓴᖅᓱᐅᖃᑕᐅᕙᖕᒥᔪᓂᒃ ᐱᓂᖅᓴᐅᓇᓱᖕᓂᖏᓐᓂᒃ ᐅᒥᖕᒪᖕᓂᒃ, ᐱᑕᖃᕐᓂᖏᓄᓪᓗ ᐊᒪᕈᐃᑦ,ᐊᓯᖏᓪᓗᑦ ᑐᒃᑐᖏᑦ ᐊᓯᖏᓪᓗ ᐆᒪᔪᐃᑦ ᑐᒃᑐᓯᐅᖅᐸᒃᑐᑦ (ᓇᓄᐃᑦ, ᐊᒃᓚᐃᑦ, ᖃᑉᕕᓪᓗ)

ᑕᐃᑯᓇᓃᑦᓴᐃᓈᖃᑕᕐᒪᑕ ᐆᒪᔪᐃᑦ ᐱᐅᕙᖏᑦᑐᓂᒃ ᐊᒃᑐᖅᑕᐅᓯᒪᔪᑦ ᐃᓚᖏᓐᓄᑦ ᓇᔪᖅᐸᒃᑕᖏᓐᓂ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᐃᑦ ᐊᒻᒪᓗ ᐅᒥᖕᒪᖃᕐᕕᐅᕙᖕᓂᖏᓐᓂ (ᐊᐃᕙᖅ ᐊᖑᓇᓱᒃᑎᖏᑦ; ᐅᓗᒃHᐊᖅᑑᕐᒥᐅᑦ ᐊᖑᓇᓱᒃᑏᑦ ᑲᑎᒪᔨᕋᓛᖏᑦ 2013; ᐸᐅᓗᑑᑉ ᐊᖑᓇᓱᒃᑏᑦ ᑲᑎᒪᔨᕋᓛᖏᑦ 2013; ᑕᓗᕐᔪᐊᑉ ᐊᖑᓇᓱᒃᑎᖏᑦ 2013; ᐅᖅᓱᖅᑑᑉ ᐊᖑᓇᓱᒃᑎᒃᑯᑦ 2016; ᐅᓗᒃHᐊᖅᑑᕐᒥᐅᑦ ᐊᖑᓇᓱᒃᑏᑦ ᑲᑎᒪᔨᕋᓛᖏᑦ 2016; ᐃᑳHᐆᑉ ᐊᖑᓇᓱᒃᑏᑦ ᑲᑎᒪᔨᕋᓛᖏᑦ 2016; ᑕᓗᕐᔪᐊᑉ ᐊᖑᓇᓱᒃᑎᒃᑯᑦ 2016). ᑕᐃᒪᐃᑐᒃᓴᐅᔪᑦ ᐱᔾᔪᑕᐅᓂᕐᒧᑦ ᓂᕿᒃᓴᖅᓱᐅᕐᓂᖅᓴᐅᒐᓱᐊᖃᕐᓂᖏᓐᓂ ᓇᔪᖅᑕᒥᓂ ᐅᕝᕙᓗᓐᓃᑦ ᑐᒃᑐᖏᓐᓂᒃ ᓂᕿᒃᓴᖅᓱᐅᕐᕕᐅᓂᖅᓴᐅᕙᓕᕐᓂᖏᓐᓄᑦ ᐊᒪᕈᕐᓄᑦ. ᑕᒪᓐᓇ ᑐᑭᓯᐅᒪᔭᐅᑦᑎᐊᕆᐊᖃᖅᑐᖅ ᑕᐃᒪᐃᓕᖓᓕᕐᓂᖏᑦ ᑕᐃᒫᒃ ᖃᓄᐃᓕᐅᕈᑎᒃᓴᓂᒃᑕᐅᔪᓇᕋᔭᕐᒪᖔᑕ ᐊᐅᓚᑕᐅᓗᑎᒃ ᐅᓗᕆᓇᕐᓂᖏᑦ ᐱᔭᕆᐊᖃᕈᑎᒃ.

ᐱᑕᖃᓲᖑᓂᖏᓐᓂᑕᐅᖅ ᐊᓯᖏᓐᓂᒃ ᑐᒃᑐᐃᑦ, ᓄᓕᐊᖅᑕᐅᑎᔪᓇᕐᓂᖏᑦ ᑕᒪᒃᑯᓂᖓ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ ᐊᓯᖏᓐᓂᓪᓗ ᑐᒃᑐᓂᒃ ᒫᓇᐅᔪᖅ ᖃᓄᐃᓕᖓᓂᖏᑦ ᖃᐅᔨᒪᔭᐅᖏᒪᑕ, ᑭᓱᐊᓂ ᐊᑐᓕᖅᐸᓕᐊᑐᐃᓈᓇᕈᓈᖅᑐᖅ ᐱᔾᔨᓂᖓᓄᑦ ᓯᓚᐅᑉ ᐊᓯᔾᔨᖅᐸᓪᓕᐊᓂᖓ. ᓇᐅᑦᑎᖅᑐᖅᑕᐅᖃᑕᕐᓂᖏᑦ ᓄᓕᐅᖃᑕᐅᑎᕙᕐᓂᖏᑦ ᑕᐃᒃᑯᓇᓂᑦᓴᐃᓈᕐᓗ ᓇᔪᕈᓈᕐᓂᖏᑦ ᐊᓯᖏᓐᓂᒃ ᑐᒃᑐᓂᒃ ᑐᑭᓯᐅᒪᔭᐅᑦᑎᐊᒃᑲᓂᐊᖃᕐᓂᐊᖅᑐᑦ ᖃᓄᑎᒋ ᐊᒻᒪᓗ ᖃᓄᖅ ᐊᒃᑐᖅᑕᐅᓯᒪᔭᐅᕐᓂᖏᓐᓂᒃ ᑕᒪᑯᓇᖓ ᐅᓗᕆᐊᓇᕈᓇᕐᓂᖏᑦ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ ᐱᑕᖃᕐᓂᖏᓐᓄᑦ ᑕᒪᐃᓐᓂᒃ ᐊᔾᔨᒋᔭᐅᖏᓐᓂᖏᓐᓂ ᐊᒻᒪᓗ ᐋᓂᐊᓕᕈᑕᐅᔪᑦ ᐊᐃᑦᑐᖅᑕᐅᖃᑦᑕᕈᓇᕐᓂᖏᓐᓄᑦ ᑕᒪᑯᓄᖓ.

ᓂᕿᒃᓴᖅᓯᐅᖅᐸᒃᑐᑦ ᑐᒃᑐᓂᒃ ᐆᒪᔪᐃᑦ, ᓱᕐᓗ ᑕᒪᒃᑯᐊ ᐊᒪᕈᐃᑦ, ᐊᒃᑦᕆᐃᓪᓗ ᐊᒥᓱᕈᖅᐸᓪᓕᐊᖓᒪᑕ ᐃᓚᖏᓐᓂ ᓄᓇᒥ (ᐃᖃᓗᒃᑐᑦᑎᐊᕐᓂ ᐊᖑᓇᓱᒃᑎᒃᑯᑦ 2013; ᐅᖅᓱᖅᑑᐸ ᐊᖑᓇᓱᒃᑎᖏᑦ 2013; ᐅᓗᒃᕼᐊᖅᑑᕐᒥᐅᑦ ᐊᖑᓇᓱᒃᑏᑦ ᑲᑎᒪᔨᕋᓛᖏᑦ 2013; ᑕᓗᕐᔪᐊᐸ ᐊᖑᓇᓱᒃᑎᖏᑦ 2013; ᐃᖃᓗᒃᑐᑦᑎᐊᕐᓂ ᐊᖑᓇᓱᒃᑎᒃᑯᑦ 2016; ᐅᖅᓱᖅᑑᐸ ᐊᖑᓇᓱᒃᑎᒃᑯᑦ 2016; ᐅᓗᒃᕼᐊᖅᑑᕐᒥᐅᑦ ᐊᖑᓇᓱᒃᑏᑦ ᑲᑎᒪᔨᕋᓛᖏᑦ 2016; ᐸᐅᓗᑑᐸ ᐊᖑᓇᓱᒃᑏᑦ ᑲᑎᒪᔨᕋᓛᖏᑦ 2016a; ᐃᑳᕼᐆᐸ ᐊᖑᓇᓱᒃᑏᑦ ᑲᑎᒪᔨᕋᓛᖏᑦ 2016; ᑕᓗᕐᔪᐊᐸ ᐊᖑᓇᓱᒃᑎᒃᑯᑦ 2016), ᐃᒻᒪᖄ ᐱᔾᔪᑕᐅᓂᕐᒧᑦ ᓯᓚᐅᐸ ᐊᓯᔾᔨᖅᐸᓪᓕᓕᐊᓂᖓᓄᑦ ᐱᔾᔪᑕᐅᔪᓐᓇᕐᒪᑦ ᐆᒪᔪᐃᑦ ᓂᕿᒃᓴᖅᓯᐅᕐᓂᖅᓴᐅᕙᓕᕐᓂᖏᓐᓂᒃ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᓐᓂᒃ. ᑕᐃᒪᐃᓂᖓᓄᑦ, ᐱᐅᓂᖅᓴᓂᒃ ᑐᑭᓯᐅᒪᔭᐅᑦᑎᐊᒃᑳᓂᕆᐊᖃᖅᐳᑦ ᐊᒃᑐᖅᑕᐅᓯᒪᔪᓐᓇᕐᓂᖏᑦ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ ᓂᕿᒃᓴᖅᓯᐅᖅᐸᒃᑐᓄᑦ ᐆᒪᔪᕐᓄᑦ. ᐊᐅᓚᑕᐅᔫᓇᕈᑎᒃ ᑐᒃᑐᓂᒃ ᓂᕿᒃᓴᖅᓯᐅᖅᐸᒃᑐᑦ ᐱᐅᓯᑦᐊᕈᓇᖅᑑᔾᒪᑕ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᓄᑦ ᐊᒥᓱᕈᕆᐊᕈᑕᐅᔫᓇᕐᓂᕐᒧᑦ, ᑭᓯᐊᓂ ᑐᑭᓯᐅᒪᔭᑦᑎᐊᒃᑳᓂᕆᐊᖃᖅᑐᑦ ᑕᐃᒪᐃᓕᖓᔪᓂᒃ ᐊᐅᓚᑦᑎᔫᓇᕐᓂᕐᒥᒃ ᐃᓱᒪᒃᓴᖅᓯᐅᕈᑕᐅᓚᐅᖏᓐᓂᒃ ᐊᑐᖅᑕᐅᓂᐊᕐᒪᖔᑕ. ᐊᐅᓚᑕᐅᔫᓇᕐᓂᖏᑦ ᑐᒃᑐᓯᐅᖅᐸᒃᑐᑦ ᐆᒪᔪᐃᑦ ᐱᔮᕐᑯᑕᐅᖏᑦᑑᒐᓗᐊᓂᒃ ᐊᒃᑐᖅᓯᓯᒪᔫᓇᕐᒪᑕ ᑐᒃᑐᐃᑦ ᖃᓄᐃᖏᓂᖏᓐᓂᒃ ᐅᕝᕙᓗᓐᓃᑦ ᐊᓯᖏᓐᓂᒃ ᐃᓚᒋᔭᐅᓂᖏᓐᓂᒃ ᐊᕙᑎᖏᓐᓄᑦ ᐊᕙᑎᒥᐅᑕᓇᔭᖏᓐᓂᓪᓗ.

6.3.2. ᓇᔪᒐᓇᔭᐅᓂᖏᑦ ᐊᒻᒪᓗ ᐆᒪᔪᐃᑦ ᓴᐳᓐᓂᐊᖅᑕᐅᓂᖏᑦ ᐊᒻᒪᓗ ᐊᐅᓚᑕᐅᓂᖏᑦ

ᑐᑭᓕᐅᖅᑕᐅᓯᒪᓗᑎᒃ ᐊᒃᑐᖅᑕᐅᓗᐊᕇᒃᑯᑕᐅᓂᐊᖅᑐᑦ ᐊᒻᒪᓗ ᐊᑐᓕᖅᑎᑦᑎᓂᖏᓐᓂ ᑕᒪᐃᓐᓄᑦ ᐊᐅᓚᑕᐅᔫᒃᓴᓂᒃ ᖃᓄᐃᓕᐅᕈᑎᒃᓴᓂᒃ ᑕᐃᓖᒃ ᐱᔩᒥᓴᐅᑕᐅᓂᐊᖅᐳᑦ ᑲᑐᔾᔨᖃᑎᒌᒍᓐᓇᕐᓂᖅ ᑐᕌᒐᖃᖅᑐᓂᒃ ᑕᐃᒪᓐᓄᑦ ᐱᓇᓱᐊᖅᑕᐅᔪᒪᓂᖏᓐᓂᒃ, ᑕᐃᒃᑯᓂᖓᑦᓴᐃᓐᓇᖅ ᐱᓇᓱᐊᑐᒐᓴᐅᔫᓐᓃᕐᓗᑎᒃ ᐊᔾᔨᒌᖏᑑᑎᐅᔪᓂᒃ ᑲᔪᓯᑎᑦᑎᑕᐃᓕᒪᓗᑕᐅᓂᐊᖅᑐᓂᒃ ᐊᐅᓚᑦᑕᐅᓂᖏᓐᓄᑦ ᑐᕌᒐᓇᔭᐅᔪᓂᒃ.

ᐊᒃᑐᖅᑕᐅᓗᐊᖅᑕᐃᓕᑎᑦᑎᓂᖅ ᐸᒡᕙᓇᕈᑕᐅᔪᑎᒃ ᐱᒻᒪᕆᐅᓂᖏᓐᓂ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᓄᑦ ᓇᔪᕆᓇᔭᐅᕙᒃᑐᓂ ᓲᕐᓗ ᑕᐃᑯᓂᖓ ᓄᕐᕆᕕᐅᕙᒃᑐᓂ ᐊᒻᒪᓗ ᑕᕆᐅᕐᒥ ᓯᑯᒃᑯᑦ ᐃᑳᕆᐊᖅᑐᕐᕕᐅᕙᖕᓂᖏᓐᓂ
ᐅᒥᐊᕐᔪᖃᖃᑦᑕᕐᓂᖅ ᐊᒻᒪᓗ ᓯᑯᓯᐅᑎᖃᓲᖑᓂᖅ ᐱᑕᖃᓕᖅᐸᓪᓕᐊᑐᐃᓐᓇᕐᒪᑕ ᐅᑭᐅᖅᑕᖅᑐᒥ (ᐸᐅᓗᑑᐸ ᐊᖑᓇᓱᒃᑏᑦ ᑲᑎᒪᔨᕋᓛᖏᑦ 2013; ᖃᐅᓯᐃᑦᑑᐸ ᐊᖑᓇᓱᒃᑎᖏᑦ 2013; ᐃᑳᕼᐆᐸ ᐊᖑᓇᓱᒃᑏᑦ ᑲᑎᒪᔨᕋᓛᖏᑦ 2013; Dawnson et al. 2018) ᑕᐃᒪᐃᓂᖏᓐᓂᓪᓗ, ᐊᐅᓚᑕᐅᔭᕆᐊᖃᖅᐳᑦ ᐊᒃᑐᖅᑕᐅᔪᓐᓇᕐᓂᖏᑦ ᑕᒪᒃᑯᐊ ᐱᓕᕆᐊᖑᓂᖏᓐᓄᑦ ᑕᐃᒪᐃᓐᓂᖓᓄᓪᓗ ᐊᐅᓚᑕᐅᔪᓐᓇᕆᐊᖃᖅᐳᑦ ᕿᑭᑕᒐᓴᖏᓐᖃᑕᕐᓂᖏᓐᓂᒃ ᓅᓯᒪᕝᕙᒋᕚᒃᑕᖏᑦ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᐃ. ᐸᕐᓇᐅᑎᑦ ᓴᓇᔭᐅᓯᒪᔭᕆᐊᖃᖅᑐᑦ ᐃᓚᒋᓗᒋᑦ ᐊᖏᔩᑎᓂᒃ ᓴᓇᔾᔨᐅᕚᒃᑐᑦ ᐊᒃᑐᖅᑕᐅᓯᒪᔪᓐᓇᖅᑐᑦ ᐊᐅᓚᑕᐅᔪᓐᓇᖁᓪᓗᒋᑦ ᓈᒻᒪᓈᖃᑕᕆᐊᖃᕐᓂᖏᑦ ᐅᒥᐊᕐᔪᖃᕐᓂᐊᖅᑐᑦ ᐊᒻᒪᓗ ᓯᑯᓯᐅᑎᓂᒃ ᐊᑐᕐᓂᐊᖅᑐᑦ ᑕᐃᓖᒃ ᐸᖕᕕᓴᒃᑕᐅᑕᐃᓕᒪᓗᑎᒃ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ ᓅᐸᓪᓕᐊᖃᑕᕐᓂᖏᓐᓂ ᕿᑭᖅᑕᓄᕐᖢᐅᖃᑕᕐᓂᖏᓐᓂᒃ (ᐸᐅᓗᑑᐸ ᐊᖑᓇᓱᒃᑏᑦ ᑲᑎᒪᔨᕋᓛᖏᑦ 2013).

ᐱᓇᓱᐊᖅᑕᐅᔭᕆᐊᖃᖅᑐᑦᑕᐅᖅ ᐸᖕᕕᓴᒃᑕᐅᓗᐊᖅᑕᐃᓕᒪᔭᕆᐊᖃᕐᓂᖏᑦ ᐊᓯᖏᑦ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᓄᑦ ᓇᔪᒐᔭᐅᕙᒃᑐᑦ ᓲᕐᓗ ᓄᕐᕆᕕᖏᑦ (ᐊᐃᕕᖅ ᐊᖑᓇᓱᒃᑎᖏᑦ). ᖃᓄᑎᒋ, ᖃᓄᐃᑦᑐᓂᒃ, ᓇᓂ ᐊᒻᒪᓗ ᖃᖓ ᐃᓄᐃᑦ ᓴᓇᔪᓐᓇᕐᓂᖏᑦ ᑕᒪᒃᑯᓇᓂ ᐊᐅᓚᑕᐅᔭᕆᐊᖃᕐᓂᐊᖅᑐᑦ, ᐱᓗᐊᖅᑐᒥᒃ ᓄᕐᕆᕕᐅᕙᖕᓂᖏᓐᓂ ᐊᓯᖏᓐᓂᓗ ᐱᒻᒪᕆᐅᔪᓂᒃ ᓇᔪᖅᐸᒃᑕᖏᓐᓂ ᐃᓕᑕᕆᔭᐅᓯᒪᑦᑎᐊᕐᓗᑎᒃ. ᑕᒪᐃᓐᓂᒃ ᓱᕈᖅᑎᖅᑕᐅᓯᒪᓂᖏᓐᓂ, ᐱᐅᓯᑐᖃᒃᑯᓪᓗᓐᓂᑦ ᐸᖕᕕᒃᓴᑦᑕᐅᖃᑕᕐᓂᖏᑦ ᓇᐅᑦᑎᖅᑐᖅᑕᐅᔭᕆᐊᖃᒻᒪᕆᖕᓂᐊᖅᑐᑦ, ᐆᒃᑐᕋᖅᑕᐅᖃᑦᑕᕐᓗᑎᒡᓗ. ᓱᕈᕐᓇᖅᑐᖃᕐᓂᕐᒧᑦ ᐸᖕᕕᓴᐃᓐᓂᕋᐃᔭᖅ (ᓱᕐᓗ ᐊᖏᔩᑎᓂᒃ ᓴᓇᕝᕕᓪᓕᐅᖅᓯᒪᓂᕐᒧᑦ ᐊᓯᖏᓂᓪᓗ ᐃᓄᖕᓄᑦ ᐱᓕᕆᕝᕙᐅᕙᒃᑐᓄᑦ) ᐊᐅᓚᑕᐅᖃᑕᐅᔭᕆᐊᖃᕐᓂᐊᖅᑐᑦ ᒪᓕᒃᑐᓂᒃ ᓄᓇᒧᑦ ᐊᒻᒪᓗ/ᐅᕝᕙᓘᓐᓃᑦ ᓄᓇᒥᐅᑕᓄᑦ ᐸᕐᓇᐅᑕᐅᓯᒪᔪᓂᒃ, ᐃᓱᒪᒃᓴᖅᓯᐅᕈᑕᐅᓯᒪᓗᑎᒃ ᒫᓇᐅᔪᖅ ᓯᕗᓂᒃᓴᒥᐅᓂᐊᖅᑐᒥᓗ ᓇᔪᖅᑕᐅᔫᓇᕐᓂᐊᖅᑕᕐᓂᖏᑦ ᑕᒪᒃᑯᓄᖓ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᓐᓄᑦ. ᓄᓇᐃᑦ ᐊᑐᖅᑕᐅᔫᓇᕐᓂᖏᓐᓂᒃ ᐱᓕᕆᕝᕕᐅᔪᓇᕐᓂᖅ ᐊᐅᓚᑕᐅᔭᕆᐊᖃᕐᓂᖏᑦ ᐅᑲᖃᐅᓯᐅᓯᒪᒋᔭᑦ ᑎᑎᕋᖅᓯᒪᓂᖏᓐᓂ 6.3.4-ᒥ.

ᑐᓴᖅᓴᐅᖃᑦᑕᕐᓂᖏᑦ, ᓇᑭᖔᖃᑦᑕᕐᓂᖏᑦ, ᖃᓄᐃᓕᖓᓕᕈᑕᐅᔫᓇᕐᓂᖏᓪᓗ ᐃᒃᐱᒋᔭᐅᕙᒃᑐᑦ ᐸᖕᕕᓴᒪᑕᐅᕙᒃᑐᑯᑦ ᓲᕐᓗ ᑕᒪᒃᑯᓇᖕᒪᑦ ᐊᑦᑎᓈᕋᖃᑕᖅᑐᓂᒃ-ᖄᖓᓲᕐᓂᒃ, ᓯᑮᑦᑐᕐᓂᒃ, ᐱᖁᑎᓂᒃ ᓴᓇᕈᑎᓂᒃ ᐊᖏᔪᑎᓂᒃ ᓴᓇᕙᖃᖅᑐᓂ ᐊᒻᒪᓗ ᐃᕿᐊᖑᐃᔭᕐᓂᕐᒧᑦ ᓄᓇᒦᑐᓂᒃ ᐊᒃᑐᖅᓯᕙᖓᒪᑕ ᐊᑐᓂ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᓐᓂᒃ ᐊᒻᒪᓗ ᓄᓇᖏᓐᓂ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖃᕐᕕᐅᕙᖕᓂᖏᓐᓂᒃ. ᑕᒪᒃᑯᐊ ᑐᑭᓯᓂᐊᕈᑕᐅᔭᕆᐊᓖᑦ ᐊᐅᓚᑕᐅᓗᑎᓪᓗ ᐊᑐᕐᓗᑎᒃ ᓄᓇᕗᒻᒥ, ᓄᓇᑦᓯᐊᕐᒥᓗ, ᑲᓇᑕᓕᒦᒥ ᒪᓕᒐᓴᐅᔪᓂᒃ ᐊᒻᒪᓗ ᐊᑐᖃᑦᑕᕐᑯᔭᐅᔪᓂᒃ (ᐅᓗᒃᕼᐊᖅᑑᕐᒥᐅᑦ ᐊᖑᓇᓱᒃᑏᑦ ᑲᑎᒪᔨᕋᓛᖏᑦ 2013; ᖃᐅᓯᐃᑦᑑᐸ ᐊᖑᓇᓱᒃᑎᖏᑦ 2013). ᐱᔭᕆᐊᖃᕈᑎᒃ, ᐊᓯᒃᑲᓐᓂᖏᓐᓂᒃ ᐊᐅᓚᑦᑎᔾᔪᑎᒃᓴᓂᒃ ᓴᕿᑎᑦᑎᔪᓇᕐᒪᑕ ᐊᒃᑐᖅᑕᐅᓗᐊᖅᑕᐃᓕᒫᔪᑎᒃᓴᐅᓂᐊᖅᑐᓂᒃ ᑑᔫᓇᕐᓂᖏᓐᓄᑦ ᐃᒃᐱᒋᓂᖏᓐᓄᓐᓄᓐ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᐃᑦ, ᐊᑐᓕᖅᑎᑕᐅᔭᕆᐊᖃᕈᑎᒃ, ᐋᑐᑎᖃᕐᒪᖔᑕᓗ ᐊᐅᓚᑦᑎᒋᐊᕈᑏᑦ ᑕᒪᒃᑯᓂᖓ ᓇᐅᑦᑎᖅᑐᖅᑕᐅᔭᕆᐊᖃᕋᔭᖅᑐᑦ ᐊᑯᓂ, ᐋᕿᒋᐊᖅᑕᐅᖃᑦᑕᕐᓗᑎᒃ ᐱᔭᕆᐊᖃᖅᐸᖓᒥᒃ.

ᐸᒡᕙᓴᒃᑕᐅᖃᑦᕐᓂᖏᑦ ᕐᑯᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ ᓇᐅᑦᑎᖅᑐᖅᑕᐅᓂᖏᓐᓂ ᐊᒻᒪᓗ ᖃᐅᔮᓴᖅᑕᐅᓂᖏᓐᓂ ᐱᓕᕆᐊᖑᓂᖏᓐᓂ (ᓰᕐᓗ ᐆᒃᑐᑎᒋᓗᒍ ᐊᖑᔭᐅᕙᖕᓂᖏᑦ, ᐊᐅᓚᑕᐅᕙᖕᓂᖏᑦ ᐊᒻᒪᓗ ᕐᑯᖓᓯᕈᑦᑎᖅᑕᐅᕙᖕᓂᖏᑦ) ᐊᑐᖅᑕᐅᓗᐊᖅᑕᐃᓕᒪᔭᕆᐊᖃᖅ>ᑦ ᐊᒻᒪᓗ ᑕᒪᒃᑯᐊ ᓇᐅᑦᑐᐃᔾᔪᑏᑦ ᖃᐅᔨᓴᕈᑏᓪᓗ ᐸᒡᕙᓈᖏᓐᓂᖅᐹᖑᔪᓐᓇᕐᓂᖏᑦ ᐊᑐᖅᑕᐅᖕᖠᕆᐊᓖᑦ (ᐊᐃᕙᖅ ᐊᖑᓇᓱᒃᑎᖏᑦ; ᖃᐅᓯᐃᑦᑑᑉ ᐊᖑᓇᓱᒃᑎᖏᑦ 2013).

ᐅᓗᕆᐊᓇᕈᑕᐅᔪᓄᑦ ᐊᒃᑐᑕᐅᓗᐊᕇᒃᑯᑎᒃᓴᐃᑦ ᑐᕐᑯᕋᕈᑕᐅᕙᖕᓂᖏᓪᓗ ᐱᐅᖏᑦᑐᒥᒃ ᐊᒃᑐᐃᔪᓐᓇᕐᓂᖏᑦ ᕐᑯᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᐃᑦ ᐊᒥᓲᓂᖏᓐᓂᒃ

ᕐᑯᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ ᐊᒃᑐᖅᑕᐅᓗᐊᕇᒃᑯᑎᒃᓴᐅᔪᓐᓇᕐᓂᖏᑦ ᑐᕐᑯᕋᖅᑕᐃᓕᒪᒋᐊᕈᑕᐅᓂᕐᒧᑦ ᐱᔾᔪᑕᐅᔪᓂᒃ ᐊᕙᑎᖏᓐᓂ ᖃᓄᐃᓕᖓᓂᖏᓐᓂᒃ ᐊᔪᕐᓇᖃᑦᑕᖅᑐᑦ ᐱᔾᔪᑕᐅᓂᕐᒧᑦ ᐊᐅᓚᑦᑎᕙᒃᓴᐅᖏᓗᐊᖃᑦᕐᓂᖏᑦ. ᑭᓯᐊᓂᑕᓕᐅᖅ, ᑕᒪᒃᑯᐊ ᓴᓗᒻᒪᔫᓐᓃᖅᑎᑦᑎᕙᓪᓕᐊᔪᑦ ᓱᕈᐃᕙᓪᓕᐊᔪᓂᒃ ᐱᓕᕆᐊᖑᔪᓂᒃ ᒥᑭᓪᓕᑎᖅᑕᐅᔫᓇᕐᒪᑕ ᐊᒃᑐᖅᑕᐅᓗᐊᖅᑕᐃᓕᒪᑎᑕᐅᓗᑎᒃ ᐱᐅᖏᑦᑐᓂᒃ ᕐᑯᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᐃᑦ ᐊᒥᓲᓂᖏᑦ. ᓰᕐᓗ ᐆᒃᑑᑎᒋᓗᒍ, ᖃᓄᑐᐃᓐᓇᖅ ᐃᓱᒪᓕᐅᕈᑕᐅᔪᑎᒃ ᐊᖑᓇᓱᒻᕙᐅᑕᐃᓕᒪᑎᑕᐅᓂᖏᓐᓂᒃ ᕐᑯᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᓂᒃ ᐊᑐᓕᖅᑎᑕᐅᔪᓐᓇᖅ>ᑦ ᐊᐅᓚᑦᑎᔨᐅᖃᑎᒌᒃᑐᓄᑦ ᑲᒪᒋᔭᐅᕙᖕᓂᖏᓐᓄᑦ ᑕᐃᑯᓄᖓ ᐆᒪᔪᓕᕆᔨᕐᔪᐊᒃᑯᓐᓄᑦ ᐊᒻᒪᓗ ᐆᒪᔪᐃᑦ ᐊᐅᓚᑕᐅᕙᖕᓂᖏᓐᓄᑦ ᐅᖃᐅᔾᔨᕐᐊᖅᐱᑦ ᑲᑎᒪᔨᖏᓐᓄᑦ (ᓄᓇᕕᐊᕐᒥ) (ᑲᓇᑕᒥ ᐆᒪᔪᓕᕆᓂᕐᒧᑦ ᐱᔨᑦᑎᕋᐃᔩᑦ 2013), ᖃᓄᐃᓕᐅᕈᑎᒃᓴᓂᒃᓯᒪᓗᑎᒡᓗ ᐅᖃᐅᓯᐅᓯᒪᖃᑦᑎᖏᑦᑐᓂᒃ ᐊᖑᓇᓱᒡᕙᐅᓯᒪᖃᑦᕐᓂᖏᓐᓂᒃ ᖃᓄᐃᓕᐅᕈᑎᒃᓴᖃᕐᓗᑎᒡᓗ ᐊᓯᖏᓐᓂᒃ ᐊᖑᓇᓱᒃᕙᐅᖃᑦᕐᓂᖏᓐᓂᒃ ᐃᓱᒪᓘᑕᐅᔪᓂᒃ ᓴᕿᑎᑦᑎᕙᓪᓕᐊᔪᓇᖅᓯᓗᑎᒃ. ᐱᐅᓂᖅᓴᓂᒃ ᖃᐅᔨᒪᔾᔪᑎᒃᓴᖃᓇᐊᖃᕐᒪᑦ ᑐᒃᑐᐃᑦ ᐊᒥᓱᓂᖏᓐᓂᒃ ᖃᓄᐃᓕᖓᕙᓪᓕᐊᓂᖏᓐᓂᓗ ᐊᒥᓲᓂᖏᓐᓂ, ᐊᒻᒪᓗ ᑐᒃᑐᑕᐅᖃᑦᕐᓂᖏᓐᓂᒃ ᖃᐅᔨᒪᔭᐅᔪᓂᒃ, ᑕᒪᒃᑯᐊ ᐃᑲᔪᑕᐅᔪᓇᕐᒪᑕ ᓴᕿᑦᑎᑎᔪᓇᕐᓂᖅ ᐱᐅᓂᖅᓴᓂᒃ ᐊᑐᒐᒃᓴᓂᒃ ᐃᑲᔪᑕᐅᓂᐊᖅᑐᓂᒃ ᐊᒥᐊᒃᑯᓯᒪᐃᓐᓇᕈᓐᓇᕐᓂᐊᖅᑐᓂᒃ ᑐᒃᑐᓯᐅᕐᕙᐅᖃᑦᑕᕈᓐᓇᕐᓂᖏᓐᓂᒃ (Johnson et al. 2016).

ᓴᕿᑎᑦᑎᕙᓗᑎᒃ ᐱᕙᓪᓕᐊᖏᓐᓇᖅᑐᓂᒃ ᐊᒃᑐᖅᑕᐅᕙᓪᓕᐊᔪᓐᓇᖅᑐᓂᒃ ᖃᐅᔨᒪᔾᔪᑎᒃᓴᐅᓂᐊᖅᑐᓂᒃ ᑲᑐᔾᔨᖃᑎᒌᑎᖏᓐᓂ ᑲᒪᔨᐅᕙᒃᑐᑦ ᑎᒥᕐᑯᑎᖏᓐᓂ, ᓈᒻᒪᖕᓂᐊᖅᑐᓂᒃ ᑐᕋᖓᔪᓂᒃ ᕐᑯᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖃᕐᕙᐅᕙᖕᓂᖏᑦᓄᑦ ᓇᓂᑐᐃᓇᖅ ᓇᔪᓚᕙᒃᑕᖏᓐᓂ

ᐱᒻᒪᕆᐊᓘᕗᖅ ᑲᒪᒋᔭᐅᔭᕆᐊᖃᕐᓂᖏᑦ ᐸᕐᓇᐅᑕᐅᕙᖕᓂᖏᑦ ᐅᔾᔨᖅᑐᑦᑎᐊᕐᓗᑎᒃ ᐱᕙᓪᓕᐊᑎᑦᑎᓂᐊᖅᑐᓂᒃ ᐃᓱᒪᒋᓪᓗᒋᑦ ᑲᔪᓯᕙᓪᓕᐊᓂᖏᑦ ᐊᒃᑐᖅᓯᕙᓪᓕᐊᔪᓐᓇᖅᑐᑦ ᒫᓇᐅᔪᖅ ᐊᖏᔪᑎᓂᒃ ᓴᓇᕝᕙᐅᓕᕈᓐᓇᖅᑐᓂᒃ, ᐊᒻᒪᓗ ᐅᓗᕆᐊᓇᕈᑕᐅᔪᓄᑦ ᑐᕌᖓᓂᐊᖅᑐᓂᒃ ᓄᓇᓕᖕᓂ ᑐᒃᑐᑲᖅᕙᐅᓂᖏᓐᓄᑦ (ᖃᐅᓯᐃᑦᑑᑉ ᐊᖑᓇᓱᒃᑎᖏᑦ 2013). ᐱᓕᕆᐅᕙᖕᓂᖏᓐᓂ ᐸᕐᓇᒃᓯᒪᕙᕆᕆᖃᖅᑐᑦ ᐊᑐᓕᖅᑎᑕᐅᖃᑦᕐᓗᑎᒡᓗ ᐸᕐᓇᐅᑎᖏᑦ ᑕᐃᒫᒃ ᓈᒻᒪᓇᖃᑦᕐᓂᕐᒪᑕ, ᓇᓅᓐᓂᖏᓐᓂᒃ ᐊᒻᒪᓗ ᖃᓄᖅ ᒥᑭᓪᓕᑎᖅᑕᐅᓂᐊᕐᒪᖕᒋᑕ ᐸᒡᕙᓇᕈᑕᐅᕙᒃᑐᑦ ᕐᑯᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᓄᑦ, ᐱᓗᐊᖅᑐᒥᒃ ᐊᒃᑐᖅᑕᐅᓴᕋᐃᓐᓂᖏᓐᓂ ᐊᑐᕐᓕᖅᑎᓪᓗᒋᑦ, ᐱᒻᒪᕆᐅᔪᓂᒡᓗ ᓄᓇᖏᓐᓂᖏᓐᓂ (ᐃᑳᕼᐆᑉ ᐊᖑᓇᓱᒃᑏᑦ ᑲᑎᒪᔨᕋᑌᖏᑦ 2013).

6.3.3. ᐃᓕᓐᓂᐊᖅᑎᑦᑎᔾᔪᑏᑦ ᖃᐅᔨᕚᓪᓕᕈᑎᒃᓴᐃᑦ, ᐸᕿᔨᐅᖃᑕᐅᓂᖅ>ᑦ ᐊᒻᒪᓗ ᐃᓚᑮᒃᓱᕐᓂᖏᑦ

ᕐᑯᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ ᓴᐳᓐᓂᐊᖅᑕᐅᕐᑯᔨᓂᖅ ᐊᒻᒪᓗ ᐱᑕᖃᐃᓇᕐᑯᔨᓂᖅ ᐱᕙᒃᓴᐅᔪᓇᕐᒪᑕ ᐃᓚᐅᔪᓇᕐᓂᕐᒧᑦ ᑲᑐᔾᔨᖃᑏᒃᑎᐅᖃᑕᐅᔪᓇᕐᓂᕐᒧᓪᓗ ᐱᓕᕆᔨᐅᖃᑕᐅᔪᓇᕐᓂᕐᒧᑦ ᐊᒥᓱᓄᑦ ᐊᐅᓚᑦᑎᔨᐅᔪᓄᑦ ᐊᔾᔨᒌᖏᑦᑐᓂ ᐊᕙᒃᑐᖅᓯᒪᓂᖏᓐᓂ, ᓄᓇᓕᖕᓂᓗ, ᑲᑐᔾᔨᖃᑎᒌᖏᓐᓂᓗ. ᐋᕿᐅᒪᔪᓇᕈᑎᒃ ᓴᖏᔪᓂᒃ ᐱᓕᕆᖃᑎᒌᒃᑐᑎᒃᓴᖃᕐᓂᖅ, ᑐᑭᓯᐅᒪᔭᐅᑦᑎᐊᒃᑲᓂᕈᓇᕐᒪᑕ ᕐᑯᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ, ᐃᑲᔫᕐᓂᖃᕐᓂᐊᖅᑐᓂᒃ ᓴᖏᔪᒥᒃ ᐊᒻᒪᓗ ᖃᐅᔨᒪᔭᐅᑦᑎᐊᖅᑐᓂᒃ ᐊᑐᕈᓇᕐᓂᖅ ᐃᓱᒪᓕᐅᕈᑕᐅᕙᖕᓂᐊᖅᑐᓄᑦ, ᐃᓕᑕᕆᔭᐅᓯᒪᓗᑎᒃ ᐊᑯᓂᐊᓗᒃ ᖃᐅᔨᒪᔭᐅᓂᖏᓐᓂᒃ, ᐱᓕᕆᐊᖑᖃᑦᕐᓂᖏᓐᓂᓗ ᐃᓄᖕᓄᑦ ᐃᓄᕙᐊᓗᖕᓄᓪᓗ ᑐᒃᑐᖃᕐᕙᐅᕙᖕᓂᖏᓐᓂ. ᐃᓕᓐᓂᐊᕈᑎᒃᓴᐃᑦ ᐊᖑᓇᓱᒡᕙᐅᕙᖕᓂᖏᓐᓂᒃ ᓄᓇᓕᖕᓂ ᐃᑲᔪᕈᓇᕐᒥᔪᑦ ᕿᑐᖕᒋᐅᖅᑕᐅᕙᓪᓕᐊᔪᓄᑦ ᑕᐃᒪᖕᖔᓗᑦ ᖃᐅᔨᒪᑎᑕᐅᖃᑕᐃᓇᕐᓂᖏᓐᓂᒃ ᑲᔪᓯᑎᑕᐅᓯᒪᔪᓂᒃ ᐊᒃᑕᑯᔭᐅᑐᐃᓇᕆᐊᖃᕐᓂᖏᓐᓂᒃ, ᐊᑐᕐᓂᕐᓗᒃᑕᐅᖃᑦᑕᕆᐊᖃᕐᓂᖏᓐᓂᒃ ᐅᕝᕙᓗᓐᓂᑦ ᓄᖑᑎᔪᓐᓇᕐᓂᕐᒥᒃ ᐊᖑᓇᓱᒃᑕᐅᑕᐃᓕᒪᖃᑕᕆᐊᖃᕐᓂᖏᓐᓂᒃ.

ᐱᔾᔨᒥᒃᓴᐃᓂᖅ ᑲᓇᑕᓕᒪᒥ, ᓄᓇᕐᔪᐊᓕᒫᒥᓗ ᑲᑐᔾᔨᖃᑎᒌᑦᑕᐅᔪᓇᕐᓂᖏᓐᓂᒃ ᐊᒻᒪᓗ ᐱᓕᕆᖃᑎᒌᒡᕙᐅᔪᓇᕐᓂᖏᓐᓂᒃ ᖃᐅᔨᒪᔭᐅᖏᓐᓂᖏᓐᓂᒃ ᖃᐅᔨᕙᓪᓕᐊᔪᓇᕐᓂᖅ ᐊᒻᒪᓗ ᐊᒃᑐᖅᑕᐅᓂᕐᓘᕆᒃᑯᑕᐅᔪᓇᖅᑐᓂᒃ ᓇᔪᖅᐸᒃᑕᓕᒫᖏᓐᓂ ᑐᒃᑐᖃᕐᕙᐅᕙᒃᑐᑦ ᐅᓗᕆᐊᕈᑕᐅᔪᓂᒃ ᑲᓇᑕᒥ (ᓰᕐᓗ ᐆᒃᑐᑎᒋᓗᒍ ᓯᓚᐅᑉ ᐊᓯᔾᔨᖅᐸᓪᓕᐊᓂᖓᓄᑦ, ᐊᒃᑕᑯᓕᐊᕆᓴᐅᕙᓪᓕᐊᔪᓄᑦ ᓱᕈᕐᓇᖅᑐᓕᐅᕐᓂᕐᒧᑦ, ᑕᕆᐅᑉ ᐃᒫᒍᑦ ᐃᖏᕐᕋᕙᖕᓂᖏᓄᑦ ᐅᒥᐊᕐᔪᐊᑦ)

ᐊᐅᓚᑕᐅᖃᑦᕐᓂᖏᓐᓂ ᐊᐅᓚᑦᑎᕙᖕᓂ ᑲᓇᑕᓕᒫᒥ ᓄᓇᕐᔪᐊᕐᒥᓗ ᐃᓚᒋᔭᐅᓪᓚᒃᑐᑦ ᕐᑯᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᓂᒃ ᓴᐳᓐᓂᐊᓂᕐᒧᑦ, ᒪᑯᓂᖓ ᐃᓚᖃᓪᓗᑎᒃ, ᓄᓇᒥᒃ ᓄᓇᒥᐅᑕᓂᓪᓗ ᐸᕐᓇᐅᑎᓂᒃ, ᑕᕆᐅᕐᒥ ᐅᒥᐊᕐᔪᐊᖃᕐᓂᕐᒥᒃ, ᓯᓚᐅᑉ ᐊᓯᔾᔨᖅᐸᓕᐊᓂᖓᓂᒃ

ᒥᑭᒡᓕᑎᓇᕙᓪᓕᐊᒐᓱᐊᕐᓂᖅ, ᑐᑭᓕᐅᖃᑎᒌᒡᒍᑎᒡᒍ ᐊᐅᓚᑦᑎᔾᐅᓇᓱᐊᖃᑦᑕᕐᓂᖕᒋᓐᓂᒃ, ᐃᒃᒋᔭᐅᑎᑦᑎᖃᑕᕐᒍᑎᒡᒍ ᐊᑐᖅᑕᐅᔭᓇᐊᖃᕐᓂᖕᒋᓐᓂᒃ ᐃᓄᐃᑦ ᖃᐅᔨᒪᔭᑐᖃᖕᒋᑦ/ᐱᐅᓯᖃᕐᓂᒃ ᐊᕙᑎᒥᒃ ᐊᕙᑎᓕᓇᓂᕐᒥᒡᒍ ᖃᐅᒪᔭᐅᓂᖕᒋᓐᓂᒃ ᐊᒻᒪᓗ ᓄᓇᓖᑦ ᖃᐅᔨᒪᔭᖕᒋᓐᓂᒃ ᐊᐅᓚᑦᑎᕙᓪᓕᐊᓂᖕᒋᓐᓄᒃ ᐊᑐᖅᑕᐅᕙᕐᑐᓂᕐ, ᑕᒪᒃᑯᐊ ᐃᑲᔪᕐᓂᖃᕐᓂᐊᕐᒪᑕ ᖃᐅᔨᒪᔭᐅᖕᒋᒧᐊᕐᓂᖕᒋᓐᓂᒃ ᖃᐅᔨᕓᐅᔪᓐᓇᕐᓂᕐᒧᑦ/ᐃᑲᔫᑕᐅᔪᓐᓇᕐᓂᕐᓄᒡᒍ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᓂᒃ ᐊᐅᓚᑦᑎᔪᓐᓇᕐᓂᕐᒥᒃ, ᐊᖅᑯᒡᓚᓇᐅᒐᒥᒃ ᐋᒃᑐᖅᑕᐅᒧᐊᓅᒃᑯᑕᐅᔪᓐᓇᕐᓂᕐᒧᑦ ᐊᒻᒪᓗ ᐸᒡᕖᓭᒃᑕᐅᒧᐊᖅᑕᐃᓕᒪᔭᓇᐊᖃᕐᓂᖕᒋᓐᓄᑦ ᑐᒃᑐᓄᑦ ᐱᒻᒪᓇᐅᔪᑦ ᓇᔪᒐᓇᔭᐅᕙᖕᓂᖕᒋᓂᒃ.

6.3.4. ᒪᓕᒐᐃᑦ ᐊᑐᐊᒐᐃᓪᓗ

ᐃᓚᖓᓂ ᖃᓄᐃᓕᐅᕈᑕᐅᔪᓐᓇᖅᐳᑦ ᓱᕈᓇᕈᑕᐅᔪᓐᓇᑐᓂᒃ ᐅᓗᓇᐊᓇᕈᑕᐅᔪᑦ ᐱᔾᔪᑎᖃᖅᑐᑦ ᐊᑐᖅᑕᐅᔪᓐᓇᕐᓂᖕᒋᓐᓂ ᒪᓕᒐᓕᐊᑦ ᐊᒻᒪᓗ ᐊᑐᐊᒐᓕᐊᑦ, ᑕᒫᖓᑦ ᐱᒋᐊᕈᓐᓇᖅᑐᓂᒃ ᓄᓇᓕᖕᓂᒃ, ᑲᓇᑕᓕᒫᒧᑦ, ᓄᓇᕐᔪᐊᕐᓕᒫᒧᒡᒍ. ᐊᐅᓚᑦᑎᔾᐅᓂᖕᒋᓐᓂ ᐱᓕᕆᖃᑎᒌᒨᓇᕐᓂᖕᒋᑦ ᐊᑐᐊᒐᓕᐅᕈᓐᓇᕐᓂᖕᒋᑦ ᐊᑐᓕᖅᑎᑦᑎᒍᑎᒡᒍ ᐃᑲᔪᖅᓱᖅᑕᐅᒍᑎᒃ ᐊᑐᐊᒐᐃᑦ ᐱᑕᖃᓕᕈᑎᒃ, ᐱᑕᖃᕆᐊᖃᒻᒪᕆᖕᓂᐊᕐᒪᑕ ᓴᐳᓐᓂᐊᖅᑕᐅᔪᓐᓇᕐᓂᐊᕐᒪᑕ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖕᒋᑦ ᓇᓂᑐᐃᓐᓇᖅ ᓄᓇᖕᒋᓃᑦᑐᑦ.

ᐃᓱᒪᒋᔭᐅᓂᖕᒋᑦ ᖁᑦᑎᒃᑐᒥ ᑐᒃᑐᐃᑦ ᐱᑕᖃᕆᐊᖃᕐᓂᖕᒋᑦ ᐊᐅᓚᑦᑎᓂᕐᒧᑦ ᐸᕐᓇᐅᑎᓭᐃᑦ ᐊᒻᒪᓗ ᐊᑐᐊᒐᕆᔭᐅᔪᑦ ᐃᓄᐃᑦ ᓄᓇᖁᑎᖕᒋᓐᓂ, ᓇᖕᒥᓂᖕᒋᓐᓂᒡᒍ ᐃᓄᐃᑦ/ᐃᓄᕕᐊᓗᐃᓪᓗ ᓄᓇᖁᑎᖕᒋᓐᓂ, ᐊᕙᑎᓕᓇᓂᕐᒥᒃ ᖃᐅᔨᓴᖅᑐᖃᕐᓂᐊᕌᖓᑦ, ᓄᓇᐃᑦ ᐊᑐᖅᑕᐅᔪᓐᓇᕐᓂᖕᒋᓐᓂ (ᐆᒻᒪᖁᓯᐅᕝᕕᒃᓴᓄᑦ, ᐅᔭᕋᖕᓂᐊᕐᓂᕐᒧᑦ, ᐅᒥᐊᕐᔪᐊᖃᕈᓐᓇᕐᓂᖕᒋᓐᓄᑦ, ᐳᓚᕋᑦᑐᓕᓇᓂᕐᒧᑦ, ᐊᓯᖕᒋᓐᓄᒡᒍ) ᐊᒻᒪᓗ ᐸᕐᓇᐅᑎᓭᓕᓇᕙᖕᓂᖕᒋᓐᓂ

ᑲᓇᑕᒥ ᐊᒥᓱᕈᖅᓰᓂᕐᒧᑦ ᖃᓄᐃᓕᐅᕈᑎᓭᓂᒃ, ᐃᓚᖃᕐᒧᑎᒃ ᐊᓯᖕᒋᓐᓂᒃ ᑎᑎᖃᓂᒃ ᐱᔾᔪᑎᖃᖅᑐᓂᒃ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖕᒋᑦ ᐊᐅᓚᑦᑎᕙᖕᓂᕐᒥᒃ ᐊᒻᒪᓗ ᓴᐳᓐᓂᐊᕈᑕᐅᕆᐊᖅᑐᓂᒃ, (ᓲᕐᒧ ᐆᒃᑐᑎᒋᒧᒍ ᓄᓇᖠᑦ ᐃᑳHᐆᑉ ᐊᓯᖕᒋᓪᓗ 2008; ᓄᓇᖠᑦ ᐅᓗᒃHᐊᖅᑑᖅ ᐊᓯᖕᒋᓪᓗ 2008), ᐸᓇᐃᓂᕐᒧᑦ ᐱᕆᐊᖅᑎᑕᐅᓯᒪᔪᑦ, ᐃᓱᒪᒋᔭᐅᖁᓗᒋᑦ ᐊᑐᓕᖅᑎᑕᐅᒍᑎᒡᒍ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖕᒋᑦ ᓇᔪᒐᓇᕙᒃᑕᖕᒋᖓᓂ ᐅᒪᓂᖕᒋᓐᓂᒍ ᐊᑐᖃᑕᖅᑕᖕᒋᓐᓂᒃ ᐱᑕᖃᕆᐊᓕᖕᓂᒃ ᐃᓱᒫᑕᐅᔪᓐᓃᕈᑕᐅᔪᓂᒃ ᓇᔪᖅᑕᐅᕙᕙᖕᒋᓂᖕᒋᓐᓂᒃ ᐱᔾᔪᑕᐅᔪᓂ (ᐊᐃᕕᖅ ᐊᖑᓇᓱᒃᑎᖕᒋᑦ; ᖃᐅᓯᐃᑦᑑᑉ ᐊᖑᓇᓱᒃᑎᖕᒋᑦ 2013; ᑳᓯᐃᒃᑯᑦ ᑲᑎᒪᔨᕋᕇᖕᒋᑦ 2015; Johnson et al. 2016). ᒪᓕᒐᓴᐅᕙᒃᑐᑦ ᐊᒻᒪᓗ ᐊᑐᖅᑕᐅᔪᖕᓭᒫᑦ ᓴᓇᔭᐅᖃᑦᑕᕐᒧᑎᒃ ᐃᑲᔪᕐᓂᖃᕐᓂᐊᖅᑐᑦ ᑕᒪᒃᑯᓂᖓ ᐸᕐᓇᐅᑕᐅᓂᕐᒧᑦ ᐱᕆᐊᖅᑎᑕᐅᔪᒪᔪᓂᒃ ᐊᒻᒪᓗ ᑐᑭᓯᓇᑦᑎᐊᖃᑦᑕᕐᒧᑎᒃ ᐊᑐᕈᓇᕐᓂᖕᒋᑦ ᐊᒃᑐᖅᑕᐅᓭᕋᐃᑦᑐᓂ ᐊᒻᒪᓗ ᖃᖓᐅᓂᐊᓕᕋᖓᑦ ᐊᑐᖅᑕᐅᕖᓭᖃᕐᓂᖕᒋᓐᓂᒃ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᓄᑦ ᑐᕋᖓᔪᑦ ᐊᒻᒪᓗ ᑕᒪᐃᓐᓂᒃ ᐱᑦᑎᐊᔅᓭᐃᓐᓇᕆᐊᖃᕐᓂᒥᒃ ᐱᐅᓯᖃᓇᐊᖃᕐᓂᖕᒋᓐᓂᒃ ᒪᓕᒡᒍᑎᒃ ᑲᒪᒋᔭᐅᓂᖕᒋᓐᓂ ᐊᒃᑐᖅᑕᐅᓭᕋᐃᖕᒋᓐᓂᖅᓴᐅᔪᓂ ᐱᔾᔪᑎᖃᖅᑐᓂᒃ.

7. ᐱᑕᖃᓇᐊᓖᒪᓇᑦ ᓇᔪᖅᑕᐅᔪᓐᓇᕐᓂᖕᒋᑦ

ᐊᒥᓱᕈᖅᓯᐊᓇᔭᐅᓂᖕᒋᓐᓄᑦ ᖃᓄᐃᓕᐅᕈᑎᓭᐃᑦ or in an ᐱᓕᓇᐊᒃᓴᓄᑦ ᐸᕐᓇᐅᑎᓕᐊᓂ for the species. ᐱᑕᖃᓇᐊᓕᒪᓇᑦ ᓇᔪᖅᑕᐅᔪᓐᓇᕐᓂᖕᒋᑦ ᓇᔪᖅᑕᐅᕕᒃᓴᐅᕚᑦ ᐱᑕᖃᓇᐊᖃᖅᑐᑦ ᐆᒪᐃᓐᓇᕈᓐᓇᕐᓂᖕᒋᓐᓄᑦ ᐊᒥᓱᕈᖅᐸᓪᓕᐊᔪᓐᓇᕐᓂᖕᒋᓄᒡᒍᓐᓂᑦ ᐆᒪᔪᐃᑦ, ᒪᓕᒐᖅᑎᒍᑦ ᐃᓕᔭᐅᓯᒪᓕᖅᑎᒡᒍᕆᑦ ᑕᐃᔭᐅᔪᓂᒃ ᓄᕒᓕᒠᓕᖅᑐᓂᒃ, ᐅᓗᓇᐊᓇᖅᑐᒥᓕᖅᑐᓂᒃ, ᐅᕝᕙᓗᓐᓃᑦ ᑲᓇᑕᒥ ᓄᕒᓯᒪᓕᖅᑐᓂ ᐃᓕᑕᓇᔭᐅᓯᒪᒡᒍᑎᒃ ᐆᒪᔪᐃᑦ ᐱᔾᔪᑕᐅᓂᖕᒋᓐᓄᑦ ᐱᑕᖃᓇᐊᖃᓪᓚᓇᒃᑐᓄᑦ ᓇᔪᕈᓐᓇᕐᓂᐊᖅᑕᖕᒋᑦ ᑎᑎᕋᖅᑕᐅᓯᒪᒍᑎᒃ ᐊᒥᓱᕈᖅᓰᓂᕐᒧᑦ ᖃᓄᐃᓕᐅᕈᑎᓭᓂᒃ, ᖃᓄᐃᓕᐅᕈᑎᓭᓄᒡᒍᓐᓃᑦ ᐸᕐᓇᐅᑎᓂᒃ ᐆᒪᔪᓕᓇᔪᓂᒃ.

ᑎᑎᕋᖅᓯᒪᓂᖕᒋᓐ 41(1)(c) ᓯᐊᔭᒃᑯᑦ ᒪᓕᒐᖕᒋᓐᓂ ᒪᓕᒐᖅᐳᑦ ᐊᒥᓱᕈᖅᓯᐊᓇᔭᐅᓂᖕᒋᓐᓄᑦ ᖃᓄᐃᓕᐅᕈᑎᓭᐃᑦ ᐃᓚᖃᓇᐊᖃᕐᓂᖕᒋᓐᓂᒃ ᐃᓕᑕᓇᔭᐅᓯᒪᔪᓂᒃ ᐆᒪᔪᕐᓄᑦ ᐱᑕᖃᓇᐊᓕᒪᓇᒃ ᓇᔪᖅᑕᐅᕕᒃᓴᖕᒋᑦ, ᐊᔪᕐᓇᖕᒋᓂᓕᒫᑯᑦ, ᐊᒻᒪᓗ ᐆᒃᑑᑎᒃᓴᖃᕐᒍᑎᒃ ᖃᓄᐃᓕᐅᕈᑕᐅᖃᑦᑕᕐᓂᐊᖅᑐᓂᒃ ᐱᔾᔪᑕᐅᔪᓐᓇᖅᑐᓂᒃ ᐱᑕᖅᑯᓐᓂᖅᐸᓪᓕᐊᒍᑕᐅᔪᓐᓇᖅᑐᓂᒃ (ᑎᑎᕋᖅᓯᒪᓂᖕᒋᓐᓂ **Error! Reference source not found.**). ᐃᓕᑕᓇᔭᐅᓚᐅᕐᒍᑎᒃ, ᐱᒻᒪᓇᐅᓂᖕᒋᑦ ᓇᔪᒐᓇᔭᐅᔪᒃᓴᐃᑦ ᓴ ᐳᓂᐊᖅᑕᐅᔭᓇᐊᖅᐳᑦ ᓱᕋᒃᑎᖅᑕᐅᔪᓐᓇᕐᓂᖕᒋᓐᓂᒃ, ᐊᑐᖅᑕᐅᒍᑎᒡᒍ ᑎᑎᕋᖅᑕᐅᓯᒪᓂᖕᒋᓐᓂ ᓄᓇᐃᑦ ᐊᑑᑎᖕᒋᓐᓂᒃ ᐸᕐᓇᐅᑕᐅᔪᓂ, ᐊᕙᑎᓕᓇᓂᕐᒥᒡᒍ ᖃᐅᔨᓴᖅᑕᐅᕙᖕᓂᖕᒋᓐᓂᒃ ᐊᒻᒪᓗ/ᐅᕝᕙᓗᓐᓃᑦ ᐱᔪᓐᓇᐅᑎᖃᕐᕕᐅᕙᒃᑐᓂᒃ. ᑕᒪᒃᑯᐊ ᑲᓇᑕᒥ ᐊᒥᓱᕈᖅᓰᓂᕐᒧᑦ ᖃᓄᐃᓕᐅᕈᑎᓭᓂᒃ ᓇᓗᓇᐃᖅᑕᐅᕙᒃᑐᑦ ᐊᖕᒋᓂᖕᒋᑦ ᐊᔪᕐᓇᖕᒋᓂᓕᒫᖕᒐᓂᒃ, ᑐᖕᒐᕕᖃᖅᓱᑎᒃ ᐱᐅᓂᖅᐹᓂᒃ ᐊᑐᐃᓐᓇᐅᔪᓂᒃ ᖃᐅᔨᒪᔾᔪᑎᓭᐅᔪᓂᒃ ᑕᒪᒃᑯᓂᖓ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖕᒋᓐᓂᒃ. ᐃᓕᑕᓇᔭᐅᓂᖕᒋᑕᐅᖅ ᐊᓯᒃᑳᓂᖕᒋᑦ ᐱᑕᖃᓇᐊᓖᒪᓇᑦ ᐊᒻᒪᓗ/ᐅᕝᕙᓗᓐᓃᑦ ᐱᐅᓯᕆᐊᖅᑕᐅᓂᖕᒋᑦ ᒫᓇᐅᔪᖅ ᐱᑕᖃᓇᐊᓖᒪᓇᑦ ᓇᔪᖅᑕᐅᔪᓐᓇᕐᓂᖕᒋᑦ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᓄᑦ ᐃᓚᔭᐅᕙᓪᓕᐊᓂᐊᕐᒥᔪᑦ ᖃᐅᔨᒪᔾᔪᑎᓭᐃᑦ ᐊᑐᐃᓐᓇᐅᓕᕈᑎᒃ.

ᐱᑕᖃᕆᐊᓕᒻᒪᕆᑦ ᓇᔪᖅᑕᐅᔪᓐᓇᖅᑐᑦ ᐃᓕᑕᕆᔭᐅᕙᒃᑐᑦ ᐊᔾᓇᖕᒋᓂᓕᒫᒥᒃ, ᑐᙵᕕᐅᓪᓗᑎᒃ ᐱᐅᓂᖅᐸᓪᑦ ᐊᑐᐃᓐᓇᐅᔪᑦ ᖃᐅᔨᓴᖅᑕᐅᓯᒪᔪᓂᒃ, ᐃᓄᐃᓪᓗ ᖃᐅᔨᒪᔭᑐᖃᒃᑯᑦ ᐊᕙᑎᒥᒃ ᐊᕙᑎᓕᕆᓂᕐᒥᒡᓗ ᖃᐅᔨᒪᔾᔪᑎᒃᓴᐃᑦ. ᓈᒻᒪᒋᓗᐊᕐᒪᑕ ᖃᐅᔨᒪᔾᔪᑎᒃᓴᐃᑦ ᐃᓕᑕᕆᔭᐅᔪᓐᓇᕐᓂᖔᓂ ᐱᑕᖃᕆᐊᓕᒻᒪᕆᑦ ᓇᔪᖅᑕᐅᔪᓐᓇᖅᑐᑦ ᓄᓇᖔᓂ ᐱᑕᖃᕐᕕᐅᕙᖕᓂᖔᓂ, ᑮᓯᐊᓂ ᑕᕆᐅᕐᒥ ᓯᑯ ᐱᑕᖃᕆᐊᖃᒻᒪᕆᒃᑐᖅ ᐃᓕᑕᕆᕙᐅᓯᒪᙱᑕ ᑖᕙᓂ ᐊᒥᓱᕈᖅᔩᓂᕐᒧᑦ ᖃᓄᐃᓕᐅᕈᑎᒃᓴᓂᒃ (ᑕᑯᑎᑦᑎᒋᐊᕈᑦ 3). ᑕᐃᒪᐃᓐᓂᖓᓄᑦ, ᐱᑕᖃᕆᐊᖃᒻᒪᕆᖕᓂᒃ ᓇᔪᖅᑕᐅᔪᓐᓇᕐᕕᒃᓴᐃᑦ ᓈᒻᒪᒋᓗᐊᖅᐳᑦ ᓱᓕ ᐊᖑᒪᔪᓐᓇᕐᓂᕐᒧᑦ ᐊᒥᓱᓂᖔᑦ ᐊᒻᒪᓗ ᓇᓃᓐᓂᖔᑦ ᑐᕋᓕᐅᕈᑕᐅᔪᓐᓇᕐᓂᖅ. ᐱᕕᒃᓭᓕᐅᖅᓯᒪᔪᖃᖅᐳᑦ ᖃᐅᔨᓴᕐᑕᐅᔫᒃᓴᓂᒃ (ᑎᑎᕋᖅᓯᒪᓂᖔᓂ 7.2). ᓴᓇᔭᐅᓯᒪᔪᓂᒃ ᐱᑕᖃᓕᕈᑕᐅᔪᓐᓇᖅᑐᓂᒃ ᖃᐅᔨᒪᔭᐅᔭᕆᐊᖃᕐᓂᐊᖅᑐᓂᒃ ᐱᔭᕇᖅᑕᐅᔪᓐᓇᕐᓂᐊᕐᒪᑕ ᓄᓇᖏᑦ ᐱᑕᖃᕆᐊᖃᒻᒪᕆᖕᓂᐊᖅᑐᑦ ᓇᔪᖅᑕᐅᖃᑕᕆᐊᓕᖕᓂ.

7.1 ᐃᓕᑕᕆᔭᐅᓂᖏᑦ ᐆᒪᔪᕐᓄᑦ ᐱᑕᖃᕆᐊᓕᒻᒪᕆᑦ ᓇᔪᖅᑕᐅᔪᓐᓇᕐᕕᒃᓴᖏᑦ

ᐱᑕᖃᕆᐊᓕᒻᒪᕆᑦ ᓇᔪᖅᑕᐅᕕᒃᓴᐃᑦ ᑕᒪᒃᑯᓄᙵ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᓄᑦ ᐃᓕᑕᕆᔭᐅᓯᒪᙵᑕ ᓇᓗᓇᖁᓇᒋᑦ ᐊᖏᔪᐊᓗᖏᒃ ᐃᓂᒃᓴᖃᑎᐊᕆᐊᖃᕐᓂᖏᑦ ᐊᒻᒪᓗ ᑕᒪᒃᑯᓄᙵ ᐊᑕᔪᑦ ᐱᑕᖃᕆᐊᖃᓪᓗᑎᒃ (ᓇᐅᒃᑰᕝᕕᒋᕙᒃᑕᖏᓐᓂᒃ ᐅᖓᓯᒃᑐᐊᓗᖕᒧᑦ) ᑕᒪᐃᓐᓂ ᓄᓇᒥ ᐊᒻᒪᓗ ᑕᕆᐅᕐᒥ ᓯᑯᒥᒃ. ᓯᕗᓪᓕᕐᒥ, ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ ᐊᑐᖃᑦᑕᕐᒪᑕ ᐊᔾᔨᒋᙱᑦᑐᓂᒃ ᓇᔪᖅᐸᒃᑕᖏᓐᓂ ᐅᑭᐅᒃᑯᑦ ᐊᐅᔭᒃᑯᓪᓗ, ᐊᒻᒪᓗ ᓄᕐᓇᕕᒋᕙᒃᑕᖏᓐᓂ, ᓄᓕᐊᕐᕕᒋᒃᑕᖏᓐᓂᓗ ᐊᕐᕆᒍᑕᒫᖅ ᐆᒪᓂᖏᓐᓂ. ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ ᐊᑐᐊᓂᒍᓇᕐᒪᑕ ᑕᒪᒃᑯᐊ ᐊᑕᐅᓯᕐᒥ ᕿᑭᖅᑕᒥ ᐅᕝᕙᓗᓐᓃᑦ ᐊᒥᓱᒐᓴᐅᔪᓐᓇᖅᑐᓂ ᕿᑭᖅᑕᓂ, ᑕᐃᒪᐃᓐᓂᖓᓂᓪᓗ ᐊᕐᕌᒍᑕᒫᖅ ᓄᑦᑐᓇᕐᕕᒃᓴᖃᐊᖅᐳᑦ ᓄᓇᒃᑯᑦ ᐊᒻᒪᓗ/ᐅᕝᕙᓘᓐᓃᑦ ᑕᕆᐅᒃᑯᑦ ᓯᑯᒃᑯᑦ. ᑕᐃᒪᐃᓐᓂᖓᓄᑦ, ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ ᐱᑕᖃᕆᐊᓕᑦ ᐊᖏᔪᐊᓗᖏᒃ ᐊᒥᓱᓂᒃ ᐊᔾᔨᒌᖏᑦᑑᑎᐅᔪᓂᒃ ᓄᓇᓂᒃ, ᐊᑕᔪᓂᒃ ᑕᒪᐃᓐᓄᑦ ᓄᓇᒧᑦ ᐊᑐᕆᐊᓕᖏᓐᓄᑦ ᓱᑯᒧᓪᓗ ᐆᒪᓂᖏᓐᓂ ᐊᑐᖃᑦᑕᖅᑕᕆᐊᖃᖅᑕᖏᓐᓂᒃ ᐊᑐᕈᓐᓇᕐᓂᐊᕐᒪᑕ. ᐊᐃᑉᐹᓪᓕᕆᑕᐅᖅ, ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ ᐊᑐᖅᐸᖕᒪᑕ ᓇᔪᕐᓂᐊᓕᖅᑕᖏᓐᓂᒃ ᐊᒻᒪᓗ ᖃᓄᐃᓕᖓᓂᖏᓐᓂᒃ ᓄᓇᒥᒃ ᓂᕿᒃᓴᖃᕐᕕᐅᑦᑎᐊᕐᓂᖅᐹᖑᓂᕆᐊᖅᑐᓂ ᓱᓕ ᐊᓯᔾᔨᖃᑕᕐᓗᐊᖅᑎᓪᓗᒍ ᐱᕝᕕᐅᖃᑕᐅᓇᕐᓂᐊᖅᑐᓂᒃ (ᑎᑎᕋᖅᓯᒪᓂᖏᓐ 3.3.1) ᑕᐃᒪᐃᓐᓂᖓᓄᓪᓗ ᐊᖏᔪᐊᓗᖏᒃ ᓄᓇᖃᕆᐊᖅᐳᑦ ᐊᔾᔨᒌᖏᑦᑑᑎᐅᔪᓂᒃ ᓇᔪᕈᓇᖅᑕᖏᓐᓂᒃ ᐊᒻᒪᓗ ᓄᓇᐃᑦ ᖃᓄᐃᓕᖓᓂᖏᓐᓂᒃ ᐊᔾᔨᒌᖏᑦᑐᓂᒃ. ᓴᖏᔪᐊᓗᖏᒃ ᓯᑯᔪᖅᕿᙵᑦ ᓇᓂᑐᐃᓈᓗᒃ ᐱᕈᖅᓯᒪᔪᑦ ᑎᑭᑕᐅᔪᓐᓇᐃᓕᓪᓚᖓᓂᕐᒥᒃ ᓇᓚᐅᑖᖅᑕᐅᓯᒪᙵᑕ ᐱᕙᓪᓕᐊᑐᐃᓐᓇᓪᓚᖓᓂᖅ ᓯᓚᐅᑉ ᐊᓯᔾᔨᖅᐸᓪᓕᐊᓂᖓᓄᑦ, ᐃᓱᒪᒋᔭᐅᓪᓗᓂᓗ ᐱᒻᒪᕆᐅᔪᑦ ᐅᓗᕆᐊᓇᕈᑕᐅᔪᓐᓇᕐᓂᖅ ᐊᒥᓱᕆᖅᓯᐊᕆᔭᐅᔪᓐᓇᕐᓂᖏᓐᓄᑦ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ (ᑎᑎᕋᖅᓯᒪᓂᖏᓐ 4.2.1). ᐅᔾᔨᖅᑐᑦᑎᐊᕆᐊᖃᕋᑦᑕ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ ᐊᖏᔪᐊᓗᖏᒃ ᓇᔪᖃᕈᓇᕆᐊᖃᕐᓂᖏᓐᓂᒃ ᐃᖄᕕᐅᔭᐅᓇᖅᑐᓂᒃ ᐊᒥᓱᓄᑦ ᐊᔾᔨᒌᖏᑦᑑᑎᐅᔪᓄᑦ ᓄᓇᓄᑦ ᐊᒻᒪᓗ ᐅᑎᕐᕕᐅᖃᕈᓇᖅᑐᓄᑦ ᐊᐱᓯᒪᕐᔪᐊᑳᓪᓚᒃᑐᑲᖃᖅᐸᑦ ᓱᑯᔭᖄᓪᓚᒃᐸᓪᓗᓐᓃᑦ ᐃᑲᔪᕐᓂᖃᕈᓇᕐᓂᐊᕐᒪᑕ ᑕᒪᒃᑯᓇᙵᑦ ᐊᔪᓕᕈᑕᐅᔪᓐᓇᖅᑐᑦ. ᑭᖑᓪᓕᕐᒥᒡᓗ, ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ ᐊᑐᖅᓯᒪᓕᖅᐳᑦ ᓇᔪᖅᐸᓚᐅᖅᑕᖏᒥᓂᒃ ᕿᒪᐃᓯᒪᑯᑖᖕᓂᖅ ᐊᕿᒍᒪᓴᐅᔪᓂᒃ ᐊᑐᒃᑲᓂᕈᒫᕆᒥᔭᖏᓐᓂᒃ ᐊᑐᕐᕕᒋᓗᒋᑦ ᓯᕗᓂᒃᓴᒥ. ᑕᒪᒃᑯᐊ ᐅᑎᕐᕕᐅᖃᕐᓂᖏᑦ ᑕᑯᔭᐅᖃᑦᑕᖅᓯᒪᔪᑦ ᓅᖃᕐᓂᖏᓐᓂ ᓄᓇᒃᑯᑦ ᐊᒻᒪᓗ ᓯᒃᑯᑦ. ᑕᐃᒪᐃᓐᓂᖓᓄᑦ, ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ ᐊᖏᔩᑎᐊᓗᖕᓂᒃ ᓄᓇᒥᒃ ᓯᑯᒥᓪᓗ ᓇᔪᐃᔪᓐᓇᖃᑦᑕᕆᐊᖃᖅᐳᑦ ᐃᓂᒃᓴᖃᑎᐊᕆᐊᖃᖅᑐᒥᒃ ᐊᓯᔾᔨᖃᑦᑕᕐᓂᖏᓐᓄᑦ ᐊᑐᕐᓇᕐᓂᖏᓐᓄᑦ ᐊᒻᒪᓗ ᓇᒨᖓᐅᕕᒋᕙᒃᑕᖅᑕᖏᑦ.

ᐊᓯᖏᓐᓄᓕ ᑐᒃᑐᓄᑦ ᕿᓪᓕᓕᐅᕐᕕᐅᖃᑦᑕᖅᓯᒪᓂᖏᑦ ᐊᑐᖅᑕᐅᔪᓐᓇᕐᓂᖏᓐᓄᒃ ᐱᑕᑲᓇᖃᓕᒪᓇᐅᓂᖏᓐᓂᒃ ᓇᒻᒪᒍᔭᖏᑦᑐᑦ ᐊᑐᖅᑕᐅᖓᓗᐊᕈᑎᒃ ᑕᒪᒃᑯᓄᙵ ᑐᕌᖓᓗᑎᒃ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᓄᑦ, ᐃᓱᒪᒋᓪᓗᒋᑦ ᒫᓇᐅᓕᖅᑐᖅ ᖃᐅᔨᒪᔭᐅᑎᒋᓂᖏᑦ. ᑭᓪᓕᓕᐅᕈᑕᐅᔪᓐᓇᕐᓂᖏᑦ ᐃᓱᒪᒃᓴᖅᓯᐅᕈᑕᐅᓂᐊᕈᑎᒃ ᐃᓱᒪᒋᔭᐅᔭᕆᐊᖃᕐᕚᖅᐳᑦ ᐊᒥᓱᓂᒃ ᐊᔾᔨᒋᙱᓐᓂᖏᓐᓂᒃ ᓇᔪᕈᓇᕆᐊᓕᖏᓐᓂᒃ ᑕᒪᒃᑯᐊ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᐃᑦ, ᖃᙵᑐᐃᓐᓇ ᓱᓕ ᖃᓄᐃᓕᖓᓕᕋᓗᐊᖅᐸᑦ, ᐊᒻᒪᓗ ᐊᑕᔪᓐᓇᕆᐊᖅᓱᑎᒃ ᓇᒧᑐᐃᓐᓇᖅ ᑕᐃᒫᒃ ᑐᒃᑐᐃᑦ ᓅᖃᑦᑕᕈᓐᓇᕆᐊᖃᕐᒪᑕ ᑕᒪᐃᓐᓂᒃ ᐊᕐᕌᒍᑕᒫᖅ ᐊᓯᖏᓄᐊᕐᕕᒋᕙᒃᑕᖏᓐᓄᑦ ᖃᙵᑐᐃᓐᓇᖅ ᐱᒪᓕᐅᔪᓂᒃ ᐅᖓᓯᒃᑐᓄᐊᕆᐊᖃᕈᑎᒃ (ᐱᓗᐊᖅᑐᒥᒃ ᓯᑯᔪᖄᓪᓚᓗᐊᖅᑎᓪᓗᒍ). ᓯᕗᓂᒃᓴᒥ ᑕᒪᑯᐊ ᖃᐅᔨᒪᔭᐅᓂᖅᓴᐅᓕᕈᑎᒃ, ᑭᓪᓕᓕᐅᕐᕕᒋᐊᕈᓇᕈᒫᖅᑐᒃᓴᐅᕗᑦ. ᐊᓯᖏᓐᓂᒃ ᐋᕿᐅᒪᔪᓇᕆᕗᑦ ᓃᕐᓗ ᐃᓕᑕᕆᔭᐅᓯᒪᓗᑎᒃ ᓴᐳᓐᓂᐊᖅᑕᐅᓯᒪᑲᐃᓐᓇᕐᓗᑎᓪᓗᓐᓃᑦ ᐊᑐᖅᑕᐅᔪᓇᖅᓴᕐᒥᔪᑦ ᓯᕗᓂᖅᓴᒥ.

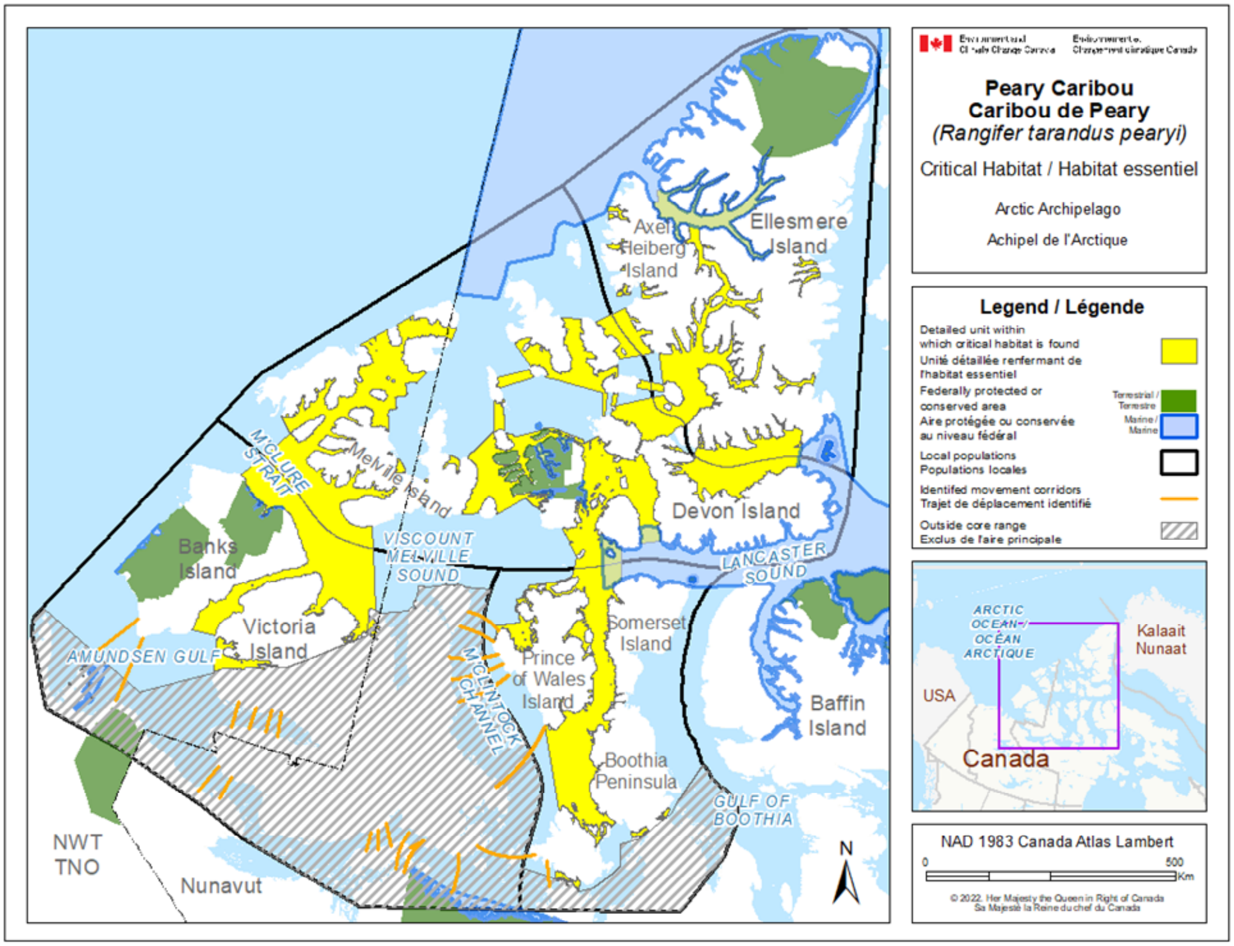
ᐱᑕᖃᕆᐊᓕᒻᒪᕆᑦ ᓇᔪᕈᒃᓴᖏᑦ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᐃᑦ ᐃᓚᖃᕆᕙᑦ ᒪᕈᐃᓕᖅᖓᔫᖕᓂᒃ: (1)ᓄᓇᒥ ᓇᓂᓈᖏᓐᓂᒃ ᐊᒻᒪᓗ (2) ᐊᕙᑎᖏᓂᑐᖅᑕᕐᓂᖏᓐᓂᒃ, ᓯᓚᐅᓪᓗ ᖃᓄᐃᓕᓕᕈᑕᐅᕙᓂᖏᓂᒃ, ᐃᒪᖅᑕᕐᓂᖏᓐᓂ ᐊᓯᖏᓐᓂᓪᓗ.. ᓄᓇᐃᑦ ᓇᓃᓐᓂᖏᑦ ᐃᓕᑕᕆᔭᐅᕙᖕᒪᑕ ᒪᑯᓂᖓ ᐱᑕᖃᕆᐊᓕᒪᕆᖕᓂᒃ ᐱᑕᖃᕈᑎᒃ ᓇᔪᖅᑕᐅᔪᓐᓇᕆᐊᖃᕐᑐᓂᒃ ᑕᕆᐅᒥ ᓯᑯᑯᕐᕕᓕᖕᓂᒃ. ᑕᒪᒃᑯᓇᓂ ᐱᑕᖃᕐᓂᖏᓐᓂ, ᐱᑕᖃᕆᐊᓕᒻᒪᕆᑦ ᓇᔪᖅᑕᐅᔪᓐᓇᖅᑐᑦ ᐃᓕᑕᕆᔭᐅᕙᒃᑐᑦ ᐊᑐᓇᐊᖅᑕᖏᑦ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᐃᑦ ᐱᑕᖃᕐᕕᐅᓂᖏᓐᓂ ᑕᒪᒃᑯᓂᓕᒫᖅ.

(1) ᓄᓇᒥ ᓇᓖᓐᓂᖏᑦ

ᑕᕆᐅᕐᒥ ᓯᑯ ᐱᑕᖃᕆᐊᓕᒻᒪᕆᒃ ᓇᐅᒃᑰᕝᕕᐅᔪᓐᓇᕐᓂᖓᓄᑦ

ᓯᑯᑰᕝᕕᒃᓭᖃᕆᐊᖃᕐᒪᑕ ᖁᑦᑎᒃᑐᒥ ᑐᒃᑐᐃᑦ ᐃᑳᕈᓐᓇᕆᐊᖃᕐᓂᖏᓐᓄᑦ ᕿᑭᖅᑕᕆᓭᐅᔪᓄᑦ. ᓯᑯᒃᑯᑦ ᐃᑳᕈᓐᓇᕐᕕᑦ ᐃᓕᑕᕆᔭᐅᓯᒪᙱᑕ ᓄᓇᓕᖕᓄᑦ ᒪᓕᒃᑐᓂᒃ ᐃᓄᐃᑦ ᖃᐅᔨᒪᔭᖏᓐᓂᒃ, ᑕᑯᖃᑦᑕᖅᓯᒪᔭᖏᓐᓂᓗ (ᑕᑯᑎᑦᑎᒋᐊᕈᑦ 1). ᑐᓐᖓᕕᐅᓪᓗᑎᒃ ᑕᒪᒃᑯᐊ ᖃᐅᔨᒪᔭᐅᔪᑦ ᓄᓇᓕᙴᓪᓗ ᐅᖃᐅᓯᐅᖃᑕᐅᖅᑐᑦ ᐊᕿᒍᓂ ᑕᒪᙵᑦ 2013-ᒥᒃ ᐊᒻᒪᓗ 2020-ᒥ ᑕᕆᐅᒃᑯᑦ ᓯᑯᖃᕆᐊᖃᕐᓂᖅ ᐱᑕᖃᕆᐊᖃᒻᒪᕆᐅᙱᖏᑦ ᐃᓕᑕᕆᔭᐅᓚᐅᖅᑐᑦ, ᐊᑐᖅᑕᐅᔪᓐᓇᕆᐊᖃᕐᒪᑕ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᓐᓄᑦ (ᑕᑯᑎᑦᑎᒋᐊᕈᑦ 3 - ᑕᑯᑎᑦᑎᒋᐊᕈᑦ 7; ᑲᓇᑕᒥ ᐆᒪᔪᓕᕆᓂᕐᒧᑦ ᐱᔨᑦᑎᕋᐃᔾᑦ 2013; ᐃᖃᓗᒃᑐᑦᑎᐊᕐᓂ ᐊᖑᓇᓱᒃᑎᒃᑯᑦ 2013; ᐅᖅᓱᖅᑑᑉ ᐊᖑᓇᓱᒃᑎᖏᑦ 2013; ᐊᐃᕙᖅ ᐊᖑᓇᓱᒃᑎᖏᑦ; ᐅᓗᒃᕼᐊᖅᑑᕐᒥᐅᑦ ᐊᖑᓇᓱᒃᑏᑦ ᑲᑎᒪᔨᕋᓛᖏᑦ 2013; ᐸᐅᓗᑑᑉ ᐊᖑᓇᓱᒃᑏᑦ ᑲᑎᒪᔨᕋᓛᖏᑦ 2013; ᖃᐅᓯᐃᑦᑑᑉ ᐊᖑᓇᓱᒃᑎᖏᑦ 2013; ᐃᑳᕼᐆᑉ ᐊᖑᓇᓱᒃᑏᑦ ᑲᑎᒪᔨᕋᓛᖏᑦ 2013; ᑕᓗᕐᔪᐊᑉ ᐊᖑᓇᓱᒃᑎᖏᑦ 2013; ᑲᓇᑕᒥ ᐆᒪᔪᓕᕆᓂᕐᒧᑦ ᐱᔨᑦᑎᕋᐃᔾᑦ 2015, ᑲᓇᑕᒥ ᐆᒪᔪᓕᕆᓂᕐᒧᑦ ᐱᔨᑦᑎᕋᐃᔾᑦ 2020). ᑕᕆᐅᒃᑯᑦ ᓯᑯᐃᑦ ᐊᑦᑕᑕᕐᕕᐅᙱᑕ ᐊᓯᙱᓄᙳᐅᔪᓐᓇᕐᓂᕐᒧᑦ ᑐᒃᑐᖃᕐᕕᐅᕙᓐᓂᙱᓄᑦ ᑕᒪᒃᑯᓂᙵ ᕿᑭᖅᑕᕆᓭᕐᓂ ᐱᒻᒪᕆᐅᓗᑎᒃ ᓇᔪᕆᕆᔭᐅᕙᓐᓂᙱᓐᓄᑦ ᐊᒻᒪᓗ ᐱᑕᖃᕆᐊᓕᒻᒪᕆᐅᔪᓄᑦ ᐃᓕᑕᕆᔭᐅᓗᑎᒃ ᓇᔪᖅᑕᐅᔪᓐᓇᕆᐊᖃᕐᓂᙱᓐᓂ, ᐅᓂᒃᑳᖅᑕᐅᑦᑎᐊᒃᑳᓐᓂᖅᓱᑎᒃ ᐃᓚᙱᓐᓂᒃ ᐊᔾᔨᕐᙱᓐᓂᙱᓐᓂᒃ ᑎᑎᕋᖅᓯᒪᓂᙱᑦ ᑕᐃᑲᓂ ᑕᑯᑎᑦᑎᒋᐊᕈᑦ 1-ᒥ ᐊᒻᒪᓗ ᑕᑯᑎᑦᑎᒋᐊᕈᑎᓂ 3-7-ᙱᓂᑦᑐᓂ.

ᐃᓚᒋᐊᖅᑕᐅᒃᑳᓂᓚᐅᖅᑐᑦ ᐅᖓᕙᕆᐊᖅᑕᐅᓗᑎᒃ ᐊᙱᓂᙱᑦ 2-km ᑭᓛᒥᑕᓕᙵᒃ ᑕᒪᐃᓐᓂ ᐃᓕᑕᕆᔭᐅᕓᓂᒃᓯᒪᔪᓂᒃ ᑕᕆᐅᕐᒥ ᓯᑯᖃᕆᐊᖃᕐᓂᙱᓐᓂᒃ ᐱᑕᖃᕆᐊᖃᒻᒪᕆᒃᑐᓂᒃ ᓇᔪᖅᑕᐅᔪᓐᓇᕐᓂᙱᓐᓄᑦ ᐃᓚᒋᔭᐅᓂᖅ (ᐱᖃᓯᐅᑎᔭᐅᓯᑎᒃ ᓄᓇᙱᑦ) ᐅᔾᔨᖅᑐᑦᑎᐊᕈᑕᐅᓂᐊᕐᒪᑕ ᓯᑯᓯᒪᖃᑦᑕᕆᐊᖃᕐᓂᙱᑦ ᑕᒪᒃᑯᓇᓂ ᖃᓃᖃᑕᕋᓗᐊᖅᑎᓪᓗᒋᑦ ᐅᒥᐊᕐᔪᐊᒃᑰᕝᕕᐅᖃᑕᕐᓂᙱᑦ ᐅᕝᕙᓗᓐᓃᑦ ᓯᑯᓯᐅᑎᒃᑰᕝᕕᐅᕙᓐᓂᙱᑦ (ᑐᓐᖓᕕᓖᑦ ᓯᓚᓕᕆᔩᕐᔪᐊᒃᑯᑦ ᐱᔨᑦᑎᕋᐃᔨᙱᓐᓂ ᑲᓇᑕᒥ - ᓯᑯᓕᕆᔩᑦ ᐅᖃᐅᓯᒃᓴᓂᒃᓯᒪᔪᙱᑦ).



ᑕᑯᑎᑦᑎᒋᐊᕈᑦ 3. ᐃᓕᑕᕆᔭᐅᓯᒪᔪᑦ ᑕᕆᐅᕐᒥ ᓱᑯᖃᕆᐊᖃᕐᓂᖏᑦ ᐱᑕᖃᕆᐊᓕᒪᕆᖕᓂ ᓇᔪᖅᑕᐅᔪᓐᓇᕐᓂᖅ ᑕᒪᑯᓄᖓ ᐊᑐᖅᑕᐅᕙᖕᓂᖏᓐᓄᑦ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᓄᑦ. ᓇᐅᑰᕝᕕᐅᕙᖕᓂᖏᑦ ᐅᖓᓯᒃᑐᒧᑦ ᐃᓕᑕᕆᔭᐅᓯᒪᔪᑦ ᓄᓇᓕᖕᓄᑦ ᓯᓚᑖᒧᑦ. ᓇᔪᒪᕆᔭᐅᕙᔪᖕᓂᖏᑦ ᐃᓱᒪᒋᔭᐅᖏᒪᑕ ᐱᑕᖃᕆᐊᖃᒪᕆᖕᓂᒃ ᓇᔪᖅᑕᐅᔪᓐᓇᕐᓂᖅ ᑭᓱᐊᓂ ᑕᑯᒃᓴᐅᕗᑦ ᐃᓕᑕᕆᔭᐅᓕᕈᓐᓇᕐᓂᖏᓐᓄᑦ ᐱᑕᖃᕆᐊᓕᒪᕆᖕᓂᒃ ᓇᔪᖅᑕᐅᔪᓐᓇᕆᐊᖃᕐᓂᖏᓐᓂᒃ, ᓄᑖᓂᒃ ᖃᐅᔨᒪᔭᐅᓂᖏᓐᓂᒃ ᐊᑐᐃᓐᓇᐅᖃᓕᖅᐸᑦ.

Please see the Inuktitut translation below :

Candidate Critical Habitat - ᐃᓕᑕᕆᔭᐅᔪᓐᓇᕐᒥᔪᑦ ᐱᑕᖃᕆᐊᖃᒪᕆᒃᑐᑦ ᓇᔪᖅᑕᔪᓐᓇᕆᐊᓖᑦ

(2) ᓇᔪᖅᑕᐅᕙᒃᑐᑦ ᓱᓇᑕᖃᕈᙱᓂᖏᑦ ᖃᓂᐃᑦᑐᓂᒡᒍ

ᓇᔪᖅᑕᐅᕙᓂᖏᓂ ᓱᓇᑕᖃᕐᓂᖏᑦ ᐊᒻᒪᓗ ᖃᓄᐃᓕᖓᓂᖏᓐᓂᒃ ᐃᑲᔪᕐᓂᖃᖅᐸᒃᑐᑦ ᑐᑭᓕᐅᕈᑕᐅᔪᓐᓇᕐᓂᖅ ᐆᒪᔪᓄᑦ ᐱᑕᖃᕆᐊᓕᒪᕆᖕᓂᒃ ᓇᔪᖅᑕᐅᔪᓐᓇᕐᓂᖏᓐᓂᒃ ᐆᒪᐃᓐᓇᕈᑎᒋᔪᓐᓇᕐᓂᐊᖅᑕᖏᓐᓂᒃ. ᓇᓂᓐᓂᖏᑦᑕ ᑕᒪᒃᑯᐊ ᐱᑕᖃᕐᕕᐅᓂᖏᓐᓂ ᖃᓄᐃᑦᑐᓂᒡᒍ ᐱᑕᖃᕆᐊᖃᕐᒪᑕ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ ᓇᔪᖃᑦᑎᐊᕈᓐᓇᕐᓂᐊᕐᒪᑕ ᐊᒻᒪᓗ ᐱᕕᒃᓴᖃᕈᓐᓇᕐᓗᑎᒃ ᐱᑕᖃᕐᓂᖏᓐᓄᑦᑦ ᐊᕙᑎᖏᓐᓂᑦᑐᑦ, ᐊᕙᑎᒥᐅᑕᕆᔭᐅᕙᒃᑐᓪᓗ, ᓯᓚᐅᓪᓗ ᖃᓄᐃᓕᖓᔪᓐᓇᕐᓂᖓ ᐊᒻᒪᓗ ᓯᓚᐅᑉ ᐊᓯᔾᔨᖅᐸᓪᓕᐊᔪᓐᓇᕐᓂᖓᓂ.

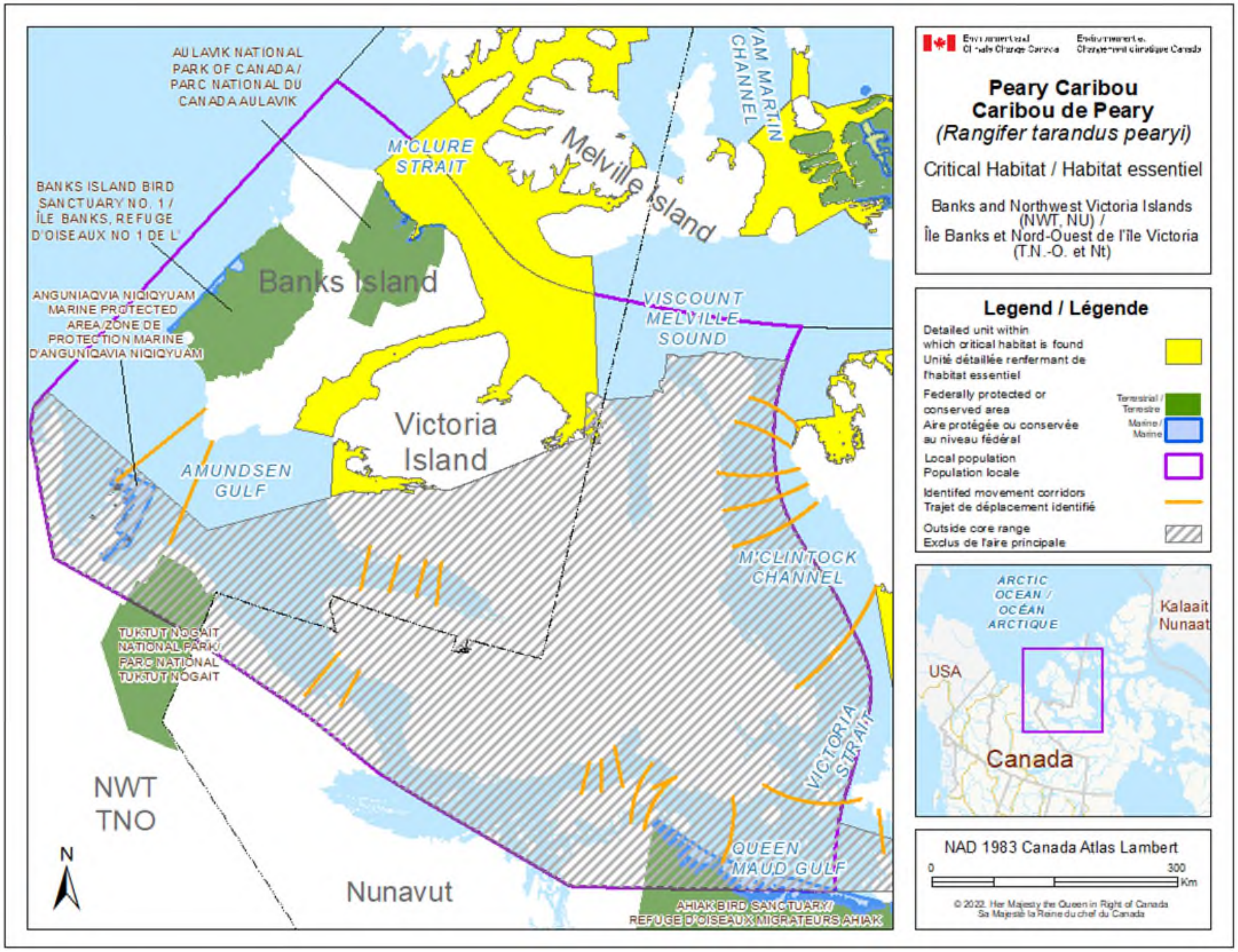
ᑕᕆᐅᕐᒥ ᓱᑯᖃᕆᐊᖃᕐᓂᖏᑦ ᐱᑕᖃᕆᐊᓕᒪᕆᖕᓂ ᓇᔪᖅᑕᐅᔪᓐᓇᕐᓂᖅ

ᑕᕆᐅᕐᒥ ᓱᑯ ᐃᓚᒋᔭᐅᕐᔪᐊᕐᒪᑕ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᓄᑦ ᓇᒧᖓᐅᖃᑕᐅᔪᓐᓇᕐᓂᖏᓐᓄᑦ ᐅᖓᓯᒃᑐᒨᖓᐅᔪᓐᓇᕐᓂᖏᓐᓄᑦ ᐊᕐᕌᒍᑕᒫᖅ ᕿᑭᖅᑕᖓᐅᓂᖏᓐᓄᑦ. ᑕᒪᒃᑯᐊ ᐊᑐᖅᑕᐅᕙᖕᓂᖏᑦ ᐊᑐᖅᑕᐅᔪᓐᓇᕐᒪᖓᑕ ᐊᕐᕌᒎᑉ ᐃᑖᐃᓐᓇᖓᓂ, ᐱᑕᖃᓕᖃᑦᑕᖅᓯᑎᒃ ᐅᑭᐊᒃᓴᒃᑯᑦ ᓯᑯᕚᓕᐊᓕᖅᑎᓗᒍ ᑎᑭᓗᒍ ᑕᐃᑯᖓ ᑐᕙᐃᔭᖅᐸᓪᓕᐊᕝᕕᖓᑦ ᐅᐱᖓᒃᑯᑦ,ᐊᐅᔭᒃᑯᓗᓐᓃᑦ.

ᐅᓂᒃᑳᑦᑎᐊᕈᒪᓪᓗᒋᑦ ᑕᕆᐅᕐᒥ ᓯᑯᐃᑦ ᐊᑐᖅᑕᐅᔪᓐᓇᕆᐊᖃᕐᓂᖏᑦ, ᑕᒪᒥᒃ ᓯᑯᐃᑦ ᐱᑕᖃᕆᐊᖃᕐᓂᖏᑦ ᐃᓕᑕᕆᔭᕆᔭᐅᓯᒪᕗᑦ ᑕᐃᑲᓂ ᑕᑯᑎᑦᑎᒋᐊᕈᑎᓂ 3-7-ᒥ ᐃᓱᒪᒋᔭᐅᔭᕆᐊᖃᒪᑕ ᐱᑕᖃᕆᐊᖃᕐᓂᕐᒥᒃ ᓇᔪᖅᑕᐅᔪᓐᓇᕆᐊᖃᕐᓂᖅ.

ᓯᑯᐃᔭᖅᐸᓪᓕᐊᓕᖃᑕᕐᒪᑕ[13] ᐊᐅᔭᒃᑯᑦ ᓱᕋᖅᑎᖅᓯᒪᓕᖅᑐᓂᒃ ᑕᒪᒃᑯᐊᓗ ᐃᓱᒪᒋᔭᐅᖏᑦᑐᑦ ᐱᑕᖃᕆᐊᖃᒻᒪᕆᙱᓂᖅ ᓇᔪᖅᑕᐅᔪᓐᓇᕆᐊᓕᙱᓂ. ᐊᐅᒃᑲᕐᓃᑦ ᐱᑕᖃᕋᙶᕗᑦ ᒪᑐᐃᖓᓐᓇᕐᓂᖏᑦ ᑕᕆᐅᕐᒥ ᐃᒪᐃᑦ ᓯᑯᕚᖏᓐᑦᑐᓂᒃ. ᐃᓕᑕᕆᔭᐅᓯᒪᔪᑦ ᑕᕆᐅᕐᒥ ᓯᑯᐃᑦ ᑕᒪᒃᑯᓄᖓ ᐊᑕᔪᑦ ᐃᓱᒪᒋᔭᐅᕙᖏᑦᑐᑦ ᐱᑕᖃᕆᐊᖃᒻᒪᕆᙱᓂᖏᓐᓂᒃ ᓇᔪᕆᕆᔭᐅᔪᓐᓇᕐᓂᖏᓐᓄ, ᐊᒻᒪᓗ ᐃᑲᔪᕐᓂᖃᕋᔭᖏᑦᑐᑦ ᑕᐃᒃᑯᐊ ᓴᐳᓐᓂᐊᖅᑕᐅᔪᓐᓇᕐᓂᖏᑦ ᐱᑕᖃᕆᐊᓕᒻᒪᕆᐅᓂᕋᖅᑕᐅᔪᑦ ᓇᔪᕆᕆᔭᐅᔪᓐᓇᕐᓂᕐᒧᑦ.

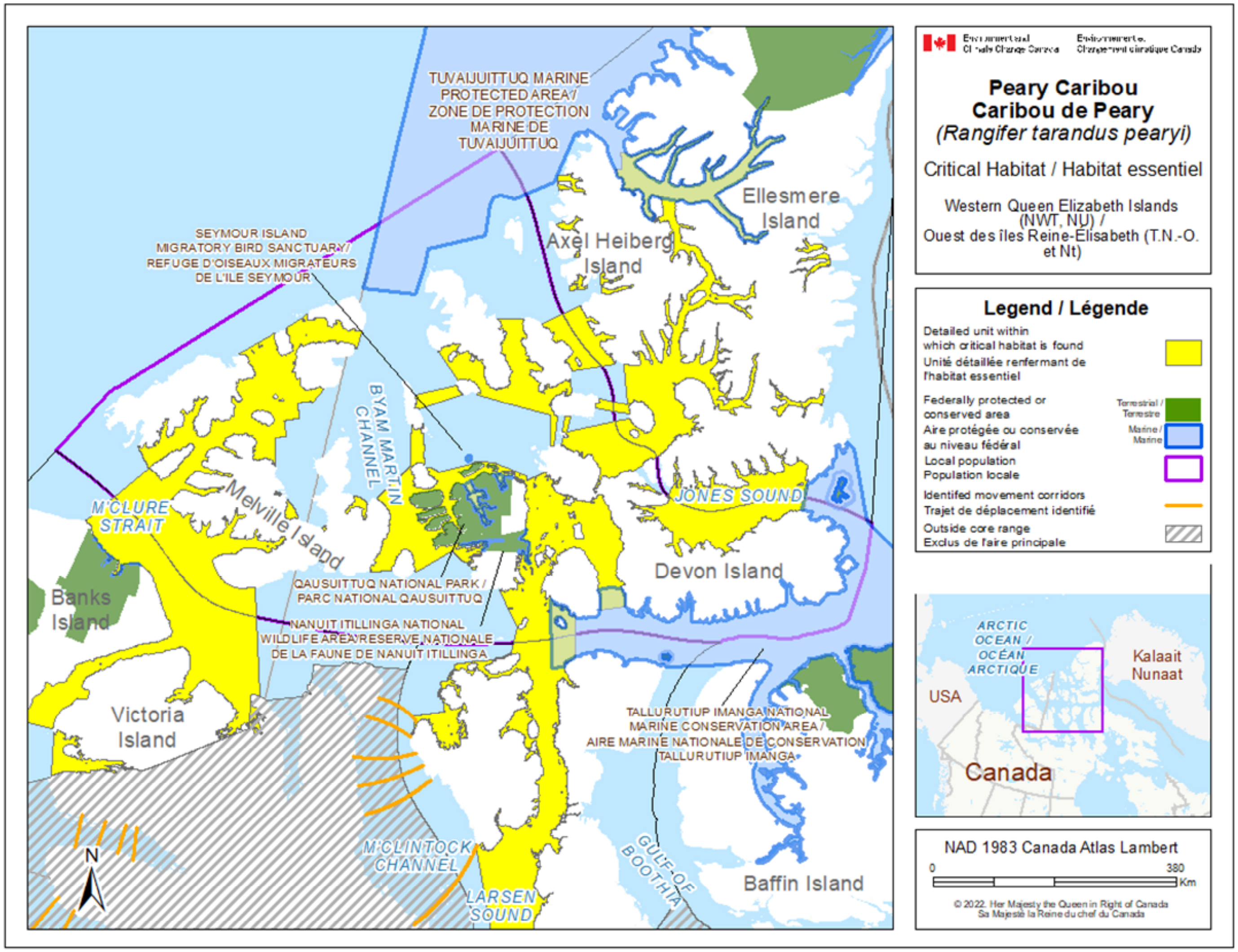
[13] ᑕᒪᒃᑯᐊ ᐅᖃᐅᓯᖃᖅᑐᑦ ᓯᑯᒥᒃ ᓱᕋᖅᑎᖅᐸᓪᓕᐊᓕᖃᑕᖅᑐᓂᒃ ᐊᐅᔭᒃᑯᑦ ᑕᕆᐅᒥ.



ᑕᑯᑎᑦᑎᒋᐊᕈᑦ 4. ᓇᓃᓐᓂᕐᒋᑦ ᐱᑕᖃᕆᐊᓕᒫᓂᑦ ᓇᔪᒪᑎᔭᐅᔪᓐᓇᕐᓂᕐᒧᑦ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᕐᒋᓄᑦ ᑕᐅᕙᓂ ᐃᑳᕼᐆᑉ ᕿᑭᖅᑕᖓᓂ - ᐅᐊᓐᓇᖅᐸᓯᖓᑕ ᐱᖓᓐᓇᖓᓂ ᑭᓪᓕᓂᐅᑉ ᑐᒃᑐᖃᕐᕕᐅᕙᓐᓂᕐᒋᑦ ᑕᒪᒃᑯᓂᖓ (ᓄᓇᑦᓯᐊᒥᕐ ᐊᒻᒪᓗ ᓄᓇᕗᒻᒥ).

Please see the Inuktitut translation below:

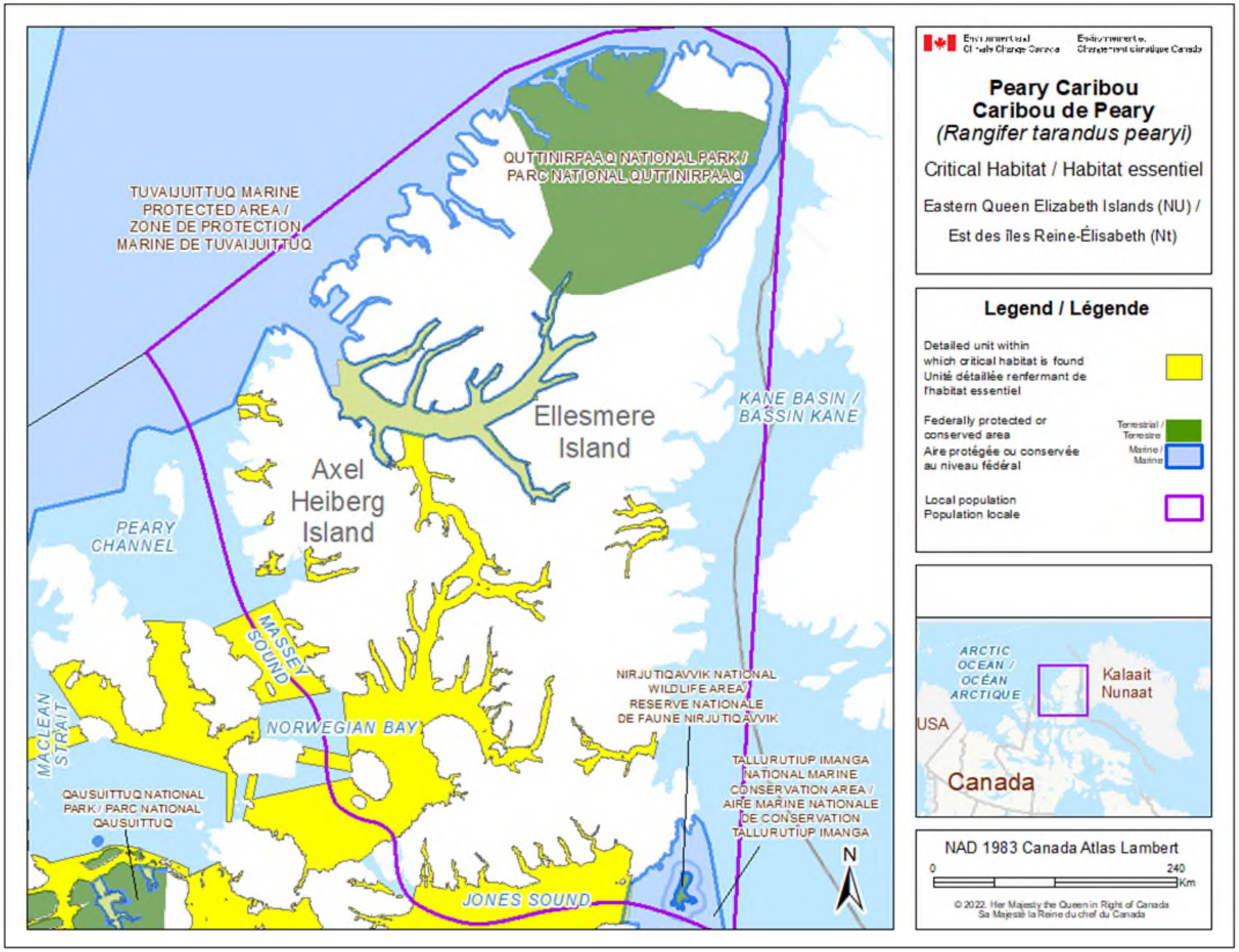
Candidate Critical Habitat - ᐃᓕᑕᕆᔭᐅᔪᓐᓇᕐᒥᔪᑦ ᐱᑕᖃᕆᐊᖃᒻᒪᕆᓐᓄᑦ ᓇᔪᖅᑕᐅᔪᓐᓇᕆᐊᓖᑦ



ᑕᑯᑦᑎᒋᐊᕈᑦ 5. ᓇᓃᓐᓂᖏᑦ ᐱᑕᖃᕆᐊᓕᒫᓂᑦ ᓇᐅᒪᔾᐅᔭᓐᓇᕐᓂᕐᒧᑦ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᓄᑦ ᑕᐅᕙᓂ ᑭᖓᐃᓚᐅᑉ ᑕᕆᐅᕿᓗᐊᑕ ᐱᖓᓐᖓᓂ ᕿᑭᖅᑖᓗᖏᑦ ᑐᒃᑐᖃᕐᕕᐅᕙᓐᓂᖏᑦ ᑕᒪᒃᑯᓂᖓ (ᓄᓇᕐᔪᐊᒥᕐ ᐊᒻᒪᓗ ᓄᓇᕗᒻᒥ).

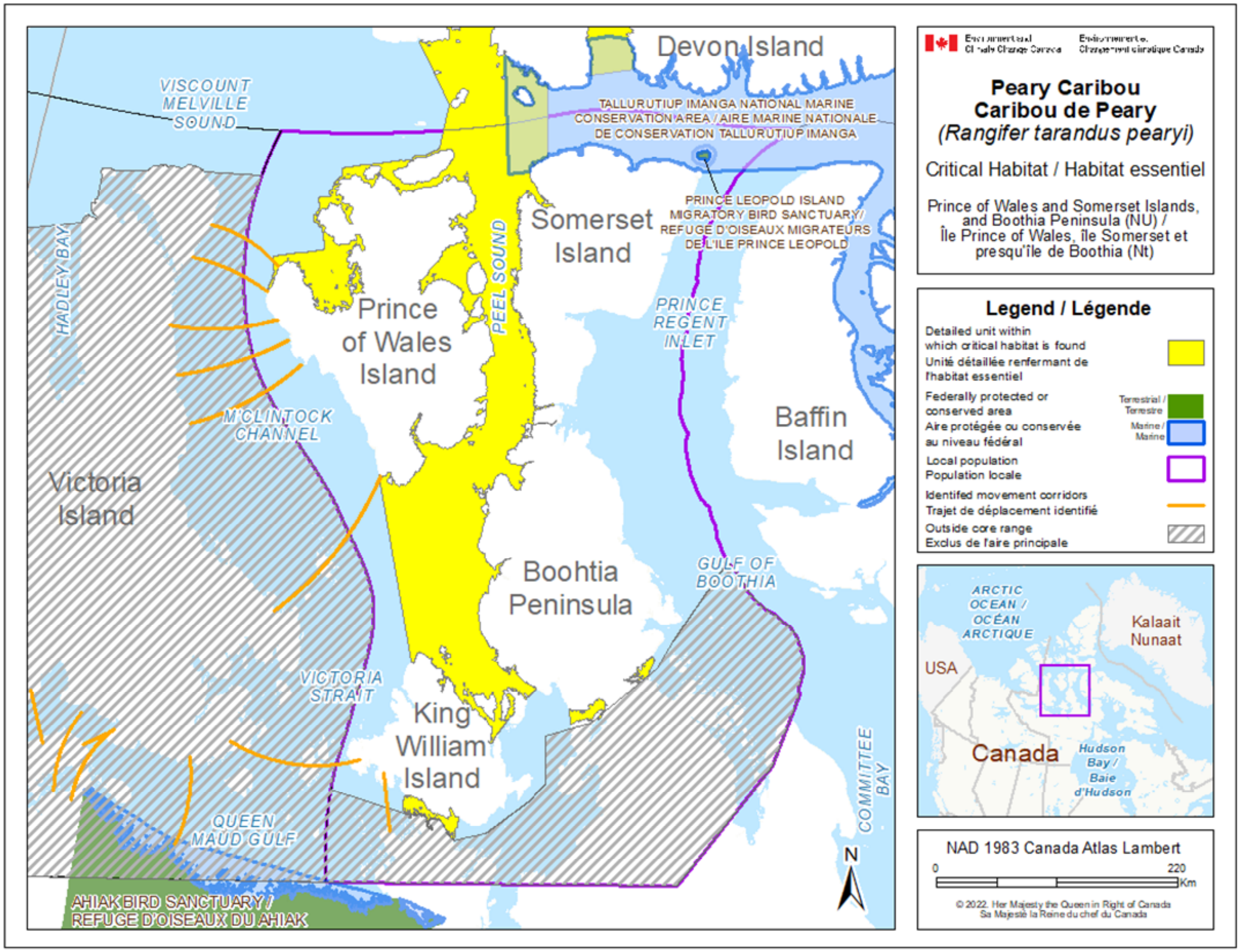
Please see the Inuktitut translation below :

Candidate Critical Habitat - ᐃᓕᑕᕆᔭᐅᔪᓇᕐᒥᔪᑦ ᐱᑕᖃᕆᐊᖃᕐᒪᕆᖕᓂᑦ ᓇᐅᖅᑕᐅᔪᓇᕆᐊᓕᖕᓂᑦ



ᑕᑯᑎᑦᑎᒋᐊᕈᑦ 6. ᓇᓃᓐᓂᖔᑦ ᐱᑕᕐᑲᕆᐊᓕᒻᒪᕇᑦ ᓇᔪᒐᕆᔭᐅᔪᓐᓇᕐᓂᕐᒧᑦ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᓄᑦ ᑭᖕᒪᐃᓚᐅᑉ ᑕᕆᐅᕌᓗᐊᑕ ᑲᓇᖕᓇᖓᓂ ᕿᑭᖅᑕᓴᖏᑦ ᑐᒃᑐᖃᕐᕕᐅᕙᓐᓂᖏᑦ ᑕᒪᒃᑯᓂᖓ (ᓄᓇᕗᒻᒥ).

Please see the Inuktitut translation below :
Candidate Critical Habitat - ᐃᓕᑕᕆᔭᐅᔪᓐᓇᕐᕗᑦ ᐱᑕᕐᑲᕆᐊᖃᒻᒪᕆᓐᓄᑦ ᓇᔪᖅᑕᐅᔪᓐᓇᕆᐊᓕᓐᓄᑦ



ᑕᑯᑦᑎᒋᐊᕈᑦ 7. ᓇᓃᓂᖏᑦ ᐱᑕᖃᕐᓇᐊᓕᒫᓂᑦ ᓇᓖᒪᑎᔾᔭᐅᔪᓐᓇᕐᓂᕐᒧᑦ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᓄᑦ ᑭᖕᒪᐃᓚᐅᑉ ᕿᑭᖅᑕᖓᓂ – ᑰᒪᓇᔩᑉ ᕿᑭᖅᑕᖓᓂ ᐊᑯᓂᖏᓐᓂ – ᐃᑦᑐᐊᖅᑐᕐᕕᐅᑉ ᓄᕗᐊᓂ ᑐᒃᑐᖃᕐᕕᐅᕙᖕᓂᖏᑦ ᑕᒪᒃᑯᓂᖓ (ᓄᓇᕗᒻᒥ).

Please see the Inuktitut translation below :

Candidate Critical Habitat - ᐃᓕᑕᕆᔭᐅᔪᓐᓇᕐᒥᔪᑦ ᐱᑕᖃᕐᓇᐊᖃᒪᕆᖕᓄᑦ ᓇᔪᖅᑕᐅᔪᓐᓇᕆᐊᓕᖕᓄᑦ

7.2 ᖃᖓ ᖃᐅᔨᓴᖅᑕᐅᕙᒃᓴᐃᑦ ᐃᓕᑕᕆᔭᐅᕙᒫᓗᑎᒃ ᐱᑕᖃᕆᐊᓕᒻᒪᕇᑦ ᓇᕙᖅᑕᐅᔾᔭᕆᐊᓖᑦ

ᐱᕕᒃᓴᓕᐅᕆᐊᖃᖅᑐᑦ ᖃᖓ ᖃᐅᔨᒋᐊᖅᑕᐅᕚᕐᒪᖖᑕ ᐊᑐᕐᓗᑎᒃ ᓯᐊᔭᒃᑯᑦ ᒪᓕᒐᖏᓐᓂᒃ ᖃᖓᑐᐃᓐᓇᖅ ᖃᐅᔨᒪᔾᕙᑎᒃᓴᕆᔭᐅᕙᑦ ᐊᒥᒐᓗᐊᕈᑎᒃ ᐱᔭᕇᖅᑕᐅᔭᕆᐊᖃᕐᓂᖏᓐᓄᑦ ᐃᓕᑕᕆᔭᐅᔭᕆᐊᓛᑦ ᐱᑕᖃᕆᐊᓕᒻᒪᕇᑦ ᓇᕙᒐᕆᔭᐅᔾᔭᓇᕐᓂᕐᒧᑦ. ᖃᐅᔨᓴᒋᐊᖅᑕᐳᕕᒃᓴᖏᑦ (**Error! Reference source not found.**) ᓇᓗᓇᐃᔭᐃᕗᑦ ᖃᐅᔨᓴᖅᑕᐅᔭᕆᐊᖃᕐᓂᖏᓐᓂᒃ ᐱ ᔭᕇᖅᑕᐅᔾᔭᕐᓂᐊᕐᒪᑕ ᐱᑕᖃᕆᐊᖃᕐᓂᖏᑦ ᓇᕙᒐᕆᔭᐅᔾᔭᓇᕆᐊᓛᑦ, ᒪᓕᒋᐊᓕᖕᓂᒃ ᖁᑦᑎᒃᑐᒥ ᑐᒃᑐᐃᑦ ᐱᑕᖃᕐᓂᖏᓐᓂ ᐊᒻᒪᓗ ᓇᓃᖃᑦᕐᓂᖏᓐᓂᒃ ᖃᐅᔨᔭᐅᕙᒪᓂᕐᒧᑦ. ᑕᒪᒃᑯᐊ ᐃᓕᑕᕆᔭᐅᓂᖏᑦ ᐱᑕᖃᕆᐊᓖᑦ ᓄᑖᕈᕆᐊᖅᑕᐅᖃᑦᑕᕐᓂᐊᖅᑐᑦ ᖃᖓᑐᐃᓐᓇᖅ ᖃᐅᔨᒪᔾᕙᑎᒃᓴᐃᑦ ᐊᑐᐃᓐᓇᐅᓕᕈᑎᒃ,ᐋᕿᒋᐊᖅᑕᐅᓗᑎᒃ ᐊᒥᓱᕈᖅᓯᓂᕐᒧᑦ ᖃᓄᐃᓕᐅᕈᑎᒃᓴᐃᑦ ᐅᕝᕙᓗᓐᓃᑦ ᑕᐃᒃᑯᐊ ᐱᓕᕆᐊᖑᔭᕆᐊᓕᑦ ᐸᕐᓇᐅᑎᖏᑦ.

ᐊᕕᒃᑐᖅᓯᒪᓂᖏᑦ 8: ᖃᐅᔨᒋᐊᖅᑕᐅᕕᒃᓴᖏᑦ ᐃᓕᑕᕆᔭᐅᖁᓪᓗᒋᑦ ᐱᑕᖃᕆᐊᓕᒻᒪᕇᑦ ᓇᕙᒐᕆᔭᐅᔾᔭᓇᕐᓂᖏᑦ

ᐅᓂᒃᑳᖅᑐᑦ ᖃᓄᐃᓕᐅᕐᕕᐅᕗᓂᖏᓐᓂᒃ	ᑐᑭᓕᐅᕈᑕᐅᓂᖏᑦ	ᖃᖓ
ᓇᓗᓇᐃᖅᑕᐅᓗᑎᒃ ᓇᒧᖓᐅᕗᖕᓂᖏᑦ ᐅᖓᓯᒃᑐᓄᑦ.	ᐊᑐᕐᓗᑎᒃ ᒫᓐᓇᐅᔪᖅ ᐃᓄᐃᑦ ᖃᐅᔨᔭᑐᖃᖏᓐᓂᒃ, ᐱᐅᓯᑐᖃᖅᑎᒍᑦ ᐊᕙᑎᒥᒃ ᖃᐅᔨᒪᔭᐅᓂᖏᑦ ᐊᒻᒪᓗ ᖃᐅᔨᓴᖅᑎᓄᑦ ᖃᐅᔨᒪᔭᐅᓂᖏᑦ, ᐃᓕᑕᕆᔭᐅᓗᑎᒃ ᐊᔾᔨᓇᖏᓂᓕᒫᒃᑯᑦ, ᓄᓇᒃᑯᑦ ᓇᐅᒃᑰᕕᐅᕗᖕᓂᖏᑦ ᐊᑐᖅᑕᐅᔾᔭᓇᕆᐊᖃᒻᒪᕆᒃᑐᑦ ᐆᒪᔾᔪᐃᑦ ᑕᒪᑯᐊ ᐆᒪᐃᓐᓇᕈᓐᓇᕐᓂᖏᓐᓄᑦ (ᓲᕐᓗ ᐆᒃᑐᑎᒋᓗᒍ ᐊᕐᕋᒎᑉ ᐃᓃᒍᑦ ᓇᒧᖓᐅᖃᑦᑕᕐᓂᖏᑦ ᓂᕿᒃᓴᖅᓯᐅᓂᕐᒧᑦ ᐊᒻᒪᓗ ᓄᕐᕋᕕᐅᕗᖕᓂᖏᓐᓄᑦ ᐃᓂᖏᑦ), ᑕᐃᒃᑯᐊᓗ ᓇᐅᒃᑰᕕᐅᖃᑕᐅᓇᕆᐊᖃᕐᓂᖏᑦ ᓇᒧᖓᐅᔾᔭᓇᕐᓂᐊᕐᒪᑕ ᑐᒃᑐᓄᑦ (ᐆᒃᑑᑎᒍᓗᒍ ᐃᑲᔪᖅᑕᐅᔭᕆᐊᖃᕐᓂᖏᑦ)	2032
ᓇᔪᖃᑦᑕᖅᑕᖏᑦ ᐊᔾᔨᕌᖏᑐᑦ ᐊᒻᒪᓗ ᐊᕝᕙᑎᖏᓐᓂ ᖃᐅᔨᓴᖅᑕᐅᓂᖏᑦ (ᓄᓇᒥ ᓇᔪᖅᑕᐅᕗᖕᓂᖏᑦ).	ᖃᐅᔨᓴᖅᑕᐅᓗᑎᒃ ᑎᒥᒃᑯᑦ ᖃᓄᐃᓕᖓᖃᑦᑕᕐᓂᖏᑦ ᐊᔾᔨᕌᖏᑦᑑᑎᓂᒃ ᐊᑐᕐᓂᖏᓐᓂ ᐆᒪᔪᓂᖏᓐᓂ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᐃᑦ ᐅᕝᕙᓗᓐᓃᑦ ᐱᑕᖃᕖᖑᖏᖏᓐᓂᒃ ᐊᓯᔾᔨᕈᑕᐅᕗᓂᖏᓐᓂ ᓄᕐᓇᓕᕿᒐᒥᒃ ᓄᓕᐊᖅᐸᖕᓂᖏᓐᓂᓗᓐᓂᑦ. ᖃᐅᔨᓴᖅᑕᐅᒍᑎᒃ ᐃᑲᔪᕈᓐᓇᒪᑦ ᐃᓕᑕᕆᔭᐅᔾᔭᓇᕐᓂᖏᑦ ᑎᒥᒃᑯᑦ ᖃᓄᐃᓕᖓᓕᖃᑦᑕᕐᓂᖏᑦ ᐊᒃᑐᖅᑕᐅᓴᕋᐃᑦᑐᓂᕒᓕᖅᑎᓪᓗᒋᑦ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᐃᑦ, ᕿᒥᕐᕈᐊᖅᑕᐅᓇᔭᖅᓯᑎᒃ ᖃᓄᐃᓕᖓᓕᖃᑦᑕᕐᓂᖏᑦ ᑎᒥᒥᒎᑦ ᓇᔾᔭᒃᑕᖏᓐᓂ ᓄᓇᒥ ᐊᔾᔨᕌᖏᑐᓂ. ᐊᑐᖅᑕᐅᓗᑎᒃ ᑐᖓᕕᓗᑦ ᐃᓄᐃᑦ ᖃᐅᔨᒪᔭᑐᖃᖏᓐᓂᒃ, ᐱᐅᓯᑐᖃᕐᓂᒃ ᖃᐅᔨᒪᔭᐅᔪᓂᒃ ᐊᒻᒪᓗ ᖃᐅᔨᓴᖅᑎᓄᑦ ᖃᐅᔨᔭᐅᓯᒪᔪᓂᒃ, ᑐᑭᓕᐅᕈᑕᐅᓗᑎᒃ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ ᑐᒃᑐᖃᕐᕕᐅᕗᖕᓂᖏᑦ ᖃᐅᔨᕕᐅᔾᔭᓇᕐᓂᖅ ᒪᑯᓂᖓ: - ᑐᑭᓯᔾᔭᓇᕐᓂᖅ ᖃᓄᑎᒋ ᐊᒻᒪᓗ ᖃᓄᐃᑦᑐᕗᖕᓂᖏᓐᓂ ᓇᔪᖅᐸᒃᑕᖏᑦ, ᐊᓯᔾᔨᕈᑕᐅᔾᔭᓇᖅᑐᓪᓗ ᑎᒥᒃᑯᑦ ᖃᓄᐃᓕᖓᓂᖏᓐᓄᑦ, ᐊᒃᑐᖅᑕᐅᔾᔭᓇᕐᓂᖏᓐᓂᓗ ᓄᓇᓕᖕᓂ ᑐᒃᑐᖃᕐᕕᐅᓂᖏᓐᓄᑦ; - ᑐᑭᓯᔾᔭᓇᕐᓂᖅ ᑕᒪᐃᓐᓂᒃ ᐊᕙᑎᒥᐅᑕᕆᔭᐅᔾᔭᓂᒃ ᐱᕈᖅᑐᓂᒃ ᐊᓯᖏᓐᓂᒡᓗ, ᐊᒻᒪᓗ ᐃᒪᕐᓂᒃ/ᓯᑯᒥᒃ ᓄᓇᐃᓪᓗ ᓯᓚᖓᓂᒃ ᐊᒃᑐᐃᕝᕕᒃᑐᓂᒃ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᓂᒃ, ᓲᕐᓗ ᑕᒪᒃᑯᐊ ᐆᒪᔪᐃᑦ ᑐᒃᑐᓯᐅᖅᐸᒃᑐᓄᑦ,ᐊᓯᖏᓪᓗ ᑕᐃᒃᑯᖓᓴᐃᓐᓇᖅ ᑐᒃᑐᐃᑦ ᓂᕿᒃᓴᕙᒃᑕᖏᓐᓂᒃ ᓂᕿᖃᑦᔫᖏᓐᓂᖏᑦ,	2032

	ᐅᓗᕆᐊᓇᕈᑕᐅᔪᓐᓇᖅᑐᓪᓗ ᐸᒡᕕᒃᓴᐅᔪᓐᓇᕐᓂᖏᓐᓄᑦ, ᓂᕿᒃᓴᖃᕈᓐᓇᕐᓂᖏᓐᓂᒃ ᐊᒻᒪᓗ ᓯᓚᐅᑉ ᐊᓯᔾᔨᖅᐸᓕᐊᓂᖓᓂᒃ. ᖃᐅᔨᒪᓂᖅ ᒫᓇᐅᔪᖅ ᐱᑕᖃᖅᑎᒋᕙᖕᓂᖏᓐᓂᒃ ᐊᒃᓴᒪᓗ ᓇᓂ ᑕᒪᒃᑯᐊ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᐃ ᓇᔪᒐᕆᔭᐅᓚᔪᖕᓂᖏᓐᓂᒃ ᐃᑲᔪᕐᓂᖃᕈᓐᓇᕐᒪᑦ ᑕᒪᓐᓇ ᐃᓕᑕᕆᔭᐅᔪᓐᓇᕐᓂᖏᓐᓄᑦ ᐱᑕᖃᕆᐊᓕᒻᒪᕇᑦ ᓇᔪᕆᕆᔭᐅᕙᖕᓂᖏᑦ.	
ᐊᒥᒃᓲᓂᖏᓐᓂᒃ ᓇᓴᐃᓗᑎᒃ ᑕᐅᕙᖓᑦ ᑭᓪᓕᓂᕐᒥ (ᑕᐅᕙᓂᓗ Wollaston ᓄᓈᐊᓂᒃ) ᖃᐅᔨᔭᐅᓗᑎᒃ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖃᕐᕕᐅᕙᖕᒪᖔᑕ/ ᓇᔪᒐᕆᔭᐅᕙᖕᒪᖔᓗᓐᓂᑦ ᑕᐅᕙᓐᓇ.	ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ ᑕᑯᐅᖃᑦᑕᖅᓯᒪᓂᖅᑕᐅᕝᑦ ᑭᓪᓕᓂᐅᑉ ᓯᓚᑖᓂ ᓇᔪᒐᕆᔭᐅᕙᔪᖕᓂᖏᑦ, ᐱᓗᐊᖅᑐᒥ ᑕᐅᕙᓂ Wollaston ᓄᓈᐊᓂ. ᓇᓴᖅᑕᐅᔭᕆᐊᖃᖅᑐᑦ ᖃᐅᔨᓴᖅᑕᐅᓗᑎᓪᓗᓐᓂᑦ ᑐᑭᓯᓇᕐᓂᐊᕐᒪᑕ ᖃᔅᓯᐅᕙᖕᒪᖔᑕ ᑕᐅᕙᓂ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖃᕋᕐᔪᓂᖏᑦ ᐊᒻᒪᓗ ᖃᓄᑎᒋ ᑕᐅᕙᓃᖃᑕᕐᓂᖏᑦ. ᐃᓗᐃᓪᓕᒥ ᑭᓪᓕᓂᕐᒥᓗ ᑐᒃᑐᖏᑦ ᓂᒋᖅᐸᓯᐊᓂᒐᔪᖕᓂᖏᓐᓂᑦ ᑭᓪᓕᓂᐅᑉ, ᑕᒪᒃᑯᐊ ᐃᖕᒥᒍᖕᒐᑎᑕᐅᓗᑎᒃ ᓈᓴᖅᑕᐅᓇᓯᕗᐊᖃᕋᔭᖅᑐᑦ.	2032

7.3 ᐱᓕᕆᕕᐅᓂᖏᓐᓄᑦ ᓱᕋᖅᑎᕆᕕᐅᔪᓐᓇᕋᓱᒋᔭᐅᔪᑦ ᐱᑕᖃᕆᐊᓕᒻᒪᕆᖕᓂᒃ ᓇᐲᒪᕆᔭᐅᕙᒃᑐᓂᒃ

ᐅᑯᐊ ᑎᑎᕋᖅᓯᒪᓂᖏᓐ ᐅᓂᒃᑳᖅᐳᑦ ᖃᓄᐃᓕᐅᖃᑕᖅᑐᓂᒃ ᐱᓕᕆᐊᖑᕙᒃᑐᑦ ᓱᕋᐃᖃᑕᕈᓐᓇᕐᓂᖏᓐᓂᒃ ᐱᑕᖃᕆᐊᓕᒻᒪᕆᖕᓂᒃ ᑐᒃᑐᓄᑦ ᓇᐲᒪᕆᔭᐅᕙᒃᑐᓂᒃ. ᑐᑭᓯᔭᐅᑦᑎᐊᕆᐊᖃᖅᐳᑦ ᐅᓂᒃᑲᖅᑐᑦ ᓱᕋᖅᑎᕆᓂᕋᐃᕙᖕᓂᖅ ᐱᑕᖃᕆᐊᓕᒻᒪᕆᖕᓂᒃ ᓇᐲᒪᕆᔭᐅᕙᒃᑐᓂᒃ ᑐᒃᑐᓄᑦ. ᑕᐃᒪᐃᑕᕆᐊᖃᕐᒪᑕ ᓴᐳᓐᓂᐊᖅᑕᐅᔪᓐᓇᕐᓂᐊᕈᑎᒃ ᐊᒻᒪᓗ ᐊᐅᓚᑦᑕᐅᑦᑎᐊᕈᓐᓇᕐᓂᐊᕈᑎᒃ ᐱᑕᖃᕆᐊᓕᒻᒪᕇᑦ ᓇᐲᒪᕆᔭᐅᕙᒃᑐᑦ. ᓱᕋᖅᑎᖅᑕᐅᓂᕋᐃᕙᑦ ᐃᓚᖓᑯᑦ ᐱᐅᔪᓐᖅᑎᑦᑎᒍᑎᒃ, ᑕᐃᒪᐃᖏᓐᓇᕐᓂᐊᓕᖅᑐᓂᒃ, ᑕᐃᒪᐃᖏᓐᓇᔾᔮᖏᑦᑑᒐᓗᐊᒥᒡᓗᓐᓂᑦ, ᑕᐃᒪᐃᓗᑎᒃ ᐊᑐᒐᒃᓴᐅᔪᓐᓂᕐᓗᑎᒃ ᐊᑐᖅᑕᐅᕙᑕᓕᐊᓕᖕᓂᒃ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᓄᑦ. ᓱᕋᖅᑎᕆᓂᖅ ᐊᑕᐅᓯᕐᒥᖕᓛᕈᓐᓇᖅᐳᖅ ᐊᒥᓱᓂᒡᓗᓃᑦ ᑲᔪᓯᕙᓪᓕᐊᔪᒥᒃ. ᑕᒪᒃᑯᐊ ᓱᕋᖅᑎᖅᑕᐅᓯᒪᓂᖏᑦ ᑐᑭᓯᓂᐊᖅᑕᐅᕙᑕᕐᓂᐊᖅᑐᑦ ᐊᑕᐅᓯᐅᓇᖅᑎᖅᑕᐅᕙᑕᕐᓗᑎᒃ. ᐅᓂᒃᑳᖅᑕᐅᓂᖏᑦ ᑕᐃᑲᓂ ᐊᕕᒃᑐᖅᓯᒪᓂᖏᑦ 9 ᐃᓚᖃᕆᕗᑦ ᓱᕋᖅᑎᕈᑕᐅᓇᓱᒋᔭᐅᕙᓐᓂᖏᓐᓂᒃ ᐱᑕᖃᕆᐊᓕᒻᒪᕆᖕᓂᒃ ᓇᐲᒪᕆᔭᐅᕙᒃᑐᓂᒃ ᐆᒪᔪᓄᑦ; ᑭᓯᐊᓂᓕ, ᓱᕋᒃᑎᕆᕙᖕᓂᖏᑦ ᐱᓕᕆᐊᕆᔭᐅᕙᒃᑐᓂᒃ ᑕᐃᒃᑯᑑᖏᓐᓂᑦ ᑕᐃᑲᓂ ᑎᑎᕋᖅᑕᐅᓯᒪᓂᖏᓐᓂ.

ᐊᕕᒃᑐᖅᓯᒪᓂᖏᑦ 9: ᐆᒃᑑᑎᒃᓴᑐᐃᓐᓇᐃᑦ ᓱᕋᖅᑎᕆᔩᓐᓇᕐᓂᖏᓐᓂᒃ ᐱᑕᖃᕆᐊᓕᒻᒪᕆᖕᓂᒃ ᓇᔪᒐᕆᔭᐅᕙᒃᑐᓂᒃ

<table>
<tr><th>ᐅᓂᑳᖅᑐᑦ
ᖃᓄᐃᓕᐅᕐᕕᐅᕙᓂᖏᓐᓂᒃ</th><th>ᐅᓂᒃᑲᖅᑕᐅᓂᖏᑦ ᖃᓄᐃᓕᖓᓕᕈᑕᐅᔾᔭᕐᓂᖅ
ᐊᑐᖅᑕᐅᔾᔪᐃᓕᖏᓐᖑᑦ</th><th>ᐅᓂᒃᑳᖅᑐᑦ ᖃᓄᖅ ᐊᒃᑐᖅᑕᐅᓯᒪᕙᓐᓂᖏᓐᓂ</th></tr>
<tr><td colspan="3">ᑕᕆᐅᕐᒥ ᓯᑯᕐᕕᒃᓴᐃᑦ ᐱᑕᖃᕆᐊᖃᒻᒪᕆᖕᓂᖏᑦ</td></tr>
<tr><td>ᑕᕆᐅᑉ ᐃᒫᒍᑦ
ᐃᖏᕐᕋᕙᒃᑐᑦ ᐅᒥᐊᕐᔪᐊᑦ
ᓱᕋᖅᑎᕆᕙᖕᓂᖏᑦ
ᑕᕆᐅᕐᒥ ᓯᑯᒥᒃ
ᐅᖅᓚᓗᓐᓃᑦ
ᓯᑯᔩᓐᓇᐃᓕᒍᑕᐅᕙᒃᑐᑦ
ᑐᒃᑐᖑᑦ
ᐊᖅᑯᑎᒋᔭᐅᕙᒃᑐᓂᒃ</td><td>ᓯᑯᓯᐅᑎᓗ ᐅᖅᓚᓗᓐᓃᑦ ᑕᕆᐅᑉ ᐃᒫᒍᑦ ᐃᖏᕐᕋᕙᒃᑐᑦ ᐅᒥᐊᕐᔪᐊᑦ
ᐊᔾᔨᑕᐅᖃᑕᕐᒪᑕ ᓯᑯᔩᓐᓇᕐᓂᖅ ᐊᒃᑐᖅᓯᓲᖑᔪᑦ
ᐊᑐᖅᑕᐅᔩᓐᓇᕐᓂᖏᓐᓂᒃ ᓯᑯᒃᑯᑦ ᐃᑳᕆᐊᖅᑐᕐᕕᐅᕙᒃᑐᑦ
ᐅᓗᕆᓇᖏᑦᑐᒥᒃ (ᑕᕆᐅᕐᒥ ᓯᑯᒃᑯᑦ)
ᕿᑭᖅᑕᒐᓱᖕᓂᖓᐅᕙᓐᓂᖏᓐᓂ. ᖃᓄᑐᐃᓐᓇ ᓯᑯ
ᓱᕋᖅᑎᖅᑕᐅᕙᖕᓂᖏᓐᓂ ᓯᕗᓂᑦᑎᐊᖓᒍᑦ ᑐᒃᑐᓄᑦ
ᐊᑐᖅᑕᐅᔪᓇᐊᖅᑳᕐᓂᖏᓐᓂ
ᐅᖅᓚᓗᓐᓃᑦ ᒪᑐᐃᖓᑎᑦᑎᕙᒃᑐᑦ ᐃᒪᕐᒥᒃ ᐊᑯᓂᐅᓗᐊᖅᑐᖅ
ᐊᔪᕈᑕᐅᖃᑦᑕᕐᒪᑕ ᑐᒃᑐᓄᑦ ᐃᑳᕈᓐᓇᕐᓂᖅ, ᑕᒪᒃᑯᐊᓗ
ᐃᓱᒪᒋᔭᐅᕗᑦ ᓱᕋᖅᑎᕆᖃᑕᕐᓂᕐᒥᒃ ᐱᑕᖃᕆᐊᓕᒻᒪᕆᖕᓂᒃ
ᓇᐅᒃᑰᕐᕕᐅᔭᕆᐊᖃᕐᓂᖏᓐᓂᒃ.

ᓯᑯᒃᑯᑦ ᐃᑳᕆᐊᖅᑐᕐᕚᑦ ᓯᑯᕙᓪᓕᐊᑲᓂᕈᓐᓇᖅᓱᖑᕗᑦ (ᐊᒥᓱᖏᑐᓂ
ᐅᓪᓗᓂ) ᓯᑯᐃᔭᖅᑕᐅᓚᐅᕋᓗᐊᖅᑐᓂᒃ (ᓲᕐᓗ ᓯᓚᓗᒃᔪᐊᓚᐅᕐᓂᕐᒧᑦ)
ᖃᖓᐅᑎᓪᓗᒍ ᐊᒻᒪᓗ ᖃᓄᑎᕆᐅᓚᐅᖅᑐᒥᒃ ᓯᑯᒃᑲᓂᕈᓇᓲᖑᖕᒪᑕ
ᑕᐃᒪᐃᓂᖓᓄᓪᓗ ᓱᕋᖅᑎᖅᑕᐅᓯᒪᖃᑕᕈᓇᖅᐳᑦ ᑕᐃᒃᑯᐊ
ᐃᓕᑕᕆᔭᐅᓂᖏᓐᓂ ᐱᑕᖃᕆᐊᓕᒻᒪᕆᖕᓂᒃ ᓱᕋᖅᑎᖅᑕᐅᖏᓪᓗᑎᒃ
ᐱᑕᖃᕆᐊᓕᒻᒪᕇᑦ ᐊᑐᖅᑕᐅᕙᖕᓂᖏᓐᓂ, ᑕᐃᒃᑯᐊ ᑭᓱᐊᓂ
ᑕᕆᐅᕐᒥ ᓯᑯᓯᒪᔭᕆᐊᖃᕐᓂᖏᑦ ᐱᑕᖃᕆᐊᓕᒻᒪᕇᑦ ᖃᓄᐃᑦᑐᓃᕈᓐᓇᕈᑎᒃ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᓐᖑᑦ ᐊᑐᖅᑕᔭᕆᐊᖃᓕᕐᓂᖏᓐᖑᑦ ᓇᒪᓈᕐᓗᑎᒃ.

ᐊᐅᓚᑦᑎᔩᓐᓇᕐᓂᖏᑦ ᓯᑯᐃᔭᖅᑎᑦᑎᑕᐃᓕᒪᕖᕈᓐᓇᕐᓂᖅ,
ᖃᓄᐃᖓᓕᓂᖏᓪᓗ ᑕᒪᑯᐊ ᓱᕐᑯᐃᔭᖅᑕᐅᓗᐊᕋᔭᖏᓐᓂᖏᑦ,
ᑐᑭᓕᐅᖅᑕᐅᓯᒪᕙᓐᓂᐊᖅᑐᑦ ᐊᖏᕈᑎᑎᒍᑦ ᑕᒪᐃᓐᖑᑦ
ᐃᓚᒋᔭᐅᔩᓕᒪᖑᑦ, ᐃᓚᐅᓗᑎᒃ ᐊᖑᓇᓱᒃᑏᑦ ᑲᑎᒪᔨᕋᖭᖏᑦ ᐊᒻᒪᓗ
ᐊᖑᓇᓱᒃᑎᒃᑯᑦ, ᑕᐃᒪᖓᓪᓗ ᖁᑖᕈᕆᐊᖅᑕᐅᕙᓪᓕᐊᖏᓐᓇᕐᓗᑎᒃ
ᖁᑖᓂᒃ ᖃᐅᔮᒪᔭᐅᔩᒃᓴᓂᒃ ᑐᑭᓯᕙᓪᓕᐊᓂᖏᓐᓂᒃ
ᐊᑐᐃᓐᓇᐅᕙᓪᓕᐊᓂᖏᓐᓂ.</td><td>ᐱᔾᔨᑎᖃᖅᑐᑦ ᑕᐃᒃᑯᓂᖓ ᓄᓇᕐᔪᐊᕐᒥ ᓴᐳᓐᓂᐊᖅᐱᑦ ᐃᓚᕐᖁᒃᑐᑦ
ᐅᓗᕆᐊᓇᕐᓂᖏᑦ: 4.3 ᓯᓚᓗᒡᔪᐊᕐᓂᖅ ᐊᒻᒪᓗ 11.4
ᓯᓚᓗᒡᔪᐊᖃᑦᑕᕐᓂᖅ ᐊᒻᒪᓗ ᐅᓕᖃᑕᕐᓂᖅ

ᓱᕋᒃᑎᖅᑕᐅᖃᑕᕐᓂᖏᑦ ᐱᑕᖃᕆᐊᓕᒻᒪᕇᑦ ᓯᑯᒃᑯᑦ
ᐃᑳᕆᐊᖅᑐᕐᕕᐅᕙᓐᓂᖏᑦ, ᑕᒪᒃᑯᐊ ᐱᓕᕆᕕᐅᔭᕆᐊᖃᖅᑐᑦ
ᖃᖓᑐᐃᓐᓇᖅ ᓯᑯᖃᕐᓂᖓᓂᒃ ᓯᑯᕙᓪᓕᐊᓂᖓᓂᓗᓐᓂ ᑦ
(ᑕᐅᕙᓃᓐᓇᔭᓚᐅᖅᑐᓂᓗᓐᓂᑦ ᐱᑕᖃᓕᓈᕈᐅᖅᑐᓂᓪᓗᓐᓂᑦ ᓯᑯᐃᑦ
ᓱᓕ ᐱᓕᕆᕕᐅᓚᐅᖏᓐᓂᖏᓐᓂ ᓱᓕ) ᑐᒃᑐᐃᑦ ᐊᑐᕆᐊᖃᖅᑕᖏᓐᓂ
ᓯᑯᒥᒃ ᓇᒨᖓᕈᓐᓇᕐᓂᖏᓐᖑᑦ. ᐊᑕᐅᔫᖅᑕᐅᓗᓂ ᓱᕋᐃᔪᖃᖅᐸᑦ ᓯᑯᒥᒃ,
ᑕᐃᒪᐃᓕᐅᕐᕕᐅᖏᓐᓇᕈᑎᒃ ᐊᑯᓂᐅᔩᓐᓇᕐᒪᑦ ᓯᑯᐃᓪᓗ
ᐱᑕᖃᕈᓂᕈᓐᓇᖅᓱᑎᒃ ᐊᑐᓚᒃᓴᐅᔩᓐᓇᐃᓕᓗᑎᒃ
ᐃᑳᕆᐊᖅᑐᕐᕕᐅᔩᓐᓇᐃᓕᓗᑎᒃ ᐱᔾᔨᑕᐅᔩᓐᓇᖅᑐᓂᒃ
ᐱᐅᔩᓅᕈᑕᐅᔩᓐᓇᕐᓂᖅ ᐆᒪᐃᓐᓇᕈᓐᓇᕐᓂᖏᓐᖑᑦ ᐊᒻᒪᓗ
ᐊᒥᓱᕈᖅᐸᓪᓕᐊᔩᓐᓇᕐᓂᖏᓐᖑᑦ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᓐᖑᑦ.</td></tr>
</table>

8. ᐆᒃᑐᕋᖅᑕᐅᔪᓐᓇᕐᓂᖏᑦ ᐱᕙᓪᓕᐊᓂᖏᑦ

ᒪᓕᒡᒍᑎᒃ ᓯᐊᔭᑉ ᒪᓕᒐᖏᓐᓂᒃ, ᐊᐅᓚᑦᑎᔨᐅᔪᖅ ᒥᓂᔅᑕᐅᔪᖅ ᐅᓂᒃᑳᖃᑕᕆᐊᖃᖅᑐᖅ ᐊᑐᓕᖅᑎᑦᑎᓂᖏᓐᓂᒃ ᐊᒥᓱᕈᖅᔾᓂᕐᒧᑦ ᖃᓄᐃᓕᐅᕈᑎᒃᓴᖏᓂᒃ ᐊᒻᒪᓗ ᐱᕙᓪᓕᐊᓚᐅᕐᓂᖏᓐᓂᒃ ᑐᑭᒐᕆᔭᐅᔪᓄᑦ ᑎᑭᐅᓯᒪᓂᖏᓐᓂᒃ ᑕᓪᓕᒪᐃᑦ 5 ᐊᕐᕋᒎᐃᑦ ᓇᓂᑕᒫᖅ.

ᓇᐅᑎᖅᑐᖅᑕᐅᕙᓪᓕᐊᓂᖏᑦ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ ᑐᒃᑐᖃᕐᕕᐅᕙᖕᓂᖏᑦ ᑕᒪᒃᑯᓂᖓ ᑐᖓᕕᖃᖅᑐᑦ ᐱᓕᕆᐊᕆᔭᐅᓯᒪᑦᑎᐊᕐᓂᖏᓐᓂᒃ ᓇᒍᓇᐃᑯᑕᖏᑦ ᖃᐅᔨᓴᖅᑕᐅᖃᑕᕆᐊᖃᕐᓂᐊᖅᑐᑦ ᑕᐃᒪᒃ ᖃᐅᔨᒪᔾᔪᑎᒃᓴᖃᑦᑎᐊᕐᓂᐊᕐᒪᑕ ᖃᐅᔨᓴᕈᑕᐅᑦᑎᐊᖃᑕᕐᓂᐊᖅᑐᓂᒃ ᐊᑑᑎᖃᕐᓂᖏᓐᓂᒃ ᐊᐅᓚᑕᐅᓂᖏᓐᓄᑦ, ᐋᕿᒋᐊᖅᑕᐅᖃᑦᑕᕐᒍᑎᒡᒍ ᐱᔭᕆᐊᖃᕐᓂᖓᒥᒃ ᑲᔪᓯᕙᓪᓕᐊᓂᖏᓐᓂ. ᐱᕙᓪᓕᐊᓂᖏᓐᓂ ᓇᒍᓇᐃᒃᑯᑕᕆᔭᐅᔪᑦ ᓴᙱᑎᑕᐅᔪᑦ ᐱᕕᒃᓴᐅᔪᓐᓇᕐᒪᑦ ᑐᑭᓕᐅᕈᑕᐅᔪᓐᓇᕐᓂᕐᒧᑦ ᐊᒻᒪᓗ ᐆᒃᑐᕋᐅᔪᓐᓇᕐᓂᕋᑦ ᐱᕙᓪᓕᐊᓂᖏᓐᓂᒃ ᑎᑭᐅᑎᔪᓐᓇᕐᓂᕐᒧᑦ ᑕᐃᑯᓄᖓ ᐊᒦᓱᓂᖏᑦ ᐊᒻᒪᓗ ᓇᓃᓐᓂᖏᑦ ᖃᐅᔨᔪᓐᓇᕐᓂᖅ.

ᐊᕙᒃᑐᖅᓯᒪᓂᖏᑦ 10. ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ ᐊᒥᓱᕈᖅᔾᓂᕐᒧᑦ ᖃᓄᐃᓕᐅᕈᑎᒃᓴᓂᒃ ᐱᓕᕆᐊᕆᔭᐅᓂᖏᓐᓄᑦ ᐆᒃᑐᕋᐅᑏᑦ.

ᐊᒥᓱᓂᖏᓐᓂᒃ ᓇᓂᓐᓂᖏᓐᓂᓗ ᖃᐅᔨᔪᒪᓂᖅ	**ᐱᓕᕆᐊᖑᓂᖏᓐᓂ ᐆᒃᑐᕋᐅᑎᖏᑦ ᖃᐅᔨᔪᓐᓇᕐᓂᕐᒧᑦ**
ᓄᖃᖅᑎᑕᐅᓗᑎᒃ ᐊᒥᒋᔫᓂᖅᐸᓪᓕᐊᓂᖏᑦ ᐅᖓᑕᓃᑦᑐᑦ ᐱᐅᓯᕆᓐᓇᒋᕆᔭᖏᓐᓂᒃ ᐊᓯᔾᔨᖅᓯᒪᓂᖏᑦ ᐊᒻᒪᓗ ᑕᐃᒪᐃᓕᖓᑎᑕᐅᓗᑎᒃ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖃᕐᕕᐅᕙᖕᓂᖏᑦ ᑕᒪᒃᑯᓂᖓ ᑭᒡᓕᖃᕐᕕᐅᔪᑐᖃᐅᕙᒃᑐᓂᒃ ᑕᐃᒪᖓᑦ ᐱᑕᖃᕐᕕᐅᕙᖕᓂᖏᓐᓂ.	ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ ᓇᐅᑦᑎᖅᑐᖅᑕᐅᖃᑕᕐᓗᑎᒃ ᐊᒥᓱᓂᖏᓪᓗ ᖃᓄᐃᓕᖓᕙᖕᓂᖏᑦ ᑐᑭᓯᐅᒪᔭᐅᖃᑕᕐᓗᑎᒃ ᑐᑭᓕᐅᖅᑕᐅᓯᒪᓗᑎᒡᓗ.. ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖃᕐᓂᖏᑦ ᐊᒥᓱᕈᖅᐸᓪᓕᐊᓗᑎᒃ ᑕᐃᒪᖓᑦ ᐊᒥᓲᕙᓚᐅᖏᑦᑐᓂᒃ, ᑕᒪᐃᓐᓂᒡᓗ ᑐᒃᑐᐃᑦ ᐊᒥᓲᓂᖏᑦ ᐱᑕᖃᐃᓐᓇᖅᑐᑦ ᑭᒡᓕᖃᕐᕕᐅᒐᔪᙱᓐᓂᖏᓐᓂ.
ᑕᒪᐃᓐᓂᒃ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ ᓄᓇᓖᑦ ᓯᓚᑕᓃᑦᑐᑦ ᖃᓄᐃᖏᑦᑎᐊᕈᓐᓂᑦ, ᐱᑕᖃᐃᓐᓇᕈᓐᓇᕈᑦᓗᓂᓪᓗ ᓯᕗᓂᒃᓴᒥ ᐃᓅᔫᒪᕐᒥᔪᓄᑦ.	ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ ᑐᒃᑐᖃᕐᕕᐅᕙᖕᓂᖏᑦ ᑕᒪᒃᑯᓂᖓ ᐊᒥᓱᕈᖅᐸᓪᓕᐊᔪᓐᓇᖅᑐᑦ ᐊᒥᒋᔫᓐᓂᕈᓐᓇᖅᑐᑦ ᐱᑕᖃᐃᓐᓇᕈᓐᓇᖅᓱᑎᒃ ᐊᒻᒪᓗ ᐊᒥᓱᕈᑲᓐᓂᕈᓐᓇᖅᓱᑎᒃ ᐱᐅᓯᑐᖃᕐᒧᑦ ᐊᒻᒪᓗ ᐃᓄᐃᑦ ᐱᓕᕆᕖᖃᕐᓂᖏᓐᓂᒃ, ᐃᓄᙵᓪᓗ ᐃᑲᔪᖅᑕᐅᔭᕆᐊᖃᕈᓐᓂᖅᓱᑎᒃ, ᐱᑕᖃᐃᓐᓇᕈᓐᓇᕐᒥᒃ ᐊᑯᓂᐅᓂᐊᓕᖅᑐᒧᑦ.
ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ ᓄᓇᓖᑦ ᖃᓂᒋᔭᖏᓐᑐᑦ ᐃᓅᔾᔪᑎᒃᓴᕆᔭᐅᖃᑕᐅᓇᓐᓂᐊᕐᒪᑕ ᐃᓄᖕᓄᑦ/ᐃᓄᐃᑦ ᐊᖑᓇᓱᙵᐅᔪᓐᓇᕐᒧᑎᒃ, ᒪᓕᒃᑐᓂᒃ ᐊᒥᓱᓂᖏᓐᓂᒃ ᖃᓄᐃᓕᖓᓕᕐᓂᖏᓐᓂᒃ.	ᑐᒃᑐᓯᐅᕐᕕᐅᔪᓐᓇᕐᓂᖏᑦ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ ᒪᓕᒃᐸᒃᑐᑦ ᐊᒥᓱᓂᖏᓐᓂ ᐊᒥᒋᔫᓂᖃᕈᓐᓇᕐᓂᖏᓐᓂᓗ, ᑕᒪᒃᑯᐊ ᐱᔾᔪᑎᒧᖓᐅᕙᖏᑦᑐᑦ ᑕᒪᐃᓐᓂᒃ ᑐᒃᑐᐃᑦ ᐊᒥᒋᔫᓐᓂᕈᑕᐅᕙᖕᓂᖏᓐᓄᑦ. .
ᑕᐃᒪᐃᓕᖓᑎᑕᐅᓗᑎᒃ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ ᑕᒪᐃᓐᓂ ᑲᓇᑕᒥ ᐱᑕᖃᕐᓂᖏᓐᓂ ᒫᓐᓇ.	ᐱᑕᖃᕆᙶᓂᖏᑦ ᓇᓂ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ ᒪᓐᓇᐅᔪᖅ ᑕᐃᒪᐃᓕᖓᕗᑦ ᓱᓕ ᐅᕙᓪᓗᓐᓃᑦ ᐊᒥᓱᕈᓇᐊᖅᓯᒪᓪᓗᑎᒃ.
ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ ᓇᒧᖓᐅᔪᓐᓇᖅᑕᖅᑐᑎᒃ ᓇᓂᑐᐃᓐᓇᖅ ᓄᓇᒥ ᐊᒻᒪᓗ ᑕᕆᐅᕐᒥ ᓯᑯᒃᑯᑦ (ᑕᒫᓂ ᐊᑯᓐᓂᖏᓐᓂ ᕿᑭᖅᑕᒐᓴᐃᑦ) ᐱᐅᓯᑐᖃᕐᒥᒎᑦ ᐅᔾᔨᖅᑐᑦᑎᐊᕈᒪᓪᓗᒋᑦ (ᐊᔪᖅᑎᑕᐅᑕᐃᓕᒪᓂᖏᑦ ᓇᒧᖓᐅᖃᑕᐃᓐᓇᕈᓐᓇᕐᓂᖏᓐᓂᒃ/ᐊᓯᐊᓄᑦ ᓅᑎᑕᐅᔭᕆᐊᖃᖏᓪᓗᑎᒃ) ᓇᔪᖅᐸᒃᑕᖏᓐᓄᑦ ᐊᒻᒪᓗ ᓇᒧᖓᐅᖃᑕᐅᓇᕐᓂᖏᓐᓄᑦ ᓯᓚᓗᒡᔪᐊᖅᑐᐊᑑᓕᕈᓐᓇᕐᓂᕐᒧᑦ	ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ ᓇᒧᖓᐅᖃᑕᐅᓇᕐᓂᖏᑦ ᐊᔪᕈᑎᖃᕈᓐᓇᖅᑐᑦ, ᐃᓱᐊᒎᓴᖅᑕᐅᕙᒍᓐᓂᕋᒥᒃ ᐃᓄᐃᑦ ᑭᓇᒃᑯᑐᐃᓐᓇᐃᑦ ᐱᓕᕆᕙᖕᓂᖏᓐᓄᑦ ᐃᓄᖕᓄᑦᓗᓐᓃᑦ ᓴᓇᔭᐅᓯᒪᔪᑦ ᐊᑐᖅᑕᐅᕙᖕᓂᖏᓐᓄᑦᐊᓯᐊᒍᑦ ᐊᓯᔾᔩᓇᔭᓚᐅᖅᑐᑦ ᐱᐅᓯᑐᖃᕐᓇᖅᑕᖏᓐᓂᒃ ᐅᕙᓗᓐᓃᑦ ᓇᔪᖅᐸᒃᑕᑐᖃᕆᔭᖏᓐᓂᒃ.

8.1 ᐋᕿᒋᐊᖅᑕᐅᓯᒪᔪᓂᒃ ᐊᐅᓚᑦᑎᔪᓐᓇᖅᑕᕐᓂᖅ

ᐊᑐᓕᖅᐸᓪᓕᐊᔪᓐᓇᕐᓂᖅ ᐋᕿᒋᐊᖅᑕᐅᖃᑕᕈᓐᓇᖅᑐᓂᒃ ᐊᐅᓚᑦᑎᓂᖏᓐᓂᒃ ᐸᕐᓇᐅᑎᖃᕐᔪᑎᒃ ᐊᒻᒪᓗ ᐊᑐᓕᖅᑎᑦᑎᖃᑕᕐᔪᑎᒃ ᖃᐅᔾᔭᐅᕙᓪᓕᐊᔪᓂᒃ, ᐃᑲᔪᖅᓱᐃᖃᑕᕐᔪᑎᒡᔪ ᐋᕿᒋᐊᖅᑕᐅᖃᑕᓇᐊᖃᕐᓂᖏᓐᓂᒃ ᖃᐅᔾᔭᐅᔪᖃᖅᑎᓪᓗᒍ ᓄᑖᓂᒃ, ᖃᐅᔾᔭᐅᑦᑎᐊᒃᑲᓐᓂᖅᑐᓂᒡᔪᓐᓂᑦ ᑕᐃᒪᐃᓕᖕᒐᕙᖕᓂᐊᖅᑐᑦ. ᐋᕿᒋᐊᖅᑕᐅᔪᓐᓇᖅᑐᓂᒃ ᐊᐅᓚᑦᑎᓂᖃᕈᑎᒃ, ᐃᓕᑕᕆᔾᔭᐅᔪᓐᓇᕐᒪᑕ ᐊᒥᒐᔪᐊᖅᑐᓂᒃ ᖃᐅᔾᒪᔾᔭᐅᓂᖏᓐᓂᒃ, ᓇᔪᓇᕐᓂᖏᓐᓂᒃ, ᑲᔪᓯᒪᑦᑎᐊᕐᓂᖏᓐᓂᒃ ᐊᒻᒪᓗ ᑲᔪᓯᒪᑦᑎᐊᖏᓂᖏᓐᓂᒃ, ᖃᐅᔾᔅᖅᑕᐅᔪᓐᓇᕐᓂᐊᕐᒪᑕ ᓯᕗᓪᓕᐅᑎᑕᐅᔾᔨᐊᖃᕐᓂᖏᑦ ᖃᐅᔾᒪᔾᔭᐅᑦᑎᐊᕆᐊᖃᖅᑐᑦ ᐱᐅᓯᒋᐊᕈᑕᐅᓂᐊᕐᒪᑕ ᓴᕿᑎᑕᐅᕙᓪᓕᐊᔪᓐᓇᖅᑐᓂᒃ ᖃᐅᔾᒪᔾᔭᑎᒃᓴᖃᑦᑎᐊᕐᔪᑎᒃ ᑲᔪᓯᔪᒥᒃ ᐃᓕᑦᑎᕙᓪᓕᐊᖏᓐᓇᕐᔪᑎᒃ. ᐃᓕᑦᑎᕙᓪᓕᐊᓂᖏᓐᓂ, ᐊᑐᓕᖅᑎᑦᑎᓂᕐᒧᑦ ᐱᓕᕆᐊᖑᕙᒃᑐᑦ ᐋᕿᒋᐊᖅᑕᐅᖃᑕᕈᓐᓇᕐᓂᐊᖅᑐᑦ ᐱᐅᓯᒋᐊᕈᑕᐅᔪᑎᒃ ᐊᐅᓚᑦᑎᕙᖕᓂᕐᒧᑦ ᖃᐅᔨᓕᐅᕈᑕᐅᕙᖕᓂᐊᖅᑐᓄᑦ .

ᐅᔾᔨᖅᑐᑦᑎᐊᕈᒪᓪᓗᓂ ᐋᕿᒋᐊᖅᑕᐅᖃᑕᕈᓐᓇᖅᑐᑦ ᐊᐅᓚᑦᑎᔾᔪᑎᒃᓴᐃᑦ ᐊᑐᖅᑕᐅᑦᑎᐊᕈᓐᓇᕐᓂᖏᓐᓂᒃ ᐊᒥᕐᓱᕐᔫᓂᕐᒧᑦ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᓐᓂᒃ, ᐱᓕᕆᖃᑎᖑᑦᑎᐊᕋᔭᖅᑐᑦ ᑲᓇᑕᒥᒃ ᓄᓇᕗᒻᒥᒃ ᓄᓇᑦᓯᐊᕐᒥᒃ ᒐᕙᒪᖏᑦ, ᐃᓄᐃᑦ ᐊᒻᒪᓗ ᐃᓄᕕᐊᓗᐃᑦ ᐃᓄᑯᑎᖏᑦ ᐊᓯᖏᓪᓗ ᐃᓚᒋᔭᐅᕝᕗᑦ ᓴᐳᓂᐊᖃᑦᑕᕐᓂᕐᒧᑦ, ᐆᒪᐃᓐᓇᖁᔨᓂᖏᓐᓄᑦ, ᐊᓪᓴᒪ ᐊᒥᕐᓱᕐᓯᓂᖏᓐᓄᑦ ᑲᔪᓯᔭᕆᐊᖃᕐᓂᐊᖅᑐᑦ ᐱᓕᖃᑎᖏᑦᑎᐊᕐᔪᑎᒃ.

9. ᐅᖃᐅᓯᒃᓴᐃᑦ ᐱᓕᕆᐊᒃᓴᐅᑦ ᐸᕐᓇᐅᑎᒃᓴᓕᕆᓂᕐᒧᑦ

ᑕᐃᒃᑯᐊ ᐱᓕᕆᐊᒃᓴᐅᑦ ᐸᕐᓇᐅᑎᓕᐊᑦ ᑐᕌᖓᓂᐊᖅᑐᑦ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᓕᕆᓂᕐᒧᑦ ᓴᕿᑎᑕᐅᓂᐊᖅᑐᑦ ᑕᐃᑰᓇ ᐆᒪᔪᐃᑦ ᐊᒥᖕᒋᓗᐊᓕᕐᓂᖏᓐᓂᐅᑦ ᐃᐅᓕᒪᓂᒃ ᑎᑎᖃᖃᕐᕕᒃᑯᑦ ᑕᐃᓕᒪᐃᑦ 5 ᐊᕐᕌᒍᐃᑦ ᓇᓂᑕᒫᖅ ᐊᒥᕐᓱᕐᓯᐊᕆᔾᔭᐅᓂᖏᓐᓂᐅᑦ ᖃᐅᔨᓕᐅᕈᑎᒃᓴᐃᑦ.

ᐅᓇᓕᑦ ᐃᓚᒌᔾᔭᐅᓂᖏᑦ ᐱᕙᓪᓕᐊᑎᑕᐅᓂᖏᓐᓂ ᑲᒪᒋᔾᔭᐅᓂᖏᓐᓂᓗ ᑖᒃᑯᐊ ᐱᓕᕆᐊᒃᓴᓂᒃ ᐸᕐᓇᐅᑎᓕᐊᑦ ᑲᔪᓯᔭᕆᐊᖃᕈᓐᓇᖕᓂᐊᖅᑐᑦ ᐊᒥᕐᓱᖅᐸᓪᓕᐊᔪᓐᓇᕐᓂᖏᓐᓄᑦ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ.

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ᑎᑎᖃᐃᑦ ᐃᓚᒃᑳᓂᖏᑦ 1: ᐊᒃᑐᖅᑕᐅᓂᖏᑦ ᐊᕙᑎᖏᑦ ᐊᓯᖏᓪᓗ ᐆᒪᔪᐃᑦ

ᖃᓄᐃᓕᐅᕈᑎᒃᓴᐃᑦ ᐊᕙᑎᓕᕆᓂᕐᒧᑦ ᑐᑭᓯᓂᐊᕈᑕᐅᕙᒃᑐᑦ (SEA-ᖁᑦ) ᓯᐊᕗᒃᑯᑦ ᒪᓕᒐᖅᑎᒍᑦ ᐊᒥᕐᓱᕐᔫᓂᕐᒧᑦ ᐸᕐᓇᐅᑏᑦ ᑎᑎᖃᖏᑦ, ᒪᓕᖓᑕ ᑕᐃᒃᑯᓂᐊ *ᑲᓇᑕᒥ ᒥᓂᔅᑕᐃᑦ ᑎᓕᓯᓂᖏᓐᓂᒃ ᐊᕙᑎᓕᕆᓂᕐᒥᒃ ᑐᑭᓯᓂᐊᕈᑕᐅᕐᖁᔨᓂᖅ ᐊᑐᐊᒐᕆᔭᐅᔪᓂᒃ, ᐸᕐᓇᐅᑎᖏᓐᓂᒃ ᐊᒻᒪᓗ ᐱᓕᕆᐊᖑᔪᒪᔪᓄᑦ ᑐᒃᓯᕋᐅᑎᓂᒃ* (Cabinet Directive on the Environmental Assessment of Policy, Plan and Program Proposals)[14]. ᑕᐃᒃᑯᐊ ᐱᔾᔪᑎᖃᕐᒪᑕ ᑐᑭᓯᓂᐊᕈᑕᐅᕙᖕᓂᖏᑦ ᐊᑐᓕᖅᑎᑦᑎᔾᔪᑕᐅᔪᒪᓂᖅ ᐊᕙᑎᓕᕆᓂᕐᒥᒃ ᐃᓱᒪᒋᔭᐅᖃᑦᖁᔭᐅᔪᓂᒃ ᓴᓇᔭᐅᔪᖃᕐᓂᐊᕐᕌᖓᑦ ᐃᓄᓕᒫᓄᑦ ᑐᕌᖓᓂᐊᖅᑐᑦ ᐊᑐᐊᒐᐃᑦ, ᐸᕐᓇᐅᑎᑦ, ᐱᓕᕆᐊᒃᓴᐃᓪᓗ ᐱᒋᐊᖅᑎᑕᐅᔪᒪᓂᖏᑦ ᐃᑲᔪᕐᓂᕐᒧᑦ ᐊᕙᑎᒧᑦ ᐱᐅᔪᓂᒃ ᐃᓱᒪᓕᐅᕈᑕᐅᖃᑦᑕᕐᖁᔨᓂᖅ ᐊᒻᒪᓗ ᖃᓄᐃᓕᖓᓕᕈᑕᐅᔪᓐᓇᕐᓂᖏᑦ ᐊᒥᕐᓱᕐᔫᕐᓂᕐᒧᑦ ᐊᒃᑐᐃᔪᓐᓇᕐᓂᖏᓐᓂᒃ ᖃᐅᔨᓴᐅᕆᐊᖃᑦᑕᕐᓗᑎᒃ ᐊᕙᑎᒥᒃ ᓇᓪᓕᐊᖕᓂᑐᐃᓐᓇᕐᓗᓐᓃᑦ ᑕᐃᒃᑯᓂ ᑲᓇᑕᒥ ᐊᒥᐊᒃᑯᓯᒪᐃᓐᓇᕐᓂᐊᖅᑐᓂᒃ ᐱᕙᓪᓕᐊᔪᓕᕆᓂᕐᒧᑦ ᖃᓄᐃᓕᐅᕈᑎᖃᓂᒃ Federal Sustainable Development Strategy’s[15] (FSDS) ᑐᕌᒐᕆᐅᔪᓂᒃ ᐊᒻᒪᓗ ᐱᔭᕇᖅᑕᐅᔪᒪᔪᓂᒃ.

ᐊᒥᕐᓱᕐᔫᓂᕐᒧᑦ ᖃᓄᐃᓕᐅᕈᑎᒃᓴᐃᑦ ᑐᕌᖓᖓᑕ ᐃᑲᔪᑕᐅᓂᖅ ᐆᒪᔪᓂᒃ ᐅᓗᕆᐊᓇᖅᑐᒥᓕᖅᑐᓂ ᐊᒻᒪᓗ ᐊᓯᖏᓐᓂᒃ ᑕᒪᐃᓐᓂᒃ ᐆᒪᔪᓂᒃ. ᑭᓯᐊᓕᑕᐅᖅ, ᐃᓕᑕᖅᓯᕙᐅᕆᕗᑦ ᖃᓄᐃᓕᐅᕈᑎᒃᓴᐃᑦ ᐱᔮᖁᑕᐅᖏᑦᑐᓂᒃ ᐱᑕᐅᓕᕈᓐᓇᕐᓂᖏᓐᓂᒃ ᐊᕙᑎᒥᒃ ᐊᒃᑐᖅᓯᓗᑕᐅᔪᓐᓇᕐᓂᖅ ᐊᓯᐊᒍᑦ ᑐᕌᒐᕆᔭᐅᔪᓂᒃ. ᐸᕐᓇᐅᑕᐅᕗᑦ ᒪᓕᖓᑕ ᑲᓇᑕᓕᒫᒥ ᓇᓗᓇᐃᒃᑯᑕᕆᔭᐅᕙᕐᑯᓂ ᐃᓱᒪᒋᔭᐅᖃᑕᐊᖃᕐᓂᖏᓐᓂᒃ ᐊᕙᑎᒥᒃ ᐊᒃᑐᖅᑕᐅᔪᖄᕐᓂᖏᓐᓂᒃ, ᐱᓗᐊᖅᑐᒥᒃ ᐊᒃᑐᖅᑕᐅᔪᓐᓇᕐᓂᖏᓐᓂ ᑐᕌᒐᕆᔭᐅᖏᑦᑐᑦ ᐆᒪᔪᐃᑦ ᐅᕝᕙᓗᓐᓃᑦ ᓇᔪᒐᕆᔭᐅᕙᒃᑐᑦ. ᑕᐃᒪᐃᓂᖓᓄᑦ ᑕᒪᒃᑯᐊ ᖃᓄᐃᓕᐅᕈᑎᒃᓴᐃᑦ ᐊᕙᑎᓕᕆᓂᕐᒥᒃ ᑐᑭᓯᓂᐊᕈᑕᐅᕙᒃᑐᑦ ᐊᑐᖅᑕᐅᕙᒃᐸᑦ ᖃᓄᐃᓕᐅᕈᑎᒃᓴᐅᓂᖏᓐᓄᑦ, ᐊᒻᒪᓗ ᓇᐃᓈᖅᓯᒪᔪᓂᒃ ᐅᓂᒃᑳᖅᑕᐅᑲᓂᖅᓱᑎᒃ ᑖᒃᑯᐊ ᑎᑎᕋᖅᓱᒪᓂᖓᑕ ᐊᑖᓂ.

ᓂᕈᐅᒋᔭᐅᕗᖅ ᐱᓕᕆᐊᒃᓴᐃᑦ ᑖᕝᕙᓂ ᐅᓂᒃᑳᖅᑕᐅᔪᑦ ᐊᒥᕐᓱᕐᔫᓂᕐᒧᑦ ᖃᓄᐃᓕᐅᕈᑎᒃᓴᓂᒃ ᐃᑲᔫᑕᐅᓂᐊᖅᑐᑦ ᐊᒥᓱᐸᓐᓂᒃ ᐅᒪᔪᓂᒃ, ᐊᕙᑎᖏᓐᓂᓪᓗ. ᒪᕐᕉᖏᒃ ᐆᒪᔫᒃ ᑎᑎᕋᖅᓯᒪᔫᒃ ᑕᐃᑯᓈ ᐆᒪᔪᐃᑦ ᐊᒥᓱᖏᓗᐊᓕᕐᓂᖏᓐᓄᑦ ᒪᓕᒐᖅᑎᒍᑦ-ᓯᐊᕗᑉ ᒪᓕᒌᒍᑦ ᓇᐃᓈᕐᓗᒍ, ᐱᑕᖃᕐᒪᑕ ᐊᒻᒪᓗ ᐱᓪᒪᕆᐅᔪᓂᒃ ᐃᓕᑕᕆᔭᐅᓗᑎᒃ ᓯᖃᕆᐊᖃᑕᐅᓂᕐᒥᒃ ᑕᕆᐅᐅᕐᒥ ᐃᑳᕐᕕᒃᓴᓄᑦ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᙳᓄᑦ. ᑕᐃᒃᑯᐊ ᐃᓗᐃᓪᓕᒥ ᑭᓪᓕᓂᕐᒥᓗ ᑐᒃᑐᖏᑦ (Dolphin and Union-ᖁᑦ ᑐᒃᑐᖏᑦ) ᐃᑳᕆᐊᖅᑐᖃᑦᑕᕐᒪᑕ ᐊᑯᓐᓂᖏᓐᓂ ᑭᓪᓕᓂᕐᒥᒃ ᐊᒻᒪᓗ ᓄᓇᖅᐱᐅᓂᖓᓂᒃ ᐊᕿᕿᔫᑉ ᐃᑰᒍᑦ ᐊᒻᒪᓗ ᓇᓄᐃᑦ ᓇᔪᐃᕙᖓᑕ ᑕᕆᐅᕐᒥ ᓯᑯᒥᒃ ᑕᒪᐃᓐᓂᑲᓴᒃ ᐊᕿᕿᒍᒥ. ᑕᕆᐅᕐᒥ ᓯᑯ ᐱᓪᒪᕆᐊᓗᒋᕗᖅ ᐊᓯᖏᓐᓄᑦ ᐊᒥᓱᓄᑦ ᐊᔾᔨᒌᖏᑦᑐᑎᓄᑦ ᑎᖏᒥᐊᕐᓄᑦ, ᓂᕿᒃᓴᖅᓯᐅᖅᐸᕐᑐᓂᒃ ᑕᕆᐅᕐᒥᙳᖅᑐᓂᒃ ᓯᑎᔪᓂᒃ ᓯᓚᑎᓕᖕᓂᓱᕐᓗ ᐅᕝᕚᓗᕐᓂᒃ/ᐊᒻᒨᒪᔪᕐᓂᒃ. ᓱᕐᓗ ᐅᒃᑑᑎᒋᓗᒍ, ᓇᐅᔮᑦ/ᖃᑯᓪᓗᐃᑦ ᐃᓕᔭᐅᓯᒪᖓᑕ ᓅᑦᓕᒫᓕᕐᒧᑦ ᐊᑐᖅᑕᐅᓗᑎᒃ ᓯᐊᕗᒃᑯᑦ ᒪᓕᒐᐃᑦ, ᑕᕆᐅᕐᒥ ᓯᑯᒥᒃ ᓂᕿᒃᓴᖅᓯᐅᖅᐸᖕᒥᒃ. ᐊᓯᖏᑦᑕᐅᖅ ᑕᕆᐅᕐᒥᒃ ᓯᑰᒥᖃᑕᕐᒥᑕ ᒪᑯᐊ ᒥᑏᑦ, ᑭᖓᓕᓪᓗ, ᐊᒡᒋᐊᕐᔪᐃᓪᓗ (Gilchrist and Rebortson, 2000; Lovvorn et al, 2015). ᑕᐃᒃᑯᐊᑕᐅᖅ ᐅᒃᐱᑦᔪᐊᑦ ᑕᑯᔭᐅᖃᑦᑕᖅᓯᒪᔪᑦ ᓯᑯᔪᐃᑦᑐᒦᑦᑐᑦ ᐊᐅᒃᑲᕐᓂᕐᒥ ᐊᒻᒪᓗ ᑎᕆᒥᐊᖃᕐᔫᒍᓂᖏᓐᓂ ᑕᓪᒃᑯᐊ ᓂᕿᒃᓴᖅᓯᐅᕐᕕᒋᕙᒃᓯᒋᑦ (Therrien et al. 2011). ᒪᕐᕉᒃ ᑕᕆᐅᕐᒥᐅᑖᒃ ᐆᒪᔫᒃ ᐃᓱᒪᒋᔭᐅᓕᕐᒥᔪᑦ ᐃᓕᔭᐅᔪᓐᓇᕐᓂᖅ ᓯᐊᕗᐅᑉ ᒪᓕᒐᖓᒍᑦ ᐃᑲᔪᖅᑕᐅᔪᓐᓇᕐᒥᔪᑦ ᓴᐳᓐᓂᐊᖅᑕᐅᓂᖏᓐᓂᑦ ᑕᒪᒃᑯᓄᖓ ᑕᕆᐅᕐᒥ ᓯᑯᖁᕚᖃᐃᑦ ᐱᑕᖃᕐᓇᖅᓯᒪᓂᖏᓐᓂ ᐃᓕᑕᕆᔭᐅᓯᒪᓂᖏᓐᓂ ᑖᕝᕙᓂ ᑎᑎᖃᖁᑎᖏᓐᓂ, ᑕᐃᒃᑯᐊ ᓇᑦᑏᑦ. ᑕᒪᒃᑯᐊ ᓇᑦᑏᑦ ᐊᖏᔪᐊᓗᖏᒃ ᓯᖁᓯᐅᑕᐅᖓᑕ, ᑕᐃᒃᑯᐊ ᐊᐃᕖᑦ, ᐱᑕᖃᖏᑲᓗᐊᖅᑎᓪᓗᒋᑦ ᐱᖓᓇᖅᐸᓯᖓᓂ ᐅᑭᐅᖅᑕᖅᑑᑉ, ᐊᑐᖃᑕᐅᕗᑦ ᐃᑐᓂᒃᑯᑦ ᑕᐅᕙᓂ ᓯᑯᒥᒃ ᐱᖓᓇᖅᐸᓯᖓᓂ ᑕᓪᓗᕈᑎᐅᑉ ᐃᒫᓂ. ᐊᒻᒪᑕᐅᖅ ᓱᓕ, ᐃᓄᐃᑦ ᐊᒻᒪᓗ ᐃᓄᕕᐊᓗᐃᑦ ᐊᐅᑏᖃᑕᐃᓇᖅᐸᑦ ᑕᕆᐅᑉ ᓯᑯᐊᒍᑦ, ᑕᒪᐃᓕᐅᖅᐸᒃᓱᑎᓪᓗ ᓱᓕ, ᑕᒪᐃᓂᖓᓄᑦ ᓴᐳᓐᓂᐊᖅᑕᐅᓂᖏᑦ ᐊᒻᒪᓗ/ᐅᕝᕙᓗᓐᓃᑦ ᐊᒥᒃᑲᓱᐊᕈᑎᖏᑦ ᑕᒪᑯᓂᐊ ᐱᓪᒪᕆᐅᔪᓂᒃ ᐃᑲᔪᕐᓂᖃᕐᓂᐊᖅᑐᑦ ᐱᑕᖃᐃᓐᓇᕈᓐᓇᕐᓂᖏᓐᓄᑦ ᑎᑭᑕᐅᖃᑕᕈᓐᓇᕐᓂᖏᓄᓪᓗ ᐱᐅᓯᑐᖃᕐᒥᒍᑦ ᓂᕿᒃᓴᑎᕙᒃᑕᖏᑦ.

ᓴᐳᓐᓂᐊᖅᑕᐅᓯᒪᓂᖏᑦ ᑕᕆᐅᕐᒥ ᓯᑯᒃᑰᕐᕕᒃᓴᐃᑦ ᐱᑕᖃᐃᓐᓇᖅᑮᑦ ᐃᑲᔪᕐᓂᖃᕐᓂᐊᖅᑐᑦ ᑖᒃᑯᓂᖓ ᑐᒃᑐᓂᒃ ᐊᒥᕐᓱᕐᐸᓪᓕᐊᔪᓐᓇᕐᓂᖅ . ᓂᕿᒃᓴᖅᓯᐅᖅᐸᖕᓂᖏᑦ ᐆᒪᔪᐃᑦ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᓐᓂᒃ, ᓲᕐᓗ ᐊᒪᕈᐃᑦ ᐃᑲᔪᖅᑕᐅᔪᓐᓇᕐᒥᔪᑦ ᐊᒥᕐᓱᕆᐊᕈᑎᒃ ᑐᒃᑐᐃᑦ ᐱᑕᖃᕐᓂᖏᑦ ᐱᓗᐊᖅᑐᒥᒃ ᐊᓯᖏᑦ ᐆᒪᔪᐃᑦ ᔫᕐᓗ ᐅᒥᖕᒪᐃᑦ ᐊᒥᒃᓱᔪᓐᓃᖅᓯᒪᓂᕈᑎᒃ. ᑭᓯᐊᓂᓕᑕᐅᖅ, ᐊᒥᕐᓱᕐᐸᓪᓕᐊᖕᒫᕈᑎᒃ ᐱᐅᖏᑦᑐᒥᒃᑕᐅᖅ ᐊᒃᑐᖅᑕᐅᔪᓐᓇᕈᓐᓇᕐᓂᖅ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ ᐊᒥᓱᐊᓕᕈᑎᒃ ᓂᕿᒃᓴᖅᓯᐅᖅᐸᒃᑐᑦ ᐆᒪᔪᐃᑦ. ᐊᐃᐹᒍᓕ, ᐊᒥᔫᔪᓂᕈᑎᒃ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ ᐱᐅᖏᑦᑐᓂᒃ ᐊᒃᑐᐃᔪᓐᓇᕈᓐᓇᕐᓂᖅ ᑐᒃᑐᓯᐅᖅᐸᒃᑐᓂᒃ ᐆᒪᔪᓂᒃ. ᐆᒪᔪᐃᑦ ᐊᑐᖅᐸᒃᑐᑦ ᑕᐃᒃᑯᖓᑦᓴᐃᓇᖅ ᓇᔪᖅᐸᒃᑕᖏᓐᓂ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᓐᓂᒃ ᑭᓯᐊᓂ ᐊᓯᙳᖏᓐᓂᒃ ᓂᕿᒃᓴᖃᕐᓗᒍᒍᑎᒃ ᔫᕐᓗ

14 www.canada.ca/en/environmental-assessment-agency/programs/strategic-environmental-assessment/cabinet-directive-environmental-assessment-policy-plan-program-proposals.html
15 www.fsds-sfdd.ca/index.html#/en/goals/

ᑕᐃᒃᑯᐊ ᐅᒥᖓᐃᑦ, ᐊᒥᓱᕈᓇᐊᕈᑕᐅᔪᓐᓇᕐᒥᔪᑦ ᓴᐳᓐᓂᐊᖅᑕᐅᖃᑦᑕᕐᓂᖏᓐᓄᑦ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ ᐱᐅᖏᒃᑐᒥᒃ ᐊᒃᑐᖅᑕᐅᓯᒪᔪᓐᓇᕐᒥᖕᒪᑕ ᖃᓂᓗᐊᓕᕈᑎᒃ ᐅᒥᖕᒪᖕᓄᑦ. ᐆᒪᔪᐃᑦ ᑕᐃᒃᑯᖕᒐᑦᓴᐃᓐᓇᖅ ᓂᕿᒃᓴᖃᔫᖑᓂᖏᓐᓂ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᓐᓂᒃ, ᓱᕐᓗ ᑕᒪᒃᑯᐊ ᑲᖑᐃᑦ, ᐊᒥᔫᓂᖅᓴᐅᓕᕈᑎᒃ ᑐᒃᑐᐃᑦ ᐱᓂᖅᓴᐅᓇᓱᐊᕈᑕᐅᓕᕈᓐᓇᓇᕗᑦ ᓂᕿᒃᓴᓂᒃ ᐊᑐᐃᓐᓇᐅᓂᖏᓐᓂᒃ ᓇᔪᒐᓇᔭᐅᔪᓂᒃ ᐊᒻᒪᓗ ᐱᕈᖅᑐᖃᕐᓂᖏᓐᓂ.

ᐊᓯᖏᓐᓂᒃ ᐱᐅᖏᑐᓂᒃ ᐊᒃᑐᖅᑕᐅᓂᐊᕋᓱᒋᔭᐅᖏᓪᓚᑦ ᓂᕆᐅᒋᔭᐅᔪᓂᒃ ᐊᑐᓕᖅᑎᑕᐅᓇᔭᕈᑎᒃ ᑖᒃᑯᐊ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ ᐊᒥᓱᕈᖅᔫᓂᕐᒧᑦ ᖃᓄᐃᓕᐅᕈᑎᒃᓴᐃᑦ

ᐅᑯᐊ ᐊᒥᓱᕈᖅᔫᓂᕐᒧᑦ ᖃᓄᐃᓕᐅᕈᑎᒃᓴᓂᒃ ᐃᑲᔪᕐᓂᖃᕐᓂᐊᖅᑐᑦ ᑎᑭᐅᑎᔪᓐᓇᕐᓂᖅ ᑐᕌᒐᓇᔭᐅᔪᓄᑦ ᐱᔭᑏᖅᑕᐅᔪᒪᓂᖏᓄᓪᓗ *ᑲᓇᑕᒥ ᒥᓂᔅᑕᐃᑦ ᑎᓕᓯᓂᖏᓐᓂᒃ ᐊᐅᑎᓕᓇᓂᕐᒥᒃ ᑐᑭᓯᓂᐊᕈᑕᐅᖁᔮᓂᖅ ᐊᑐᐊᒐᓇᔭᐅᔪᓂᒃ, ᐸᕐᓇᐅᑎᖏᓐᓂᒃ ᐊᒻᒪᓗ ᐱᓕᕆᐊᖑᔪᓕᒪᔪᓂᒃ ᑐᒃᓯᕋᐅᑎᖏᓐᓂᒃ ᑲᓇᑕᒥ* (ᐊᕙᑎᓕᕆᔨᒃᓴᐊᒃᑯᑦ ᑲᓇᑕᒥ 2013). ᐱᓗᐊᖅᑐᒥᒃ, ᖃᓄᐃᓕᐅᕈᑎᒃᓴᐃᑦ ᐃᑲᔪᑕᐅᓂᐊᖅᑎᓪᓗᒋᑦ ᑲᓇᑕᐅᑉ ᓚᕙᒪᒃᑯᖏᓐᓄᑦ ᐱᓂᐊᕐᓂᖅᓴᕐᓂᖏᓐᓄᑦ ᐱᑕᖃᓕᖅᑎᑦᑎᕙᓪᓕᐊᒃᑲᓐᓂᕈᒪᓂᖅ ᐆᒪᔪᓂᒃ ᖃᓄᐃᖏᑦᑎᐊᖅᑐᓂᒃ, ᓴᐳᓐᓂᐊᖅᑕᐅᓗᑎᒃ ᓇᔪᒐᕙᒃᑕᑐᖃᖏᑦ ᐊᒻᒪᓗ ᓴᐳᓐᓂᐊᑕᐅᓗᑎᒃ ᐱᐅᓯᑐᖃᖅᑎᒍᑦ ᐱᑕᖃᐃᓐᓇᕐᓂᖏᑦ ᓄᓈᓗᒃᑎᓐᓂ.

ᑎᑎᖃᐃᑦ ᐃᓚᒃᑲᓂᖓᑦ 2: ᐃᓚᒌᔭᐅᓂᖓᑦ ᐃᓄᐃᑦ ᐊᒻᒪᓗ ᐃᓄᕕᐊᓗᐃᑦ ᓴᓇᔭᐅᓂᖓᓂ ᐊᒥᓱᕈᖅᓯᐊᕆᔭᐅᓂᖏᓐᓄᑦ ᖃᓄᐃᓕᐅᕈᑎᒃᓴᐃᑦ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ

- ᓄᓇᕗᒻᒥ, ᓄᓇᑦᓯᐊᕐᒥᓗ 9-ᖑᖓᒪᑕ ᓄᓈᓖᑦ:), (ᓄᓇᕗᒻᒥ: ᐊᐅᓱᐃᑦᑐᖅ, ᖃᐅᓱᐃᑦᑑᑉ, ᐅᖅᓱᖅᑑᑉ, ᑕᓗᕐᔪᐊᑦ, ᑯᒡᓗᖕᑐᒃ, ᐃᖃᓗᒃᑑᑦᓯᐊᖅ; ᓄᓇᑦᓯᐊᕐᒥ: ᐃᑳᕼᐆᑉ, ᐅᓗᒃᕼᐊᖅᑑᖅ ᐊᒻᒪᓗ ᐸᐅᓗᑑᑉ), ᒪᕐᑮᓪᓗᑎᒃ ᐊᕕᒃᑐᖅᓯᒪᓂᖏᓐᓂ ᐊᖑᓇᓱᒃᑎᓕᒫᓂᒃ ᑲᑎᒪᔩᔭᐅᔪᑦ (ᕿᑎᖅᒥᐅᑦ ᐊᕕᒃᑐᖅᓯᒪᓂᖓᓂ ᑲᑎᒪᔨᖏᑦ) ᐊᒻᒪᓗ ᕿᑭᖅᑖᓗᖕᒥ ᐊᖑᓇᓱᒃᑎᓕᒪᑦ ᑲᑎᒪᔨᖏᑦ) ᐊᒻᒪᓗ ᒪᕐᑮᓪᓗᑎᒃ ᐆᒪᔪᓕᕆᓂᕐᒥᒃ ᐊᐅᓚᑦᑎᔨᐅᖃᑕᐅᓂᕐᒧᑦ ᑲᑏᒫᔨᑦ (ᓄᓇᕗᒻᒥ ᐆᒪᔪᓕᕆᔨᕐᔪᐊᑯᑦ ᑲᑎᒪᔨᖏᑦ (ᐆᒪᔪᓕᕆᔨᕐᔪᐊᒃᑯᑦ) ᐊᒻᒪᓗ ᐆᒪᔪᐃᑦ ᐊᐅᓚᑕᐅᕙᓂᖏᓐᓄᑦ ᐅᖃᐅᓯᕆᐊᖅᑏᑦ ᑲᑎᒪᔨᖏᑦ (ᓄᓇᑦᓯᐊᕐᒥ) ᐊᐅᓚᑦᑎᔨᐅᕕᖕᓂᖃᑕᐅᔪᑦ ᐱᑕᖃᕐᕕᐅᔪᓂ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᓂᒃ. ᑕᒪᒃᑯᐊ ᓄᓈᓖᑦ ᑕᒪᕐᒥᒃ ᐃᓚᐅᕙᒃᑐᑦ ᐊᒥᓱᕈᖅᔪᓂᕐᒧᑦ ᐸᕐᓇᐅᑕᐅᕙᓪᓕᐊᔪᓂᒃ ᑲᒪᒋᔭᐅᔪᓂᒃ. ᐊᒻᒪᑕᐅᖅ, ᑐᒃᑐᔭᖅᑐᕐᒥᐅᓂ ᐊᖑᓇᓱᒃᑏᑦ ᑲᑎᒪᔩᑦᑎᖏᑦ ᓱᓚᑕᓃᒃᑲᓗᐊᖅᓱᑎᒃ ᑐᒃᑐᖃᕐᕕᐅᓂᖏᓐᓂ ᑕᒪᒃᑯᓂᖓ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᓐᓂᒃ ᑐᑭᓯᓂᐊᕐᕕᐅᓚᐅᕐᒥᔪᑦ ᑎᑎᕋᖅᑕᐅᕙᓪᓕᐊᓂᖏᓐᓂ ᐊᒥᓱᕈᖅᔪᓂᕐᒧᑦ ᖃᓄᐃᓕᐅᕈᑎᒃᓴᓂᒃ 2016-ᒥ ᐊᒻᒪᓗ 2020-ᒥ

- ᐊᕙᑎᓕᕆᔨᕐᔪᐊᒃᑯᓐᓄᑦ ᓯᓚᐅᓪᓗ ᐊᓯᔾᔨᖅᐸᓪᓕᐊᓂᖓᓄᑦ ᑲᓇᑕᒥ (ᐊᕙᑎᓕᕆᔨᕐᔪᐊᒃᑯᑦ) ᐃᓚᐅᔪᒪᓚᐅᕐᒪᑕ ᐃᓄᐃᑦ ᖃᐅᔨᒪᔭᑐᖃᖏᓐᓂᒃ, ᐱᐅᓯᑐᖃᕐᓂᒃ ᐊᕙᑎᒥᒃ ᐊᕙᑎᒥᐅᑕᓂᓪᓗ ᖃᐅᔨᒪᔭᐅᓂᖏᓐᓂᒃ ᐊᒻᒪᓗ ᓄᓈᓖᑦ ᖃᐅᔨᒪᓂᖏᑦ ᖃᐅᔨᒪᔨᑕᕆᔭᐅᓂᖏᓐᓄᓪᓗ ᓴᓇᔭᐅᕙᓪᓕᐊᓂᖏᓐᓂe ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ ᐊᒥᓱᕈᖅᔪᓂᕐᒧᑦ ᖃᓄᐃᓕᐅᕈᑎᒃᓴᓂᒃ.

- ᑲᒪᔨᐅᖃᑕᐅᔪᑦ ᑲᑎᒪᔨᕋᓛᑦ ᓴᕿᑎᑕᐅᓚᐅᖅᑐᑦ ᐃᓚᖃᖅᓱᑎᒃ ᒪᓕᒐᓕᕆᔨᐅᓂᕐᒥᒃ ᑲᒪᔨᐅᔪᓂᒃ ᑕᒪᒃᑯᓂᖓ *ᐆᒪᔪᐃᑦ ᐊᒥᓱᖏᓗᐊᓕᕐᓂᖏᓐᓄᑦ ᒪᓕᒐᓕᕆᓂᕐᒥᒃ* (ᓱᐊᔭᒃᑯᑦ ᒪᓕᒐᖏᓐᓂᒃ) ᐊᑐᓕᖅᑎᑕᐅᕙᓪᓕᐊᓂᖏᓐᓄᑦ ᑐᒃᑐᐃᑦ ᐊᐅᓚᑕᐅᓂᖏᑦ. ᑲᑎᒪᔨᕋᓛᑦ ᑖᒃᑯᐊ ᑐᑭᒧᐊᒃᑎᐅᕙᒃᑐᑦ ᐅᖃᐅᓯᕆᐊᖅᑎᐅᕙᒃᓱᑎᓪᓗ ᖃᓄᐃᓕᐅᓚᖓᓂᖏᓐᓂᒃ, ᐊᑐᐊᒐᕆᔭᐅᔪᓂᒃ, ᒐᕙᒪᐅᖃᑎᒌᒃᑐᓄᑦ ᐃᓱᒪᓘᑕᐅᔪᓂᒃ ᐊᒻᒪᓗ ᐊᑐᒐᒃᓴᕆᔭᐅᔪᓐᓇᖅᑐᓂᒃ ᐱᔾᔪᑎᖃᖅᑐᓂᒃ. ᑖᒃᑯᐊ ᑲᑎᒪᔨᕋᓛᑦ ᐃᓚᖃᖅᐳᑦ ᐆᒪᔪᓕᕆᔨᕐᔪᐊᒃᑯᑦ ᑲᑎᒪᔨᖏᓐᓂ (ᓄᓇᕗᒻᒥ) ᐊᒻᒪᓗ ᐆᒪᔪᐃᑦ ᐊᐅᓚᑕᐅᓂᖏᓐᓄᑦ ᐅᖃᐅᓯᕆᐊᖅᑎᑦ ᑲᑎᒪᔨᖏᓐᓂᒃ (ᓄᓇᑦᓯᐊᕐᒥ). ᑲᑎᒪᔨᕋᓛᑦ ᑖᒃᑯᐊ ᑎᒃᑯᐊᖅᑕᐅᓯᒪᕗᑦ ᐅᖃᐅᓯᕆᐊᖅᑎᐅᕙᒃᓱᑎᒃ ᐃᓄᐃᑦ/ᐃᓄᕕᐊᓗᐃᓪᓗ ᓄᓇᖏᓐᓄᑦ ᐃᓚᐅᑎᑕᐅᓪᓚᓇᕆᐊᖃᕐᓂᖏᓐᓄᑦ.

- ᓄᓇᓕᖕᓂ ᐊᖑᓇᓱᒃᑏᑦ ᑲᑎᒪᔨᕋᓛᖏᓐᓂ ᐊᒻᒪᓗ ᑲᑐᔾᔨᖃᑎᒌᖏᓐᓂᒃ ᑲᑎᒪᔨᕋᓛᖏᑦ/ᐊᖑᓇᓱᒃᑎᒃᑯᑦ) ᑕᐃᒪᓐᓂ ᐃᓚᒌᔭᐅᕙᖕᓂᖏᓐᓂ ᑎᑎᕋᖅᑕᐅᕙᓪᓕᐊᓂᖏᓐᓂ ᐱᒻᒪᕆᐅᔪᑦ ᐃᓚᒌᔭᐅᓂᐊᖅᑐᑦ ᑎᑎᕋᖅᓯᒪᔪᓂ ᐊᒥᓱᕈᖅᓯᐊᕆᔭᐅᓂᖏᓐᓄᑦ ᖃᓄᐃᓕᐅᕈᑎᒃᓴᓂᒃ, ᑕᐃᒃᑯᓂᖓ ᐃᓕᑕᕆᔭᐅᓂᖏᓐᓂᒃ ᐱᑕᖃᕆᐊᖃᕐᒪᕆᒃᑐᑦ ᓇᔪᖓᕆᔭᐅᕙᖕᓂᖏᑦ, ᐱᒻᒪᕆᐊᓘᖓᒪᑦ ᐊᑯᓂᐊᓗᒃ ᖃᐅᔨᒪᔪᐊᓘᖓᒪᑕ ᑕᒪᒃᑯᓂᖓ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᓕᕆᓂᕐᒥᒃ ᐊᒻᒪᓗ ᐅᓂᒃᑳᕆᓇᑦᑎᐊᕐᒪᑕ. ᑕᕝᕙᓇ ᐃᓚᒋᖖᓂᖏᑦ ᐊᖑᓇᓱᒃᑏᑦ ᑲᑎᒪᔨᕋᓛᖏᑦ/ᐊᖑᓇᓱᒃᑎᒃᑯᓪᓗ ᐃᑲᔪᕐᓂᖃᕐᒪᑕ ᐊᓯᐊᒍᑦ ᑕᑯᑎᑦᑎᖃᑕᕆᓇᕐᓂᖏᓐᓂᒃ, ᐃᓱᒪᒋᔭᐅᓂᖏᓐᓂᒃ, ᐃᓱᒪᒃᓴᖅᓯᐅᕈᑎᖃᕆᓇᕐᓂᖏᓐᓂᒃ ᐃᓂᒃᓴᖃᑦᑎᐊᕐᓂᐊᕋᓗᐊᕐᒪᖔᑕ ᐊᒻᒪᓗ ᐊᑐᖃᑦᑕᕐᒪᑎᒃ ᐊᔾᔨᒌᖏᑕᖏᓐᓂᒃ ᐃᓱᒪᖃᕈᓯᕆᔭᐅᔪᓂᒃ ᐃᓄᖕᓄᑦ, ᐊᒻᒪᓗ ᐃᒃᐱᒍᓱᑦᑎᐊᖃᑕᐅᓇᐊᖃᕐᓂᖏᓐᓄᑦ ᓱᓕᔪᓇᔭᖏᓐᓂᒃ, ᐃᓚᒋᐊᕈᑕᐅᓂᕐᒧᑦ ᐃᑲᔫᕐᓂᓕᐊᓘᕙᒃᑐᓂᒃ ᖃᓗᓈᓄᑦ ᖃᐅᔨᓴᕈᓯᕆᔭᐅᕙᖕᓂᖏᓐᓄᑦ. ᐃᓱᒪᒋᓪᓗᒋᑦ ᐊᒃᓱᕈᕐᓇᖅᑐᓂᒃ ᐸᕐᓇᐅᑕᐅᖃᑦᑕᕆᐊᓕᑦ ᐊᒻᒪᓗ ᐊᑭᑐᖃᑦᑕᕐᓂᖏᑦ ᐃᖃᓇᐃᔭᕐᓂᕐᒧᑦ ᖁᑦᑎᒃᑐᒥᒃ ᐅᑭᐅᖅᑕᖅᑐᒥ, ᑕᒪᒃᑯᐊ ᓈᓴᖅᑕᐅᓂᖏᓐᓂ ᖃᐅᔨᕆᐊᖅᑕᐅᕙᒃᑐᑦ ᐊᒻᒪᓗ ᖃᐅᔨᓴᖅᑕᐅᕙᖕᓂᖏᑦ ᖃᐅᔨᓴᖅᑎᓄᑦ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ ᐱᔭᕆᐊᑐᔪᐊᓗᖃᑦᑕᕐᒪᑕ, ᑕᒪᐃᓐᓂᑦᑎᐊᕐᓗ ᐃᑲᔪᖅᑕᐅᖃᑦᑕᖅᓯᒪᖕᒪᑕ ᐃᓚᐅᓂᖏᓐᓄᑦ ᐃᓄᐃᑦ ᖃᐅᔨᒪᔭᑐᖃᖏᑦ/ᐱᐅᓯᑐᖃᕐᓂᒃ ᐊᕙᑎᒥᒃ ᐊᕙᑎᓕᕆᓂᕐᒥᓪᓗ ᖃᐅᔨᒪᔭᐅᔪᑦ ᐊᒻᒪᓗ ᓄᓈᓖᑦ ᖃᐅᔨᒪᓂᖏᓐᓄᑦ.

- ᓱᕗᓪᓕᕐᒥ ᐱᒋᐊᓕᓴᖅᓱᑎᒃ ᑲᑎᒪᔪᓇᐅᓚᐅᖅᑐᑦ ᓄᓇᓕᖕᓂ (ᓄᕕᐱᕆ 2011 ᐊᒻᒪᓗ ᒫᔾᔨ 2012-ᒥ) ᖃᐅᔨᑎᑕᐅᔪᒪᓪᓗᑎᒃ ᐊᖑᓇᓱᒃᑏᑦ ᑲᑎᒪᔨᕋᓛᖏᑦ/ᐊᖑᓇᓱᒃᑎᒃᑯᖏᓪᓗ ᓄᓈᓪᓗ ᐱᔾᔪᑕᐅᓂᖏᓐᓂᒃ ᐊᒥᓱᕈᖅᔪᓂᔪᒪᓂᕐᒥᒃ ᖃᓄᐃᓕᐅᕈᑎᒃᓴᐅᓂᐊᖅᑐᓂᒃ, ᖃᓄᕐᓗ ᐃᓚᐅᓂᖏᓐᓂ ᐊᒻᒪᓗ ᖃᐅᔨᒪᔭᓂᖏᑦ ᐱᒻᒪᕆᐅᓂᖃᕐᒪᖔᑕ ᑲᒪᒋᔭᐅᓂᖏᓐᓂ ᑕᒪᒃᑯᐊ.

- ᑕᒪᒃᑯᓄᖓ ᐸᕐᓇᒃᐸᓪᓕᐊᓂᖏᓐᓄᑦ ᑲᑎᒪᓚᐅᖅᑐᑦ ᔭᓗᓇᐃᒥ, ᓄᓇᑦᓯᒥ ᑕᒫᓂ ᐊᒃᑑᐱᕆᒥ 2012-ᒥ ᐃᓚᒌᔭᐅᓗᑎᒃ ᓄᓇᑦᓯᐊᕐᒥ ᓄᓇᕗᒻᒥᓗ ᓚᕙᒪᖏᓐᓂᒃ ᓴᓇᔭᐅᓯᒪᓂᐊᖅᑐᓂᒃ ᑭᒡᓚᖅᑐᐃᔨᖏᑦ, ᐊᒻᒪᓗ ᒥᕐᖑᐃᖅᓯᕐᕕᓕᕆᔨᒃᑯᓪᓗ ᑲᓇᑕᒥ, ᐃᒃᓯᕙᐅᑕᕆᔭᐅᔪᓪᓗ ᑕᐃᑲᖓᑦ ᐊᖑᓇᓱᒃᑏᑦ ᑲᑎᒪᔨᕋᓛᖏᓐᓂᒃ/ᐊᖑᓇᓱᒃᑎᒃᑯᓪᓗ ᑲᑎᒪᔨᖏᓐᓂ. ᐱᔾᔪᑎᖃᓚᐅᖅᑐᑦ ᑐᓴᐅᒪᖃᑕᐅᑎᔪᒪᓂᖅ

ᐱᐅᓂᖅᐸᓂᒃ ᐊᑐᐃᓐᓇᐅᔪᓂᒃ ᖃᐅᔨᒪᔾᔪᑎᒃᓴᓂᒃ ᑕᒪᒃᑯᓂᖓ ᐱᔾᔪᑎᖃᖅᑐᓂᒃ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᓂᒃ ᐊᒻᒪᓗ ᐃᑲᔪᕈᓐᓇᕐᒪᖔᑖ ᐱᐅᓂᖅᐹᖑᔪᓐᓇᖅᑐᓂᒃ ᖃᓄᐃᓕᐅᕈᑎᒃᓴᐅᔪᓐᓇᖅᑐᓂᒃ ᐊᑐᕈᓐᓇᕐᒪᖠᑕ ᖃᐅᔨᑎᑦᑎᕙᓪᓕᐊᖃᑕᕈᓐᓇᕐᓂᕐᒧᑦ, ᐊᒻᒪᓗ ᑐᓴᕐᕕᐅᖃᑕᕈᓐᓇᕐᓂᖏᓐᓂᒃ ᓄᓇᓖᑦ ᐸᕐᓇᐅᑕᐅᓂᖏᓐᓂ ᓄᓇᓕᖕᓄᑦ ᑲᒪᒋᔭᐅᓂᖏᓐᓂᑦ ᑲᑎᒪᕖᐅᓂᐊᖅᑐᑦ ᑕᒪᒃᑯᓂᖓ ᑐᒃᑐᖃᕐᕕᐅᕙᒃᑐᓂ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᓂᒃ. ᐃᒃᓯᕙᐅᑕᕆᔭᐅᔪᑦ ᐃᑲᔪᓚᐅᖅᑐᑦ ᓇᓗᓇᐃᔭᐃᓂᖅ ᖃᓄᖅ ᖃᐅᔨᒪᔾᔪᑎᒃᓴᐃᑦ ᐊᑐᐃᓐᓇᐅᓕᕈᓐᓇᕐᒪᖔᑕ, ᖃᓄᕐᓗ ᐊᐃᑦᑐᖅᑕᐅᖃᑕᕈᓐᓇᕐᒪᖔᑕ ᐊᒻᒪᓗ ᖃᓄᖅ ᐱᐅᓂᖅᐸᓂᒃ ᐃᓚᐅᔫᓐᓇᕐᒪᖔᑕ ᓄᓇᓖᓐᖏᑦ. ᑕᐃᒪᐃᓕᐅᕆᐊᖃᓪᓚᕆᓚᐅᕐᒪᑕ ᐅᔾᔨᖅᑐᑦᑎᐊᕈᓚᓂᕐᖏᒧᑦ ᓄᓇᓕᖕᓂ ᐱᓕᕆᖃᑎᒌᖕᓂᐊᖅᑐᑦ ᑲᑎᒪᓂᖏᑦ ᑲᔪᓯᑦᑎᐊᕈᓐᓇᕐᑯᓗᒋᑦ. ᑲᑎᒪᔪᑦ ᐅᖃᐅᓯᑲᔅᓲᔭᓚᐅᖅᑐᑦ ᐊᒥᓱᓂᖏᓂᒃ ᐊᒻᒪᓗ ᓇᓃᓐᓂᖏᓂᒃ ᖃᐅᔨᒪᔭᐅᓂᖏᓐᓂ ᐊᒻᒪᓗ ᑎᑎᕋᖅᑕᐅᕙᓪᓕᐋᖅᓯᑎᒃ ᑐᕌᓚᔭᐅᔭᒪᔪᑦ ᐊᑐᖅᑕᐅᕙᖕᓂᐊᖅᑐᑦ ᑐᑭᓯᓂᐊᕐᕕᐅᓂᖏᓐᓂ ᓄᓇᓕᖕᓂ ᐃᑲᔪᖅᑎᐅᓂᐊᖅᑐᑦ ᑲᑎᒪᓂᐊᖅᑐᓂ.

- ᓄᓇᓕᖕᓂ ᐃᑲᔪᖅᑎᐅᓂᐊᖅᑐᑦ ᑲᑎᒪᓂᖏᑦ ᑲᔪᓯᓕᓚᐅᖅᑐᑦ ᑕᒪᐃᓐᓂ ᓄᓇᓕᖕᓂ (ᕕᕗᐊᕆᒥᒡᓗ ᒫᔾᔨᒥᒡᓗ 2013) ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᓐᓂ ᑐᒃᑐᖃᕐᕕᐅᕙᖕᓂᖏᓐᓂ ᐃᓚᒋᒡᒋᑦ ᐊᖑᓇᓱᒃᑏᑦ ᑲᑎᒪᔩᕋᕐᓛᖏᓐᓂᒃ/ᐊᖑᓇᓱᒃᑎᒃᑯᓪᓗ ᑲᑎᒪᔨᖏᓐᓂ, ᐃᓄᓕᒫᖏᓐᓂᒡᓗ. ᑕᐃᒃᑯᐊ ᑲᓇᑕᒥ ᐆᒪᔪᓕᕆᓂᕐᒧᑦ ᐱᔨᑦᑎᕋᐃᔾᔨᑦ ᑲᑎᖅᓱᐃᓚᐅᖅᑐᑦ ᐃᓄᐃᑦ ᖃᐅᔨᒪᔪᖃᖏᑦ/ᐱᐅᓯᑐᖃᕐᓂᒃ ᐊᕙᑎᒥᒃ ᐊᕙᑎᓕᕆᓂᕐᒥᒡᓗ ᖃᐅᔨᒪᔭᐅᔪᑦ ᐊᒻᒪᓗ ᓄᓇᓖᑦ ᖃᐅᔨᒪᓂᖏᑦ ᐊᑐᐃᓐᓇᕈᐃᓪᓗᑎᒡᓗ ᓄᓇᖑᐊᕐᓂᒃ ᖃᐅᔨᒪᔾᔪᑎᒃᓴᓂᒃ, ᐊᑐᖅᑕᐅᖃᑦᑕᖅᑐᓂᒃ ᑕᒪᑦᓴᐃᓐᓇᖅᑕᐅᖅ ᖃᔨᐅᓴᖅᑎᖏᓐᓄᑦ ᑎᑎᕋᖅᑕᐅᕙᓪᓕᐊᓂᖏᓐᓂ ᐊᒥᓱᕈᖅᓯᐊᕆᔭᐅᓂᖏᓐᓄᑦ ᖃᓄᐃᓕᐅᕈᑎᒃᓴᐃᑦ. ᑕᐃᑯᐊ ᐃᓄᐃᑦ/ᐃᓄᕕᐊᓗᐃᓪᓗ ᐃᓱᒪᒋᔭᖏᑦ, ᖃᐅᔨᒪᔭᖏᑦ, ᖃᐅᔨᒪᔨᑕᕆᔭᐅᓂᖏᓪᓗ ᐊᑐᖅᑕᐅᓚᐅᖅᑐᑦ ᒪᒃᑯᓄᖓ:
    - o ᑎᑎᕋᖅᑕᐅᕙᓪᓕᐊᓂᖏᓐᓄᑦ ᐊᒦᓱᓂᖏᑦ ᐊᒻᒪᓗ ᓇᓃᓐᓂᖏᑦ ᖃᐅᔨᔪᓐᓇᕐᓂᕐᒥᒃ ᑐᕌᓚᔭᐅᓂᖏᑦ
    - o ᓇᓗᓇᐃᖅᑕᐅᓂᖏᑦ ᓄᓇᐃᑦ ᓯᑯᐃᓪᓗ ᐊᑐᖅᑕᐅᕙᖕᓂᖏᑦ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᓄᑦ ᓄᓇᐅᖔᑎᒎᑦ, ᐃᓚᒋᐊᕈᑕᐅᓗᑎᒃ ᐊᑐᐃᓐᓇᐅᓂᖏᓐᓄᑦ ᓈᓴᖅᑕᐅᓯᒪᓂᖏᓐᓂᒃ/ᖁᖓᓯᕈᑦᑎᖅᑕᐅᓯᒪᓂᖏᓐᓂ ᓇᓂᓐᓂᖏᓐᓂᒃ ᖃᐅᔨᒪᔾᔪᑎᒃᓴᓂᒃ
    - o ᓇᓗᓇᐃᖅᑕᐅᓂᖏᓐᓂ ᓇᔪᖓᓇᔭᐅᕙᒃᑐᑦ ᐊᒻᒪᓗ ᓯᓚᐅᑉ ᖃᓄᐃᖃᑦᑕᕐᓂᖏᑦ ᐱᒻᒪᓇᐅᔪᑦ ᑕᒪᒃᑯᓄᖓ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᓄᑦ
    - o ᓇᓗᓇᐃᖅᑕᐅᓂᖏᓐᓂ ᐅᓗᕆᐊᓇᕈᑕᐅᔪᑦ ᑕᒪᒃᑯᓄᖓ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᓄᑦ
    - o ᓇᓗᓇᐃᖅᑕᐅᓂᖏᑦ ᐊᐅᓚᑦᑎᔾᔪᑎᒃᓴᐃᑦ ᑐᕌᖓᓂᐊᖅᑐᑦ ᐊᒥᓱᕈᖅᓘᔪᓐᓇᕐᓂᕐᒧᑦ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᓐᓂᒃ

- ᒥᕐᖑᐃᖅᓯᕐᕕᓕᕆᔨᒃᑯᑦ ᑲᓇᑕᒥ ᐊᒻᒪᓗ ᓄᓇᕗᑦ ᒐᕙᒪᒃᑯᖏᑦ ᑲᑐᔾᔨᖃᑎᒋᒃᑐᑦ ᖁᑦᑎᒃᑐᒥ ᓄᓇᓕᖕᓂ ᐊᑐᕐᑯᔭᐅᔪᓂᒃ ᐸᒡᕕᓴᙳᖏᑦᑐᓂᒃ ᖃᓄᐃᓕᐅᕈᑎᒃᓴᓂᒃ ᖃᐅᔨᕙᓪᓕᕈᑕᐅᔪᓐᓇᖅᑐᓂᒃ ᑐᖓᕕᐅᕙᒃᑐᓂᒃ ᖃᓄᐃᑑᓂᖏᓐᓂᒃ ᑕᐃᒃᑯᐊ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ, ᐊᒥᓱᓂᖏᓪᓗ, ᐊᒻᒪᓗ ᓇᑭᖕᖠᖅᑐᕕᓂᐅᓇᓱᒋᔭᐅᖕᒪᖔᑕ ᐊᔾᔨᒋᔭᐅᓂᖏᓐᓄᒃ. ᐊᕙᑎᓕᕆᔨᕐᔪᐊᒃᑯᑦ ᑮᓇᐅᔭᒃᓴᓂᒃᖃᑦᑕᖅᓯᒪᔪᑦ ᐊᒻᒪᓗ ᐅᓂᒃᑳᓕᐅᕈᑕᐅᔭᕆᐊᓕᖕᓂᒃ ᐊᑐᒐᒃᓴᓂᒃᓯᒪᓗᑎᒃ ᓄᓇᕗᑦ ᒐᕙᒪᒃᑯᖏᓐᓄᑦ ᐊᑐᕐᓂᐊᖅᑐᓂᒃ ᑕᒪᒃᑯᐊ ᐱᓕᕆᐊᖑᓂᖏᓐᓄᑦ. ᑕᐃᒃᑯᐊ ᐱᓕᕆᐊᖑᕙᓪᓕᐊᓕᕆᕗᑦᑕᐅᖅ ᐃᓄᕕᐊᓗᐃᑦ ᓄᓇᑖᕐᕕᒋᔭᖏᓐᓂ. ᑕᒪᒃᑯᐊ ᖃᐅᔨᒪᔾᔪᑎᒃᓴᐃᑦ ᖃᐅᔨᕚᓕᕈᑕᐅᓂᐊᖅᑐᑦ ᐸᕐᓇᐃᓂᕐᒧᑦ ᐊᒥᓱᕈᖅᓘᓂᕐᒧᑦ ᖃᓄᐃᓕᐅᕈᑎᒃᓴᓄᑦ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᓕᕆᓂᕐᒧᑦ.

- ᐊᖑᓇᓱᒃᑏᑦ ᑲᑎᒪᔩᕋᕐᓛᖏᑦ/ᐊᖑᓇᓱᒃᑎᒃᑯᑦ ᑲᑐᔾᔨᖃᑎᒌᖏᓐᓂ ᑭᒡᒐᖅᑐᐃᔨᖏᑦ ᐅᖄᓚᐅᑎᒃᑯᑦ ᑲᑎᒪᓚᐅᖅᑐᑦ ᐃᓚᒋᓪᓗᒋᑦ ᑲᑎᒪᔨᕋᓛᖏᑦ ᖃᓄᐃᓕᙵᓕᕐᓂᖏᓐᓄᑦ ᐊᒥᖑᕐᒋᓗᐊᓕᐊᕐᓂᖏᓐᓄᑦ ᐆᒪᔪᐃᑦ ᑲᓇᑕᒥ (ᑳᓱᐃᒃᑯᑦ ᑲᑎᒪᔨᕋᓛᖏᓐᓄᑦ) ᐅᖃᐅᓯᐅᓂᖏᓐᓄᑦ ᑐᑭᓯᓂᐊᕈᑕᐅᑦᑎᐊᒃᑲᓂᕆᐊᖃᕐᓂᖏᑦ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ ᑐᑭᓯᓂᐊᕈᑕᐅᓚᐅᖅᑐᑦ ᓄᕕᐱᕆᒥ 2015-ᒥ. ᐊᖑᓇᓱᒃᑏᑦ ᑲᑎᒪᔩᕋᕐᓛᖏᑦ/ᐊᖑᓇᓱᒃᑎᒃᑯᑦ ᑭᒡᒐᖅᑐᐃᔨᖏᑦ ᐃᓱᒪᓕᐅᓚᐅᖅᑐᑦ ᑕᐃᒃᑯᐊ ᖃᐅᔨᒪᔭᐅᓂᖏᓐᓂᒃ ᑲᑎᖅᓱᖅᑕᐅᓯᒪᔪᑦ ᑕᐃᑰᓇ ᑲᒪᒋᔭᐅᓚᐅᕐᓂᖏᓐᓄᑦ ᐊᒥᓱᕈᖅᓯᐊᕆᔭᐅᓂᖏᓐᓄᑦ ᖃᓄᐃᓕᐅᕈᑎᒃᓴᓂᒃ (ᓄᓇᓕᖕᓂ ᑲᑎᒪᑎᑦᑎᓗᑎᒃ, ᐊᓯᖏᓐᓂᒡᓗ) ᐅᖃᐅᓯᐅᖁᔭᐅᓪᓗᑎᒃ ᑖᒃᑯᓄᖓ ᑳᓱᐃᒃᑯᑦ ᑲᑎᒪᔩᕋᕐᓛᖏᓐᓄᑦ ᐃᑲᔪᕐᓂᖃᕐᓂᐊᕐᒪᑕ ᖃᐅᔨᒪᔾᔪᑎᒃᓴᐅᑲᓂᕈᓐᓇᕐᓂᖏᓐᓂᒃ ᑐᑭᓯᓂᐊᕈᑕᐅᒐᓐᓂᖅᑐᓄᑦ.

- ᖃᐅᔨᒪᔾᔪᑎᒃᓴᐃᑦ ᑲᑎᖅᓱᖅᑕᐅᓯᒪᔪᑦ ᓄᓇᓕᖕᓂ ᑲᑎᒪᓂᖏᓐᓂ ᐊᑐᖅᑕᐅᓯᒪᓕᖅᑐᑦ ᖃᐅᔨᒪᔾᔪᑎᒃᓴᐅᓂᕐᒧᑦ ᐊᕙᑎᓕᕆᔨᕐᔪᐊᒃᑯᑦ ᐅᖃᐅᓯᒃᓴᕆᓂᐊᖅᑕᖏᓐᓄᑦ ᐱᒻᒪᕆᐅᔪᓂᒃ ᐱᓕᕆᐊᖑᓂᐊᖅᑐᓂ. ᓘᕐᓗ ᐆᒃᑐᑎᒋᓗᒍ, ᑲᓇᑕᒥ ᐊᐅᓚᓗᒃᓴᓕᕆᓂᕐᒥᒃ ᐅᐊᖕᓇᖅᐸᓯᙵᓂ ᐊᐅᓱᐃᑦᑑᑉ ᐊᒻᒪᓗ ᖃᐅᓱᐃᑦᑑᑉ, ᓄᓇᕗᒻᒥ, ᐊᕙᑎᓕᕆᔨᕐᔪᐊᒃᑯᑦ ᐊᑐᓚᐅᖅᑐᑦ ᐃᓄᐃᑦ ᖃᐅᔨᒪᔭᑐᖃᖏᓐᓂᒃ ᐊᒻᒪᓗ ᓄᓇᓖᑦ ᖃᐅᔨᒪᓂᖏᑦ ᐃᓚᖏᓐᓂ ᑭᐅᔾᔪᑎᒃᓴᓂᕈᑎᒋᓂᐊᖅᑕᖏᓐᓂᒃ.

- ᐆᒪᔪᓕᕆᓂᕐᒥᒃ ᐊᐅᓚᑦᑎᔨᐅᖃᑕᐅᓂᕐᒧᑦ ᑲᑎᒫᔨᑦ, ᐃᓚᒋᔭᐅᓗᑎᒃᑫ ᐆᒪᔪᐃᑦ ᐊᐅᓚᑕᐅᕙᖕᓂᖏᓐᓄᑦ ᐅᖃᐅᔾᔨᕆᐊᖅᑏᑦ ᑲᑎᒪᔨᖏᑦ (ᓄᓇᑦᓯᐊᕐᒥ) ᐊᒻᒪᓗ ᐆᒪᔪᓕᕆᔨᕐᔪᐊᒃᑯᑦ, ᐃᓚᒋᔭᐅᒪᓪᓚ ᐃᓱᒪᓕᐅᖅᑎᐅᖃᑕᐅᔪᓕᕐᕕᖏᓐᓂᒃ, ᑕᒪᐃᒪᓂᖓᓄᑦ

ᐆᒪᔪᓕᕆᔨᕐᔪᐸᒃᑯᑦ ᑲᑎᒪᔨᖏᑦ ᐃᓚᐅᖃᑕᕆᐊᖃᖅᐳᑦ ᐊᒻᒪᓗ ᑐᑭᓯᓂᐊᕐᕕᐅᖃᑕᕆᐊᖃᖅᓱᑎᒃ ᐱᔾᔪᑎᖃᕐᓂᖏᓐᓂᒃ ᐊᒥᓱᕈᖅᓯᐊᕆᔭᐅᓂᖏᓐᓄᑦ ᖃᐅᐃᓕᐅᕈᑎᒃᓴᖏᓐᓂᒃ ᐱᕙᓪᓕᐊᑎᑦᑎᓂᐊᕈᑎᒃ, ᐃᓚᐅᖃᑦᕐᓗᑎᓪᓗ ᑲᒪᒋᔭᐅᕙᓪᓕᐊᓂᖏᓐᓂᒃ, ᑎᑎᕋᖅᑕᐅᕙᓪᓕᐊᓂᖏᓐᓂᒃ ᐊᒻᒪᓗ ᑎᑎᕋᖅᑕᐅᕙᓪᓕᐊᓕᕞᕐᓂᖏᓐᓂ ᐊᒥᓱᕈᖅᔫᓂᕐᒧᑦ ᖃᐅᐃᓕᐅᕈᑎᒃᓴᐃᑦ.

- ᐊᒥᓱᒐᓴᐅᕗᑦ ᓄᓇᒥ ᐊᐅᓚᑦᑎᔨᐅᔪᑦ ᖁᓪᓕᐅᑎᖃᑦᑕᖅᓯᒪᔪᑦ ᑕᒪᒃᑯᓇᓂ ᑐᒃᑐᖃᕐᕕᐅᕙᒃᑐᓂ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᓂᒃ (ᐃᓄᕕᐊᓗᐃᑦ, ᐃᓄᐃᓪᓗ-ᓄᓇᖁᑎᖏᓐᓂ, ᒥᕐᖑᐃᖅᓯᕐᕕᓕᕆᔨᒃᑯᑦ ᑲᓇᑕᒥ, ᐊᕙᑎᓕᕆᔨᕐᔪᐊᒃᑯᑦ, ᑲᓇᑕᐅᑉ ᒐᕙᒪᖏᓐᓂ-ᓄᓇᓕᑐᖃᐃᓪᓗ ᐱᓕᕆᔨᖏᓐᓂ ᐅᑭᐅᖅᑕᖅᑐᒥ ᐱᕙᓪᓕᐊᔪᓕᕆᔨᖏᑦ ᑲᓇᑕᒥ, ᑲᓇᑕᒥ ᐅᓇᑕᖅᑐᒃᓯᓕᕆᔨᒃᑯᑦ, ᓄᓇᑦᓯᐊᑉ ᒐᕙᒪᐃᑦ ᐊᒻᒪᓗ ᓄᓇᕗᑦ ᒐᕙᒪᐃᑦ).
- ᐃᓄᐃᑦ ᐊᒻᒪᓗ ᐃᓄᕕᐊᓗᐃᑦ ᓄᓇᓖᑦ ᐃᓚᒋᔭᐅᒻᒪᕆᒃᐳᑦ ᖃᐅᐃᓕᐅᖃᑕᓚᖓᔪᓂᒃ ᑲᔪᓯᔪᒥᒃ ᐊᐅᓚᑦᑎᔨᐅᖃᑕᐅᓂᖏᓐᓂ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᓕᕆᓂᕐᒥᒃ ᐊᑐᕐᓗᑎᒃ ᓄᓇᑖᕐᕕᒋᔭᖏᓐᓂ ᐊᖏᕈᑎᑎᒍᑦ ᐊᐅᓚᑦᑎᔨᐅᖃᑕᐅᔪᑦ ᑲᑎᒪᔨᖏᑦ.

ᐃᓄᐃᑦᑕᐅᖅ ᓴᕿᑎᑦᑎᓯᒪᓕᖅᑐᑦ ᑲᑐᔾᔨᖃᑎᒌᖕᓂᕐᒧᑦ ᐱᓕᕆᖃᑎᒌᓪᕕᒃᓴᖏᓐᓂᒃ ᐊᕙᑎᓕᕆᔨᕐᔪᐊᒃᑯᓐᓂᒃ ᐸᖅᑭᔨᐅᓕᖅᐸᓪᓕᐊᓂᖏᓐᓄᑦ ᑲᒪᔨᐅᓂᖅ ᐆᒪᔪᓕᕆᓂᕐᒧᑦ ᐊᒻᒪᓗ ᐆᒪᔪᐃᑦ ᓇᔪᖅᐸᒃᑕᖏᓐᓂᒃ. ᖃᐅᓱᐃᑦᑐᕐᒥᐅᑦ ᐊᒻᒪᓗ ᐊᐅᓱᐃᑦᑐᕐᒥᐅᑦ ᑮᓇᐅᔭᒃᓴᓂᒃᑕᐅᓯᒪᓕᖅᑐᑦ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᓕᕆᓂᕐᒧᑦ ᒥᐊᓂᕆᔨᐅᓂᖏᓐᓄᑦ ᐱᓕᕆᐊᖑᓂᐊᖅᑐᓂᒃ ᑕᐃᑯᓂᖓ ᓇᔪᖅᑕᐅᕙᒃᑐᓂᒃ ᐸᕿᔨᐅᓂᖏᓐᓂᒃ ᒥᐊᓂᕆᔨᐅᓂᖏᓐᓂᒃ ᐱᓕᕆᐊᕆᓕᖅᑕᖏᓐᓂᒃ ᑕᐃᒪᖓᓂᒃ 2006-07-ᒥ. ᐃᑲᕼᐅᖏᒥᐅᑦ ᐅᓗᒃᕼᐊᖅᑑᕐᒥᐅᓄᓪᓗ ᐱᓕᕆᓕᓚᐅᖅᑐᑦ ᐸᕿᔨᐅᓂᕐᒥᒃ ᒥᐊᓂᕆᔨᐅᓂᖏᓐᓂᒃ ᐱᓕᕆᐊᕆᔭᐅᓂᖏᓐᓂᒃ ᑕᒫᓂ 2008-09-ᒥ. ᑕᒪᒃᑯᐊ ᐱᓕᕆᐊᖑᓂᖏᑦ ᐃᑲᔫᑕᐅᕗᑦ ᓄᓇᓕᖕᓂ ᓴᐳᓐᓂᐊᖃᑕᐅᔪᓐᓇᕐᓂᖅ ᐊᒻᒪᓗ ᓇᐅᑦᑎᖅᑐᐃᔨᐅᔪᓐᓇᕐᓂᖅ ᓴᐳᓐᓂᐊᖅᑕᐅᓗᑎᒃ ᐊᒻᒪᓗ ᖃᐅᔨᒪᔭᐅᓂᖏᓐᓂᒃ ᑐᓴᐅᒪᑎᑦᑎᔨᐅᖃᑦᕐᓗᑎᒃ ᖁᑦᑎᒃᑐᒥ ᑐᒃᑐᓕᕆᓂᕐᒥᒃ ᓄᓇᓕᖕᓄᑦ ᐊᒻᒪᓗ ᖃᐅᔨᓴᖅᑎᓄᑦ, ᐊᒻᒪᓗ ᐸᕐᓇᐅᑕᐅᓂᖏᓐᓂ ᓴᓇᔭᐅᕙᓪᓕᐊᓂᖏᓐᓂᓗ ᒥᐊᓂᕐᔪᑎᒃᓴᐃᑦ, ᐸᕿᔨᐅᔾᔪᑎᒃᓴᐃᑦ ᐊᒻᒪᓗ ᐊᐅᓚᑦᑎᓂᕐᒧᑦ ᐱᓕᕆᐊᒃᓴᐃᑦ.

ᑎᑎᖃᐃᑦ ᐃᓚᒃᑲᓐᓂᖏᑦ 3: ᐃᑲᔪᕆᐊᖅᑕᐅᔭᕆᐊᖃᕐᓂᖏᑦ ᐃᓚᒋᔭᐅᑲᓐᓂᕐᒥᔪᑦ ᐃᓕᑕᕆᔭᐅᓯᒪᔪᑦ ᐃᑲᔪᑕᐅᔪᓐᓇᖅᑐᑦ ᐊᒥᓱᕈᖅᔫᔪᓐᓇᕐᓂᕐᒧᑦ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ

ᑖᒃᑯᓂ ᑖᐅᑯᐊ ᐊᑕᓃᑦᑐᑦ ᑖᒻᒪᒃᑭᖅᓯᒪᖏᑦᑐᑦ ᑭᓯᐊᓂ ᑐᑭᓯᑎᑦᑎᐊᕈᑕᐅᔪᑦ ᐃᓚᖏᓐᓂᒃ ᐃᓱᒪᒋᔭᐅᕐᑯᔭᐅᓂᖏᓐᓂᒃ ᐊᐅᓚᑦᑎᔨᐅᖅᑕᐅᔪᓄᑦ, ᐊᖑᓇᓱᒃᑏᑦ ᑲᑎᒪᔩᕋᕐᖏᓄᑦ /ᐊᖑᓇᓱᒃᑎᒃᑯᑦ ᑭᒻᒪᖅᑐᐃᔾᖏᓐᓄᑦ ᐊᒻᒪᓗ ᓄᓇᓕᖕᓄᑦ ᖃᓄᐃᓕᐅᕈᑕᐅᕐᑯᓪᓗᒋᑦ ᐅᓗᕆᐊᓇᕈᑕᐅᔪᑦ ᐊᔪᕈᑕᐅᕙᒃᑐᓪᓗ ᐃᑲᔪᕈᓐᓇᕐᓂᕐᒧᑦ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ ᓇᔪᒐᕙᒃᑕᖏᓐᓂᒡᓗ ᑕᐃᒪᒃ ᐊᒥᓱᕈᖅᐸᓪᓕᐊᔭᓐᓇᕐᓂᐊᕐᒪᑕ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᐃᑦ. ᑎᑎᕋᖅᓯᒪᔪᑦ ᑖᒃᑯᓂ ᐃᓚᒌᐊᕈᑕᐅᕗᑦ ᐊᒥᓱᕈᖅᔫᓂᕐᒧᑦ ᐸᕐᓇᐅᑎᓄᑦ ᐊᕕᒃᑐᖅᓯᒪᓂᖏᓐᓂ ᐅᓂᒃᑳᖅᓯᒪᑦᑎᐊᒃᑲᓂᖅᓱᑎᒡᓗ ᖃᓄᐃᓕᐅᕈᑕᐅᔭᓐᓇᖅᑐᓂᒃ ᐱᔾᔪᑎᖃᖅᑐᓂᒃ ᐱᓕᕆᐊᒃᓴᓂᒃ ᐸᕐᓇᐅᑎᓕᐊᓂᒃ.

ᓇᐅᑦᑎᖅᑐᐃᓂᕐᒥᒃ		
ᐅᓗᕆᐊᓇᕈᑕᐅᔪᑦ ᐊᔪᕐᓇᕈᑏᓪᓗᓃᑦ ᖃᓄᐃᓕᐅᖅᑕᐅᓂᖏᑦ	ᐱᓕᕆᐊᖑᓂᖏᑦ	ᐱᔭᕆᐊᖃᕐᓂᖏᑦ
ᓯᓚᐅᑉ ᐊᓯᔾᔨᖅᐸᓪᓕᐊᓂᖓ	ᓇᐅᑦᑎᖅᑐᖅᑕᐅᓂᖏᑦ ᖃᐅᔨᓴᖅᑕᐅᓂᖏᓪᓗ ᐊᒃᑐᖅᑕᐅᔪᓐᓇᕐᓂᖏᑦ ᓯᓚᐅᑉ ᐊᓯᔾᔨᖅᐸᓪᓕᐊᓂᖓ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ ᓇᔪᖅᐸᒃᑕᖏᓐᓄᑦ	ᖃᐅᔨᓴᖅᑕᐅᓗᑎᒃ ᑕᒪᐃᓐᓂᑦᑎᐊᖅ ᖃᓄᖅ ᐊᒃᑐᖅᑕᐅᔪᓐᓇᕐᓂᖏᑦ ᓯᓚᐅᑉ ᐊᓯᔾᔨᖅᐸᓪᓕᐊᓂᖓ ᓇᓚᐅᑦᑖᕈᑏᑦ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᓐᓂᒃ, ᑕᒪᒃᑯᐊ ᑯᒪᐃᑦ, ᖁᐱᕐᕈᐃᑦ, ᕿᒃᑐᕆᐊᑦ ᐋᓐᓂᐊᓕᕈᑕᐅᔪᓐᓇᕐᓂᖏᓪᓗ, ᑕᕆᐅᕐᒥᓗ ᓯᑯᒥ ᐊᓯᔾᔨᕈᓐᓇᖅᑐᑦ, ᐃᒪᐃᓪᓗ ᓇᐅᑰᖃᑦᑕᕐᓂᖏᓪᓗ ᓴᖑᓂᖏᑦ/ᑰᖕᓂᖏᑦ.
		ᑐᑭᓕᐅᖅᑕᐅᓂᖏᑦ ᓇᐅᑦᑎᖅᑐᖅᑕᐅᔪᓇᐊᖅᖢᑦ ᓯᓚᐅᑉ ᐊᓯᔾᔨᖅᐸᓪᓕᐊᓂᖓᓄᑦ ᓇᔪᕐᓇᔭᐅᔪᑦ ᐸᒃᕕᓴᒃᑕᐅᔪᓐᓇᕐᓂᖏᑦ/ᐊᓯᔾᔨᕈᑕᐅᔪᓐᓇᕐᓂᖏᑦ ᓄᓇᒥ ᓄᓇᖦᓯᐊᕐᒥᓗ ᐱᓕᕆᐊᕆᔭᐅᕙᓐᓂᖏᑦ ᖃᐅᔨᓴᕐᓂᕐᒥᒃ ᐊᕙᑎᒥᒃ ᐊᕙᑎᒥᑕᐃᓪᓗ ᐊᒃᑐᖅᑕᐅᓴᕋᐃᑦᑐᓇᕐᓂᖏᓐᓂᒃ ᓯᓚᐅᑉ ᐊᓯᔾᔨᖅᐸᓪᓕᐊᓂᖓ ᑐᑭᓯᔭᐅᑦᑎᐊᒃᑲᓐᓂᕐᓗᓐᓗᒋᑦ ᖃᓄᐃᓕᖓᓂᖏᒃ ᓇᔪᖅᑕᐅᕙᒃᑐᑦ ᐊᑐᓂ ᓇᔪᒪᓇᔭᐅᕙᒃᑐᓂ ᑐᒃᑐᖃᕐᕕᐅᕙᓐᓂᖏᓐᓂ.
		ᖃᐅᔨᓴᖅᑕᐅᓂᖏᑦ ᓯᓚᐅᑉ ᐊᓯᔾᔨᖅᐸᓪᓕᐊᓂᖓᓄᑦ ᐅᐊᖕᓇᖅᐸᓯᖕᒧᑦ ᐱᑕᖃᓕᖅᐸᓪᓕᐊᔪᓐᓇᕐᓂᖏᑦ ᐱᑕᖃᕐᓂᖅᓴᐅᓕᕈᓐᓇᕐᓂᖏᓪᓗᓂᑦ ᐱᑕᖃᓕᓃᖅᑐᓂ/ᐊᒥᓱᓂᖅᓴᐅᓕᕈᓐᓇᕐᓂᖏᓗᓐᓂᑦ ᒫᓐᓇᐅᔪᖅ ᐊᒻᒪᓗ ᓄᑖᖑᓕᖅᑐᓂᒃ ᐋᓂᐊᓕᕈᑕᐅᔪᓐᓇᖅᑐᑦ ᑯᒪᒃᑖᕈᑕᐅᕙᒃᑐᓪᓗ ᐊᒃᑐᐃᔪᓐᓇᖅᑐᑦ ᑐᒃᑐᐃᑦ ᐊᑐᓂ ᐃᖏᒧᑦ ᖃᓄᐃᖏᓐᓂᖏᓐᓂᒃ.
	ᐃᓕᓐᓂᐊᖅᑐᓕᕆᓂᖅ ᐊᒻᒪᓗ ᖃᐅᔨᑎᑦᑎᕙᓪᓕᐊᓂᖅ	ᐱᕚᒥᓴᐃᓂᖅ ᐊᑐᖅᑕᐅᑲᓂᕈᓐᓇᕐᓂᖏᓐᓂᒃ, ᐊᐅᓚᑕᐅᔪᓐᓇᕐᓂᖏᑦ ᐳᔪᕐᓗᓕᐊᖑᕙᓪᓕᐊᔪᑦ ᐊᒻᒪᓗ ᐆᒪᕐᑯᑎᓂᒃ ᓴᐳᓐᓂᐊᕈᑏᑦ ᐅᑭᐅᖅᑕᖅᑐᒥ ᓄᓇᓕᖕᓂ ᐊᒻᒪᓗ ᐊᓯᖏᓐᓂ.
		ᖃᓄᐃᓕᐅᕈᑎᒃᓴᓂᒃᓯᒪᓗᑎᒃ ᑐᓴᐅᒪᖃᑕᐅᑎᔾᔪᑎᒃᓴᓂᒃ ᐊᑐᕋᔭᖅᑐᓂᒃ ᐃᓕᓐᓂᐊᖅᑎᑕᐅᓗᑎᒃ ᐃᓄᐃᑦ ᑲᓇᑕᒥ ᓄᓇᕐᔪᐊᕐᒥᓗ ᑕᒪᒃᑯᓂᖓ ᐊᒃᑐᖅᑕᐅᔪᓐᓇᕐᓂᖏᓐᓂᒃ ᓯᓚᐅᑉ ᐊᓯᔾᔨᖅᐸᓪᓕᐊᓂᖓ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ, ᐊᓯᖏᓪᓗ ᐅᑭᐅᖅᑕᖅᑐᒥ ᐅᒪᔪᐃᑦ (ᐆᒃᑑᑎᒋᓗᒍ ᐅᓂᒃᑳᖃᑦᑐᑎᒃ ᖃᓄᖅ ᓯᓚᐅᑉ ᐊᓯᔾᔨᖅᐸᓪᓕᐊᓂᖓᓄᑦ ᐊᒃᑐᖅᑕᐅᕙᓪᓕᐊᖕᒪᖔᑕ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ, ᐃᓄᖁᑎᖏᓪᓗ, ᓂᕿᒃᓴᖃᑦᑎᐊᕆᐊᖃᕐᓂᖏᓐᓄ ᐃᑲᔫᑕᐅᓂᐊᖅᑐᓂᒃ ᓯᓚᐅᑉ ᐊᓯᔾᔨᖅᐸᓪᓕᐊᓂᖓ ᐊᒃᑐᖅᑕᐅᓗᐊᓈᒃᑯᑦᑎᒃᓴᑦ).
ᖃᐅᔨᒪᔭᐅᖏᓗᐊᕐᓂᖏᑦ: ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ ᐊᒥᓱᓂᖏᑦ	ᐊᒥᓱᓂᖏᓐᓂᒃ ᓇᓴᐃᓗᑎᒃ ᑐᑭᓯᓇᑦᑎᐊᕐᓂᐊᕐᒪᑕ ᐊᒥᓱᓂᖏᑦ, ᖃᓄᐃᓕᕚᓕᐊᓂᖏᑦ, ᓇᓃᓐᓂᖏᑦ, ᓇᒨᖓᐅᓂᖏᓪᓗ ᓇᐅᒃᑯᑦ/ᐅᖓᓯᒃᑐᒧᓪᓗ	ᑐᑭᓯᓇᕐᓂᖅᓴᐅᓂᐊᕐᒪᑕ ᖃᓄᐃᓕᖓᓂᖏᑦ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖃᕐᕕᐅᕙᓐᓂᖏᑦ ᑕᒪᒃᑯᓂᖓ,ᐊᒻᒪᓗ ᓇᒧᖓᐅᖃᑦᑕᕐᓂᖏᓐᓂᒃ/ᓇᐅᒃᑰᖃᑦᑕᕐᓂᖏᓐᓂᒃ/ᐅᖓᓯᒃᑐᓕᐊᖃᑦᑕᕐᓂᖏᓐᓂᒃ. ᖃᐅᔨᒪᔭᐅᓂᖏᑦ ᑲᑎᖅᓱᖅᑕᐅᓇᔭᖅᑐᑦ ᐃᓄᐃᑦ ᖃᐅᔨᒪᔪᖃᖏᓐᓂᒃ/ᐱᐅᓯᑐᖃᕐᓂᒃ ᐊᕙᑎᒥᒃ ᐊᕙᑎᓕᕆᓂᕐᒥᓪᓗ ᖃᐅᔨᒪᔭᐅᔪᓂᒃ ᐊᒻᒪᓗ ᓄᓇᓖᑦ ᖃᐅᔨᒪᓂᖏᓐᓇ, ᐊᒻᒪᓗ ᖃᓄᓈᑦ ᖃᐅᔨᓴᖅᑎᖏᓐᓂᒃ. ᑕᒪᐃᓐᓂᒃ ᖃᐅᔨᒪᔭᐅᓂᖏᑦ ᓄᑖᕈᕆᐊᖅᑕᐅᖃᑕᐃᓐᓇᕐᓗᑎᒃ.
		ᓇᐅᑦᑎᖅᑐᖅᑕᐅᖃᑦᑕᕐᓗᑎᒃ ᑎᑭᐅᑎᕙᖕᓂᖏᓐᓄᑦ ᐃᖏᒧᑦ ᐃᓄᑑᓗᑎᒃ ᐊᑐᓂ ᐊᔾᔨᒌᖏᑦᑑᑎᐅᔪᓂᑦ ᕿᑭᖅᑕᓴᖕᓄᑦ.
		ᑐᑭᓕᐅᖅᑕᐅᓗᑎᒃ ᑎᑭᐅᑎᕙᖕᓂᖏᑦ ᐊᑯᓂᖏᓐᓂ ᓯᑕᒪᓂᒃ ᑐᒃᑐᖃᕐᕕᐅᕙᓐᓂᖏᑦ ᑕᒪᒃᑯᓂᖓ ᑭᒡᓕᐅᕐᕕᐅᓯᒪᓂᖏᓐᓂ.

		ᓇᐅᑦᑎᖅᑐᖅᑕᐅᓗᑎᒃ ᐊᒥᔅᓱᓂᖏᑦ ᐊᒻᒪᓗ/ᐅᑉᐸᓘᓐᓃᑦ ᖃᓄᐃᓕᕚᓪᓕᐊᓂᖏᑦ, ᐊᒻᒪᓗ ᐊᓯᔾᔨᖅᓯᒪᓂᖏᑦ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᐃᑦ ᓇᓅᑉᐸᖕᓂᖏᓐᓂ ᐊᑯᓂᐅᓂᐊᖅᑐᒥᒃ.
		ᐊᒥᔅᓱᓂᖏᑦ ᐃᔾᔪᐊᖅᑕᐅᓗᑎᒃ ᖃᐅᔨᓴᕈᑕᐅᓂᕐᒧᑦ ᖃᓄᖅ ᐅᖓᓯᒃᑎᒋᔪᓄᑦ ᑎᑭᓯᒪᕚᖕᒪᖔᑕ ᐊᕙᑎᖏᓪᓗ ᖃᓄᐃᓕᖓᕚᖕᒪᖓᑕ ᐃᑲᔪᖅᓱᐃᓇᔭᖅᑐᑦ ᐃᖕᒥᓂᒃ ᐱᑕᖃᐃᓐᓇᕈᓐᓇᕐᓂᖏᓐᓄᑦ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᓐᓄᑦ.
		ᑐᑭᓯᔭᐅᓗᑎᒃ ᐊᒃᑐᖅᑕᐅᓴᕋᐃᓐᓂᖏᑦ ᐃᓱᒪᒋᔭᐅᓂᖏᓐᓂ ᑕᐃᒃᑯᐊᑐᐃᓐᓇᖑᐃᓐᓇᕈᓐᓇᕐᓂᖏᓐᓂ ᓇᓚᐅᑖᕈᑕᐅᔪᓂ ᖃᓄᐃᓕᖓᓇᔭᖅᑑᔅᓂᖅ ᐃᖕᒥᓂᒃ ᐱᑕᖃᐃᓐᓇᕈᓐᓇᕐᓂᖏᓐᓄᑦ ᐱᔾᔪᑎᖃᕈᓐᓇᕐᓂᖅ.
		ᐊᑐᖅᑕᐅᖃᑦᑕᕐᓂᖏᑦ ᑐᑭᓯᔭᐅᓗᑎᒃ ᐃᑦᑐᐊᖅᑐᕐᕕᐅᑉ ᓄᕗᐊᓂ ᐃᖕᒥᒍᖓᓗᑕᐅᕙᖕᒪᖕᖔᓗᓐᓃᑦ ᑕᐅᕙᓇ ᑎᑭᑕᐅᓯᒪᕙᖕᓂᖓ.
		ᑐᑭᓯᓇᓱᐊᒃᑲᓐᓂᕐᓗᑎᒃ ᓇᓃᒪᖖᑕ ᐅᖓᓯᒃᑐᓕᐊᕐᕕᒋᕙᒃᑕᖏᑦ (ᓱᕐᓗ ᐆᒃᑑᑎᒋᓗᒍ ᓇᒧᖓᐅᖃᑦᑕᕐᓂᖏᓐᓂ, ᖃᓄᑎᒋ ᑕᐅᕗᓈᖃᑦᑕᒪᖓᑕ, ᐊᓯᔾᔨᖅᐸᓕᐊᔫᔭᕐᓂᖏᓐᓂᒃ, ᐅᖓᓯᖕᓂᖏᓪᓗᓂᑦ ᐊᓯᔾᔨᖅᐸᓪᓕᐊᓂᖏᑦ ᓇᐅᒃᑯᕐᕕᒋᔪᓐᓇᖅᑕᖏᓪᓗᓂᑦ ᐊᕙᑎᖓᑕ ᐊᓯᔾᔨᖅᐸᓪᓕᐊᓂᖓᓄᑦ, ᐊᓯᖏᓄᓪᓗ).
ᓇᐅᑦᑎᖅᑐᐃᓂᕐᒥᒃ		
ᐅᓗᕆᐊᓇᕈᑕᐅᔪᑦ ᐊᔪᕐᓇᕈᑏᓪᓗᓐᓃᑦ ᖃᓄᐃᓕᐅᖅᑕᐅᓂᖏᑦ	**ᐱᓕᕆᐊᕐᒎᓂᖏᑦ**	**ᐱᔭᕆᐊᖃᕐᓂᖏᑦ**
ᖃᐅᔨᒪᔭᐅᖏᓗᐊᕐᓂᖏᑦ: ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ ᐊᒥᓱᓂᖏᑦ	ᖃᐅᔨᒋᐊᖅᑕᐅᓗᑎᒃ ᐊᒥᓲᓂᖏᑦ ᑐᑭᓯᔭᐅᑦᑎᐊᕐᓂᐊᕐᒪᑕ ᖃᓄᐃᓕᖓᓂᖏᑦ ᐊᒥᓲᓂᖏᓐᓂ, ᖃᓄᐃᓕᕚᓪᓕᐊᓂᖏᓪᓗ, ᓇᓂᓐᓂᖏᓐᓂᓗ, ᓇᐅᒃᑰᖃᑦᑕᕐᓂᖏᓪᓗ ᓇᒧᖓᐅᓂᖏᓐᓂ/ᐅᖓᓯᒃᑐᒧᐊᕌᖓᒥᒃ	ᐊᑐᖅᑕᐅᓚᔪᖕᒪᖔᑕ ᓇᔪᒐᖏᑦ ᓯᓚᑖᓐᑦᑐᑦ ᐊᑐᕋᖕᓂᖏᓐᓂᒃ (ᓲᕐᓗ ᐆᒃᑑᑎᒋᓗᒍ, ᐊᕋᒍᒥ ᓯᓚ ᖃᓄᐃᓂᖓᓂ, ᐊᒥᓱᐃᖅᑕᕐᓂᖏᓐᓂ ᐊᑐᖅᐸᒃᑕᖏᑦ, ᖃᓄᐃᓕᖓᔪᒥᒃ ᓅᐸᓪᓕᐊᖃᑕᒪᑕ ᓇᒧᑦ).
		ᑐᑭᓯᐅᑎᐊᒃᑲᓂᕐᓗᑎᒃ ᓇᔪᒐᓇᓯᕙᒃᑐᑦ ᖃᓄᐃᓕᖓᓴᓇᐊᖃᕐᓂᖏᓪᓗ ᐊᖓᓯᖕᓂᖅᓴᓂ ᓇᔾᔭᖃᒃᑕᖏᑦ (ᓲᕐᓗ ᐆᒃᑑᑎᒋᓗᒍ ᓇᐹᖅᑐᓕᖕᒥ ᐅᒥᖕᒪᐃᑦ ᓄᓈᓂ ᐊᐅᓱᐃᑦᑐᕐᒥ ᕿᑭᖅᑕᖏᓐᓂ, ᐃᓕᑕᕆᔭᐅᓯᒪᖏᑐᓂᓗ ᓇᐅᒃᑯᕐᕕᐅᕙᒃᑐᓂᒃ ᐅᖓᓯᒃᑐᒧᑦ, ᐊᓯᖏᓪᓗ).
		ᑐᒃᑐᖃᕐᕕᐅᕙᖕᓂᖏᑦ ᑕᒪᒃᑯᓂᖓ ᑐᑭᓯᓇᖅᓯᑎᑕᐅᓗᑎᒃ ᖃᓄᖅ ᐱᕚᓪᓕᕈᑕᐅᓲᖑᒪᖔᑕ ᓈᖃᑦᑕᕐᓂᖏᓐᓂ ᐱᐅᓯᑐᔪᖏᑦ, ᐊᒻᒪᓗ ᐊᒃᑐᖅᑕᐅᓯᒪᔪᓐᓇᕐᓂᖏᓐᓂ ᐊᔪᕈᑕᐅᕙᒃᑐᓄᑦ ᓅᑐᓐᓇᕐᓂᖏᓐᓄᑦ ᑐᒃᑐᓄᑦ ᖃᓄᐃᓕᖓᓕᕈᑕᐅᔪᓐᓇᕐᓂᖏᑦ (ᐊᒃᑐᖅᑕᐅᔪᓐᓇᕐᓂᖏᑦ) ᐱᑕᖃᕐᓂᖏᓐᓂ ᐊᒻᒪᓗ ᓇᓄᖃᑦᑕᕐᓂᖏᓐᓂ, ᓇᒧᖓᐅᕙᖕᓂᖏᓐᓂᓗ.
		ᓴᕿᑎᑦᑎᓗᑎᒃ ᐊᔾᔨᒌᒃᑐᓂᒃ ᐊᑐᖅᑕᐅᕙᖕᓂᐊᖅᑐᓂᒃ ᐱᐅᓯᑐᔭᐅᓂᐊᖅᑐᓂᒃ ᐊᔪᕐᓇᖏᓂᓕᒪᖅ, ᓈᓴᖅᑕᐅᖃᑦᑕᕐᓂᖏᓐᓂ ᐊᔾᔨᒌᒃᑑᑎᐅᖃᑦᑕᕐᓗᑎᒃ ᓇᓂᑐᐃᓐᓇᖅ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖃᕐᕕᖏᓐᓂ, ᓯᕗᓂᒃᓴᒥᓗ ᑕᐃᒪᐃᓕᖓᖃᑦᑕᕐᓗᑎᒃ.
		ᐱᕚᒥᓴᐃᓂᖅ ᑲᑎᖅᓱᐃᖃᑦᑕᕐᑯᔨᓂᖅ ᐱᓂᕐᓗᒍᑕᐅᕙᒃᑐᓂᒃ ᖃᐅᔮᐅᕙᒃᑐᓂᒃ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ ᓇᔪᖅᐸᒃᑕᖏᓐᓂ, ᑭᓇᑯᑐᐃᓐᓇᐃᑦ ᐊᐅᓚᖅᓯᒪᓂᖏᓐᓂ ᐱᓕᕆᓂᖏᓐᓂᓗᓐᓃᑦ ᓄᓇᒥ ᓯᑯᒥᓗᓐᓂᑦ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖃᕐᕕᐅᔪᓂ.. ᑐᓴᐅᒪᖃᑕᐅᑎᓂᕐᒧᑦ ᐸᕐᓇᐅᑎᖃᕆᐊᖅᑐᑦ ᐊᒻᒪᓗ ᑐᓂᐅᔭᐅᖃᑕᐅᓇᕐᓂᖏᓐᓂᒃ, ᑐᑭᓯᓇᕆᐊᖃᕐᓂᖏᓐᓂᓗ ᐊᐅᓚᑦᑎᔾᔪᑎᒃᓴᓂᒃ.
ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ ᖃᓄᐃᖏᓂᖏᑦ ᐊᒻᒪᓗ ᖃᓄᐃᓕᖓᓂᖏᑦ ᑎᒥᒃᑯᑦ	ᓇᐅᑦᑎᖅᑐᖅᑕᐅᕐᓗᑎᒃ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ ᖃᓄᐃᖏᓂᖏᑦ ᐊᒻᒪᓗ ᖃᓄᐃᓕᖓᓂᖏᑦ ᑎᒥᒃᑯᑦ	ᑲᑎᖅᓱᐃᕙᒡᓗᑎᒃ ᖃᐅᔨᔭᐅᕙᓪᓕᐊᔪᓂᒃ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ ᖃᓄᐃᖏᓂᖏᓐᓂᒃ (ᓲᕐᓗ ᐆᒃᑑᑎᒋᓗᒍ ᐅᖃᐅᓯᐅᖃᑦᑕᕐᓗᑎᒡᓗ ᑯᒪᖃᕐᓂᖏᑦ, ᐋᓐᓂᐊᕈᑎᖃᕐᓂᖏᑦ, ᓇᒻᒪᒍᓂᖅᓯᒪᓂᖏᑦ) ᐊᖑᓇᓱᒃᑎᓂᒃ ᖃᐅᔨᓴᖅᑕᐅᓂᖏᓐᓂᓗ ᑐᕐᑯᖓᔪᑦ ᓇᓂᔭᐅᓂᖏᑦ. ᐃᑲᔪᖅᑎᒃᓴᖃᕐᒪᑕ ᒫᓇᐅᓕᖅᑐᖅ ᑲᑎᖅᑐᐃᕓᔪᓈᕐᓂᖅ ᖃᐅᔨᓴᒃᓴᓂᒃ ᑐᓂᔭᐅᔪᓈᖅᑐᓂᒃ ᐊᖑᓇᓱᒃᑎᓂᒃ.
		ᖃᐅᔨᓴᖅᑕᐅᖃᑦᑕᕐᓗᑎᒃ ᐊᒪᕈᐃᑦ-ᑐᒃᑐᐃᓪᓗ ᐱᑕᖃᖃᑦᑕᕐᓂᖏᑦ ᑖᒃᑲᓂᑦᓴᐃᓇᖅ ᐃᓱᒪᒋᓪᓗᒋᑦ ᐋᓂᐊᕐᓂᖃᓲᖑᒪᑖ.
		ᖃᐅᔨᓴᖅᑕᐅᖃᑦᑕᕐᓗᑎᒃ ᖃᓄᐃᓕᖓᓕᕈᑕᐅᔪᓐᓇᕐᓂᖏᑦ ᑐᒃᑐᐃᑦ ᐋᓐᓂᐊᕈᑎᖏᑦ ᐃᓄᖕᓄᑦ.
		ᓇᐅᑦᑎᖅᑐᖅᑕᐅᓗᑎᒃ ᓄᑖᓂᒃ ᖁᐸᕆᕈᖃᓕᕐᓂᖅ ᕿᒃᑎᕆᐊᓗ ᐋᓂᐊᓕᕈᑕᐅᕙᒃᑐᓪᓗ, ᖃᐅᔨᓴᖅᑕᐅᓗᑎᒃ ᐊᒃᑐᖅᑕᐅᕙᓪᓕᐊᓂᖏᑦ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ.

		ᓇᐅᑦᑎᖅᑐᖅᑕᐅᓂᖏᑦ ᐊᖏᔫᑎᓂᒃ ᓴᓇᕝᕙᓕᖕᓂᒃ ᓱᕈᕐᓇᖅᑐᓕᐅᖅᕚᐅᕙᓪᓕᐊᖕᒪᖔᑕ ᐱᕈᖅᑐᑦ ᓄᓇᒥ ᐊᒻᒪᓗ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᐃᑦ ᓂᕿᖏᑦ.
ᐊᓯᖏᓐᓂᒃ ᑐᒃᑐᓂᒃ ᑐᒃᑐᖃᓕᕈᓐᓇᕐᓂᖅ	ᓇᐅᑦᑎᖅᑐᖅᑕᐅᖃᑦᑕᕐᓗᑎᒃ ᐃᓚᒥᓂ ᓄᓕᐊᖃᑦᑕᕐᒪᖔᑕ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᐃᑦ ᐊᒻᒪᓗ ᓄᓕᐊᖃᑕᓕᕐᒪᖓᑕ ᖁᑦᑎᒃᑐᕐ ᑐᒃᑐᐃᑦ ᐊᓯᖏᓐᓂᒃ	ᓇᐅᑦᑎᖅᑐᖅᑕᐅᓂᖏᑦ ᓇᔪᖅᐸᒃᑕᑐᖃᖏᓐᓂ ᐱᑕᖃᓕᕈᓐᓇᕐᓂᖏᓐᓂᒃ ᓇᔪᖅᑕᐅᕙᒃᑐᓂ ᐊᓯᖏᑦ ᑐᒃᑐᐃᑦ ᐊᒻᒪᓗ ᓄᓕᐊᖃᑦᑕᕐᓂᖏᓐᓂ ᐃᓚᒥᓂᒃ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᐃᑦ ᐊᒻᒪᓗ ᐊᓯᖏᓐᓂᒃ ᑐᒃᑐᓂᒃ ᖁᑦᑎᒃᑐᕐᕕᐅᑦ ᐊᓯᕐᔭᖏᓐᓂ.
		ᖃᐅᔨᓴᕐᓗᒋᑦ ᐃᓕᑦᔭᒥᓂᒃ ᓄᓕᐊᖃᑦᑕᕐᓂᖏᓐᓄᑦ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᓄᑦ ᐊᒃᑐᖅᑕᐅᓴᕋᐃᓂᖅᓴᐅᔪᓇᕐᒪᖔᑕ ᑯᒪᖕᓄᓪᓗ ᐋᓂᐊᓕᕈᑕᐅᔪᓇᖅᑐᓄᓪᓗ .
ᐃᓚᖃᓕᕈᓐᓇᕐᓂᖏᑦ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᐃᑦ ᐅᒥᒪᐃᓪᓗ ᐊᑕᐅᓯᕐᑏᑐᓇᕐᓂᖅ ᖃᓄᐃᓕᕙᓪᓕᐊᓂᖏᓂ (ᐊᑲᐅᖏᓕᐅᕈᑎᑦ ᓄᓇᒥᐅᑕᑐᖃᐃᑦ ᐱᑕᖃᕐᓂᖏᑦ ᐆᒪᔪᐃᑦ)	ᑐᑭᓯᓂᐊᕈᑕᐅᓂᖅ ᓇᐅᑎᖅᑐᖅᑕᐅᕙᓂᖏᓪᓗ ᐃᓚᖃᓕᕈᓐᓇᕐᓂᖏᑦ ᐱᑕᖃᕐᓂᖏᓐᓂ ᐅᒥᖕᒪᐃᓪᓗ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ	ᑐᑭᓯᐅᒪᔭᐅᑦᑎᐊᒃᑲᓂᕐᓗᑎᒃ ᐱᑕᖃᕈᓐᓇᕐᓂᖏᑦ ᐅᒥᖕᒪᐃᑦ, ᖁᑦᑎᒃᑐᒥᓗ ᑐᒃᑐᐃᑦ, ᐊᒪᕈᐃᓪᓗ ᑕᐃᑯᓂᖓᓪᓚᖓᐃᓐᓇᖅ ᓇᔪᐃᔩᓇᕐᓗᑎᒃ.
		ᑐᑭᓯᓇᖅᓯᑎᑕᐅᓗᑎᒃ ᖃᓄᖅ ᑕᐃᑲᓂᖕᒐᓚᖓᐃᓇᖅ ᓇᔩᕈᓇᕐᒪᖔᑖ ᑕᒪᒃᑯᐊ ᐅᒥᖕᒪᐃᑦ, ᐱᑕᖃᕈᓇᑦᑎᐊᕐᓂᖏᓐᓂ ᐊᒻᒪᓗ ᑐᑭᓯᓇᕐᓂᐊᕐᒪᑕ ᐊᕙᒃᑐᖅᓯᒪᓂᖏᓐᓂ ᐋᔾᔨᖃᑕᖏᓂᖏᓐᓂᒃ ᐱᑕᖃᕐᓂᕐᓂᖏᓐᓂ.
		ᐱᔭᕇᐊᖃᕈᑎᒃ, ᐊᐅᓚᑦᑎᔾᔪᑎᖃᓕᐅᕐᓗᑎᒃ ᐅᒥᖕᒪᖃᕐᓂᕐᒧᑦ ᐱᐅᖏᑦᑐᓂᒃ ᐊᒃᑐᖅᑕᐅᓗᐊᕇᒃᑯᑎᒃᓴᐅᓂᐊᖅᑐᓂᒃ ᖁᑦᑎᒃᑐᒥ ᑐᒃᑐᖏᓐᓄᑦ.
ᐱᕙᓪᓕᐊᔪᓂᒃ ᐊᒃᑐᖅᑕᐅᔪᓐᓇᕐᓂᖏᑦ	ᓇᐅᑦᑎᖅᑐᖅᑕᐅᓗᑎᒃ ᐱᕙᓪᓕᐊᔪᓂᒃ ᐊᒃᑐᖅᑕᐅᓯᒪᔪᓐᓇᕐᓂᖏᑦ	ᑐᑭᓯᓇᖅᓯᑎᑕᐅᓗᑎᒃ ᐱᕙᓪᓕᐊᔪᓂᒃ ᐊᒃᑐᖅᑕᐅᔪᓐᓇᕐᓂᖏᑦ ᐅᓗᕆᐊᓇᕈᑕᐅᔪᓂᒃ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᓄᑦ (ᓲᕐᓗ ᐆᒃᑐᑎᒋᓗᒍ ᓯᓚᐅᑉ ᐊᓯᔾᔨᖅᐸᓪᓕᓪᓕᐊᓂᖓ, ᐃᓄᐃᑦ ᓴᓇᔭᐅᑎᑦᑎᕙᓐᓂᖏᓐᓄᑦ, ᑐᒃᑐᐃᑦ ᐃᒃᐱᓐᓂᐊᔭᖏᓐᓂᒃ ᐸᖅᕕᓴᒃᑕᐅᖃᑦᑕᕐᓂᖏᓐᓂᒃ, ᐊᒪᕈᖃᕐᓂᖅ, ᐅᒥᖕᒪᒃᑕᖃᕐᓂᖅ, ᐊᓯᖏᓐᓂᓪᓗ).

ᑐᖁᕋᖃᑦᑕᕐᓂᖏᓐᓂ ᐊᒻᒪᓗ ᐱᑕᖃᕈᓐᓇᕐᓂᖏᓐᓄ ᐊᐅᓚᑦᑎᓂᖅ		
ᐅᓗᕆᐊᓇᕈᑕᐅᔪᑦ ᐊᔪᕐᓇᕈᑏᓪᓗᓃᑦ ᖃᓄᐃᓕᐅᖅᑕᐅᓂᖏᑦ	**ᐱᓕᕆᐊᖑᓂᖏᑦ**	**ᐱᔭᕆᐊᖃᕐᓂᖏᑦ**
ᐊᓯᖏᓐᓄᑦ ᐅᒪᔪᓄᑦ ᓂᕿᒃᓴᖅᓱᐅᖅᑕᐅᕙᓐᓂᖏᑦ (ᐊᑲᐅᖏᓕᐅᕈᑎᑦ ᓄᓇᒥᐅᑕᑐᖃᐃᑦ ᐱᑕᖃᕐᓂᖏᑦ ᐆᒪᔪᐃᑦ)	ᑐᑭᓯᓂᐊᕈᑕᐅᓂᖅ ᓇᐅᑎᖅᑐᖅᑕᐅᕙᓪᓗᑎᓪᓗ ᐱᑕᖃᕐᓂᖏᑦ ᑐᒃᑐᓂᒃ ᓂᕿᒃᓴᖅᓱᐅᖅᐸᒃᑐᑦ ᐆᒪᔪᐃᑦ ᐊᒻᒪᓗ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ	ᖃᐅᔨᓴᖅᑕᐅᓗᑎᒃ ᑐᒃᑐᓂᒃ ᓂᕿᒃᓴᖅᓱᐅᖅᐸᒃᑐᑦ ᐆᒪᔪᐃᑦ ᐊᐅᓚᑕᐅᔭᕆᐊᖃᕐᒪᖔᑕ ᐃᑲᔪᕐᓂᕐᒧᑦ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ ᐱᑕᖃᐃᓐᓇᕆᐊᖃᕐᓂᖏᑦ.
		ᑐᑭᓯᐅᒪᔭᐅᑦᑎᐊᒃᑲᓂᕐᓗᑎᒃ ᖃᓄᐃᓕᖓᕙᓂᖏᑦ ᑕᐃᑯᓇᓃᑦᓴᐃᓐᓇᕐᓂᖏᑦ ᓇᔪᖅᑕᐅᔪᓂ ᐅᒥᖕᒪᐃᑦ, ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ, ᐊᒪᕈᐃᓪᓗ.
		ᓂᕆᔭᒃᓴᖃᕐᕕᐅᑦᑕᖏᑦ ᐊᒪᕈᐃᑦ ᖃᐅᔨᓴᖅᑕᐅᓗᑎᒃ ᐊᑐᕐᓗᑎᒃ ᑎᒥᖏᓐᓂ ᐱᑕᖅᑰᑦ ᖃᐅᔨᒪᔾᔪᑏᑦ ᓂᕿᒋᖃᑦᑕᖅᑕᖏᓐᓂᒃ (Isotope-ᖑᓂᕋᖅᑕᐅᔪᑦ)
		ᓇᐅᑦᑎᖅᑐᖅᑕᐅᓗᑎᒃ ᐊᓯᔾᔨᕐᐸᓪᓕᐊᖕᒪᖔᑕ ᑐᒃᑐᓂᒃ ᓂᕿᒃᓴᖅᓱᐅᑎᐅᕙᒃᑐᓂᒃ ᐆᒪᔪᐃ ᐊᒻᒪᓗ ᖃᓄᑎᒋ ᑐᒃᑐᓯᒪᕙᖕᒪᖔᑕ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᓐᓂᒃ (ᐊᒡᒐᐃᑦ, ᖃᕝᕕᑦ, ᓇᓄᐃᑦ).
ᐊᖑᓇᓱᖕᓂᖅ	ᐊᐅᓚᑕᐅᓗᑎᒃ ᐃᓄᖕᓄᑦ ᑐᖁᑕᐅᕙᓐᓂᖏᑦ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ	ᖃᐅᔨᓴᖅᑕᐅᓗᑎᒃ ᖃᓄᐃᓕᐅᕈᑕᐅᓗᑎᒡᓗ ᐊᒃᑐᐃᔪᓇᕐᓂᖏᑦ ᐊᖑᓇᓱᒃᑕᕐᓂᖅ ᐱᔪᒪᔭᐅᓂᖅᓴᐅᕙᓐᓂᖏᓐᓂᒃ (ᓲᕐᓗ ᐆᒃᑑᑎᒋᓗᒍ ᐱᓇᓱᐊᖕᓂᖅᓴᐅᕙᓐᓂᖅ ᐊᖏᔫᑎᓂᒃ ᐊᖑᔭᓪᓗᕐᓂᒃ) ᐊᒻᒪᓗ ᑐᒃᑐᒍᓇᐅᑎᓄᑦ ᐱᔪᓇᐅᑏᑦ ᑯᑕᑦᔭᐅᕙᒃᑐᑦ ᐊᑐᖅᑕᐅᕙᓐᓂᖏᓐᓂ ᐋᕿᐅᒪᓂᖏᑦ.
		ᐱᕙᓪᓕᐊᑎᑦᑎᓂᖅ ᐊᑐᓕᖅᑎᑦᑎᕙᓪᓕᐊᓂᕐᓗ ᖃᓄᐃᓕᐅᕈᑎᖅᓴᓂᒃ ᐅᖃᐅᓯᐅᓂᖅᓴᐅᖃᑦᑖᕐᓗᑎᒡᓗ ᑐᑦᑕᐅᕙᒃᑐᑦ, ᐱᓗᐊᖅᑐᒥᒃ ᑲᑎᒪᖃᑦᑕᕐᑎᓗᑎᒡ ᓇᔪᖅᑕᖏᓐᓂ ᐊᓯᖏᓐᓂᒃ ᑐᒃᑐᓂᒃ.
		ᐋᕿᐅᒪᑎᑕᐅᓗᑎᒃ ᐱᔩᒥᓴᐃᓗᑎᓪᓗ ᓄᓇᓕᑦ ᐃᓄᐃᑦ ᒪᓕᒐᖅᑎᑦᑎᔭᐅᓂᖏᓐᓂᒃ ᑐᒃᑐᓯᐅᕝᕕᐅᔭᐅᓂᖏᓐᓂᒃ ᐊᒻᒪᓗ ᓇᐅᑦᑎᖅᑐᐃᓂᖅ ᑐᒃᑐᖃᕐᓂᖏᓐᓂᒃ ᑕᒪᒃᑯᐊ ᐊᒥᓲᓂᖏᓐᓂ. ᐃᒥᓃᓐᓇᖅ ᐃᓱᒪᖅᓱᕐᓗᑎᒃ ᐊᐅᓚᑦᑎᔭᐅᖁᓗᑎᑦ

		ᐋᕿᒋᐊᖅᑕᐅᖃᑕᕐᓗᑎᒃ ᑐᒃᑐᑕᐅᔪᓐᓇᕐᓂᖏᑦ ᐊᒥᓲᖏᓗᐊᓕᕞᖓᒥᒃ, ᐅᕝᕙᓘᓐᓃᑦ ᖃᖓᐅᓂᖓᓂ ᐃᓛᓂᒃᑯᑦ ᐊᕿᒍᒥ ᐊᑐᕐᓂᕐᒥᒃ.
		ᐱᔾᒥᓴᐃᓗᑎᒃ ᐊᖑᓇᓱᒃᑎᓂᒃ ᐊᒃᑕᑯᓕᐅᖅᑕᐃᓕᒫᖃᑕᕐᑯᔭᐅᓂᖅ (ᓵᕐᓗ ᐆᒃᑐᑎᒋᓗᒍ ᖁᑭᖅᓯᖃᑕᕐᓂᕐᒥᒃ ᖁᖓᓯᐊᒍᑦ, ᖁᑭᐅᑎᖏᓐᓂ ᕿᖑᑎᖏᑦ ᑐᕌᖓᑎᑕᐅᑦᑎᐊᖃᑕᕐᓗᑎᒃ), ᐊᒻᒪᓗ ᐊᑐᐃᓐᓇᖃᕐᓗᑎᒃ ᑕᒪᓃᒃᑯᑎᓂᒃ ᐃᓕᑕᕆᓭᐅᑦᑎᐊᕈᓐᓇᕐᓂᖏᓐᓄᑦ ᑐᒃᑐᐃᑦ ᓇᓕᐊᖑᖕᒪᖔᑕ ᖃᐅᔨᒪᓗᑎᒃ.
		ᒪᓕᒐᐃᑦ ᓱᕋᐃᔭᐅᓗᑎᒃ ᑐᒃᑐᓯᐅᖃᑕᕐᑯᔨᖏᓗᑎᒃ ᓄᓇᓕᑐᖃᐅᖏᑦᑐᓄᑦ ᐊᖑᓇᓱᒃᑎᓄᑦ ᖃᐅᔨᒪᔭᐅᑎᑦᑎᖃᑕᕐᓗᑎᒃ ᑐᓴᐅᒪᑎᑦᑎᓗᑎᒃ ᐊᒻᒪᓗ ᐱᑦᑎᓪᓕᐊᑎᑦᑎᓗᑎᒃ ᒪᓕᒐᕐᓂᒃ ᒪᓕᒃᑕᐅᑎᑦᑎᖃᑕᕐᓂᖅ ᒫᓇᐅᓕᖅᑐᖅ ᒪᓕᒐᕆᔭᐅᓕᖅᑐᓂᒃ.
		ᐱᔨᒥᓴᐃᖃᑕᕐᓂᖅ ᐊᓯᖖᒋᓐᓂᒃ ᓂᕿᒃᓴᖃᐳᓇᕐᓂᖏᓐᓂᒃ ᐊᒻᒪᓗ ᓂᕿᒃᓴᓂᒃ ᐊᐃᑦᑑᓯᐊᖅᑖᖅᑎᑦᑎᖃᑕᕐᓗᑎᒃ ᓂᕆᔭᒃᓴᖃᕐᓂᐊᕐᒪᑕ ᐊᓯᖏᓐᓂᒃ ᖃᖓᑐᐃᓐᓇᖅ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ ᐊᒥᓲᓂᖏᓐᓂ.
ᓇᔪᖅᑕᐅᕙᒃᑐᓂᒃ ᐊᐅᓚᑦᑎᓂᖅ ᓄᓇᐃᓪᓗ ᖃᓄᐃᓕᖓᓂᖏᓐᓂᒃ ᐸᕐᓇᐅᑕᐅᓂᖏᑦ		
ᐅᒥᐊᕐᔪᐊᖃᓰᖑᓂᖅ	ᐊᐅᓚᑕᐅᓗᑎᒃ ᖃᖓ ᐅᒥᐊᕐᔪᐊᖃᕈᓐᓇᕐᓂᖅ ᐊᒻᒪᓗ ᐊᑐᖅᑕᐅᔪᓐᓇᕐᓂᕐᒥᑦ ᓯᑯᓯᐅᑏᑦ ᐸᒡᕕᓵᒃᑯᑕᐅᓗᑎᒃ ᕿᑭᖅᑕᒐᓴᓄᖓᐅᕙᓂᖏᓐᓄᑦ ᓅᐸᓪᓕᐊᓂᖏᓐᓂ	ᓴᕿᑎᑦᑎᓗᑎᒃ ᐱᐅᓂᖅᐹᓂᒃ ᐊᑐᖅᑕᐅᕙᓂᐊᖅᑐᓂᒃ ᐸᕐᓇᐅᑎᓂᒃ ᐸᒡᕕᓴᒃᑕᐅᑦᑕᐃᓕᒪᔭᕆᐊᖃᕐᓂᖏᓐᓄᑦ ᐅᒥᐊᕐᔪᐊᖃᕐᓂᕐᒧᑦ ᐊᒻᒪᓗ ᐊᑐᖅᑕᐅᕙᓂᖏᓐᓂ ᓯᑯᓯᐅᑎᑦ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ ᕿᑭᖅᑕᓯᓐᓄᖓᐅᔭᕆᐊᖃᕐᓂᖏᓐᓂᒃ.
		ᐱᓕᕆᖃᑎᒋᕙᓪᓗᒋᑦ ᐊᖏᔾᔨᑎᓂᒃ ᓴᓇᕝᕕᓖᑦ ᐊᒃᑐᖅᑕᐅᓂᐊᖅᑐᑦ ᐊᓯᖏᓪᓗ ᐊᐅᓚᑦᑎᕙᒃᑐᑦ ᐅᒥᐊᕐᔪᐊᖅᑎᑦᑎᕙᖕᓂᖅ ᐊᑐᓕᖅᑎᑕᐅᖁᓪᓗᒋᑦ ᐱᐅᓂᖅᐹᓂᒃ ᐊᑐᖅᑕᐅᕙᓂᐊᕐᒪᑕ ᐸᕐᓇᐅᑎᓕᐊᖏᑦ.
		ᐱᐅᓯᒋᐊᖅᑕᐅᓗᑎᒃ ᖃᐅᔨᒪᔭᐅᕙᓐᓂᖏᑦ ᖃᖓ ᐊᒻᒪᓗ ᓇᐅᒃᑯᑦ ᑐᒃᑐᐃᑦ ᐃᑳᕆᐊᖅᑐᕐᓂᐊᕐᒪᖔᑕ ᓯᑯᒃᑯᑦ. ᑕᐃᑯᐊᓗ ᐃᓚᒋᔭᐅᓗᑎᒃ ᑲᑎᖅᓱᖅᑕᐅᓂᖏᑦ ᓄᓇᓕᖕᓂᖕᖔᖅᑐᑦ ᖃᐅᒪᔭᐅᓂᖏᑦ ᐱᒪᕆᐅᓂᖃᕐᓂᖏᓐᓂ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᐃᑦ ᓯᑯᒃᑯᑦ ᐃᑳᕈᓐᓇᕆᐊᖃᕐᓂᖏᑦ.
		ᖃᐅᔨᓴᕐᓂᖅ ᑐᑭᓯᔪᒪᓪᓗᒋᑦ ᖃᓄᖅ ᐊᒃᑐᖅᑕᐅᕙᒻᒪᖔᑕ ᓯᑯᓯᐅᑏᑦ ᐊᑐᖅᑕᐅᕙᓂᖏᓐᓂ ᓯᑯᐃᔭᐃᓗᑎᒃ.
		ᐱᔾᒥᓴᐃᖃᑕᕐᓗᑎᒃ ᑯᕕᓯᖃᑕᕐᑯᔭᐅᓐᖏᓐᓂᖅ ᐃᒪᕐᓗᑯᓂᒃ ᐅᒥᐊᕐᔪᐊᕐᓂᖕᖔᖅᑐᓂᒃ ᐊᑐᕐᓗᑎᒃ ᐃᓕᓐᓂᐊᑎᑦᑎᕝᕕᓕᐊᕐᔪᑎᒃᓴᓂᒃ ᐊᒻᒪᓗ/ᐅᕝᕙᓘᓐᓃᑦ ᓴᓇᔭᐅᓗᑎᒃ ᓴᖏᓂᖅᓴᐃᑦ ᒪᓕᒐᐃᑦ, ᒪᓕᒃᑕᐅᔭᕆᐊᖃᕈᑎᖏᓐᓗ.
ᐆᒪᕐᑯᓯᐅᕈᑏᑦ ᐅᔭᕋᕐᓂᐊᕐᕕᓪᓗ	ᑐᑭᓯᓂᐊᖅᑕᐅᓗᑎᒃ ᓄᓇᐃᑦ ᖃᓄᑎᒋ ᓴᐳᓐᓂᐊᖅᑕᐅᓯᒪᔭᕆᐊᖃᕐᒪᖔᑕ ᐸᕐᓇᐅᑕᐅᓗᑎᓪᓗ ᐃᓱᒪᒋᔭᐅᓗᑎᒃ ᒫᓇᐅᔪᖅ ᓯᕗᓂᒃᓴᒥᓗ ᐱᑕᖃᕐᓂᖏᑦ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ	ᑲᒪᒋᔭᐅᓗᑎᒃ ᑐᑭᓕᐅᕈᑕᐅᓗᑎᒃ ᓄᓇᐃᑦ ᐊᒻᒪᓗ/ᐅᕝᕙᓘᓐᓃᑦ ᓄᓇᒥᐅᑕᓂᒃ ᐸᕐᓇᐅᑎᒃᓴᐃᑦ ᐅᔾᔮᖅᑐᑦᑎᐊᕈᒪᓂᕐᒧᑦ ᐱᕙᓪᓕᐊᓇᓱᒍᑎᑦ ᓴᓇᔭᐅᔪᒪᔪᑦ ᐱᓕᕆᐊᖑᓂᐊᕐᒥᐊᖅᑐᑦ ᐸᕐᓇᐅᑕᐅᑦᑎᐊᕆᐊᖃᕐᓂᖏᓐᓂ ᐊᒻᒪᓗ ᐊᑐᓕᖅᑎᑕᐅᖃᕐᓗᑎᒃ ᓈᒻᒪᖅᓯᒪᖃᑕᕆᐊᓕᖕᓂᒃ ᐊᕐᕌᕐᓂᕐᓂᓗ ᐊᒃᐅᖏᓕᐅᕈᑕᐅᓗᐊᖅᑕᐃᓕᒪᔭᕆᐊᖃᕐᓂᖏᓐᓄᑦ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ ᐃᓱᒪᒋᔭᐅᓗᑎᒃ (ᓵᕐᓗ ᐆᒃᑐᑎᒋᓗᒍ ᐊᒃᑐᖅᑕᐅᓴᕋᐃᓐᓂᖏᓃᑎᓪᓗᒋᑦ/ᓅᐸᓪᓕᐊᓕᖅᑎᓪᓗᒍᑦ ᓇᔪᖅᐸᒃᑕᖏᓐᓂᒃ ᐊᓯᐊᖓᐅᓕᖅᑎᓪᓗᒋᑦ, ᓄᕐᖠᕙᓪᓕᐊᓕᖅᑎᓪᓗᒋᓪᓗ, ᐊᖏᓯᓐᓂᓪᓗ).
		ᓴᐳᓐᓂᐊᖅᑕᐅᓗᑎᒃ ᓄᕐᖠᓈᑦ ᐸᒡᕕᒃᓴᖅᑕᐅᓴᕆᐊᖃᖏᓐᓂᒥᒃ.
		ᓇᐅᑦᑎᖅᑐᐃᓂᖅ ᐊᒃᑐᖅᑕᐅᓯᒪᔪᓐᓇᕐᓂᖏᑦ ᐅᔭᕋᕐᓂᐊᖅᑐᖃᕐᓂᕐᒧᑦ.

ᓇᔪᖅᑕᐅᕙᒃᑐᓂᒃ ᐊᐅᓚᑦᑎᓂᖅ ᓄᓇᐃᓪᓗ ᖃᓄᐃᓕᖓᓂᖏᓐᓂᒃ ᐸᕐᓇᐅᑕᐅᓂᖏᑦ		
ᐅᓗᕆᐊᓇᕈᑕᐅᔪᑦ ᐊᔪᕐᓇᕈᑏᓪᓗᓐᓃᑦ ᖃᓄᐃᓕᐅᖅᑕᐅᓂᖏᑦ	**ᐱᓕᕆᐊᖑᓂᖏᑦ**	**ᐱᔭᕆᐊᖃᕐᓂᖏᑦ**
ᐆᒪᕐᑯᓯᐅᕈᑏᑦ ᐅᔭᕋᕐᓂᐊᕐᕕᓪᓗ	ᑐᑭᓯᓂᐊᖅᑕᐅᓗᑎᒃ ᓄᓇᐃᑦ ᖃᓄᑎᒋ ᓴᐳᓐᓂᐊᖅᑕᐅᓯᒪᔭᕆᐊᖃᕐᒪᖔᑕ ᐸᕐᓇᐅᑕᐅᓗᑎᓪᓗ ᐃᓱᒪᒋᔭᐅᓗᑎᒃ ᒫᓇᐅᔪᖅ ᓯᕗᓂᒃᓴᒥᓗ	ᓴᓇᔭᐅᓗᑎᒃ ᐊᕙᒃᑐᖅᓯᒪᓂᖏᓐᓂ ᐊᒃᑐᖅᑕᐅᓗᐊᕈᒃᑯᑎᒃᓴᐅᔪᓐᓇᖅᑐᓂᒃ ᐅᖃᐅᔾᔨᒋᐊᖅᕙᒃᓴᐃᑦ ᑕᒪᒃᑯᓂᖓ ᐊᕕᑎᓕᕆᓂᕐᒥᒃ ᖃᔾᔨᐅᓴᖅᑎᐅᔪᓄᑦ ᐊᒻᒪᓗ ᓄᓇᕗᒻᒥ ᐊᕕᑎᓕᕆᔾᔪᑦ ᑲᑎᒪᔾᔪᖏᓐᓄᑦ ᕿᒥᕐᕈᐊᖅᑕᐅᕙᖕᓂᖏᓐᓄᑦ. ᓄᓈᓐ ᐅᖃᕝᕕᒃᓴᖅᑎᑕᐅᑲᐅᑎᒋᔭᕆᐊᓕᑦ ᐱᒋᐊᓕᕝᕆᓂᖏᓐᓂ ᐱᔪᓇᐅᑎᓂᒃ ᐱᓇᓱᒃᑐᖃᕐᓂᐊᓕᖅᑎᓪᓗᒋᑦ.
		ᖃᐅᔨᓴᖅᑕᐅᓗᑎᒃ ᑐᑭᓯᐅᒪᔭᐅᑦᑎᐊᒃᑲᓂᕐᓂᐊᕐᒪᑕ ᖃᓄᖅ ᐊᒃᑐᖅᑕᐅᔪᓐᓇᕐᓂᖏᓐᓂᒃ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ ᑕᒪᑯᓇᖓ ᐅᒻᒪᕐᑯᓯᐅᕝᕕᓕᐊᕆᔭᐅᓯᒪᔪᓄᑦ ᐊᒻᒪᓗ ᐅᔭᕋᕐᓂᐊᕝᕕᐅᔪᓄᑦ ᐱᓕᕆᕝᕕᐅᕙᓐᓂᖏᓐᓄᑦ.

	ᐱᑕᖃᕐᓂᖏᑦ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ	
ᑕᒪᕐᒥᒃ ᐅᓗᕆᐊᓇᖅᑐᑦ	ᑐᑭᓯᓂᐊᖅᑕᐅᓗᑎᒃ ᓄᓇᐃᑦ ᖃᓄᑎᒋ ᓴᐳᓐᓂᐊᖅᑕᐅᓯᒪᔪᓇᐊᖃᕐᓂᖏᑦ	ᖃᐅᔨᓴᕐᓗᑎᒃ ᑎᒃᑯᐊᖅᑕᐅᓯᒪᔪᓇᐊᖃᕐᓂᖏᓐᓂᒃ ᖁᑦᑎᒃᑐᒻᒪᕆᖕᓂᒃ ᓯᕗᓪᓕᖅᐸᐅᔾᔪᐅᔪᓇᐊᖃᕐᓂᖏᓐᓂᒃ ᓇᓂᖏᑦ ᓴᐳᓐᓂᐊᖅᑕᐅᓯᒪᕕᒃᓴᐃᑦ ᓇᔪᖅᑕᐅᕙᒃᑐᑦ.
		ᓴᑭᑎᑦᑎᓗᑎᒃ ᑲᔪᓯᕙᓪᓕᐊᔪᓂᒃ ᐊᒃᑐᖅᑕᐅᔪᓐᓇᕐᓂᖏᓐᓂᒃ ᖃᐅᔨᓴᕈᑕᐅᔪᓐᓇᕐᓂᕐᒧᑦ ᐊᑐᖅᑕᐅᔪᓇᖅᑐᑦ.
ᐱᑕᖃᕆᐊᓖᒻᒪᕆᑦ ᓇᔪᙵᔭᐅᕙᙱᖏᑦᑦ ᐃᓕᑕᕆᔭᐅᓂᖏᑦ	ᐊᔾᔨᒌᒃᑐᑦ ᒪᓕᒃᑕᐅᔫᒃᓴᐃᑦ ᐅᓂᑳᓕᐅᕈᑎᓄᑦ ᐱᑕᖃᕆᐊᓖᒻᒪᕆᙳᓂᒃ ᓇᔪᙵᕆᔭᐅᕙᒃᑐᓂᒃ	ᓴᑭᑎᑦᑎᓗᑎᒃ ᐊᑐᕙᒃᓴᓂᒃ ᑐᒃᑐᖃᕐᕕᐅᔫᓇᖅᑐᓂᒃ ᖃᓄᐃᓕᖓᔪᕆᐊᖅᖠᓂᖏᓐᓂᒃ ᓇᔫᑕᐅᔫᓇᖅᑐᓂᐊᕈᑎᒃ ᓄᓇᐃᑦ, ᐱᔾᔪᑕᐅᓕᕉᓐᓇᖅᑐᑦ ᑲᔪᓯᔫᓇᖅᑐᓂᖅ ᐃᓕᑕᕆᔭᐅᓂᖏᓐᓄᑦ ᑭᒡᓕᖃᖅᕕᒃᓴᐃᑦ ᑐᑭᓕᐅᖅᑕᐅᓂᖏᓐᓄᑦ ᖃᐅᔨᒪᔭᐅᓂᐊᕐᒪᑕ ᖃᓄᖅ ᐱᑕᖃᕆᐊᓖᒻᒪᕆᑦ ᓇᔪᖅᑕᐅᔪᓇᖅᑐᑦ ᐃᑲᔪᖅᓱᖅᑕᐅᓯᒪᔪᓇᐊᖃᕐᓂᐊᕐᒪᖔᑕ ᑐᒃᑐᐃᑦ ᐊᒦᓱᓂᖏᓄᑦ ᐊᒻᒪᓗ ᓇᓅᓐᓂᑐᓐᓇᕐᓂᖏᓄᑦ, ᑎᑎᕋᖅᓯᒪᔪᓂᒃ ᒪᓕᒡᓗᑎᒃ ᑲᓇᑕᒥ ᐊᒥᓱᕈᖅᔫᓂᕐᒧᑦ ᖃᓄᐃᓕᐅᕈᑎᒃᓴᖏᓐᓂᒃ.
		ᐱᐅᓯᑎᐊᖅᑕᐅᓗᑎᒃ ᓄᓇᒥᒃ ᒪᓕᒍᑏᑦ ᖃᓄᐃᓕᖓᓂᖏᓐᓂᒃ ᐋᕿᐅᒪᓂᖏᓐᓂᒃ ᐊᑐᖅᑕᐅᕙᒃᑐᑦ ᓇᔪᙵᔭᐅᕙᒃᑐᓂᒃ ᐊᔾᔨᓕᐅᖃᑦᑕᕐᓂᖅ ᓴᓇᔭᐅᓯᒪᕙᒃᑐᓂᒃ ᖃᐅᔨᓴᖅᑎᓄᑦ (ᓱᕐᓗ ᐆᒃᑐᑎᒋᓗᒍ ᐱᐅᓂᖅᓴᓂᒃ ᑕᑯᒃᓴᐅᑎᑦᑎᓂᖅ ᖃᓄᖅ ᐱᕈᖅᑐᖃᕐᒪᙱᑕ ᓇᓂᑐᐃᓐᓇᖅ ᐅᑭᐅᖅᑕᖅᑑᓂᕐᒥ; ᐱᐅᓂᖅᓴᓂᒃ ᖃᐅᔨᒪᔪᓂᖏᑦ ᖃᓄᐃᓕᖓᓂᖏᑦ ᐊᐳᑎᐅᑉ ᐊᒻᒪᓗ ᒪᖁᑉ, ᒪᑯᒃᑐᕕᐅᓂᑎᓪᓗᒍ ᐊᐱᓯᒪᓕᓐᖅᑐᒥ, (ᓯᓚᐅᑉ ᐊᓯᔾᔨᖅᐸᓪᓕᐊᓂᖓᓄᑦ ᖃᓄᐃᓕᖓᓕᕈᑕᐅᓂᖏᑦ ᐊᒃᑐᐃᕙᒃᑐᑦ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᐃᑦ ᓂᕿᒃᓴᖅᓯᐅᕈᓐᓇᑎᐊᖃᕐᓂᖏᓐᓂᒃ); ᐱᐅᓂᖅᓴᓂᒃ ᖃᓄᐃᓕᖓᓪᓚᑎᙵᓂᖏᓐᓂᒃ ᖃᐅᔨᒪᔾᔭᑎᒃᓴᖃᕐᓗᑎᒃ ᓯᓚᓕᕆᓂᕐᒥᒃ ᒪᓕᑦᑎᐊᕐᓂᐊᕐᒪᑕ ᖃᓄᐃᓕᖓᔭᓂᒃ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ ᓇᒧᖓᐅᕙᙳᒪᖓᑕ ᓂᕿᒃᓴᖅᓯᐅᕐᕕᒋᔭᓯᒪᔪᓄᑦ).
		ᓇᓗᓇᕐᓂᖏᑦ ᖃᐅᔨᒪᔪᓂᖏᓐᓂᒃ ᖃᓄᐃᓕᖓᕙᙱᓂᖏᑦ ᑐᑭᓯᓂᐊᕈᑕᐅᓂᕐᒧᑦ ᐊᒥᓱᓂᖏᓐᓂᒃ ᑐᒃᑐᐃᑦ. ᖃᐅᔨᓴᕈᑎᒃᓴᐃᑦ ᑐᑭᓯᓂᐊᕈᑕᐅᖃᑕᐅᓂᐊᓕᑦ ᐊᒻᒪᓗ ᐊᔾᔨᒋᖏᓐᓂᖃᕐᓂᖏᑦ ᐊᑐᖅᑕᐅᔪᓐᓇᕐᓂᖏᓐᓂ.
ᓱᕈᕐᓇᖅᑐᑦ (ᐊᒃᑕᑯᐃᑦ ᐊᒻᒪᓗ ᓯᑎᔪᑦ ᐊᒃᑕᑯᐃᑦ ᓯᓚᒃᑯᕈᓐᓇᖅᑐᓪᓗ ᓱᕈᕐᓇᖅᑐᑦ	ᓴᓗᒻᒪᖅᓴᖅᑕᐅᓗᑎᒃ ᓱᕈᕐᓇᖅᑐᓖᑦ ᓄᓇᐃᑦ ᐊᓯᖏᓪᓗ ᐊᒃᑕᑯᓖ ᑕᐃᔅᓯᒪᓂᓂᑕᕐᓂᒃ ᐱᓕᕆᐊᕙᓚᐅᕐᓂᖏᓐᓄᑦ ᐊᒻᒪᓗ ᐊᐅᓚᑕᐅᓗᑎᒃ ᓱᕈᕐᓇᖅᑐᓕᐊᕆᔭᐅᕙᓪᓕᐊᓂᖏᑦ ᓄᑖᙶᓂᖅᓴᓂᒃ ᐱᓕᕆᐊᕙᓪᓕᐊᓕᖅᑐᓂ ᓴᑭᑎᑕᐅᕙᓪᓕᐊᔪᑦ.	ᓴᕿᑎᑦᑎᓗᑎᒃ ᐊᑐᓕᖅᑎᑦᑎᓗᑎᒃ ᐸᕐᓇᐅᑎᓂᒃ ᓴᓗᒻᒪᖅᓴᖅᑕᐅᓗᑎᒃ ᓱᕈᕐᓇᖅᑐᓕᑦ ᓄᓇᖏᑦ ᐊᒻᒪᓗ ᐊᓯᖏᓐᓂ ᐊᒃᑕᑯᓖᑦ ᓄᓇᖏᓐᓂ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖃᕐᕕᐅᕙᙱᓐᓂ. ᐸᕐᓇᐅᑎᑦ ᐃᓚᖃᕆᐊᓕᑦ ᑕᐃᒃᑯᓂᙵ ᒥᑭᔪᒥᒃ ᐊᒻᒪᓗ ᐊᑯᓂᖅᑐᓂᒃ ᐃᔾᔪᐊᖅᑕᐅᓯᒪᔪᓂᒃ ᒪᓕᒃᑐᓂᒃ ᖃᐅᔨᒪᔾᔪᑎᒃᓴᐅᔪᓂᒃ, ᐊᖏᔫᑎᙵᐅᓴᓗᓇᐊᖃᖏᒻᒪᑕ.
		ᐊᐅᓚᓪᓚᑕᐅᓗᑎᒃ ᓄᓇᓕᓐᓂᒃ ᐊᒃᑕᑯᓕᐊᑦ (ᓱᕐᓗ ᐆᒃᑐᑎᒋᓗᒍ ᐊᖏᓂᖏᑦ, ᖃᖓᐅᕙᖕᓂᖏᑦ, ᓇᑭᙳᕐᓂᖏᑦ) ᐅᔾᔮᖅᑐᑦᑎᐊᓇᐊᖅᓯᓂᕐᒧᑦ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ ᖃᓄᐃᖏᓐᓂᑦ ᐱᐅᖏᒃᑐᒥᒃ ᐊᒃᑐᖅᑕᐅᓯᒪᖏᑦᑐᑦ. ᓱᕈᕐᓇᖅᑐᓖᑦ ᐊᖏᕚᑎᓂᙱᖏᑦᑐᑦ ᓴᓇᕕᖕᓂ, ᑕᒪᑯᐊ ᓄᓇᓕᖕᓃᑦᑐᑦ ᖃᐅᔨᓴᕙᖕᓂᓗ ᑕᖕᒪᕕᐅᕙᒃᑐᓂ ᓴᓗᒻᒪᖅᓴᖅᑕᐅᔪᓇᐊᖅᑭᔪᑦ.
		ᓴᑭᑎᑦᑎᓗᑎᒃ ᐊᑐᖅᑕᐅᕙᖕᓂᐊᖅᑐᓂᒃ ᒪᓕᒃᑕᐅᔪᓐᓇᕐᓂᖏᓐᓂᒃ, ᓇᐅᑦᑎᖅᑐᐃᔾᔪᑎᓂᒃ, ᓴᓗᒻᒪᖅᓴᖅᑕᐅᖃᑕᐅᓂᐊᖅᑐᓂᖏᓐᓄ ᐅᖅᓱᐊᓗᕕᓂᕐᓂᒃ ᑐᕐᑯᖅᑎᓇᕙᖏᑦ. ᒪᓕᒐᕐᓂᒃ ᒪᓕᒃᑕᐅᑎᑦᑎᖃᑕᐅᓇᐊᖅᐳᑦ, ᐊᑭᓖᑎᑕᐅᖃᑦᑕᕐᓗᑎᒃ ᑭᓇᒃᑯᑐᐃᓐᓇᐃᑦ ᒪᓕᖏᑦᑐᑦ ᓴᓗᒻᒪᖅᓴᖅᑕᐅᖃᑕᐅᓇᐊᖅᑐᓂᖏᓐᓂᒃ ᐅᖅᓱᐊᓘᑎᖃᕐᕕᕕᓂᖏᑦ.
		ᐊᑐᓕᖅᑎᑦᑎᓗᑎᒃ ᓇᒪᔪᓂᕐ ᑮᓇᐅᔭᓂᒃ ᐃᓕᓯᕙᕆᖃᑦᑕᕐᓗᑎᒃ ᐊᑭᓕᐅᑕᐅᕙᖕᓂᐊᖅᑐᓂᒃ ᓴᓗᒻᒪᖅᓴᐅᔭᕆᐊᖃᕐᓂᖏᓐᓄᑦ ᑕᒪᕐᓂᒃ ᐱᓕᕆᕝᕕᐅᔪᑦ. ᓄᓇᓖᑦ ᐃᓄᐃᑦ ᐃᖃᓇᐃᔭᖅᑎᑦᑎᔪᓇᖅᑐᑦ ᓇᐅᑦᑎᖅᑐᐃᔩᒃᓴᓂᒃ ᓴᓗᒻᒪᖅᓴᖅᑕᐅᓂᖏᓐᓂ.
ᐃᒃᐱᒋᔭᒃᑕᖏᓐᓂ ᐸᒡᕕᓭᒃᑕᐅᖃᑦᑕᕐᓂᖅ		
ᐆᒻᒪᖁᓯᐅᕐᕖᑦ ᐅᔭᕋᖕᓂᐊᓕᓗ	ᐊᐅᓚᑕᐅᓗᑎᒃ ᐃᒃᐱᒋᔭᐅᔭᒃᑐᑦ ᐸᒡᕕᓇᖅᑑᓂᖏᑦ ᑕᒪᒃᑯᓄᖓ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ	ᑐᑭᓯᓂᐊᖅᑕᐅᖃᑦᑕᕐᓗᑎᒃ ᖃᓄᑎᒋ, ᓇᓂᓗ, ᖃᓄᐃᓕᖓᓕᕈᑕᐅᔪᓇᐊᖅᑐᓂᓪᓗ ᐃᒃᐱᒋᔭᐅᔭᒃᑐᑦ ᐸᒡᕕᓴᐃᓇᖅᑐᑦ (ᓱᕐᓗ ᐆᒃᑐᑎᒋᓗᒍ ᖃᖓᑕᔫᑦ/ᑎᖏᕈᑦ, ᖁᓕᒧᒨᑦ, ᓯᑮᑐᑦ, ᐱᖁᑎᓗ ᐊᑐᖅᑕᐅᔪᓇᐊᓕᑦ ᐅᔭᕋᖕᓂᐊᕙᒃᓴᖅᓯᐅᕐᓂᕐᒧᑦ ᐱᕚᓕᐊᕐᔪᐊᕈᑎᒃᓴᓄᓪᓗ ᓄᓇᒥ) ᑕᒪᑐᖓ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᓐᓂ ᐊᒻᒪᓗ ᐱᔪᓇᐊᖅᑲᐅᑎᒃ, ᐊᒃᑐᖅᑕᐅᓗᐊᓐᓂᑯᑕᐅᖁᔭᐅᓗᑎᒃ, ᐱᓗᐊᖅᑐᒥᒃ ᐊᒃᑐᖅᑕᐅᓴᕋᐃᓂᖏᓐᓂ (ᓱᕐᓗ ᐆᒃᑐᑎᒋᓗᒍ ᓈᒻᒪᒃᓯᔭᕌᖓᑦ ᓅᕕᕆᓕᒃᑕᖅᑕᖅᑕᐅᓂᖏᓐᓄᑦ, ᓄᕐᓇᕕᕆᕙᒃᑕᖏᓐᓄᓗ).

ᐃᒃᐱᒋᕙᒃᑕᖏᓐᓂ ᐸᕝᕙᓯᒃᑕᐅᙵᕐᓂᖅ		
ᐅᓗᕆᐊᓇᕈᑕᐅᔪᑦ ᐊᔪᕐᓇᕈᑏᓪᓗᓂᓐᑦ ᖃᓄᐃᓕᐅᖅᑕᐅᓂᖏᑦ	**ᐱᓕᕆᐊᖑᓂᖏᑦ**	**ᐅᓗᕆᐊᓇᕈᑕᐅᔪᑦ ᐊᔪᕐᓇᕈᑏᓪᓗᓐᓂᑦ ᖃᓄᐃᓕᐅᖅᑕᐅᓂᖏᑦ**
ᐳᓚᕋᑦᑐᓕᕆᓂᕐᒧᑦ ᐃᕿᐊᖑᐃᔭᐅᑕᐅᓂᕐᒧᓪᓗ	ᐊᐅᓚᑕᐅᓗᑎᒃ ᐃᒃᐱᒋᔭᐅᕙᒃᑐᑦ ᐸᕝᕙᓇᖅᑑᓂᖏᑦ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᓐᓄᑦ	ᒥᑭᓪᓕᑎᖅᑕᐅᓗᑎᒃ ᐸᕝᕙᓯᒃᑕᐅᙵᕐᓂᖏᑦ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ ᐊᑐᕐᓂᖏᓐᓂ ᓇᐅᑦᑎᖅᑐᖅᑕᐅᕙᖕᓂᖏᓐᓂ ᐊᒻᒪᓗ ᖃᐅᔮᓴᖅᑕᐅᙵᕐᓂᖏᓐᓂ (ᓱᕐᓗ ᐆᒃᑐᑎᒋᓗᒍ ᐊᖑᔭᐅᓇᓯᒋᐊᖃᕐᓂᖏᓐᓂ, ᐊᐅᓚᑕᐅᔭᕆᐊᖃᕐᓂᖏᓐᓂ ᐊᒻᒪᓗ ᖁᖓᓯᕈᑦᑎᖅᑕᐅᕚᖕᓂᖏᓐᓂ) ᐊᒻᒪᓗ ᐊᑐᙵᕐᓗᑎᒃ ᐸᕝᕙᓇᖏᓂᖅᓴᐅᔪᓂᒃ ᓇᐅᑦᑎᖅᑐᐃᔾᔪᑕᐅᕙᒃᑐᓂᒃ, ᖃᐅᔾᓴᕈᓯᕆᔭᐅᕙᒃᑐᓂᒃ ᐊᓯᖔᖏᓐᓂᒃ.
ᐅᓇᑕᖅᑐᒃᓴᐃᑦ ᐆᒃᑐᕋᖃᑦᑎᕐᓂᖏᑦ		ᑐᑭᓯᓂᐊᕈᑕᐅᓗᑎᒃ ᐊᓯᖕᖠᖏᑦ ᐅᑐᖅᑕᐅᔪᓐᓇᖅᑐᑦ to surveys.
ᐱᓕᕆᓂᖅ ᐊᓯᖏᓐᓂᓗ ᖃᓄᐃᓕᐅᖅᑕᐅᕙᒃᑐᓂᒃ		ᓴᕿᑎᑦᑎᓗᑎᒃ ᐱᐅᓂᖅᐹᓂᒃ ᓇᓗᓇᐃᒃᑯᑕᕐᓂᒃ ᐊᑐᖅᑕᐅᖃᑕᕆᐊᓕᖕᓂᒃ ᓇᓗᓇᐃᒃᑯᑕᕆᔭᐅᔪᓄᑦ ᖃᖓᑕᓲᕐᓄᑦ ᑎᖕᒥᓲᕐᓄᑦ ᐊᒻᒪᓗ ᐅᒥᐊᕐᔪᐊᑦ ᐃᖏᕐᕋᕙᖕᓂᖏᓐᓄᑦ. ᑕᒪᒃᑯᐊ ᑕᒪᐃᓐᓄᑦ ᓂᕈᑐᔪᒥᒃ ᓇᓂᑐᐃᓐᓇᖅ ᐊᑐᐃᓐᓇᐅᑎᑕᐅᖃᑦᑕᕐᓗᑎᒃ.
		ᐱᔫᒥᓴᐃᓂᖅ ᑐᑭᓯᓂᐊᖕᕕᐅᖃᑦᑕᕐᑯᔨᓂᖅ ᓄᓇᓕᖕᓂᒃ, ᐱᐅᓂᖅᐹᓂᒃ ᐊᑐᕆᐊᖃᖅᑕᖏᓐᓂᒃ ᖃᓄᑐᐃᓐᓇᖅ ᐱᒋᐊᖅᑐᖃᕐᓂᐊᓕᖅᐸᑦ ᐱᓕᕆᐊᖑᓂᐊᖅᑐᓂᒃ.
ᓇᐅᑦᑎᖅᑐᐃᓂᖅ		ᑐᑭᓕᐅᕈᑕᐅᓗᑎᒃ ᓇᐅᑦᑎᖅᑐᐃᓂᖏᓐᓂᒃ ᐃᓱᒪᒋᓗᒋᑦ ᖃᓄᖅ ᖃᓂᑎᒋᓂᖏᑦ ᐊᒻᒪᓗ ᖃᓄᖅ ᐊᑯᓂᐅᑎᔪᒥᒃ ᐊᒃᑐᖅᑕᐅᓯᒪᔪᓇᕐᓂᖏᓐᓂ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ.

ᑎᑎᖃᐃᑦ ᐃᓚᒃᑳᓐᓂᖏᑦ 4: ᓱᕋᖅᑎᖅᑕᐅᖁᓇᒋᑦ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᑦ ᓇᔪᖅᐸᒃᑕᖏᓪᓗ

ᐱᐅᖏᑦᑐᓂᒃ ᐊᕐᑐᖅᑕᐅᓗᐊᕇᒃᑯᑎᒃᓴᐃᑦ ᐱᔾᔪᑕᐅᓗᑎᒃ ᓴᕿᑎᑦᑎᓗᑕᐅᔪᓐᓇᖅᑐᑦ ᐱᓕᕆᐊᖑᔪᒪᔪᓂᒃ ᑕᐃᒃᑯᓂᖓ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᓐᓂ ᓇᔪᖅᐸᒃᑕᖏᓐᓂᓗ ᐊᐅᓚᑕᐅᔪᓐᓇᕐᒪᑕ ᐊᔾᔨᖏᑐᓂᒃ ᐱᓕᕆᐊᖑᓗᑎᒃ. ᑕᒪᒃᑯᐊ ᒪᑯᓂᖓ ᐃᓚᖃᕐᓇᖅᐳᑦ: ᐊᑐᖅᑕᐅᓕᒪᖃᑦᑕᕐᓂᖅ ᓇᔪᒐᕆᔭᐅᕙᖕᓂᖏᓐᓂᒃ ᓱᕋᐃᔪᓐᓇᖅᑐᓂᒃ ᐆᒪᔪᖃᕐᕕᐅᔪᓐᓇᕆᐊᖃᕐᓂᖏᓐᓄᑦ, ᑐᓴᖅᓴᐅᔪᖃᕈᓐᓇᕐᓂᖏᓐᓂᒃ ᒥᕿᓪᓕᑎᕆᕙᓪᓗᑎᒃ ᐅᕝᕙᓗᓐᓂᑦ ᓴᓗᒪᔪᓐᓂᕈᑕᐅᓂᐊᖅᑐᓂᒃ, ᐸᒃᕕᓴᒃᑕᐅᓗᐊᕌᑯᑎᒃᓴᓂᒃ ᐊᑐᖃᑦᑕᕐᓗᑎᒃ ᐋᕿᒋᐊᖅᑕᐅᖃᑦᑕᕐᓗᑎᒃ ᖃᓄᐃᓕᖓᓂᖏᑦ, ᐊᒻᒪᓗ ᖃᖑᓂᐊᖅᑐᒥᒃ ᐸᒃᕕᓇᓚᖓᖔᖓᕝᕕᑕ. ᑕᒪᒃᑯᐊ ᐊᕙᒃᑐᖅᓯᒪᓂᖏᓂ ᐅᖃᐅᓯᐅᔾᔪᑦ ᐊᑖᓂ ᐆᒃᑑᑎᒃᓴᐅᔾᔪᑦ ᐃᓱᒪᒋᔭᐅᔭᕆᐊᖃᖅᑐᓂᒃ ᐊᒻᒪᓗ ᐊᒃᑐᖅᑕᐅᓗᐊᓈᒃᑯᑕᐅᔪᓐᓇᖅᑐᓂᒃ ᐸᕐᓇᐃᕙᓪᓕᐊᓕᖅᑐᓄᑦ ᐅᔭᕋᖕᓂᐊᓚᒃᓴᖅᓯᐅᕈᒪᔪᓂ, ᓴᓇᔭᐅᖁᔨᔪᓂᒃ ᐊᒻᒪᓗ ᐱᓕᕆᔪᒪᔪᓂᒃ ᑕᒪᒃᑯᓇᓂ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖃᕐᕕᐅᓂᖏᓐᓂ.

ᐃᓱᒪᒃᓴᖅᐅᓯᕈᑎᒃᓴᐃᑦ ᐸᕐᓇᐃᓂᖏᓐᓂ ᓴᓇᔭᐅᖁᔨᓂᖅ ᐊᖏᔫᑎᓂᒃ	ᐆᒃᑑᑎᒃᓴᐃᑦ ᐊᒃᑐᖅᓯᓗᐊᓈᒃᑯᑕᐅᔪᓐᓇᓯᖅᑐᓂᒃ
ᐱᕙᓪᓕᐊᔪᓂᒃ ᐊᒃᑐᖅᑕᐅᔪᓐᓇᕐᓂᖏᑦ ᐸᒃᕕᒃᓴᑕᐅᓂᖏᓐᓄᑦ ᕿᓚᒥᐅᔪᒃᑯᑦ ᐊᒻᒪᓗ ᐊᑯᓂᐅᔪᒃᑯᑦ	ᐊᒃᑐᖅᑕᐅᓗᐊᖅᑕᐃᓕᒪᓗᑎᒃ ᐊᓯᔾᔨᖅᑕᐅᔪᓐᓇᕐᓂᖏᓐᓄᑦ ᐊᕙᑎᖏᑦ ᓴᓇᕝᕕᐅᓕᕈᑎᒃ, ᐃᓱᒪᒋᓗᒋᑦ ᓇᓃᓐᓂᖏᑦ ᓇᔪᒐᕆᔭᐅᕙᒃᑐᑦ ᑐᒃᑐᓄᑦ ᐊᓯᔾᔨᖅᑕᐅᓯᒪᓕᓈᒃᑐᑦ, ᐃᓱᒪᒋᓗᒋᑦ ᖃᓄᖅ ᖃᓂᓐᓂᖃᕐᒪᖔᑕ ᐊᒥᓱᑦ ᐊᔾᔨᒌᖏᑦᑐᑦ ᐸᒃᕕᓴᒍᑕᐅᔪᓐᓇᖅᑐᑦ ᐊᔪᓕᕈᑕᐅᕝᕙᒃᑐᑦ ᓅᑐᓐᓇᖃᑦᑕᕐᓂᖏᓐᓄᑦ ᓇᒨᖓᐅᔪᓐᓇᕐᓂᖏᓄᑦ ᓄᓇᒥᐅᑕᐃᑦ ᐆᒪᔪᐃᑦ ᐊᒻᒪᓗ ᐃᑳᕐᓇᕆᐊᖃᕐᓂᖏᓐᓄᑦ ᑕᕆᐅᕐᒥ ᓯᑯᒃᑯᑦ.
ᖃᓂᕐᓂᖏᑦ ᓇᔪᖅᑕᐅᕙᒃᑐᓄᑦ	ᐸᒃᕕᓭᒃᑕᐅᓗᐊᖅᑕᐃᓕᒪᓗᑎᒃ ᐋᕿᒋᐊᖅᑕᐅᖃᑦᑕᕐᓗᑎᒃ ᖃᓄᐃᓕᖓᓂᖏᑦ ᓴᓇᔭᐅᓯᒪᓂᐊᖅᑐᑦ (ᐊᒥᓱᓂ ᐊᕙᓗᖃᕐᓂᖏᓐᓂ ᓴᖑᐃᔭᖅᓯᒪᓂᐊᖅᑐᑦ ᓴᓂᐊᓂ ᑐᑭᒧᐊᑐᐃᓐᓇᖅᑐᓂᒃ ᐊᕙᓗᖃᕈᓐᓇᕐᓂᖏᓐᓂᒃ). ᓴᓇᔭᐅᔪᒪᔪᑦ ᖃᓂᒋᔭᐅᓂᖏᑦ ᐋᕿᐅᒪᔭᕆᐊᖃᖅᐳᑦ ᑕᒪᒃᑯᐊ ᖁᑦᑎᒃᑐᒥ ᑐᒃᑐᖏᑦ ᓃᖃᑕᕈᓐᓇᕆᐊᖃᕐᒪᑕ ᓇᒧᑐᐃᓐᓇᖅ ᑎᑭᐅᑎᔪᓐᓇᕐᓗᑎᒃ ᓇᔪᖅᐸᒃᑕᑐᖃᖏᓐᓄᑦ ᓄᓇᒨᑦ, ᑕᒪᒃᑯᓂᖓᓗ ᑕᑎᐅᕐᒥ ᓯᑯᒥᒃ, ᐱᔭᕆᐊᖃᓕᕖᖓᒥᒃ.
ᐊᕙᑎᓕᕆᓂᖅ	ᓱᕋᑎᖅᑕᐅᑦᑕᐃᓕᒪᓗᑎᒃ ᐸᒃᕕᓭᒃᑕᐅᑦᑕᐃᓕᒪᖃᑦᑕᕐᓗᑎᓪᓗᓐᓃᑦ ᑕᐅᕝᕙᒃᑯᐊ ᖃᓂᒋᔭᖏᓪᓗᓐᓃᑦ ᐊᒃᑐᖅᑕᐅᓴᕋᐃᓐᓂᖏᓐᓂ ᖃᐅᔨᒪᔭᐅᔪᑦ ᓱᕐᓗ ᓄᕐᕆᕕᒋᕝᕙᒃᑕᖏᑦ ᐅᕝᕙᓗᓐᓃᑦ ᓄᓕᐊᕐᕕᒋᕝᕙᒃᑕᖏᑦ.
ᐃᒃᐱᒋᔭᐅᕚᓂᖏᑦ ᐸᒃᕕᓇᕐᓂᖏᑦ	ᐊᒃᑐᖅᑕᐅᓗᐊᓈᑯᑎᖃᕐᓗᑎᒃ ᑐᓴᖅᓴᐅᔪᖃᐃᓐᓇᕐᓂᕐᒥᒃ, ᖃᐅᔨᒪᓂᒃ, ᑎᐱᖃᖅᑐᓂᒃ ᐊᒻᒪᓗ ᐊᐅᓚᐃᓐᓇᖅᑐᓂᒃ, ᐸᕝᕕᓃᑯᑕᐅᒋᐊᕐᓗᑎᒃ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᖏᓄᑦ.
ᖃᖓ ᐸᒃᕕᓭᒃᑲᑕᐅᕙᖕᓂᖏᑦ	ᐃᓚᖏᑦ ᐸᒃᕕᓴᒍᑕᐅᕙᒃᑐᑦ ᐊᑐᖅᑕᐅᖃᑦᑕᕈᓐᓇᖅᑐᑦ ᐊᕐᕋᒍᒥ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᐃᑦ ᑕᐅᕙᓂ ᐱᑕᖃᙱᓂᖏᓐᓂ ᐅᕝᕙᓗᓐᓃᑦ ᐊᒃᑐᖅᑕᐅᓗᐊᖃᑦᑎᓂᖅᓴᐅᔪᓂ ᑕᒪᒃᑯᓄᖓ ᐸᒃᕕᓴᒍᑕᐅᔪᓐᓇᖅᑐᓄᑦ.
ᓱᕈᕐᓇᖅᑐᓖᑦ	ᐊᒃᑐᖅᑕᐅᓗᐊᖅᑕᐃᓕᓗᑎᒃ ᓱᕈᓇᕈᑕᐅᔪᓐᓇᖅᑐᓄᑦ ᐊᑐᖃᑦᑕᕐᓗᑎᒃ ᓴᓗᒻᒥᖅᓴᐅᑎᕐᔪᐊᕐᓂᒃ ᐊᓯᖏᓐᓂᓗᓐᓂᑦ. ᐅᔾᔨᖅᑐᑦᑎᐊᖃᑦᑕᕐᓗᑎᒃ ᓄᓇᐃᑦ ᑕᒪᐃᓐᓂᑦᑎᐊᖅ ᓴᓗᒻᒥᖅᓴᖅᑕᐅᑦᑎᐊᖃᑦᑕᕐᓂᖏᓐᓂᒃ ᐱᔭᕇᕐᑕᐅᖅᓚᖓᒥᒃ ᐱᓕᕆᐊᕆᔭᐅᔪᑦ ᓴᓇᔭᐅᔪᑦ.