3.0 ᐊᖑᔭᐅᔪᓐᓇᖅᑐᑦ ᐆᒪᔪᐸᐅᔭᓄᑦ ᐱᓱᒃᑎᓄᑦ ᑯᑭᓕᓐᓄᑦ

3.1 ᐅᒥᖕᒪᑦ (Ovibos moschatus)

3.1.1 ᓇᔪᒐᖃᖃᑎᒌᓐᓂᖏᑦ

ᐊᑐᓕᖁᔭᐅᔪᑦ ᐊᖑᔭᐅᔪᓐᓇᖅᑐᑦ ᓄᓇᕗᑦ 19-ᓂ ᐅᒥᖕᒪᑦ ᓇᔪᒐᖃᖃᑎᒌᓐᓂᖏᓐᓂ (ᓇᓗᓇᐃᖅᓯᒋᐊᕈᑦ 3.1, ᓇᓗᓇᐃᖅᓯᔾᔪᑦ 3.1), ᑖᒃᑯᓇᓐᖔᖓᕗᑦ ᓇᔪᒐᖃᖃᑎᒌᑦᑐᑦ ᐃᓄᒋᐊᓐᓂᖏᓐᓂᒃ ᓇᓗᓇᐃᖅᓯᔾᔪᑎᖓ “ᓇᔪᒐᖃᖃᑎᒌᑦᑐᑦ”. ᓇᓗᓇᐃᖅᓯᒪᔭᕗᑦ ᐅᒥᖕᒪᑦ ᓇᔪᒐᖃᖃᑎᒌᓐᓂᖏᑦ ᑲᑎᓐᖓᐅᖅᑐᑦ ᑕᕝᕙᓂᑦᓴᐃᓐᓇᖅ ᑖᒃᑯᓇᓂ ᐃᕐᓂᐅᕐᕕᐅᔪᓂ ᐊᒻᒪᓗ ᑐᖁᖃᑦᑕᕐᕕᐅᔪᑦ ᖃᑦᓯᐅᓂᖏᓐᓂᒃ ᓱᓕᔪᕆᔭᐅᔪᑦ ᐃᑲᔪᖅᓯᒪᓂᖅᓴᐅᒋᐊᖏᑦ ᓇᔪᒐᖃᖃᑎᒌᓐᓂᖏᑕ ᐊᓯᔾᔨᖅᑕᖃᑦᑕᕐᓂᖏᓐᓂᒃ ᓈᓴᖅᑕᐅᓯᒪᓂᐅᓐᖏᑦᑐᓂᒃ ᓄᒃᑕᖃᑦᑕᖅᑐᑦ ᐊᒻᒪᓗ ᓅᖃᑦᑕᕐᓂᖏᓐᓂᓪᓗ. ᑕᒪᐃᓐᓂᒐᓚᒃ, ᑖᒃᑯᐊ ᓇᔪᒐᖃᖃᑎᒌᑦᑐᑦ ᐃᓄᒋᐊᓐᓂᖏᑦ ᐊᕕᑦᑐᖅᓯᒪᓂᐅᔪᑦ ᓇᓗᓇᐃᖅᑕᐅᓯᒪᕗᑦ ᑖᒃᑯᓇᓐᖔᖅᓯᒪᓪᓗᑎᒃ ᐊᕐᓇᓗᓐᓂᒃ ᑖᒃᑯᓇᓐᖓᖅᓯᒪᔪᓂᒃ ᓇᔪᒐᖃᖃᑎᒌᔭᖏᓐᓂᒃ ᐱᔾᔪᑎᒋᓪᓗᒍ ᐅᒥᖕᒪᑦ ᐊᒥᓱᓂᒃ ᓄᓕᐊᖃᓲᖑᒻᒪᑕ. ᐊᒥᓱᓂᒃ ᓄᓕᐊᖃᓲᖑᔪᑦ ᐆᒪᔪᑦ ᓈᖕᒪᑐᐊᖅᒐᐸᑕ ᐊᖑᑕᐅᓂᖏᑦ ᓄᓕᐊᒐᒃᓴᖃᑐᐊᕌᖓᑕ ᐊᑐᐃᓐᓇᖅᑕᖃᑐᐊᕋᐃᒻᒪᑦ ᐊᕐᓇᓂᒃ, ᐊᒥᓱᕐᖑᐸᓪᓕᐊᓂᖏᑦ ᐊᕐᓇᐃᑦ ᓇᓗᓇᐃᖅᓯᒪᔾᔪᑕᐅᓂᐊᖅᑐᑦ ᓇᔪᒐᖃᖃᑎᒌᑦᑐᑦ ᐊᒥᓱᕐᖑᐸᓪᓕᐊᓂᖏᓐᓂᒃ.

ᓄᓇᓐᖑᐊᑎᒍᑦ ᑭᒡᓕᒋᔭᐅᔪᑦ ᓄᓇᕗᒻᒥ ᐅᒥᖕᒪᑦ ᓇᔪᒐᖃᖃᑎᒌᓐᓂᖏᓐᓄᑦ (ᓇᓗᓇᐃᖅᓯᒋᐊᕈᑦ 3.1) ᓇᓗᓇᐃᖅᑕᐅᓯᒪᕗᑦ ᓯᕗᓂᐊᓂ ᖃᐅᔨᓴᖅᑕᐅᓯᒪᓂᖏᑎᒍᑦ ᐃᓄᐃᑦ ᖃᐅᔨᒪᔭᑐᖃᖏᓐᓂᒃ, ᖃᐅᔨᓴᕈᑎᕕᓂᕐᓂᒃ, ᓄᒃᑕᕐᓂᖏᓐᓂᒃ ᓈᓚᐅᓯᖅᑕᐅᓯᒪᔪᑦ ᖁᖓᓯᕈᑎᓂᒃ ᐆᒪᔪᑦ, ᐊᒻᒪᓗ ᖃᐅᔨᒪᔭᐅᓂᖏᑦ ᓇᒧᓐᖓᖅᑕᕈᓐᓇᕐᓂᖏᓐᓄᑦ ᐊᐳᕈᑎᐅᕙᑦᑐᑦ ᓄᒃᑕᕐᓂᖏᓐᓄᑦ (ᓲᕐᓗ, ᓯᕐᒦᑦ, ᑕᕆᐅᖅ, ᑰᑦ ᐊᒻᒪᓗ ᓯᑯᓯᒪᓂᕆᔭᐅᔪᑦ, ᓄᓇᓐᖑᐊᓅᖅᑲᖅᑕᐅᓯᒪᓂᖏᓐᓄᑦ ᖃᐅᔨᓴᖅᑕᐅᓃᑦ ᐊᒻᒪᓗ ᓂᕿᑦᓴᖏᓐᓄᑦ).

ᑕᒪᕐᒥᒃ ᓄᓇᐃᓐᓇᕐᒥᒃ ᓇᔪᒐᖃᖃᑎᒌᓐᓂᖏᑕ ᑭᒡᓕᒋᔭᖏᑦ ᑖᒃᑯᓇᓐᖔᖅᓯᒪᕗᑦ ᖃᐅᔨᓴᕈᑎᕕᓂᕐᓂᒃ ᐊᒻᒪᓗ /ᐅᕝᕙᓘᓐᓃᑦ ᐊᖑᓇᓱᒃᑏᑦ ᐅᓂᒃᑳᖅᑕᖃᑦᑕᖅᓯᒪᓂᖏᓐᓂᒃ ᐊᒻᒪᓗ ᑕᑯᖃᑦᑕᖅᓯᒪᔭᖏᑎᒍᑦ ᖃᐅᔨᒪᓂᖏᑦ ᑲᔪᓯᔾᔪᑕᐅᓐᖏᔾᔪᑕᐅᖃᑦᑕᖅᑐᓂᒃ ᐅᒥᖕᒪᑦ ᐱᑕᖃᕐᓂᖏᓐᓂᒃ (ᓲᕐᓗ, ᖃᑦᓰᓇᕐᓂᒃ ᐱᑕᖃᓐᖏᑦᑐᒧᑦ ᓇᔪᒐᖏᓐᓂ, ᐊᒻᒪᓗ/ᐅᕝᕙᓘᓐᓃᑦ ᓄᓇᓂ ᐊᐳᖅᑕᕐᕕᒋᕙᒃᑕᖏᑦ). ᐃᓱᒪᒋᔭᐅᓯᒪᒻᒥᔪᑦ ᓇᔪᒐᖃᖃᑎᒌᑦᑐᓄᑦ ᑭᒡᓕᓕᐊᖑᓯᒪᔪᑦ ᓇᓗᓇᐃᖅᑕᐅᓯᒪᔪᑦ ᓇᔪᒐᕆᒐᔪᓲᕆᕙᖏᑦ ᐱᖕᒪᕆᐅᑎᑦᑐᒋᓪᓗ ᖃᐅᔨᓴᖅᑕᐅᓯᒪᓂᖏᓐᓂ ᐅᖓᓯᑦᑐᒧᑦ ᑐᕌᐃᓐᓇᖅᑐᒥᒃ ᑖᒃᑯᓄᖓ ᓄᓇᐃᓐᓇᕐᒥ ᐅᒥᖕᒪᓐᓄᑦ ᓇᔪᒐᖃᖃᑎᒌᑦᑐᓄᑦ. (Gunn and Fournier, 2000).

ᕿᑭᖅᑕᓂᓕ ᓇᔪᒐᖃᖃᑎᒌᑦᑐᑦ ᐅᒥᖕᒪᑦ, ᐊᕝᕗᑎᓯᒪᖃᑦᑕᓲᖑᕗᑦ ᐅᖓᓯᑦᑎᒋᓂᖓᓄᑦ ᓇᓗᓇᐃᖅᑕᐅᓯᒪᔪᒃᑯᑦ ᑕᒪᐃᓐᓄᑦ ᐱᓐᖏᑦᑐᑑᓗᑎᒃ ᕿᑭᖅᑕᐸᐅᔭᐅᓂᖅᓴᐃᑦ. ᑐᓴᕈᑎᑕᖃᓗᐊᓐᖏᓐᓂᖓᓄᑦ ᓇᓗᓇᐃᒃᑯᓯᖅᑕᐅᓯᒪᔪᓂᒃ ᐅᒥᖕᒪᓐᓂᒃ ᖃᐅᔨᓇᖅᓯᒪᓐᖏᓚᖅ ᓄᒃᑕᖃᑦᑕᕐᓂᖏᓐᓂᒃ ᕿᑭᖅᑕᒥ ᑭᓯᐊᓂ

ᓯᓚᒥᒃ ᐱᔾᔪᑎᖃᖅᑐᑎᒃ ᓅᑎᑕᐅᓲᖑᔪᑦ (ᓲᕐᓗ ᓯᓚᕐᓂᓗᑦᑐᕐᔪᐊᕌᓘᑎᓪᓗᒍ. ᓱᓕᒃᑲᓐᓂᖅ ᖄᖓᒍᑦ, ᖃᑦᓰᓐᓇᐃᑦ ᖃᐅᔨᔭᐅᓯᒪᔪᑦ ᐅᒥᖕᒪᑦ ᐃᑳᖅᑎᓪᓗᒋᑦ ᑐᕙᒃᑯᑦ (Taylor 2005) ᐃᓱᒪᒋᔭᐅᔪᑦ ᐅᒥᖕᒪᑦ ᐅᖓᓯᑦᑐᒨᖃᑦᑕᕐᓂᖏᑦ ᐊᕝᕗᑎᓯᒪᔪᑦ ᕿᑭᖅᑕᓂ.

ᐊᒃᑐᖅᑕᐅᓂᒻᒪᕆᖃᑦᑕᓲᕆᓂᖅᐹᖏᑦ ᖃᐅᔨᓴᖅᑕᐅᓯᒪᓂᖏᑎᒍᑦ ᐱᑕᖃᐅᕐᓂᖏᓐᓂᒃ ᐱᕈᖅᑐᑦ ᐊᒻᒪᓗ ᐆᒪᔪᑦ ᓯᓚ ᐊᒻᒪᓗ ᐅᑭᐅᖅᑕᖅᑑᑉ ᓯᓚᖓ ᐊᒡᒍᑐᖅᓯᒪᓂᖓᓄᑦ (Maxwell 1981). ᑕᓪᓗᕈᑎᐅᑉ ᐱᖓᓐᓈᓂ (M/07-WD) ᐊᕕᑦᑐᖅᓯᒪᓂᖓ ᐊᕕᒃᓯᒪᖕᒪᑦ (I, ᐅᐊᖕᓇᖅᐸᓯᒻᒥᒃ) ᐅᐊᖕᓇᕐᒥᒃ ᓂᒋᐊᓄᑦ ᑕᓪᓗᕈᑎᐅᑉ ᕿᑭᖅᑖᓗᐊᓂ (MX/05-ND and MX/06-SD). ᐊᒻᒪᓗ ᓱᓕ, ᒪᕐᕉᒃ ᐊᐅᓚᑦᓯᕕᐅᔫᑉ ᐊᐅᓱᐃᑦᑐᒥᐅᑦ ᕿᑭᖅᑖᓗᐊ (MX/04-SE and MX/03-CE) ᑖᒃᑯᓄᓐᖓᖓᒻᒪᕆᖃᑦᑕᕐᒥᔪᑦ ᒪᕐᕉᓕᖅᑲᖓᒻᒪᑎᒃ ᓯᓚᖏᒃ ᐊᕕᑦᑐᖅᓯᒪᓂᐅᔫᒃ IV ᐊᒻᒪᓗ V. ᑖᒃᑯᓄᓐᖓᖓᔪᓂᒃ ᑐᓴᕈᑎᑕᖃᓐᖏᓐᓂᖓᓄᑦ, ᐊᕝᕗᑎᓯᒪᖃᑦᑕᕐᓂᖏᑦ

ᑕᐃᒪᐃᓐᓂᖏᓐᓄᑦ ᐊᖏᖅᑕᐅᓯᒪᕗᑦ ᐊᒻᒪᓗ ᖃᐅᔨᓴᖅᑕᐅᓯᒪᓂᖏᑦ ᐱᕈᖅᑐᖃᕐᓂᐅᔪᑦ ᓂᕐᔪᑎᖃᕐᓂᐅᔪᓪᓗ ᐊᒃᑐᐃᓯᒪᓂᕆᔭᖏᑦ ᐅᒥᖕᒪᖃᕐᓂᐅᔪᑦ ᐋᖅᑭᑦᓯᒪᓂᖏᑦ. ᐃᑲᔪᖅᑕᐅᓯᒪᓂᖏᑦ ᐊᑐᖅᑕᐅᖃᑦᑕᕐᓂᖏᑕ ᓯᓚᖏᑦ ᐊᕕᑦᑐᖅᓯᒪᓂᖏᑎᒍᑦ ᐃᓄᖕᓃᖔᖅᓯᒪᕗᑦ ᐊᖑᓇᓱᒃᑎᓂᒃ. ᖃᐅᔨᒪᓂᖏᑦ ᓇᓗᓇᐃᖅᓯᓯᒪᖕᒪᑕ ᐅᒥᖕᒪᑦ ᐊᔾᔨᒌᖃᑦᑕᖏᓐᓂᖅᓴᐅᓂᖏᑦ ᐊᑦᓯᓂᖅᓴᐅᔪᑦ ᐊᐅᓱᐃᑦᑐᒥᐅᑦ ᕿᑭᖅᑖᓗᐊᓂ ᐊᒻᒪᓗ ᑕᓪᓗᕈᑎᐅᑉ ᕿᑭᖅᑖᓗᐊᓂ ᐊᔾᔨᒋᔭᐅᓐᖏᓂᖅᓴᐅᓪᓗᑎᒃ ᑭᓐᖓᓚᕐᒥ, ᑰᒐᓇᔫᑉ ᓄᓇᖓᓂ ᐊᒻᒪᓗ ᑐᒃᑐᓯᐅᕐᕕᖕᒥ (Taylor 2005). ᐊᐅᓱᐃᑦᑑᑉ ᓄᓇᖓ ᐊᒻᒪᓗ ᑕᓪᓗᕈᑎᐅᑉ ᕿᑭᖅᑖᓗᐊ ᓯᓚᖏᓐᓄᑦ ᐊᕕᑦᓯᒪᕕᐅᓂᖅᓴᐅᕘᒃ ᐃᒃᑮᓇᕐᓂᓴᐅᓪᓗᑎᒃ ᐸᓂᕐᓂᓴᐅᓪᓗᑎᓪᓗ ᐊᒻᒪᓗ ᓯᓚᖏᑦ ᐊᓯᔾᔨᑭᑕᓐᓂᖅᓴᐅᓲᖑᓪᓗᑎᒃ (Maxwell 1981) ᓯᓚᓪᓕᕈᓐᓇᕐᓂᖓᓄᑦ ᐅᑭᐅᒃᑯᑦ ᐊᒻᒪᓗ ᖃᓐᓂᓂᖅᓴᐅᖃᑦᑕᓲᖑᓪᓗᑎᒃ. ᓯᓚ ᐊᒃᑐᐃᓂᖃᖃᑦᑕᖅᑑᔮᕐᒪᑦ ᐃᓄᒋᐊᒃᑐᐃᑦ ᐱᕙᓪᓕᐊᑎᑦᓯᖃᑦᑕᕐᓂᖏᓐᓂᒃ, ᑕᒪᓐᓇ ᐱᔾᔪᑕᐅᒃᑲᓂᖅᑐᒻᒪᕆᐊᓗᒃ ᓇᓗᓇᐃᖅᓯᓂᕐᒥᒃ ᐊᖑᔭᐅᔪᓐᓇᖅᑐᑦ ᓯᓚᖏᑎᒍᑦ.

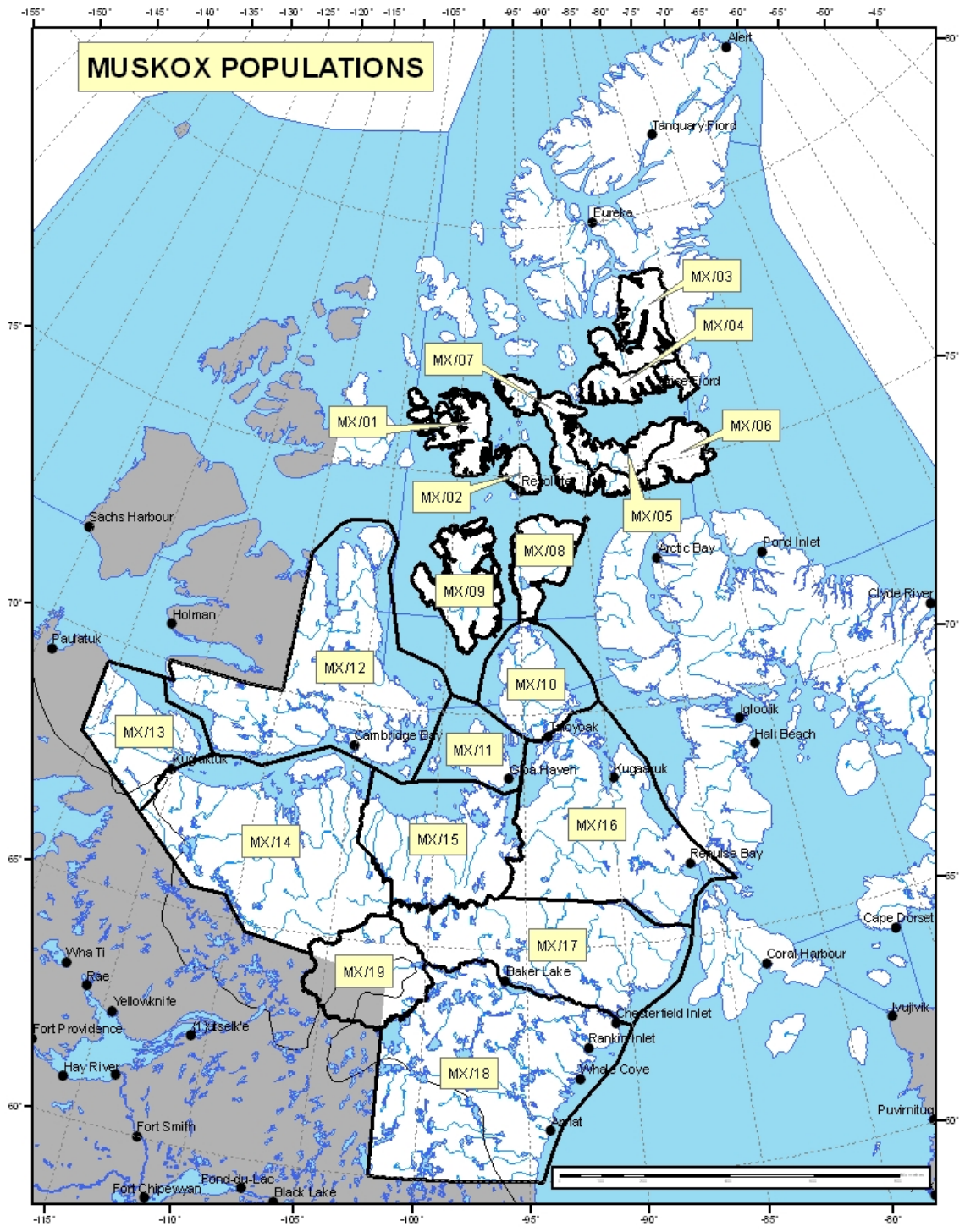
3.1.2 ᐅᒥᖕᒪᑦ ᓄᒃᑕᕐᓂᖏᑦ ᖃᖓᐅᓕᕌᖓ ᐊᕐᕌᒍᒥ

ᖃᓗᓪᓈᑦ ᖃᐅᔨᓴᖅᑎᕐᔪᐊᖏᑎᒍᑦ ᑐᓴᕈᑎᑕᖃᓗᐊᓐᖏᑦᑐᖅ ᐅᒥᖕᒪᑦ ᓄᒃᑕᕐᓂᖏᓐᓂᒃ. ᖃᐅᔨᓴᕐᓂᓪᓗᐊᑕᐅᓯᒪᔪᑦ ᒪᓕᓚᐅᖅᑐᑦ ᐅᒥᖕᒪᑦ ᓄᒃᑕᕐᓂᖏᓐᓂᒃ ᐅᑭᐅᕋᓴᓐᓂ Tener (1965), Reynolds (1998), ᐊᒻᒪᓗ Gunn ᐊᒻᒪ Fournier (2000). ᑖᒃᑯᐊ ᓄᒃᑕᕐᓂᐅᔪᑦ ᐊᔾᔨᒌᖃᑦᑕᖅᓯᒪᔫᔮᓐᖏᓚᑦ ᐊᕐᕌᖑᒥᒃ ᐊᕐᕌᒍᒧᑦ, ᐱᖅᑯᓯᕆᖃᑦᑕᖅᑕᖏᑎᒍᑦ ᐅᑎᖅᑕᖅᑎᐅᖏᑦᑐᑦ ᐃᓕᖅᑯᓯᖏᑦ ᓇᓗᓇᓐᖏᓯᐊᖅᐳᖅ ᓯᕕᑭᑦᑐᓂᒃ ᐊᖏᕐᕋᖅᑕᕐᕕᖃᖃᑦᑕᑎᓪᓗᒋᑦ ᓄᓇᓂᒃ ᓇᓗᓇᓐᖏᔾᔪᑕᐅᔪᑦ

(Gunn and Fournier, 2000). ᓄᒃᑕᖃᑦᑕᕐᓂᕆᔭᖏᑦ ᐅᐱᕐᖓᑦᓵᒥᒃ (ᓄᕐᕆᐅᓕᖅᑎᓪᓗᒋᑦ) ᐄᑉᕈ ᓄᖑᓕᖅᑎᓪᓗᒍ ᒪᐃ ᓄᓐᖑᐊᓄᑦ (ᔫᓂᒥ ᐱᓇᓱᐊᕈᓯᖓᑕ ᓯᕗᓪᓕᖅᐹᖓᓅᕋᔪᐃᑦᑐᑦ) ᐊᒻᒪᓗ ᐊᐅᔭᑐᖃᒃᑯᑦ ᐅᑭᐊᑦᓴᓕᕋᑖᒧᓄ ᑕᐃᒃᑯᓇᓂ ᓄᓕᐊᕆᐊᓯᖃᑦᑕᓲᖑᔪᑦ. ᓄᒃᑕᖃᑦᑕᕐᓂᖏᑦ ᓂᕿᑦᓴᓯᐅᕐᓂᕐᒧᑦ ᐱᔾᔪᑕᐅᓗᐊᖅᓱᕆᔭᐅᔪᑦ ᐱᔪᓐᓇᖅᑕᒥᓂᒃ ᐊᐳᒻᒥ ᐅᐱᕐᖓᓵᒃᑯᑦ ᐊᒻᒪᓗ ᓂᕿᑦᓴᖅᓯᐅᕐᓂᖏᓐᓄᑦ ᑎᒥᖏᓐᓄᑦ ᓈᖕᒪᑦᑐᓂᒃ ᐊᒻᒪᓗ ᐱᑕᖃᑦᓯᐊᖅᑐᓂᒃ ᑭᖑᓂᐊᒍᑦ ᓂᕿᑦᓴᖅᓯᐅᓯᖃᑦᑕᖅᑐᑎᒃ ᐊᐅᔭᒃᑯᑦ ᐅᑭᐊᑦᓵᑯᓪᓗ. ᑕᒪᒃᑯᐊ ᖃᐅᔨᔭᐅᓂᑰᔪᑦ ᑐᑭᓯᓇᓱᐊᕐᓗᒋᑦ ᓇᓗᓇᑦᓯᐊᖅᑐᑦ ᐃᓂᒋᔭᖏᓐᓂ ᓇᔪᒐᖃᖃᑎᒌᓐᓂᖏᑦ ᐱᔾᔪᑕᐅᓗᐊᖅᑐᑦ ᓄᒃᑕᓗᐊᖃᑦᑕᕈᑎᒋᔭᖏᑦ ᖃᐅᔨᔭᐅᓗᐊᕋᔪᐃᑦᑐᑦ. ᐊᕐᕌᒎᑉ ᐃᓗᐊᓂ ᓯᓚᒥ ᒪᓕᒃᑐᑎᒃ ᓄᒃᑕᖃᑦᑕᕐᓂᖏᑦ ᐆᒪᔪᑦ ᓇᔪᒐᖃᖃᑎᒌᓐᓂᖏᓐᓄᑦ ᐃᓂᒋᔭᖏᓐᓂᒃ ᐱᔾᔪᑕᐅᓗᐊᖃᑦᑕᖅᓱᕆᔭᐅᔪᑦ, ᓂᕿᑦᓴᖃᑦᓯᐊᓂᕐᒧᑦ/ᓂᕿᑦᓴᖃᑦᓯᐊᖅᑐᒥ, ᐊᒻᒪᓗ ᓂᕿᒋᐅᑎᓂᖏᓐᓄᑦ ᐆᒪᔪᑦ. ᑕᐃᒪᐃᒻᒪᑦ, ᑕᒪᒃᑯᐊ ᓄᒃᑕᕐᓂᖏᑦ ᐊᔾᔨᒌᓐᖏᑐᒻᒪᕆᐅᓲᖑᔪᑦ ᓇᓃᓐᓂᖏᓐᓂ ᐅᒥᖕᒪᖃᐅᖅᑐᑦ ᐊᐱᓯᒪᓂᖓ, ᓂᕿᖃᑦᓯᐊᕐᓂᖓ (ᓄᓇᕋᖃᑦᓯᐊᕐᓂᖓ), ᐅᒥᖕᒪᑦ ᐃᓂᒋᔭᖏᑦ, ᐊᒻᒪᓗ ᓂᕿᒋᐅᑦᑐᑦ ᐆᒪᔪᑦ ᑕᒪᒃᑯᐊ ᐃᓂᒋᔭᖏᓐᓄᑦ ᐊᔾᔨᒌᓐᖏᔾᔪᑕᐅᕗᑦ.

ᐅᖓᑖᓅᓐᖏᑦᑐᑦ ᑐᑭᓕᐊᖅᑐᒥᒃ ᐅᖓᓯᑦᑎᒋᓂᖓ ᖃᐅᔨᔭᐅᓯᒪᔪᑦ ᐅᒥᖕᒪᑦ ᐊᕐᓇᓪᓗᐃᑦ 114 km ᐊᓛᔅᑲᒥ ᐊᒻᒪᓗ 140 km ᕿᑎᕐᒥᐅᑦ ᐱᖓᓐᓈᓂ. ᑕᒪᒃᑯᐊ ᑐᑭᓕᐊᖅᑐᖅ ᐊᖏᑎᒋᓂᖓ ᓯᕕᑭᓐᓂᖅᓴᐅᕗᑦ

ᐊᖏᕐᕋᑕᕐᕕᒋᖃᑦᑕᓲᖏᑦ. ᐊᓛᔅᑲᒥ (ᑖᒃᑯᓇᓂ Gunn ᐊᒻᒪᓗ Fournier 2000), ᐊᕐᕌᒍᒥ ᖃᖓᐅᓕᕌᖓᑦ ᐊᑐᖅᑕᐅᖃᑦᑕᖅᓯᒪᓂᕆᒐᔪᑦᑕᖓ 20-30km ᐅᖓᓯᑦᑎᒋᔪᖅ. ᕿᑎᕐᒥᐅᑦ ᐅᐊᖕᓈᓂ, Gunn ᐊᒻᒪᓗ Fournier (2000) ᐅᓂᒃᑳᓚᐅᖅᑑᑦ ᑐᑭᓕᐊᖅᑐᖅ ᐊᖏᑎᒋᕗᖅ 75-ᒥᒃ 85 ᑭᓛᒥᑕᓄᑦ ᐅᑭᐅᒃᑯᑦ ᐊᒻᒪᓗᐊ ᐅᔭᒃᑯᑦ ᓄᖓᓯᕈᓯᖅᑕᐅᓯᒪᔪᑦ ᓇᓃᓚᐅᕐᓂᖏᑦ ᐊᑐᕐᓗᒋᑦ. ᑕᒪᐃᓐᓂᒐᓚᒃ ᐊᕐᕌᒍᒥ ᐊᓯᔾᔨᑕᕐᓂᖓ ᑲᔪᓰᓐᓇᕐᓂᖃᓚᐅᖅᐳᖅ ᑕᐃᒫᑦᓴᐃᓐᓈᖓᓪᓗᓂ.



ᓇᓗᓇᐃᖅᓯᒋᐊᕈᑦ 3.1. ᐅᒥᖕᒪᑦ ᓇᔪᒐᖃᖃᑎᒌᓐᓂᖏᑦ ᓄᓇᕗᒻᒥ

ᐃᖅᑲᓇᐃᔭᐅᑎᒃᓴᑦ ᑎᑎᕋᕆᐊᓐᖓᐅᑦ

ᑕᐃᒪᐃᒐᓗᐊᖅᑎᓪᓗᒍ, ᒫᓐᓇᐅᓂᖅᐹᖅ ᖃᐅᔨᓴᕈᑎᕕᓂᐅᔪᓂ ᐊᕐᕌᒍᒥ ᓄᒃᑕᖃᑦᑕᕐᓂᖏᑦ 80 km ᒥᑦᓯᑎᓐᓃᒐᔪᑦᑐᑦ ᐊᒻᒪᓗ ᐊᐅᔭᒃᑯᑦ ᐊᑯᓂᐅᓂᖅᐹᖅ ᐱᓱᖃᑦᑕᓲᖑᔪᑦ ᓅᑦᑐᑎᒃ ᐃᓂᒋᔭᒥᓂᒃ ᐊᒻᒪᓗ ᓯᐊᒻᒪᓕᖓᒐᔪᑦᑐᑎᒃ ᐅᒥᖕᒪᑦ ᓄᓕᐊᓕᕌᖓᒥᒃ (Gunn and Fournier 2000). ᑕᒪᓐᓇᐅᑎᓪᓗᒍᓕ, ᐊᕐᕌᒍᒥ ᖃᖓᐅᓕᕌᖓ ᑲᑎᓐᖓᒐᔪᑦᑐᑦ. ᑕᐃᒪᐃᒻᒪᑦ, ᐅᒥᖕᒪᖃᐅᕐᓂᐅᔪᑦ, ᑕᑯᔭᐅᖃᑦᑕᖅᓯᒪᔪᑦ ᖃᐅᔨᓴᖅᑎᓄᑦ ᖃᐅᔨᓴᖅᑎᓪᓗᒋᑦ ᐊᐅᔭᒃᑯᑦ, ᐃᓘᓐᓇᒐᓚᖏᓐᓂ ᐊᕐᕌᒍᑕᒫᑦ ᓄᓕᐊᓕᖅᑎᓪᓗᒋᑦ ᖃᐅᔨᔭᐅᒐᔪᑦᑐᑦ ᐅᖓᓯᑦᑐᒨᑦᑕᕐᓂᖏᑦ, ᑕᒫᓂᒐᓚᒃ, 30-ᒥᒃ 75 km ᓇᓗᓇᐃᖅᑕᐅᓯᒪᓪᓕᓗᑎᒃ ᑖᒃᑯᐊ. ᑕᒪᓐᓇ ᑐᑭᖓ ᐅᒥᖕᒪᑦ ᑲᑎᓐᖓᔪᑦ ᐊᕝᕗᑎᓯᒪᔪᑦ ᐊᑦᓯᑐᒻᒪᕆᐅᖃᑦᑕᖅᓯᒪᔪᑦ (ᐱᑕᖃᓐᖏᓯᐊᒻᒪᕆᑦᑐᑎᓪᓘᓐᓃᑦ) ᐅᒥᖕᒪᖃᕐᓂᐅᔪᓂ ᓯᕕᑐᑎᒋᔪᓂ ≥150km ᐅᒥᖕᒪᖃᕐᓂᐅᔪᓄᑦ ᐊᓯᖏᓐᓄᑦ ᐅᐸᒃᓯᒪᒐᔪᐃᔾᔪᑎᒋᕚ, ᐊᒻᒪᓗ ᑕᒪᓐᓇᐅᑎᓪᓗᒍ ᐃᓱᒪᒋᔭᐅᔪᓐᓇᖅᑐᑦ ᐃᖕᒥᒃᑰᖓᓪᓗᑎᒃ ᓇᔪᒐᖃᖃᑎᒌᑦᑐᑦ ᒫᓐᓇᐅᔪᖅ ᐊᐅᓚᑦᓯᔾᔪᑎᓂ ᑎᑎᕋᖅᓯᒪᓂᖏᓐᓂ.

ᐃᓚᖏᑦ ᐅᓂᒃᑳᑦ ᐊᔾᔨᒌᖃᑦᑕᓲᖑᓐᖏᓚᑦ ᑖᒃᑯᓄᓐᖓᖓᔪᓂ ᓄᓇᓂ ᐊᐳᖅᑕᕐᕕᖃᕐᓂᖏᓐᓄᑦ ᐅᒥᖕᒪᑦ ᓇᔪᒐᖃᖃᑎᒌᑦᑐᑦ ᑭᓯᐊᓂᓕ ᑕᐃᒪᐃᒍᓐᓇᓲᖑᒐᓗᐊᖅᑐᑎᒃ, ᑕᐅᑐᓪᓗᒍ ᐃᓘᓐᓇᓂ, ᐅᒥᖕᒪᑦ ᐳᐃᔾᔪᕋᔪᐃᑦᑐᑦ (Tener 1965, Gunn ᐊᒻᒪᓗ Adamczewski, 2003). ᐅᒥᖕᒪᑦ ᑲᑎᓐᖓᔪᑦ ᓇᓂᔭᐅᓚᐅᖅᑐᑦ ᐊᔪᖅᓯᓯᒪᑎᓪᓗᒋᑦ ᑕᓯᓕᓐᓂ ᕿᑭᖅᑕᓂ ᐊᐅᔭᒃᑯᑦ ᐊᒻᒪᓗ ᐳᐃᔾᔪᖃᑦᑕᓚᐅᓐᖏᓚᑦ

ᓄᓇᐃᓐᓇᓕᐊᕋᓱᐊᕐᓗᑎᒃ ᓂᕿᑦᓴᖃᑦᓯᐊᕈᓐᓃᕋᓗᐊᕋᒥ forage (ᑖᒃᑯᓇᖤ Gunn ᐊᒻᒪᓗ Adamczewski 2003). ᑭᓯᐊᓂᓕ, ᐅᒥᖕᒪᑦ ᑕᑯᔭᐅᓚᐅᓪᓚᖃᑦᑕᖅᓯᒪᔪᑦ ᐃᑳᖅᑎᓪᓗᒋᑦ ᑰᒃᑯᑦ (Mallory 1995), ᐃᓱᒪᒋᔭᐅᒐᔪᐃᑦᑐᑦ ᑰᑦ ᐃᑲᕐᕋᖁᖅᑐᔪᑦ ᐃᓱᒪᒋᔭᐅᓂᖏᑦ ᐅᒥᖕᒪᓐᓄᑦ ᐊᐳᖅᑕᕐᕕᐅᓇᔭᕐᓂᖏᓐᓂᒃ ᒫᓐᓇᐅᑎᓪᓗᒍ ᐊᐅᓚᑦᓯᔾᔪᑎᓕᐅᖅᑎᓪᓗᑕ ᐅᒥᖕᒪᓐᓄᑦ. ᐅᑭᐅᒃᑯᑦ ᓯᑯᓯᒪᓕᖅᓪᓗᒋᑦ ᑰᑦ ᓄᒃᑕᕐᕕᐅᓲᖑᕗᑦ ᐃᑳᖅᑐᑎᒃ, ᐅᒥᖕᒪᑦ ᓄᒃᑕᖃᑦᑕᕐᓂᖏᑦ ᑭᒡᓕᖃᖅᐳᑦ ᓯᕕᑭᑦᑐᕈᓘᓪᓗᑎᒃ ᓄᒃᑕᕐᕕᒋᖃᑦᑕᖅᑕᖏᑦ (Tener 1965, Gunn ᐊᒻᒪᓗ Adamczewski, 2003). ᓯᑯᐃᔭᖅᐸᓪᓕᐊᓕᖅᑎᓪᓗᒍᓕ (ᓄᕐᕆᐅᓕᖅᑎᓪᓗᒋᑦ) ᐊᒻᒪᓗ ᐊᐅᔭᐅᑉ ᑕᖅᑭᖏᓐᓄᑦ (ᓄᓕᐊᖅᑎᓪᓗᒋᑦ), ᐅᒥᖕᒪᑦ ᓄᒃᑕᕐᓂᖏᑦ ᐅᖓᓯᓐᓂᖅᓴᒨᖃᑦᑕᓕᖅᑎᓪᓗᒋᑦ, ᑰᑦ ᐃᑲᕐᕋᖁᖅᑐᔪᑦ ᐊᒻᒪᓗ ᑕᓰᑦ/ᑕᕆᐅᖅ ᓄᒃᑕᓗᐊᖃᑦᑕᖏᔾᔪᑕᐅᕗᑦ ᑖᒃᑯᑎᒎᓇ ᐃᒪᖅᑎᒍᑦ ᑕᒪᐅᓇ ᐅᒥᖕᒪᑦ ᓇᔪᒐᖃᖃᑎᒌᑦᑐᑦ ᑭᖑᕝᕖᖃᑦᑕᐅᑎᓗᐊᓐᖏᔾᔪᑎᒋᓲᖏᑦ.

3.1.3 ᑭᒡᓕᖏᑕ ᐋᖅᑭᒋᐊᖅᑕᐅᓂᖏᑦ

MX/01
ᓇᓗᓇᐃᖅᑕᐅᓯᒪᓂᖏᑦ ᑐᒃᑐᓯᐅᕐᕕᖕᒥ ᐊᒻᒪᓗ ᖃᖓᑦᑕᖅᑎᑕᐅᓯᒪᔪᒃᑯᑦ ᕿᑭᖅᑕᖁᑎᖏᑦ ᑖᒃᑯᓇᓐᖔᖅᐳᑦ ᐃᓄᐃᑦ ᖃᐅᔨᒪᔭᑐᖃᖏᓐᓂᒃ (Taylor 2005), ᖃᐅᔨᓴᑎᒥᓂᐅᔪᑦ ᓄᒃᑕᕐᓂᖏᓪᓗ ᓈᓚᐅᓯᖅᑐᖅᑕᐅᓯᒪᔪᑦ ᖁᖓᓯᕈᑎᓂᒃ ᐅᒥᖕᒪᑦ. ᐅᒥᖕᒪᑦ ᓄᒃᑕᖃᑦᑕᖅᐳᑦ ᐊᕐᕌᒎᑉ ᐃᓗᐊᓂ ᓯᓚᒥ ᒪᓕᒃᑐᑎᒃ ᑐᒃᑐᓯᐅᕐᕕᖕᒥᒃ ᓅᓱᖑᓐᖏᓚᑦ (ᓲᕐᓗ ᐊᔾᔨᐅᑎᓪᓗᒍ; ᓇᓃᓐᓂᖏᓐᓂᒃ ᖃᐅᔨᓴᕈᑎᕕᓃᑦ ᑲᑎᖅᓱᖅᑕᐅᓚᐅᖅᓯᒪᔪᑦ ᓯᕗᓂᐊᓂ ᓯᑕᒪᑦ ᐅᒥᖕᒪᑦ ᖁᖓᓯᕈᓯᖅᑕᐅᓚᐅᖅᓯᒪᔪᑦ ᓈᓚᐅᑎᓂᒃ 2003-ᒥ ᓇᓗᓇᐃᖅᑕᐅᓯᒪᕗᖅ ᓄᒃᑕᖃᑦᑕᕐᓂᖏᑦ

ᑭᒡᓕᖃᕐᓂᖏᓐᓂᒃ ᑐᒃᑐᓯᐅᕐᕖᓇᕐᒦᖃᑦᑕᕐᓂᖏᓐᓂᒃ). ᑭᓯᐊᓂ ᓯᓚᕐᓂᓗᑦᑐᕐᔪᐊᕌᓘᔭᕌᖓ ᐅᑭᐅᒃᑯᑦ ᐃᓄᐃᑦ ᐊᖑᓇᓱᒃᑎᖏᑦ ᐊᒻᒪᓗ ᐆᒪᔪᓂᒃ ᖃᐅᔨᓴᖅᑏᑦ ᐅᓂᒃᑳᖅᓯᒪᕗᑦ ᐱᓇᓱᐊᒡᒐᖅᓱᑎᒃ ᓅᒐᓱᐊᖅᑐᑎᒃ ᓯᑯᒃᑯᑦ (Taylor 2005, Gray 1987, Miller 1998).

MX/02

ᓇᓗᓇᐃᖅᑕᐅᓯᒪᓂᖏᑦ ᒪᕐᕈᓕᕿᒥ ᐅᒥᖕᒪᖃᕐᓂᐅᔪᑦ ᓄᑖᖑᔪᖅᐊᒻᒪᓗ ᑖᒃᑯᓇᓐᖔᖅᓯᒪᓪᓗᓂ ᐃᓄᐃᑦ ᖃᐅᔨᒪᔭᑐᖃᖏᓐᓂᒃ (Taylor 2005), ᖃᐅᔨᓴᕈᑎᒥᓂᐅᔪᑦ ᐊᒻᒪᓗ ᓈᓚᐅᓯᖅᑐᑕᐅᓯᒪᓂᖏᑦ ᖁᖓᓯᕈᑎᓂᒃ ᐆᒪᔪᑦ. ᐃᓂᒋᖃᑦᑕᖅᑕᖓ ᕿᑭᖅᑕᐸᐅᔮᓗᒃ ᖃᖓᐅᓕᕌᖓᑦ ᐊᕐᕌᒍᒥ ᐃᓂᒋᖃᑦᑕᕈᓐᓇᓲᕆᔭᖓ ᓇᔪᒐᕆᓪᓗᒍ ᐃᓂᒋᔪᓐᓇᖅᑕᖓ ᓇᔪᒐᕆᓗᒍ ᐊᑦᓯᑐᒻᒪᕆᐅᒐᓗᐊᖅᑎᓪᓗᒍ (Tener 1965). ᒪᕐᕉᒃ ᐅᒥᖕᒫᒃ ᓈᓚᐅᓯᖅᑕᐅᓯᒪᔫᒃ ᖁᖓᑎᕈᑎᓂᒃ ᒪᕐᕈᓕᕿᒥ ᖃᐅᔨᔾᔪᑕᐅᓯᒪᕗᑦ ᑕᕝᕙᓂ ᕿᑭᖅᑕᒥᒃ ᓅᖃᑦᑕᖏᓐᓂᖏᓐᓂᒃ ᐊᕐᕌᒍᒥ ᓄᒃᑕᓕᕌᖓᒥᒃ. ᐃᓚᖏᑦ ᓄᒃᑕᕐᓂᐅᖃᑦᑕᖅᓯᒪᔪᑦ ᑐᒃᑐᓯᐅᕐᕕᖕᒥᒃ ᑭᓯᐊᓂ

ᐃᖅᑲᓇᐃᔭᐅᑎᒃᓴᑦ ᑎᑎᕋᕆᐊᓐᖓᐅᑦ

ᓅᖃᑦᑕᖅᓯᒪᔪᑦ ᐅᑭᐅᒃᑯᑦ ᓯᓚᕐᓂᕐᓗᑦᑐᕐᔪᐊᒥᓂᐅᑎᓪᓗᒍ (1973 ᐊᒻᒪᓗ 1994) ᐃᓄᐃᑦ ᐊᖑᓇᓱᒃᑎᖏᑦ

ᐅᓂᒃᑳᖃᑦᑕᓚᐅᖅᑎᓪᓗᒋᑦ ᐊᒥᓲᓂᖅᓴᐅᒋᐊᖏᑦ ᐅᒥᖕᒪᑦ ᒪᕐᕈᓕᕿᒥ. (Taylor 2005).

MX/03 ᐊᒻᒪᓗ MX/04
ᐊᐅᓱᐃᑦᑐᒥᐅᑦ ᕿᑭᖅᑖᓗᐊᓂ ᐊᖏᓂᖅᐸᐅᔪᖅ ᖁᑦᑎᑦᑐᒥ ᑭᓐᖓᕐᔪᐊᓕᒻᒪᕆᐊᓘᓪᓗᓂ ᐳᖅᑐᔫᑎᓂᒃ, ᓯᕐᒦᑦ ᐊᒻᒪᓗ ᑲᖏᖅᑐᖃᐅᖅᑐᓂ ᑖᒃᑯᐊᓕ ᐊᐳᖅᑕᕐᕕᐅᔪᑎᑐᑦ ᑕᐃᒪᐃᑉᐸᑦᑐᑦ ᓄᒃᑕᕐᓂᖏᓐᓄᑦ. ᑖᒃᑯᓄᓐᖓᖓᔪᑦ ᒫᓐᓇ ᐊᑐᓕᖁᔭᐅᓯᒪᔪᖅ ᐊᓯᔾᔨᖅᑕᐅᓗᑎᒃ ᑐᒃᓯᕌᖓᒍᑦ ᐊᐅᓱᐃᑦᑐᒥ ᐊᖑᓇᓱᒃᑐᓕᕆᔨᒃᑯᖏᓐᓄᑦ.

ᓯᓚᖓ ᑕᕝᕗᖓ ᐃᓕᖓᔪᒻᒪᕆᐅᔪᖅ ᐊᕕᒃᓯᒪᓂᖓᓄᑦ (Maxwell 1981) ᐊᒻᒪᓗ ᒪᕐᕉᒃ ᐅᒥᖕᒪᖃᕐᕕᐅᔫᒃ ᐊᐅᓱᐃᑦᑐᒥᐅᑦ ᕿᑭᖅᑖᓗᐊᓂ (MX/03 and MX/04) ᑖᒃᑯᓄᓐᖓᖓᒻᒪᕆᖃᑦᑕᕐᒥᔪᑦ ᒪᕐᕉᓕᖅᑲᖓᒻᒪᑎᒃ ᓯᓚᖏᒃ ᐊᕕᑦᑐᖅᓯᒪᓂᐅᔫᒃ IV ᐊᒻᒪᓗ V. ᐊᕕᒃᓯᒪᓂᖓ ᓯᓚᖓᑕ ᐃᓱᒪᒋᔭᐅᔪᖅ ᐊᒃᑐᐃᓂᖃᖅᓯᒪᒋᐊᖓ ᖃᐅᔨᓴᖅᑕᐅᓯᒪᓂᖏᓐᓂᒃ ᐱᕈᖅᑐᑦ ᐆᒪᔪᓪᓗ ᐊᒡᒍᖅᓯᒪᓂᖏᑎᒍᑦ ᐊᒃᑐᐃᓂᖃᖅᓯᒪᑐᐃᓐᓇᕆᐊᖃᕆᐊᖓ ᐅᒥᖕᒪᓐᓂᒃ ᖃᐅᔨᓴᖅᑕᐅᓯᒪᓂᖏᓐᓄᑦ ᐃᓕᖅᑯᓯᖏᑦ ᓯᓚᖓᒍᑦ ᐊᒻᒪᓗ ᐊᒃᑐᐃᓯᒪᓂᖓᓄᑦ ᓂᕿᑦᓴᓂᒃ ᓄᓇᕋᕐᓂᑦ. ᐊᖑᓇᓱᒋᐊᕐᕕᐅᒐᔪᑦᑐᖅ ᐊᐅᓱᐃᑦᑐᒥᐅᑦ ᕿᑭᖅᑖᓗᐊᑕ ᓂᒋᐊᓄᑦ ᑭᓯᐊᓂᓕ ᐊᖑᓇᓱᒃᑏᑦ ᐊᑭᓕᖅᓯᒪᔭᒥᓂᒃ ᖃᖓᑕᑎᑦᓯᒋᐊᖃᓲᖑᕗᑦ ᐊᖑᓇᓱᒋᐊᖅᑐᑎᒃ ᑕᒪᑦᓱᒪ ᐅᖓᑖᓄᑦ (Taylor 2005, ᒪᑉᐱᒐᖅ 60). ᑐᓴᕈᑎᑕᖃᓐᖏᑦᑐᖅ ᐃᓱᒪᒋᔭᐅᓂᖏᓐᓂᒃ ᐅᒥᖕᒪᑦ ᐅᑎᖅᑕᖃᑦᑕᕆᐊᖏᑦ ᐅᐊᖕᓇᕐᒥᒃ ᓂᒋᕐᒧᑦ.

MX/05, MX/06 ᐊᒻᒪᓗ MX/07
ᐅᐊᖕᓈᓂ ᑕᓪᓗᕈᑎᐅᑉ ᐊᔾᔨᒌᓐᖏᑕᖓ ᓯᓚᖓ ᐊᓯᓕᒫᖓᓂᒃ ᕿᑭᖅᑕᐅᑉ (Maxwell 1981) ᐊᒻᒪᓗ ᐊᕕᒃᓯᒪᔭᐅᓪᓗᓂ ᓄᓇᖓ ᒪᓃᑦᑐᒻᒪᕆᐅᓂᖓᓄᑦ ᐊᕕᒃᓯᒪᒍᑕᐅᔪᖅ ᒪᕐᕉᓕᖅᑲᖓᔫᓐᓄᑦ ᐅᒥᖕᒪᖃᕐᓂᐅᔫᓐᓄᑦ. ᐊᓯᖏᒃ ᑖᒃᑯᐊ ᒪᕐᕉᓕᖅᑲᖓᔫᒃ ᐅᒥᖕᒪᖃᕐᓂᐅᔫᒃ ᐊᑦᓯᑦᑑᓪᓗᓂ ᓄᓇᖓ ᐅᐃᒍᓕᕇᓪᖢᑎᒃ ᐅᐊᖕᓇᖓᑕ ᓂᒋᐊᑕᓗ ᓯᒡᔭᖓᓂ, ᑕᐃᒪᐃᓕᖓᓪᓗᑎᒃ. ᒪᕐᕉᒃ ᑖᒃᑯᐊ ᐊᕕᒃᓯᒪᔭᐅᒻᒥᔫᒃ ᓄᓇᖓ ᒪᓃᑦᑐᒻᒪᕆᐅᓂᖓᓄᑦ ᐊᒻᒪᓗ ᓯᕐᒥᕐᓄᑦ. ᐱᖓᓲᓕᖅᑲᖓᔪᑦ ᑕᐃᒪᐃᓕᖓᒻᒥᔫᑦᑕᐅᖅ ᒪᕐᕉᒃ ᑕᐃᒪᐃᓕᖓᒻᒪᑎᑐᑦ ᑕᐃᒪᓐᖓᓂᓴᑐᖃᐃᑦ ᐋᖅᑭᑦᓯᒪᓂᖏᑦ ᐊᑐᖅᑕᐅᖃᑦᑕᖅᓯᒪᖕᒪᑕᓂᒃ. ᑖᒃᑯᐊᓕ ᓯᕗᓂᐊᓂ ᐊᕕᑦᑐᖅᓯᒪᓂᖓ MX/05 ᐱᖃᑕᐅᓪᓗᓂ ᕿᑎᐊᓂ ᑲᓇᖕᓈᓂᓗ ᑕᓪᓗᕈᑎᐅᑉ ᕿᑭᖅᑖᑕ ᐊᒻᒪᓗ ᒪᕐᕉᓕᖅᑲᖓᑎᑕᐅᓕᖅᑐᓂ MX/05 (ᐅᐊᖕᓈ ᑕᓪᓗᕈᑎᐅᑉ) ᐊᒻᒪᓗ MX/06 (ᑕᓪᓗᕈᑎᐅᑉ ᓂᒋᐊ). MX/07 ᓄᑖᖅ ᐊᕕᒃᓯᒪᓂᖓ ᑕᓪᓗᕈᑎᐅᑉ ᐱᖓᓐᓈᓂ. ᐊᕐᕕᓂᓖᑦ ᐅᒥᖕᒪᑦ ᓈᓚᐅᓯᖅᑐᖅᑕᐅᓚᐅᖅᑐᑦ ᖁᖓᓯᕈᑎᖅᓱᖅᑕᐅᓪᓗᑎᒃ 2003-ᒥ ᐊᒻᒪᓗ ᓯᕗᓪᓕᐹᖅᓯᐅᑏᑦ ᖃᐅᔨᓴᕈᑎᕕᓃᑦ ᓇᓃᓐᓂᖏᓐᓂᒃ ᑲᑎᖅᓱᖅᑕᐅᓯᒪᔪᑦ ᓇᓗᓇᐃᖅᓯᓯᒪᕗᑦ ᓈᖕᒪᓈᖅᑕᖅᓯᒪᑦᓯᐊᖅᑐᑎᒃ ᐅᓂᒃᑳᓕᐊᖑᓯᒪᔪᑦ ᕿᑭᖅᑕᒥ ᐊᒻᒪᓗ ᓄᒃᑕᖃᑦᑕᖏᓐᓂᒃ ᐱᖓᓐᓈᓂᒃ ᑕᓪᓗᕈᑎᐅᑉ ᕿᑭᖅᑕᖓᑕ ᑲᓇᖕᓇᖓᓄᑦ.

MX/08
ᑰᒐᓇᔫᑉ ᓄᓇᖓᓂ ᓇᔪᒐᖃᖃᑎᒌᑦᑐᑦ ᐅᒥᖕᒪᑦ, MX/08 ᐃᖕᒥᒃᑰᖓᓱᕆᔭᐅᕗᑦ ᓇᔪᒐᖃᖃᑎᒌᓐᓂᖏᑦ ᐱᔾᔪᑎᒋᓪᓗᒋᑦ ᑕᕆᐅᖅ ᐊᒻᒪᓗ ᓯᑯᓯᒪᓂᖓ ᐅᐱᕐᖔᒃᑯᑦ, ᐊᐅᔭᒃᑯᑦ ᐊᒻᒪᓗ ᐅᑭᐊᑦᓵᒃᑯᑦ ᐊᒻᒪᓗ ᑐᕙᒃ ᐅᑭᐅᒃᑯᑦ ᐊᒻᒪᓗ ᐊᒃᑐᐃᓂᕆᓯᒪᔭᖏᑦ ᐊᐳᖅᑕᕈᑕᐅᓪᓗᑎᒃ ᕿᑭᑦᑕᓄᑦ ᖃᓂᒋᔭᖏᓐᓄᑦ ᐊᒻᒪᓗ ᓄᓇᐃᓐᓇᕐᒥ ᓇᔪᒐᖃᖃᑎᒌᑦᑐᓄᑦ. ᐊᑐᐃᓐᓇᐅᔪᓂ ᐅᖃᓕᒫᒐᒃᓴᓂ ᐃᑲᔪᖅᓯᓯᒪᕗᑦ ᐊᐳᖅᑕᕈᑕᐅᔪᓂᒃ ᐊᑑᑎᖃᕈᓐᓇᑦᓯᐊᖁᓪᓗᒋᑦ ᓄᓕᐊᖃᑦᑕᐅᑎᓐᖏᔾᔪᑎᒋᖃᑦᑕᖅᑕᖏᓐᓄᑦ ᖃᓂᒋᔭᒥᓂᒃ ᓇᔪᒐᖃᖃᑎᒌᓐᖏᑕᒥᓂᒃ.

MX/09
ᑰᒐᓇᔫᑉ ᓄᓇᖓᓂ ᓇᔪᒐᖃᖃᑎᒌᑦᑐᑦ ᐅᒥᖕᒪᑦ, MX/09 ᐃᖕᒥᒃᑰᖓᓱᕆᔭᐅᕗᑦ ᓇᔪᒐᖃᖃᑎᒌᓐᓂᖏᑦ ᐱᔾᔪᑎᒋᓪᓗᒋᑦ ᑕᕆᐅᖅ ᐊᒻᒪᓗ ᓯᑯᓯᒪᓂᖓ ᐅᐱᕐᖔᒃᑯᑦ, ᐊᐅᔭᒃᑯᑦ ᐊᒻᒪᓗ ᐅᑭᐊᑦᓵᒃᑯᑦ ᐊᒻᒪᓗ ᑐᕙᒃ ᐅᑭᐅᒃᑯᑦ ᐊᒻᒪᓗ ᐊᒃᑐᐃᓂᕆᓯᒪᔭᖏᑦ ᐊᐳᖅᑕᕈᑕᐅᓪᓗᑎᒃ ᕿᑭᑦᑕᓄᑦ ᖃᓂᒋᔭᖏᓐᓄᑦ ᐊᒻᒪᓗ ᓄᓇᐃᓐᓇᕐᒥ ᓇᔪᒐᖃᖃᑎᒌᑦᑐᓄᑦ. ᐊᑐᐃᓐᓇᐅᔪᓂ ᐅᖃᓕᒫᒐᒃᓴᓂ ᐃᑲᔪᖅᓯᓯᒪᕗᑦ ᐊᐳᖅᑕᕈᑕᐅᔪᓂᒃ ᐊᑑᑎᖃᕈᓐᓇᑦᓯᐊᖁᓪᓗᒋᑦ ᓄᓕᐊᖃᑦᑕᐅᑎᓐᖏᔾᔪᑎᒋᖃᑦᑕᖅᑕᖏᓐᓄᑦ ᖃᓂᒋᔭᒥᓂᒃ ᓇᔪᒐᖃᖃᑎᒌᓐᖏᑕᒥᓂᒃ.

ᐃᖅᑲᓇᐃᔭᐅᑎᒃᓴᑦ ᑎᑎᕋᕆᐊᓐᖓᐅᑦ

MX/10
ᐅᒥᖕᒪᑦ ᓅᓯᒪᔪᒃᓴᐅᒐᓗᐊᖅᑎᓪᓗᒋᑦ ᐊᕐᕕᖅᑑᒧᑦ ᑰᒐᓇᔫᑉ ᓄᓇᖓᓂᒃ, ᐊᕐᕕᖅᑑᒥ ᓇᔪᒐᒐᖃᑎᒌᑦᑐᑦ ᐅᒥᖕᒪᑦ, MX/10, ᐃᓱᒪᒋᔭᐅᔭᕆᐊᖃᖅᐳᑦ ᐃᖕᒥᒃᑰᕐᓂᖏᓐᓂᒃ ᓯᑯᖃᑦᑕᕐᓂᖏᑦ ᐊᓯᔾᔨᐸᓪᓕᐊᒐᓗᐊᖅᑎᓪᓗᒋᑦ ᐊᒻᒪᓗ ᐃᓄᖕᓄᑦ ᐊᐅᓚᑕᐅᔪᑦ ᐅᑭᐅᖅᑕᖅᑐᒥ ᓱᕐᓗᐊᓗᒻᒥ ᑕᒪᐅᓇ ᓄᓇᓂᒃ ᐊᐳᖅᑕᕐᕕᒋᔭᐅᔪᑦ ᐱᕙᓪᓕᐊᑐᐃᓐᓇᕋᓗᐊᖅᑎᓪᓗᒋᑦ ᑰᒐᓇᔫᑉ ᓄᓇᖓᓂ ᐊᒻᒪᓗ ᐊᕐᕕᖅᑑᒥ.

MX/11
King William Island-ᒥ ᓇᔪᒐᖃᖃᑎᒌᑦᑐᑦ, MX 11, ᐃᓱᒪᒋᔭᐅᔪᑦ ᐃᖕᒥᒃᑰᕆᐊᖏᑦ ᓇᔪᒐᖃᖃᑎᒌᓐᓂᖏᑦ ᑕᕆᐅᖅ ᐊᒻᒪᓗ ᑐᕙᒃ ᐊᐳᖅᑕᕈᑕᐅᓪᓗᓂ ᓄᓇᐃᓐᓇᕐᒨᕆᐊᒥᒃ ᑕᒪᐅᓇ ᐃᑲᔪᖅᓯᓯᒪᕗᑦ ᓄᓕᐊᖃᑦᑕᐅᑎᓐᖏᔾᔪᑎᒋᖃᑦᑕᖅᑕᖏᓐᓄᑦ. ᐅᖅᓱᖅᑑᑉ ᐊᖑᓇᓱᒃᑐᓕᕆᔨᒃᑯᖏᑦ ᐊᖏᖃᑎᖃᕐᒥᔪᑦ ᐃᖕᒥᒃᑰᕐᓂᖏᓐᓂᒃ ᕿᑭᖅᑕᓂ ᐅᒥᖕᒪᑦ ᓄᓇᐃᓐᓇᕐᒥᐅᓅᖓᓐᖏᓐᓂᖏᓐᓂ.

MX/12
ᐅᑭᐅᖅᑕᖅᑐᒥ ᕿᑭᖅᑕᒥ ᐅᒥᖕᒪᑦ ᐊᔾᔨᒋᓐᖏᑕᖏᑦ ᓄᓇᐃᓐᓇᕐᒥᐅᑦ ᐅᒥᖕᒪᖏᑕ (De Groot 2001) ᑕᐃᒪᐃᒻᒪᑦ ᐊᑐᓕᖅᑎᑕᒐᓱᐊᖅᑕᕗᑦ ᐃᖕᒥᒃᑰᖓᓕᖅᑎᒐᓱᐊᖅᑐᒍ ᐃᖃᓗᑦᑑᑦᑎᐊᑉ ᕿᑭᖅᑖᓗᐊᓂ ᐅᒥᖕᒪᑦ ᓄᓇᐃᓐᓇᕐᒥ ᐅᒥᖕᒪᖏᓐᓂᒃ. ᖃᐅᔨᒪᓐᖏᑦᑐᒍᑦ ᐅᒥᖕᒪᑦ ᐃᖃᓗᑦᑑᑦᑎᐊᑉ ᕿᑭᖅᑖᓗᐊᓃᑦᑐᑦ ᐊᑕᐅᓯᕐᒦᓐᖔᖓᒻᒪᖔᑕ ᐊᒥᓱᓂᓪᓘᓐᓃᑦ ᓇᔪᒐᖃᖃᑎᒌᑦᑐᓂᒃ. ᑭᓯᐊᓂᓕ, ᐊᒥᓲᓕᖅᑲᖓᔪᒻᒪᕆᐅᑎᓪᓗᒋᑦ ᓇᔪᒐᖃᖃᑎᒌᑦᑐᑦ ᕿᑭᖅᑕᓂ, ᒫᓐᓇᐅᓂᖓᓂ ᐃᓱᒫᓗᓐᓇᖅᑐᖃᓐᖏᑦᑐᖅ ᓄᖑᐊᑎᖅᐸᓪᓕᐊᓇᔭᕐᓂᖏᓐᓄᑦ ᐊᒻᒪᓗ ᑕᐃᒪᐃᒻᒪᑦ ᐊᑐᓕᖁᔨᔾᔪᑎᓕᐊᕆᓯᒪᔭᕗᑦ ᕿᑭᖅᑕᓕᒫᖅ ᐊᑕᐅᓯᕐᒥᒃ ᓇᔪᒐᖃᖃᑎᒌᒋᐊᖓᓂᒃ.

MX/13
ᐱᖓᓐᓈᓂ ᕿᑎᕐᒥᐅᓂ ᓇᔪᒐᖃᖃᑎᒌᑦᑐᑦ ᐅᒥᖕᒪᑦ, MX/13, ᓇᔪᒐᖃᖃᑎᒌᑦᑐᑦ ᐱᖅᑯᓯᖏᑦ ᐊᔾᔨᒋᓐᖏᑕᒻᒪᕆᒋᔭᖏᑦ MX14 ᑕᒪᐅᓇ ᐋᖅᑭᒋᐊᕈᑕᐅᓯᒪᔪᖅ ᑖᒃᑯᐊ ᒪᕐᕉᒃ ᐊᔾᔨᒌᓐᖏᓐᓂᖏᓐᓂᒃ ᓇᔪᒐᖃᖃᑎᒌᑦᑑᒃ ᐃᖕᒥᒃᑰᕆᐊᖏᒃ. ᐊᐅᓚᖃᑦᑕᕈᓐᓇᐃᕐᓂᖏᑦ ᐅᒥᖕᒪᖃᐅᖅᑐᑦ MX/13 ᑕᐅᑐᓪᓗᒋᑦ ᖁᑦᓯᑐᒻᒪᕆᐅᔪᑦ ᐅᒥᖕᒪᖃᐅᖅᑐᑦ ᑲᓇᖕᓇᖔᖓᓂ ᖁᕐᓗᖅᑑᑉ (MX/14) ᓇᓗᓇᐃᕈᑕᐅᓯᒪᔫᔮᖅᐳᖅ ᐊᐅᓚᓂᖃᒡᒐᐃᓇᕐᓂᖏᓐᓂᒃ MX14-ᒥᒃ MX-14-ᒧᑦ. ᑕᐃᒪᐃᑎᓪᓗᒍᓕ, ᐱᔾᔪᑎᒋᔭᐅᔪᖅ ᐃᓅᓴᓪᓕᓯᒪᓂᕆᔭᖏᓐᓄᑦ ᐅᒥᖕᒪᑦ ᓇᔪᒐᖃᖃᑎᒌᑦᑐᑦ MX12 ᐱᔾᔪᑎᒋᔪᒃᓴᐅᔭᖓ ᖁᐱᕐᕈᖃᕐᒪᑕ ᐋᓐᓂᐊᓇᖅᑐᓂᒃ (Umingmakstrongylus pallikuukensis). ᐅᓂᒃᑳᖅᑕᖃᓐᖏᓐᓂᖓᓄᑦ ᑖᑦᓱᒧᖓ ᖁᐱᕐᕈᒧᑦ ᓄᓇᓕᓐᓂ ᐊᖑᓇᓱᒃᑎᓂᒃ ᑲᓇᖕᓈᓂᒥᐅᓂᒃ ᖁᕐᓗᖅᑑᖅ (MX14) ᓇᓗᓇᐃᕆᐊᒃᑲᓐᓂᕈᑕᐅᒻᒥᔪᖅ ᓄᒃᑕᕐᓂᖏᓐᓂᒃ MX13-ᒥᒃ MX14-ᒧᑦ ᐱᑕᖃᒡᒐᐃᓇᖅᑐᖅ ᐱᑕᖃᓐᖏᓯᐊᒻᒪᕆᑦᑐᓘᓐᓃᑦ.

MX/14
ᕿᑎᐊᓂ ᓄᓇᐃᓐᓇᕐᒥ ᓇᔪᒐᖃᖃᑎᒌᑦ, MX/14, ᑭᒡᓕᖓ ᐱᖓᓐᓈᓃᑦᑐᖅ ᖁᕐᓗᖅᑑᑉ ᑰᒐᓗᐊ ᒪᓕᓪᓗᒍ ᑖᒃᑯᑎᒎᓇ ᐃᓄᐃᑦ ᖃᐅᔨᒪᔭᑐᖃᖏᓐᓄᑦ ᐊᐳᖅᑕᕕᖕᒪᕆᐅᕗᖅ ᓄᓇᒃᑯᑦ ᐊᕐᕌᒍᓕᒫᒥ ᑰᑦ ᓯᑯᖃᑦᑕᕐᓂᖏᑦ ᓇᓗᓇᖃᑦᑕᕐᓂᖏᓐᓄᑦ ᐊᒻᒪᓗ ᐃᓐᓇᕈᖃᐅᖅᑐᐊᓘᓪᓗᓂ ᐊᑯᓐᓂᖓᓂ. MX/14-ᒥ ᓇᔪᒐᖃᖃᑎᒌᑦᑐᑦ ᑖᒃᑯᓇᓐᖔᖏᑦᑐᑦ MX/15 ᓇᔪᒐᖃᖃᑎᒌᓂᒃ Perry River-ᒥᒃ ᑲᑦᑐᑎᓯᒪᔪᑦ McAlpine Lake ᑲᑎᓯᒪᓂᖏᓐᓄᑦ ᑏᓛᓐ ᐆᒪᔪᒃᑯᕕᖕᒧᑦ. ᒪᓕᓪᓗᒋᑦ Dumond (ᐸᕐᓇᑕᐅᔪᖅ) ᓄᓇᑦ ᐊᐳᖅᑕᕐᕕᐅᔪᑦ ᑕᒪᒃᑯᓄᖓ ᐃᒪᓐᓄᑦ, ᓇᔪᒐᖃᖅᑐᑦ ᐅᐊᖕᓈᓂ ᐊᒻᒪᓗ ᐅᐊᖕᓇᖅᐸᓯᐊᓂ ᐱᖓᓐᓈᓃᑦᑐᑦ ᐃᓚᖏᑦ ᑭᒡᓕᖏᑕ ᐊᑦᓯᑐᒻᒪᕆᐅᔪᑦ ᐅᕝᕙᓘᓐᓃᑦ ᐱᑕᖃᓐᖏᓯᐊᒻᒪᕆᑦᑐᑦ ᑕᒪᐅᓇ ᓄᖅᑲᕈᑕᐅᖃᑦᑕᖅᑐᑦ ᓄᓕᐊᖃᑦᑕᐅᑎᓂᖏᓐᓄᑦ ᐋᖅᑭᑦᓯᒪᒍᑎᒋᔮ ᐃᖕᒥᒃᑰᖓᓂᖏᓐᓄᑦ ᓇᔪᒐᖃᖃᑎᒌᑦᑐᑦ.

ᐃᖅᑲᓇᐃᔭᐅᑎᒃᓴᑦ ᑎᑎᕋᕆᐊᓐᖓᐅᑦ

MX/15
ᐃᑭᕋᓴᖅ ᕿᑎᕐᒥᐅᓂ Queen Maud Gulf ᓇᔪᒐᖃᖃᑎᒌᑦᑐᑦ ᐅᒥᖕᒪᑦ, MX15 ᑖᒃᑯᓇᓐᖔᖏᑦᑐᑦ MX14 ᓇᔪᒐᖃᖃᑎᒌᑦᑐᑦ Perry River-ᒥᒃ ᑲᑦᑐᑎᓯᒪᔪᑦ McAlpine Lake ᑲᑎᓯᒪᓂᖏᓐᓄᑦ ᑏᓛᓐ ᐆᒪᔪᒃᑯᕕᖕᒧᑦ. ᒪᓕᓪᓗᒋᑦ Dumond (ᐸᕐᓇᑕᐅᔪᖅ) ᓄᓇᑦ ᐊᐳᖅᑕᕐᕕᐅᔪᑦ ᑕᒪᒃᑯᓄᖓ ᐃᒪᓐᓄᑦ, ᓇᔪᒐᖃᖅᑐᑦ ᐅᐊᖕᓈᓂ ᐊᒻᒪᓗ ᐅᐊᖕᓇᖅᐸᓯᐊᓂ ᐱᖓᓐᓈᓃᑦᑐᑦ ᐃᓚᖏᑦ ᑭᒡᓕᖏᑕ ᐊᑦᓯᑐᒻᒪᕆᐅᔪᑦ ᐅᕝᕙᓘᓐᓃᑦ ᐱᑕᖃᓐᖏᓯᐊᒻᒪᕆᑦᑐᑦ ᑕᒪᐅᓇ ᓄᖅᑲᕈᑕᐅᖃᑦᑕᖅᑐᑦ ᓄᓕᐊᖃᑦᑕᐅᑎᓂᖏᓐᓄᑦ ᐋᖅᑭᑦᓯᒪᒍᑎᒋᔮ ᐃᖕᒥᒃᑰᖓᓂᖏᓐᓄᑦ ᓇᔪᒐᖃᖃᑎᒌᑦᑐᑦ. MX/15 ᐱᖓᓐᓈᓂ ᑭᒡᓕᖓᑕ MX/16 ᓇᔪᒐᖃᖅᑐᑦ ᐱᑕᖃᕐᓂᐅᔪᓂᒃ ᒪᓕᒃᓯᒪᔪᑦ ᐱᖓᓐᓇᕐᔪᒧᑦ ᑭᒡᓕᖓᓄᑦ ᐊᑦᓯᑐᒻᒪᕆᐅᔪᑦ ᐅᕝᕙᓘᓐᓃᑦ ᐱᑕᖃᓐᖏᓯᐊᒻᒪᕆᑦᑐᑦ ᑕᒪᐅᓇ ᓄᖅᑲᕈᑕᐅᖃᑦᑕᖅᑐᑦ ᓄᓕᐊᖃᑦᑕᐅᑎᓂᖏᓐᓄᑦ ᐋᖅᑭᑦᓯᒪᒍᑎᒋᔮ ᐃᖕᒥᒃᑰᖓᓂᖏᓐᓄᑦ ᓇᔪᒐᖃᖃᑎᒌᑦᑐᑦ ᑲᓇᖕᓇᕐᒧᑦ ᓄᒃᑕᖏᔾᔪᑕᐅᖃᑦᑕᖅᓱᕆᔭᐅᔪᑦ ᐆᒪᔪᓄᑦ ᓇᔪᒐᖃᖃᑎᒌᑦᑐᓄᑦ.

MX/16
ᓄᓇᐃᓐᓇᐅᑉ ᑲᓇᖕᓈᓂ ᓇᔪᒐᖃᖃᑎᒌᑦᑐᑦ, MX/16, ᓂᒋᐊᑕ ᑭᒡᓕᓕᐊᖑᓯᒪᓂᖓ ᐊᑐᖃᑎᒌᖃᖃᑦᑕᖅᑐᑦ MX/17 ᑕᒪᐅᓐᖓᖓᔪᒥ ᐱᖓᓐᓇᕐᒧᑦ ᐅᒃᑯᓯᒃᓴᓕᒻᒧᑦ ᖃᐅᔨᓴᕈᑎᕕᓂᐅᔪᑎᒍᑦ ᓇᓗᓇᐃᖅᑕᐅᓯᒪᓪᓗᓂ ᐊᑦᓯᑐᒻᒪᕆᐅᓂᖓᓂᒃ ᐱᑕᖃᓐᖏᓯᐊᒻᒪᕆᑦᑐᓂᓘᓐᓃᑦ ᐅᒥᖕᒪᖃᕐᕕᐅᔪᓂᒃ ᑕᒪᐅᓇᓕᒫᖅ ᓴᓐᓂᖓᔪᒧᑦ (Campbell ᐊᒻᒪᓗ Setterington, 2003). MX/16 ᐅᐊᖕᓇᖓᓂ ᑭᒡᓕᖓ ᑕᒪᐅᓐᖓᖓᔪᖅ ᐅᐊᖕᓇᑐᐃᓐᓇᖓᓄᑦ ᑕᓗᕐᔪᐊᑉ ᐊᕕᒃᓯᒪᓂᖃᖅᑐᓂᒃ ᐱᑕᖃᓐᖏᓯᐊᒻᒪᕆᑦᑐᒥᒃ ᓂᒋᐊᓄᑦ ᐊᑦᓯᖅᑐᒥᒃ

ᐱᑕᖃᓚᐅᓪᓚᓲᒥᓪᓗ ᐅᐊᖕᓇᖓᓂ ᑭᒡᓕᖓᑕ (Campbell and Setterington 2003, Dumond ᐸᕐᓇᐅᑎᖓ). MX/16 ᓇᔪᒐᖃᖃᑎᒌᑦᑐᑦ ᓅᓚᐅᖅᓯᒪᓐᖏᑦᑐᑦ ᑕᐃᒪᓐᖓᓂᑐᖄᓗᒃ ᑕᒫᓂᓐᓂᕋᒥᓂᒃ 1920-ᓂ. ᐃᓱᒪᒋᔭᐅᓯᒪᓕᖅᑐᖅ ᓅᑕᐅᓇᔭᕐᓂᖏᓐᓂᒃ ᓇᔪᒐᖃᖃᑎᒌᑦᑐᑦ ᐊᐅᓚᑦᓯᔾᔪᑎᓄᑦ ᑐᕌᒐᒃᓴᐅᓗᓂ ᐋᖅᑭᓱᖅᑕᐅᕙᓪᓕᐊᓂᖏᓐᓄᑦ ᓇᔪᒐᖃᖃᑎᒌᑦᑐᑦ ᐋᖅᑭᑦᓯᒪᓂᖃᖁᓪᓗᒋᑦ ᐱᔪᓐᓇᖅᓯᓯᒪᓗᑎᒃ ᐆᒪᔪᑦ ᐊᕙᑎᖅᖏᑕᓗ ᖃᐅᔨᓴᖅᑕᐅᓂᖏᓐᓄᑦ ᑲᓇᖕᓈᓂ ᓄᓇᐃᓐᓇᐅᑉ. ᑖᒃᑯᓇᓂ ᓇᔪᒐᖃᖃᑎᒌᑦᑐᑦ ᐊᑦᓯᑐᒻᒪᕆᐅᔪᑦ ᐅᒥᖕᒪᖃᕐᓂᐅᔪᖅ ᑕᒫᓂᑐᐊᑦᓯᐊᖅ ᐱᑕᓕᒃ ᓂᒋᐊᓂ ᐱᖓᓐᓇᖅᐸᓯᐊᓂ ᐊᒻᒪᓗ ᐅᐊᖕᓈᓄᑦ ᑎᑭᓪᓗᒍ ᑭᒡᓕᖓᓄᑦ (Campbell and Setterington, 2003, Dumond 2006).

MX/17
ᑲᓇᓐᓇᖓᑕ ᓄᓇᐃᓐᓇᐅᑉ ᓇᔪᒐᖃᖃᑎᒌᑦᑐᑦ ᐅᒥᖕᒪᑦ, MX/17, ᐃᓱᒪᒋᔭᐅᓯᒪᔪᖅ ᐱᖓᓐᓈᓃᓐᖔᖅᓯᒪᓂᖏᓐᓂᒃ ᐊᒻᒪᓗ ᐅᐊᖕᓈᓂᒃ ᐱᖓᓐᓇᖅᐸᓯᐊᓂᒃ. ᐃᓚᖏᑦ ᓄᒃᑕᕐᓂᐅᔪᑦ ᑏᓛᓐ ᐆᒫᔪᓂᒃ ᓴᐳᔾᔨᕕᒃ ᓇᓗᓇᐃᖅᑕᐅᓯᒪᒻᒥᔪᖅ ᑕᐃᑲᓐᖓᕐᓂᓴᕐᓂᒃ ᐅᓂᒃᑳᓂᒃᑦ ᓄᒃᑕᖅᓯᒪᓂᖏᓐᓄᑦ ᓇᓗᓇᐃᖅᓯᒪᒻᒪᕆᓐᖏᓚᖅ ᐊᒻᒪᓗ ᐊᑯᓂᐊᓗᒃ ᑕᐃᒪᐃᖃᑦᑕᖅᓯᒪᓪᓗᓂ (Barr, 1991). ᐅᐊᖕᓇᓂ ᑲᓇᖕᓇᖅᐸᓯᐊᓂ ᑭᒡᓕᖓ MX/17 ᐅᒃᑯᓯᒃᓴᓕᒃᑯᑦ ᑕᒪᐅᓈᖓᔪᖅ ᐊᑦᓯᑐᒻᒪᕆᐊᓘᔪᖅ ᐱᑕᖃᓐᖏᓯᐊᒻᒪᕆᑦᑐᓘᓐᓃᑦ ᐅᒥᖕᒪᖃᕐᕕᐅᔪᓂᒃ ᓇᓗᓇᐃᖅᑕᐅᓯᒪᔪᓂᒃ ᑕᒪᐅᓇᓕᒫᖅ ᓴᓐᓂᖓᔪᒧᑦ ᑎᑭᓪᓗᒍ (Campbell and Setterington, 2003). ᑕᒪᓐᓇ ᑭᒡᓕᖓ ᐊᕕᒃᓯᒪᔾᔪᑎᒋᔮ MX/16 ᓇᔪᒐᖃᖃᑎᖐᑦᑐᓂᒃ. ᐅᐊᖕᓇᓪᓗᐊᖓᓄᑦ MX/17 ᑭᒡᓕᖓᓄᑦ ᐊᒻᒪᓗ ᑕᕝᕗᓐᖓᖓᓪᓗᓂ ᓴᓐᓂᖓᔪᒧᑦ, ᐅᒥᖕᒪᖃᕐᓂᐅᔪᑦ ᐅᓄᖅᓯᕙᓪᓕᐊᓯᒪᔪᑦ ᐅᐊᖕᓇᕐᒨᐸᓪᓕᐊᓗᓂ ᐅᒥᖕᒪᖃᓕᖅᐸᓪᓕᐊᔪᑦ ᑕᒪᐅᖓ ᖃᓪᓕᕉᑎᓗᓂ Committee Bay-ᒧᑦ. ᐅᐊᖕᓇᖅᐸᓯᐊᓂ ᑲᓇᖕᓈᓂ ᑕᒪᐅᓇ ᐅᒥᖕᒪᖃᕐᓂᐅᔪᑦ ᐱᑕᖃᕈᓐᓃᓯᐊᒻᒪᕆᑦᑐᑦ (Campbell and Setterington, 2003). ᐅᐊᖕᓈ ᐱᖓᓐᓇᖅᐸᓯᐊ MX/17 ᑭᒡᓕᖓ ᑕᒪᐅᓈᖓᔪᖅ ᓴᓐᓂᖓᔪᒃᑯᑦ ᑎᑭᖅᑲᓪᓗᓂ ᑭᒡᓕᖓᓄᑦ ᑏᓛᓐ ᐆᒪᔪᓂᒃ ᓴᐳᔾᔨᕕᖕᒧᑦ ᐊᕝᕕᑎᓯᒪᓪᓗᓂ MX/15 ᓄᓇᑎᒍᑦ ᐅᒥᖏᒪᓐᓄᑦ ᐃᑳᕐᕕᐅᔪᒪᓲᖑᓐᖏᑦᑐᑦ ᑰᑦ ᓄᓕᐊᖅᑎᓪᓗᒋᑦ. ᖃᐅᔨᓴᕈᑕᐅᓯᒪᔪᓂ ᐊᒻᒪᓗ ᐊᑐᐃᓐᓇᐅᔪᓂ ᐅᖃᓕᒫᒐᒃᓴᓂᒃ ᖃᐅᔨᔾᔪᑕᐅᒃᑲᓐᓂᕈᓐᓇᖅᑐᓂ ᓇᓗᓇᐃᖅᑕᐅᑲᓐᓂᖅᓯᒪᒋᕗᖅ ᓇᔪᒐᖃᖃᑎᒌᑦ ᓄᕐᕆᐅᖃᑦᑕᕐᓂᖏᓐᓂᒃ ᑖᒃᑯᓇᓐᖓᑦ ᐊᕝᕗᑎᓯᒪᔪᑦ ᖃᓂᒋᔭᖏᓐᓂᒃ ᓇᔪᒐᖃᖃᑎᒌᑦᑐᓂᑦᑕᐅᖅ. ᑕᒪᒃᑯᐊ ᖃᐅᔨᔭᐅᓂᑰᔪᑦ ᓇᓗᓇᐃᕆᐊᒃᑲᓐᓂᕈᑕᐅᓯᒪᕗᑦ ᓇᔪᒐᖃᖃᑎᒌᑦᑐᑦ ᓄᓕᐊᖃᑦᑕᐅᑎᖃᑦᑕᖏᓐᓂᖏᓐᓂᑦ.

ᐃᖅᑲᓇᐃᔭᐅᑎᒃᓴᑦ ᑎᑎᕋᕆᐊᓐᖓᐅᑦ

MX/18
ᓂᒋᐊ ᑭᕙᓪᓕᕐᒥ ᓇᔪᒐᖃᖃᑎᒌᑦᑐᑦ ᐅᒥᖕᒪᑦ, MX/17 ᑭᒡᓕᖃᖅᑐᑦ ᓂᒋᐊᓂᒃ ᐊᒻᒪᓗ ᐱᖓᓐᓈᓂ ᓄᓇᕗᒻᒥ ᑭᒡᓕᖓᓄᑦ ᒫᓂᑑᕙᒨᖓᔪᒧᑦ ᐊᒻᒪᓗ ᓄᓇᕗᑦ/ᓄᓇᑦᓯᐊᖅ ᑭᒡᓕᖓᓄᑦ ᑕᒪᐅᖓᓕᒫᖅDubawnt River / Thelon Game Sanctuary ᑏᓛᓐ ᐆᒪᔪᓂᒃ ᓴᐳᔾᔨᕕᐅᑉ ᑭᒡᓕᖓᓄᑦ. ᐅᐊᖕᓈᓄᑦ ᑭᒡᖓ ᐊᕕᒃᓯᒪᓂᖃᖅᑐᖅ MX/18 MX/17-ᒥᒃ ᐃᖕᒥᒃᑰᖓᓪᓗᑎᒃ ᒪᕐᕉᒃ ᐊᔾᔨᒌᓐᖏᑦᑑᒃ ᓇᔪᒐᖃᖃᑎᒌᑦᑑᒃ ᒪᓕᓪᓗᒋᑦ ᐊᕕᑦᓯᒪᓂᖓ ᐱᑕᖃᓐᖏᑦᑐᒥᒃ ᐱᑕᖃᓗᐊᓐᖏᑦᑐᒧᑦ ᐅᒥᖕᒪᖃᕐᕕᐅᔪᓂ ᒫᓐᓇᐅᔪᖅ ᑭᒡᓕᓕᒫᖓ ᒪᓕᓪᓗᒍ ᑕᒪᐅᓇ ᓄᓕᐊᖃᑦᑕᐅᑎᓐᖏᔾᔪᑎᒋᖃᑦᑕᖅᑕᖓ (Campbell and Setterington, 2003).

MX/19
ᐅᒥᖕᒪᑦ ᐊᐅᓚᑦᓯᕝᕕᐅᔪᒥ ᐊᕕᒃᓯᒪᓂᖓ 15 ᑕᕝᕙᓃᑦᑐᖅ ᑏᓛᓐ ᐆᒪᔪᓂᒃ ᓴᐳᔾᔨᕕᒃ Thelon Game Sanctuary. ᓇᔪᒐᖃᖃᑎᒌᓐᓂᖏᑦ ᑭᒡᓕᖃᖅᑐᑦ ᓂᒋᐊᓄᑦ ᑲᓇᓐᓇᖅᐸᓯᐊᓄᑦ ᐊᒻᒪᓗ ᑲᓇᓐᓈᓄᑦ Dubawnt ᑰᖓᓄᑦ ᑕᒪᐅᓇ ᑭᒡᓕᖃᖅᑐᑦ ᓄᓇᒃᑯᑦ ᐊᐳᖅᑕᕐᕕᒋᔭᐅᕙᒃᑐᖅ ᐅᒥᖕᒪᑦ ᓄᒃᑕᕐᓂᖏᓐᓄᑦ ᓄᕐᕆᐅᑎᓪᓗᒋᑦ ᐊᒻᒪᓗ ᓄᓕᐊᓕᖅᑎᓪᓗᒋᑦ ᐊᕐᕌᒍᓂ ᑕᒪᐃᓐᓂᒐᓚᒃ. ᐅᐊᖕᓇᖓᓄᑦ ᑭᒡᓕᖓ ᓇᔪᒐᖃᖃᑎᒌᑦᑐᑦ ᐱᑕᖃᓐᖏᑦᑐᖅ ᐅᒥᖕᒪᖃᕐᓂᖓ ᑕᒪᐅᓇ ᐊᒻᒪᓗ MX/14 ᓇᔪᒐᖃᖃᑎᒌᑦᑐᓂᒃ. ᐊᑐᐃᓐᓇᐅᔪᑦ ᑐᓴᕈᑏᑦ ᐃᓱᒪᖃᖅᓯᒪᕗᑦ ᓄᓕᐊᖃᑦᑕᐅᑎᓂᖏᑦ ᐊᑦᓯᑐᒻᒪᕆᐅᔪᖅ ᓯᓚᑖᓄᑦ ᐃᓂᒋᔭᐅᔪᒥ ᓴᐳᔾᔨᕕᖕᒥ ᑭᒡᓕᖓ ᐊᑦᓯᑐᒻᒪᕆᐅᓪᓗᓂ ᑕᒪᐃᓇ ᓇᓗᓇᐃᖅᑕᐅᓯᒪᓂᖏᑕ ᓇᓗᓇᓐᖏᔾᔪᑎᒋᔭᖏᑦ ᓇᔪᒐᖃᖃᑎᒌᓐᓂᖏᓐᓂᒃ.

3.1.4 ᐊᖑᔭᐅᔪᓐᓇᖅᑐᑦ

ᐊᖑᔭᐅᔪᓐᓇᖅᑐᑦ ᐱᔭᕆᔭᐅᔪᓐᓇᖅᑐᑦ ᐅᖓᑖᓅᓐᖏᑦᑐᖅ ᐊᖑᔭᐅᔪᓐᓇᖅᑐᓂᒃ ᐋᖅᑭᑦᓯᒪᒍᑕᐅᕗᖅ ᒪᓕᒐᒃᓴᓕᐊᖑᓯᒪᓪᓗᓂ ᓄᖑᐊᑎᑦᑎᑦᑕᐃᓕᓂᕐᒧᑦ. ᐊᖑᓇᓱᒃᑕᐅᖃᑦᑕᖅᑐᑦ ᐊᒃᑐᐃᓂᖃᕈᓐᓇᕐᒪᑦ

ᓇᔪᒐᖃᖃᑎᒌᑦᑐᓂᒃ. ᑕᒪᓐᓇ ᐱᔾᔪᑕᐅᓪᓗᓂ, ᐊᖑᔭᐅᔪᓐᓇᖅᑐᓄᑦ ᐊᑐᓕᖁᔨᔾᔪᑕᐅᔪᑦ ᑕᕝᕙᓂ ᑖᒃᑯᓇᓐᖔᖅᓯᒪᔪᑦ (ᐃᓱᒪᒋᔭᐅᔪᓂᒃ) ᐊᖏᕈᑕᐅᓯᒫᓂᒃᑐᓂᒃ ᑰᑕᖃᓐᖏᑦᑐᓂᒃ ᑭᒡᓕᖃᖅᑎᑕᐅᔪᓂᒃ ᑖᒃᑯᓄᖓ ᐅᒥᖕᒪᑦ ᐊᖑᔭᐅᖃᑦᑕᕐᓂᖏᓐᓄᑦ ᐊᐅᓚᑦᓯᓂᕐᒧᑦ ᐊᐅᓚᑦᓯᔾᔪᑎᖏᓐᓂᒃ. ᐋᖅᑭᒋᐊᖅᑕᐅᓂᓕᒫᖏᑦ ᑰᑕᖃᓐᖏᑦᑐᑦ ᑭᒡᓕᖃᖅᑎᑕᐅᔪᑦ ᑖᒃᑯᓇᓂ ᖃᐅᔨᓴᖅᑕᐅᑲᓐᓂᖃᑦᑕᕆᐊᖃᕋᔭᖅᐳᑦ (ᓲᕐᓗ, ᐃᓅᓴᓪᓕᒋᐊᖅᑕᐅᓂᖏᓐᓄᑦ) ᐊᖑᔭᐅᔪᓐᓇᖅᑐᑦ ᐋᖅᑭᑦᓯᒪᔭᐅᖁᓪᓗᒋᑦ ᓄᖑᐊᑎᑦᑎᑦᑕᐅᓕᓂᕐᒧᑦ ᐊᖑᔭᐅᖃᑦᑕᖅᑐᓕᒫᓂᒃ ᓇᔪᒐᖃᖃᑎᒌᑦᑐᓂᒃ.

ᐅᑭᐅᕋᓴᓐᓂᒃ ᖃᐅᔨᓵᖑᖃᑦᑕᖅᓯᒪᑎᓪᓗᒋᑦ ᐊᒻᒪᓗ ᖃᐅᔨᒪᓇᓱᐊᖅᑕᐅᖃᑦᑕᖅᓯᒪᑎᓪᓗᒋᑦ ᓇᔪᒐᖃᖃᑎᒌᑦᑐᑦ ᓄᒃᑕᕐᓂᖏᑦ ᐅᒥᖕᒪᓕᒫᑲᓴᑦ ᓇᔪᒐᖃᖃᑎᒌᓐᓂᖏᑦ ᓄᓇᕗᒻᒥ ᑐᓴᕈᑎᓂᒃ ᐊᑐᕐᓇᖅᑐᓂᒃ ᓴᖅᑮᖃᑦᑕᖅᓯᒪᕗᑦ ᐱᔾᔪᑎᒋᓪᖢᒋᑦ ᐋᖅᑭᑦᑕᐅᓯᒪᔭᕆᐊᖃᕐᓂᖏᑦ ᐊᖑᔭᐅᔪᓐᓇᖅᑐᑦ ᒫᓐᓇ ᑕᐃᒎᓯᖃᖅᑎᑕᐅᖃᑦᑕᖅᑐᑦ TAH. ᑕᒪᓐᓇ ᐊᑯᓂᐅᔪᔪᑦ ᐃᓕᖓᔪᖅ ᑐᓴᕈᑎᓕᐊᖑᖃᑦᑕᖅᓯᒪᔪᓂᒃ ᑲᑎᖅᓱᖅᑕᐅᓯᒪᔪᑦ ᖃᐅᔨᓇᕈᑎᒋᓯᒪᕚ ᐅᒥᖕᒪᑦ ᐊᖑᓇᓱᒃᑕᐅᖃᑦᑕᖅᑐᑦ 3%-ᒥᒃ ᓱᒃᑲᐃᓂᖅᓴᐅᓚᐅᖅᑐᑦ ᐱᕙᓪᓕᐊᓂᕆᔭᖏᑦ, 5% ᓱᕐᕋᓚᐅᖅᓯᒪᓐᖏᑦᑐᑦ ᐊᒻᒪᓗ 7% ᐃᓅᓴᓪᓕᕙᓪᓕᐊᒍᑕᐅᓪᓗᓂ ᖃᐅᔨᓴᖅᑕᐅᖃᑦᑕᖅᓯᒪᓂᖏᑎᒍᑦ ᓈᓴᖅᑕᐅᖃᑦᑕᖅᓯᒪᓂᖏᑦ ᒪᓕᓪᓗᒋᑦ ᐅᑭᐅᓂ ᖄᖏᖅᑐᓂ ᐊᔾᔨᒌᖃᑦᑕᖏᓐᓂᖏᓐᓂᒃ ᐊᕙᑎᐅᑉ ᓯᓚᐅᑉ ᖃᓄᐃᖃᑦᑕᕐᓂᖏᑦ. ᑕᒪᒃᑯᐊ ᐊᖑᔭᐅᔪᓐᓇᖅᑐᑦ ᑖᒃᑯᓇᓐᖔᖅᓯᒪᕗᑦ ᖃᐅᔨᓴᖅᑕᐅᓂᑰᔪᓂᒃ ᑲᑎᖅᓱᖅᑕᐅᓯᒪᔪᓂᒃ ᑐᓴᕈᑎᓕᐊᖑᓯᒪᔪᓂᒃ Tener-ᒧᑦ (1965) ᐅᑭᐅᕋᓴᓐᓂ. Tener ᖃᐅᔨᓚᐅᖅᑐᖅ ᐊᓐᓇᓯᒪᖃᑦᑕᕐᓂᖏᑦ ᐅᒥᖕᒫᑦ ᐊᔾᔨᒌᓲᖑᓐᖏᓐᓂᖏᓐᓂᒃ ᐅᑭᐅᓂ, ᑭᓯᐊᓂᓕ, ᓈᓴᐃᔾᔪᑎᒃᑯᑦ 40%-ᒥᒃ 80%-ᒧᑦ ᐊᓐᓇᖃᑦᑕᖅᓯᒪᓂᖏᑦ ᖃᐅᔨᓴᖅᑕᐅᓚᐅᖅᐳᑦ ᐃᓱᒪᒋᔭᐅᓪᓗᑎᒃ 4%-ᒥᒃ 8%-ᒧᑦ ᓇᔪᒐᖃᖃᑎᒌᑦᑐᑦ ᐊᑕᐅᓯᕐᒥ ᐊᕐᕌᒍᒥ ᑑᓕᒐᖃᐅᓚᐅᖅᐳᖅ. ᑖᒃᑯᓇᓐᖓᑦ ᐱᓪᓗᑎᒃ ᐃᓐᓇᐃᑦ ᐊᓐᓇᖃᑦᑕᕐᓂᖏᓐᓂᒃ ᓂᕿᒋᐅᑎᔪᓄᑦ, ᐋᓐᓂᐊᓄᑦ ᐊᒻᒪᓗ ᑐᖁᑐᐃᓐᓇᖅᑐᓄᑦ, 24-ᓂ ᑕᖅᑭᓂ ᐊᐅᓚᓯᒪᓂᕆᓲᖏᓐᓄᑦ ᓇᔾᔨᓕᖃᑦᑕᕐᓂᖏᓐᓄᑦ (36 ᑕᖅᑮᑦ ᐊᕙᑎᒥᒃ ᐱᔾᔪᑎᖃᕌᖓᒥᒃ) ᐊᕐᓇᓪᓗᐃᑦ ᓇᔾᔨᔪᑦ, ᓈᓴᖅᑕᐅᓯᒪᓂᖏᑎᒍᑦ ᐋᖅᑭᑦᑕᐅᓯᒪᓪᓗᑎᒃ ᐊᖑᔭᐅᔪᓐᓇᖅᑐᑦ ᐅᓗᕆᐊᓇᖅᑐᒨᕈᓐᓇᕐᓂᖏᑕ ᐊᕝᕙᖏᓐᓂᒃ ᐊᑯᓂᐅᔪᒧᑦ ᐃᓕᖓᑎᑕᐅᓗᑎᒃ ᐅᑎᖅᑕᕈᓐᓇᕐᓂᖏᑦ ᐊᖑᔭᐅᖃᑦᑕᖅᑐᑦ ᑕᒪᐃᓐᓂᒐᓚᒃ ᓇᔪᒐᖃᖃᑎᒌᑦᑐᓂ ᐱᓗᐊᖅᑐᒥ ᐊᑐᖅᑕᐅᖃᑦᑕᕐᓂᖓ 5% ᐊᖑᔭᐅᖃᑦᑕᖅᑐᑦ ᓇᔪᒐᖃᖃᑎᒌᑦᑐᑦ

ᐃᖅᑲᓇᐃᔭᐅᑎᒃᓴᑦ ᑎᑎᕋᕆᐊᓐᖓᐅᑦ

ᓇᓚᐅᑦᓵᖅᑕᐅᓯᒪᓂᖏᑎᒍᑦ. ᑕᒪᒃᑯᐊ ᐊᑐᖅᑕᐅᖃᑦᑕᖅᑐᑦ ᐊᑦᓯᓂᖅᓴᓃᓐᖔᖅᐸᑕ ᑖᒃᑯᓇᓐᖔᖅᑐᓂᒃ ᓇᓚᐅᑦᓵᖅᑕᐅᓯᒪᔪᓂᒃ (95%-ᖑᒐᔪᑦᑐᖅ) ᐅᕝᕙᓘᓐᓃᑦ ᓇᓚᐅᑦᓵᖅᑕᐅᓯᒪᓂᑐᐃᓐᓇᖏᓐᓂᒃ, ᐊᑐᖅᑕᐅᖃᑦᑕᖅᓯᒪᕗᖅ ᐋᖅᑭᑦᓯᒪᑦᓯᒍᑕᐅᓪᓗᓂ ᐆᒪᔪᓕᕆᓂᕐᒥᒃ ᐊᐅᓚᑦᓯᔨᓄᑦ ᖃᐅᔨᓴᖅᑕᐅᖃᑦᑕᕐᓂᖏᑎᒍᑦ ᖃᓄᐃᓐᓂᖏᓐᓂᒃ ᐊᒻᒪᓗ ᖃᐅᔨᒪᓇᓱᐊᖅᑕᐅᓯᒪᓂᖏᑦ ᐃᖕᒥᒃᑰᖓᔪᑎᒍᑦ ᓄᒃᑕᕐᓂᖏᑦ ᐊᒻᒪᓗ ᖃᐅᔨᓴᖅᑕᐅᓂᖏᑦ ᐃᓐᓇᐃᑦ ᐊᓐᓇᖃᑦᑕᖅᑐᑦ ᖃᐅᔨᓴᖅᑕᐅᖃᑦᑕᖅᑐᑎᒃ. ᑕᒪᓐᓇ ᐅᖃᐅᓯᕆᔭᐅᑎᓪᓗᒍ ᐊᐅᓚᑦᓯᔩᑦ ᐃᓱᒪᒃᓴᖅᓯᐅᕆᐊᖃᖅᐳᑦ ᓇᔪᒐᖃᖃᑎᒌᑦᑐᑦ ᐱᓇᓱᐊᕐᓂᖏᑦ ᐊᓯᔾᔨᕐᓂᑐᐃᓐᓇᕆᓐᖏᑕᖏᑎᒍᑦ ᐱᔾᔪᑎᖃᖃᑦᑕᕐᒪᑕ ᐊᖏᓂᕆᖃᑦᑕᖅᑕᖏᓐᓄᓪᓕ (Caughley and Gunn 1996) ᐊᒻᒪᓗ ᐊᖑᔭᐅᖃᑦᑕᖅᑐᑦ ᑖᒃᑯᓄᓐᖓᖓᓗᐊᖃᑦᑕᑐᒃᓴᐅᕗᑦ ᓄᒃᑕᖃᑦᑕᖅᑐᓄᑦ ᒪᕐᕉᓐᓂ ᒫᓐᓇᐅᔪᖅ ᓇᔪᒐᖃᖃᑎᒌᑦᑐᓂ ᓇᓚᐅᑦᓵᖅᑕᐅᓯᒪᓂᖏᑎᒍᑦ ᐊᒻᒪᓗ ᐊᐅᓚᑦᓯᓂᕐᒧᑦ ᑐᕌᕈᑕᐅᓇᓱᐊᖅᑐᑦ ᑕᐃᒃᑯᐊ ᖃᐅᔨᓴᕈᑎᕖᓃᑦ ᑐᓴᕈᑎᓕᐊᖑᓯᒪᔪᑦ ᓴᖅᑭᖅᐸᑕ.

ᐅᓪᓗᒥᐅᔪᖅ ᐅᒥᖕᒪᐃᑦ ᓇᔪᒐᖃᖃᑎᒌᓐᓂᖏᑦ ᓄᓇᕗᒻᒥ ᐃᓱᒪᒋᔭᐅᔪᑦ ᐊᒥᓱᕐᖑᐸᓪᓕᐊᒋᐊᖏᑦ ᐊᒻᒪᓗ/ᐅᕝᕙᓘᓐᓃᑦ ᓱᕐᕋᓚᐅᖅᓯᒪᓐᖏᒋᐊᖏᑦ ᑕᑯᓗᒋᑦ 1920 ᓯᕗᓂᐊᓂ ᓇᔪᒐᖃᖃᑎᒌᑦᑐᑦ ᖃᓄᐃᓐᓂᕆᓚᐅᖅᓯᒪᔭᖏᑦ, ᑕᐃᒪᓐᖓᓂᒃ ᐅᑎᓚᐅᖅᓯᒪᓐᖏᑲᓗᐊᖅᑎᓪᓗᒋᑦ ᑕᐃᑦᓱᒪᓂᐅᑎᓪᓗᒍ (ᓯᕗᓂᐊᒍᑦ ᑮᓇᐅᔭᓕᐅᕋᓱᐊᕈᑕᐅᓚᐅᖅᑎᓐᓇᒋᑦ ᐊᑐᓗᐊᖅᑕᐅᖃᑦᑕᖅᓯᒪᓂᖏᑦ) ᐱᑕᖃᓚᐅᕐᓂᖏᓐᓄᑦ ᐊᒻᒪᓗ ᐱᔭᕆᔭᐅᖃᑦᑕᖅᓯᒪᓂᖏᑦ ᓱᓕ ᐅᑎᕆᐊᖃᖅᐳᑦ ᑕᒪᕐᒥᑲᓵᒃ ᓇᔪᒐᖃᖃᑎᒌᑦᑐᑦ. ᐊᒥᓱᕐᖑᐸᓪᓕᐊᓂᖏᑦ ᓇᔪᒐᖃᖃᑎᒌᑦᑐᑦ ᓱᒃᑲᓕᓪᓗᑎᒃ ᐱᔾᔪᑕᐅᔪᒃᓴᐅᔪᖅ ᓈᓴᐃᔾᔪᑎᒃᑯᑦ ᓈᓴᖅᑕᐅᖃᑦᑕᕐᓂᖏᑦ ᐊᖑᔭᐅᔪᓐᓇᖅᑐᑦ ᑕᒪᕐᒥ ᐱᔭᐅᖃᑦᑕᖏᓐᓂᖏᓐᓄᑦ ᐊᒻᒪᓗ/ᐅᕝᕙᓗᓐᓃᑦ ᐊᑯᓂᐅᓗᐊᖅᑐᑦ ᓄᖅᑲᖓᑎᑕᐅᓯᒪᓂᖏᓐᓄᑦ ᓇᔪᒐᖃᖃᑎᒌᑦᑐᑦ ᓇᓚᐅᑦᓵᖅᑕᐅᓯᒪᔪᑦ ᑕᐃᒪᐃᑎᓪᓗᒍ ᐊᒥᓱᕐᖑᐸᓪᓕᐊᓂᖏᑦ ᓇᓚᐅᑦᓵᖅᑕᐅᓯᒪᔪᑦ ᐊᑐᐃᓐᓇᐅᓚᐅᓐᖏᒻᒪᑕ ᐋᖅᑭᑦᓯᒪᑦᓯᔾᔪᑎᒃᓴᐅᓪᓗᑎᒃ ᓇᓚᐅᑦᓵᖅᑕᐅᓯᒪᔪᒃᓴᐅᔪᓄᑦ ᐊᖑᔭᐅᔪᓐᓇᖅᑐᓄᑦ. ᐊᑐᓕᔭᖁᔨᔾᔪᑎᒃᑯᑦ ᐊᖑᔭᐅᔪᓐᓇᖅᑐᑦ ᐊᒻᒪᓗ ᐋᖅᑭᒋᐊᖅᑕᐅᓯᒪᓂᖏᑦ ᐊᖑᔭᐅᔪᓐᓇᖅᑐᑦ ᓇᐃᓈᖅᓯᒪᔪᑦ ᖃᐅᔨᒋᐊᒃᑲᓐᓂᕈᑎᒃᓴᐅᔪᑦ ᖃᐅᔨᒋᐊᕈᑎᒃᓴᐅᔪᒥ 3.1.

3.1.5 ᐊᖑᑕᐅᓂᖏᑦ/ᐊᕐᓇᐅᓂᖏᑦ ᐊᖑᔭᐅᔪᓐᓇᕐᓂᖏᓐᓄᑦ

ᐊᖑᑕᐅᓂᖏᓐᓂᒃ ᐊᕐᓇᐅᓂᖏᓐᓂᒃ ᐊᖑᔭᐅᔪᐅᔪᓐᓇᖅᑐᓂᒃ ᒫᓐᓇ ᐊᑐᓕᖁᔨᔾᔪᑎᓕᐅᖅᓯᒪᓐᖏᓚᑦ ᑕᒪᖏᓐᓂ ᓄᓇᕗᒻᒥ 19-ᓂ ᐅᒥᖕᒪᖃᕐᕕᐅᔪᓂ.

3.1.6 ᖃᖓᒃᑯᑦ ᐊᖑᓇᓱᒃᑕᐅᖃᑦᑕᕈᓐᓇᕐᓂᖏᑦ

ᐊᐅᔭᒃᑯᑦ, ᐅᒥᖕᒪᑦ ᖃᑦᓰᓐᓇᐅᓂᖅᓴᐅᓲᖑᔪᑦ ᑲᑎᓐᖓᔪᑦ, ᓯᕗᓕᖅᑕᐅᒐᔪᒃᑐᑎᒃ, ᐊᑕᐅᓯᕐᒥᒃ ᐊᖑᔾᔪᐊᒧᑦ (ᓲᕐᓗ ᐊᖑᑎ ᐊᒻᒪᓗ ᐊᕐᓇᒐᓴᓐᓄᑦ ᒪᓕᒃᑕᐅᓪᓗᓂ ᐅᒥᖕᒫᓕᓐᓄᑦ; Banfield 1974). ᓱᓕᔪᖅᓴᖅᐳᒍᑦ ᐅᓗᕆᐊᓇᕈᓐᓇᕐᓂᖓᓂᒃ ᓄᖑᑕᐅᓐᓂᖅᐸᑕ ᐊᖑᔾᔪᐊᑦ ᒫᓐᓇᐅᔪᖅ ᓄᖑᑐᐃᓐᓇᕆᐊᖃᕐᓂᖏᓐᓂᒃ ᐅᒥᖕᒫᓖᑦ ᖃᐅᔨᒪᔭᕆᔭᐅᔪᑦ, ᑭᓯᐊᓂᓕ ᖁᑦᓯᓂᖅᓴᐅᔪᖅ ᓂᕿᒋᐅᑎᓂᖏᑦ, ᐊᖑᔾᔪᐊᑦ ᓯᕗᓕᖅᑎᑕᐅᖃᑦᑕᖅᓱᒋᔭᐅᒻᒪᑕ ᐊᒻᒪᓗ ᐋᖅᑮᓯᒪᖃᑦᑕᖅᓱᕆᔭᐅᓪᓗᑎᒃ ᐊᕐᓇᖁᑎᒥᓂᒃ ᓴᐳᔾᔨᓯᒪᔨᒋᔭᐅᓂᕐᒥᓄᑦ ᓂᕿᒋᐅᑎᓂᖏᓐᓄᑦ (Urquhart 1982). ᓱᓕᒃᑲᓐᓂᖅ, ᐊᖑᔾᔪᐊᑦ ᓱᓕᔪᕆᔭᐅᒻᒥᔪᖅ, ᐱᖕᒪᕆᕐᔪᐊᕌᓗᒋᔭᐅᔭᕆᐊᖏᓐᓂᒃ ᓯᕗᓕᖅᑎᐅᓂᖏᓐᓄᑦ ᐊᕐᓇᓄᑦ ᐊᒻᒪᓗ ᐅᒥᖕᒫᓄᑦ ᓂᕿᑦᓴᖃᑦᓯᐊᕆᐊᖃᕐᓂᖏᓐᓄᑦ ᐊᐅᔭᒃᑯᑦ. ᐊᐅᔭᖅ ᓂᕆᖃᑦᑕᕐᓂᖏᓐᓄᑦ ᑎᒥᖏᓐᓄᑦ ᐊᑐᖅᑐᒃᓴᓂᒃ ᐱᖕᒪᕆᐅᒻᒪᑦ (Tedesco et al. 1993): ᖃᐅᔨᔭᐅᓯᒪᔪᖅ ᓇᔾᔨᓕᖃᑦᑕᕐᓂᖏᓐᓂᒃ ᐊᒻᒪᓗ ᐃᕐᓂᓂᕐᒥᓄᑦ ᑎᑭᐅᑎᖃᑦᑕᕆᐊᖏᑦ ᖁᐃᓂᖃᑦᑕᕐᓂᖏᓐᓄᑦ

ᑎᒥᖏᓐᓅᑐᒃᓴᓂᒃ ᓂᕿᑦᓴᔭᖏᓐᓂᒃ ᑎᒥᖏᑕ ᓴᓂᕐᕙᖅᑕᐅᓯᒪᕕᖏᓐᓂ (ᑐᓐᓄᖅ), ᐊᒻᒪᓗ ᐆᒪᔾᔪᑎᒃᓴᖏᑦ ᓴᓂᕐᕙᖅᑕᐅᓯᒪᔪᑦ ᑎᒥᖏᓐᓂ ᐱᕙᓪᓕᐊᓂᖃᓲᖑᕗᑦ ᐊᐅᔭᒃᑯᑦ ᐊᒻᒪᓗ ᐅᑭᐊᒃᓵᒃᑯᑦ (Adamczewski et al. 1997, Adamczewski et al 1998). ᐅᑭᐅᒃᑯᑦ, ᐊᕐᓇᖁᑎᒋᔭᐅᔪᑦ ᑲᑎᓐᖓᔪᓐᓇᐃᐸᓪᓕᐊᓲᖑᕗᑦ ᐊᒻᒪᓗ ᐅᒥᖕᒪᑦ ᐊᒥᓲᓂᖅᓴᕈᖅᑐᑎᒃ ᐅᒥᖕᒪᑦ ᑲᑎᓐᖓᔪᑦ, ᐊᖑᑎᒐᓴᐃᑦ ᐊᕐᓇᒐᓴᐃᑦ ᑲᑎᓐᖓᓕᖅᑐᑎᒃ (Banfield 1977), ᑕᐃᒪᐃᓕᖅᑎᓪᓗᒋᑦ ᐊᖑᑏᑦ ᐃᓚᓐᖓᐅᑕᐅᒐᓗᐊᖅᐸᑕ ᑲᑎᓐᖓᓕᖅᑎᓪᓗᒋᑦ ᐊᒃᑐᐃᓂᖃᒐᓱᒋᔭᐅᓐᖏᑦᑐᖅ ᓂᕿᒋᐅᑎᓂᖏᓐᓄᑦ ᓴᐳᔾᔭᐅᓯᒪᔭᕆᐊᖃᕐᓂᕐᒧᑦ ᓂᕿᑦᓴᖅᓯᐅᖃᑦᑕᕐᓂᖏᓐᓄᓪᓗ.

ᐃᖅᑲᓇᐃᔭᐅᑎᒃᓴᑦ ᑎᑎᕋᕆᐊᓐᖓᐅᑦ

ᐊᕙᑎᓕᕆᔨᒃᑯᑦ ᐆᒪᔪᓂᒃ ᖃᐅᔨᓴᖅᑏᑦ ᑲᑐᔾᔨᖃᑎᒌᑦᑐᑦ ᖃᐅᔨᓇᓱᐊᓚᐅᖅᑳᖅᓱᑎᒃ ᐊᑐᐃᓐᓇᐅᔪᓂᒃ ᐅᖃᓕᒫᒐᕐᓂᒃ ᐊᒻᒪᓗ ᐊᓯᖏᓐᓂᒃ ᐅᑭᐅᖅᑕᖅᑐᒥ ᐱᓱᒃᑎᓂᒃ ᑯᑭᓕᓐᓂᒃ ᖃᐅᔨᓴᖅᑏᑦ ᐆᒪᔪᓂᒃ ᓱᓕᔪᖅᓴᖅᐳᑦ ᐊᖑᓇᓱᒃᑕᐅᖃᑦᑕᕆᐊᖃᕐᓂᖏᓐᓂᒃ ᖃᖓᐅᓕᕌᖓᑦ ᓴᐳᑎᔭᐅᓯᒪᔪᓐᓇᖁᓪᓗᒋᑦ ᐸᒡᕕᓴᒃᑕᐅᖁᓇᒋᑦ ᐅᒥᖕᒪᑦ ᑲᑎᓐᖓᓂᖏᑦ ᐊᐅᔭᒃᑯᑦ ᓴᐳᑎᔭᐅᓯᒪᓂᕆᓇᔭᖅᑕᖏᑦ ᐸᒡᕕᓴᒃᑕᐅᖁᓇᒋᑦ ᐊᑑᑎᖃᕋᔭᖅᑐᑦ ᐱᔪᓐᓇᕐᕕᐅᓗᑎᒃ ᑭᒡᓕᖓᓄᑦ ᐊᖑᔭᐅᔪᓐᓇᕋᔭᖅᑐᑦ ᐱᕝᕕᖃᖁᓪᓗᒋᑦ ᐋᖅᑭᒍᑕᐅᓯᒪᓯᓐᓈᕐᓗᓂ ᐅᒥᖕᒪᑦ ᓇᔪᒐᖃᖃᑎᒌᑦᑐᑦ ᓄᖑᑉᐸᓪᓕᐊᖁᓇᒋᑦ ᐊᒻᒪᓗ, ᑕᒪᓐᓇᐅᑎᓪᓗᒍ, ᐊᖑᓇᓱᖃᑦᑕᕈᓐᓇᕐᓗᑎᒃ ᐆᑦᑑᕝᕙ 1-ᒥᒃ ᐄᑉᕈ 15-ᒧᑦ ᑕᒪᐃᓐᓄᑦ ᓇᔪᒐᖃᖃᑎᒌᑦᑐᓄᑦ ᐊᑐᖁᔭᐅᕗᖅ ᑕᒪᐃᓐᓄᑦ ᓄᓇᕗᒻᒥ ᓇᔪᒐᖃᖃᑎᒌᑦᑐᓄᑦ ᐱᓐᖏᑦᑐᑑᓗᓂ ᐃᖃᓗᑦᑑᑦᑎᐊᑉ ᕿᑭᖅᑖᓗᐊᓂ ᓇᔪᒐᖃᖃᑎᒌᑦᑐᑦ (MX/12) ᐊᖑᓇᓱᒃᐸᑦᑐᑦ ᑕᒪᐃᓐᓂᒃ ᐱᑕᖃᑦᑕᖏᓐᓂᖏᓐᓄᑦ ᐊᖑᔭᐅᔪᓐᓇᖅᑐᓂᒃ ᑖᒃᑯᓇᓐᖓᑦ ᓇᔪᒐᖃᖃᑎᒌᑦᑐᓂᒃ.

3.1.7 ᐊᑐᖅᑕᐅᒻᒪᕆᒋᐊᓕᒃ ᐅᓂᒃᑳᓕᐅᕐᓂᖅ ᖃᐅᔨᓴᒐᒃᓴᓂᓪᓗ ᐱᖃᑦᑕᕐᓂᖅ

ᐊᑐᓕᖁᔭᕗᑦ ᐊᑐᖅᑕᐅᖃᑦᑕᐃᓐᓇᖁᓪᓗᒍ ᐊᖑᓇᓱᒃᑏᑦ ᐅᓂᒃᑳᖃᑦᑕᕐᓗᑎᒃ ᐅᒥᖕᒪᒃᑕᕕᓂᕐᒥᓂᒃ ᑕᑕᑎᕆᐊᓕᓐᓂᒃ ᑎᑎᕋᕐᕕᖃᕐᓗᑎᒃ ᐊᖑᓇᓱᒃᑎᐅᑉ ᑐᖁᑕᕕᓂᖓᓄᑦ ᐅᓂᒃᑳᖅ ᐊᒻᒪᓗ ᐊᑐᖅᑕᐅᓗᑎᒃ ᓂᕕᖓᑖᑦ. ᑐᓴᕈᑏᑦ ᑲᑎᖅᓱᖅᑕᐅᔪᓂ ᐅᓂᒃᑳᓂᖃᑕᐅᖃᑦᑕᕆᐊᖃᖅᐳᑦ ᐅᑉᓗᖅ, ᓇᑭᑦ ᐱᓐᓂᕐᒪᖔᖅ (ᓄᓇᓐᖑᐊᑎᒍᑦ ᐊᖕᒧᑦ ᓴᓂᒧᓪᓗ ᓇᓗᓇᐃᖅᑕᐅᓯᒪᓗᓂ) ᐊᖑᓇᓱᒃᑎᐅᑉ ᐊᑎᐊ, ᓂᕕᖓᑖᑉ ᓈᓴᐅᑖ, ᐊᖑᑎ/ᐊᕐᓇᖅ ᐊᒻᒪᓗ ᐅᑭᐅᖏᑎᒍᑦ ᓇᓗᓇᐃᖅᑕᐅᓂᖓ, ᖃᑦᓯᐅᓚᐅᕐᒪᖔ ᑲᑎᓐᖓᔪᑦ, ᐊᒻᒪᓗ ᐃᓚᒋᔭᐅᓗᓂ ᖃᐅᔨᓴᒐᒃᓴᓂᒃ ᐲᔭᐃᖃᑦᑕᖁᓪᓗᒋᑦ ᐊᒥᖓᓂᒃ ᒥᖅᑯᖃᕐᓗᓂ (2X2-ᒐᓚᐅᓗᓂ ᓯᒃᑭᑕᓪᓗᐊᖑᓗᓂ) ᐅᒥᖕᒪᒃᑕᕕᓂᐅᔪᒥᒃ. ᐅᓂᒃᑳᓕᐅᖃᑦᑕᕐᓂᖅ ᐱᖕᒪᕆᐅᕗᖅ ᖃᐅᔨᒪᓇᓱᐊᖅᑕᐅᓂᖏᓐᓄᑦ ᐱᔭᕆᔭᐅᔪᕕᓂᕐᒥᒃ ᐊᒻᒪᓗ ᐋᖅᑭᒋᐊᖅᑕᐅᔭᕆᐊᖃᕌᖓᑦ ᓇᔪᒐᖃᖃᑎᒌᑦᑐᓄᑦ ᐋᖅᑭᒋᐊᕈᑕᐅᖃᑦᑕᕈᓐᓇᕐᓂᖏᓐᓄᑦ ᐊᖑᔭᐅᔪᓐᓇᖅᑐᑦ ᐊᔾᔨᒌᒍᓐᓃᕐᓂᖏᓐᓂᒃ ᖃᐅᔨᓵᒥᓂᐅᔪᓂᒃ ᖃᐅᔨᔾᔪᑕᐅᒃᑲᓐᓂᖃᑦᑕᕈᓐᓇᓂᐊᕐᒪᑕ. ᕿᓯᖓᓂᒃ ᖃᐅᔨᓴᒐᒃᓴᖅᑖᕐᓂᖅ ᐊᑑᑎᖃᒻᒪᕆᑉᐳᖅ ᖃᐅᔨᒋᐊᒃᑲᓐᓂᕈᓐᓇᕈᑎᒋᒐᑦᑎᒍᑦ ᐅᒥᖕᒪᖕᓂᒃ ᓇᔪᒐᖃᖃᑎᒌᑦᑦᑐᓂᒃ ᐊᔾᔨᒋᓐᖏᓐᓂᖏᓐᓂᒃ ᖃᐅᔨᓇᓱᐊᖅᑎᓪᓗᑕ ᐊᒻᒪᓗ ᐊᕐᓇᐅᓂᖓᓂᒃ ᐊᖑᑕᐅᓂᖓᓂᒃ ᐊᖑᔭᐅᔪᖅ ᓲᕐᓗ ᐅᓂᒃᑳᖑᑉᐸᑦ ᐃᓅᓴᓪᓕᑲᓪᓚᓚᐅᕐᓂᖏᓐᓄᑦ ᐊᒻᒪᓗ/ᐅᕝᕙᓘᓐᓃᑦ ᐅᓄᖅᓯᑲᓪᓚᓚᐅᕐᓂᖏᓐᓄᑦ ᓇᔪᒐᖃᖃᑎᒌᑦᑐᑦ. ᐊᖑᓇᓱᒃᑏᑦ ᐅᑎᖅᑎᒃᓯᖃᑦᑕᕆᐊᖃᖅᐳᑦ ᓈᓚᐅᑎᓂᒃ ᖃᐅᔨᓴᕈᑎᒥᓂᐅᔪᓂᒃ ᐃᓕᔭᐅᓂᑯᓂᒃ ᐅᒥᖕᒪᓐᓄᑦ ᐅᕝᕙᓘᓐᓃ ᖃᖓᑦᑕᖅᑎᑕᐅᓯᒪᔪᒃᑯᑦ ᖁᖓᓯᕈᑎᕕᓂᐅᔪᒥᒃ ᓈᓚᐅᒻᒥᒃ ᐆᒪᔪᓕᕆᔨᒧᑦ.

ᐃᖅᑲᓇᐃᔭᐅᑎᒃᓴᑦ ᑎᑎᕋᕆᐊᓐᖓᐅᑦ

ᓇᓗᓇᐃᖅᓯᔾᔪᑦ 3.1 ᐊᑐᓕᖁᔨᔾᔪᑏᑦ ᓇᓗᓇᐃᔭᖅᑕᐅᓯᒪᓂᖏᓐᓄᑦ ᓄᓇᕗᒻᒥ ᐅᒥᖕᒪᑦ ᓇᔪᒐᖃᖃᑎᒌᑦᑐᑦ ᐊᒻᒪᓗ ᑖᒃᑯᓄᓐᖓᖓᔪᑦ ᐊᖑᔭᐅᔪᓐᓇᖅᑐᑦ

ᐊᕕᒃᓯᒪᓂᖅ ᓇᔪᖓᖃᖃᑎᒌᑦᑐᑦ ᐊᖑᔭᐅᔪᓐᓇᖅᑐᑦ ᖃᐅᔨᒋᐊᖅᑎᑦᓯᔾᔪᑏᑦ

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ᐅᒥᖕᒪᒃᑑᒥ ᓇᔪᒐᖃᖃᑎᒌᑦᑐᑦ. ᐊᖑᔭᐅᔪᓐᓴᖅᑐᑦ ᑖᒃᑯᓇᓐᖔᖅᑐᑦ 3% ᒫᓐᓴᐅᔪᖅ ᓈᓴᖅᑕᐅᓯᒪᔪᑦ ᐃᓅᓴᓐᓂᖅᐹᖏᓐᓂᒃ (94) ᓇᓗᓇᐃᖅᑕᐅᓯᒪᔪᖅ 2001. ᑐᕌᕈᑕᐅᓇᓱᐊᖅᑐᖅ ᓇᔪᒐᖃᖃᑎᒌᑦᑐᑦ ᐊᒥᓱᕐᖑᐸᓪᓕᐊᖁᓪᓗᒋᑦ ᐊᕝᕙᖏᓐᓄᑦ

ᑕᐃᑲᓂᐅᓚᐅᖅᑐᖅ ᐊᒥᓲᓂᖅᐹᖑᖃᑦᑕᖅᓯᒪᓂᖏᓐᓂ ᑎᑭᓪᓗᒍ (1961, 1994)ᐊᖑᔭᐅᔪᓐᓇᖅᑐᑦ ᖃᐅᔨᓴᖅᑕᐅᑲᓐᓂᕋᓱᐊᕐᓂᖏᓐᓂ. ᓇᔪᒐᖃᖃᑎᒌᑦᑐᑦ ᖃᑦᓰᓐᓇᐅᒐᓗᐊᑦ ᐊᒻᒪᓗ ᐊᑦᑕᓇᖅᑐᒦᓕᕈᓐᓇᖅᑐᑎᒃ ᓯᓚᐅᑉ

ᐊᔾᔨᒌᖃᑦᑕᖏᓐᓂᖓᓄᑦ. ᐊᕐᓇᐅᓂᖓ ᐊᖑᑕᐅᓂᖓ ᐊᒻᒪᓗ ᐅᑭᐅᖏᑦ ᐋᖅᑭᑦᓯᒪᓂᖓ ᖃᐅᔨᒪᔭᐅᓐᖏᑦᑐᖅ (Gunn and Jenkins, in prep).

MX/02 0 ᑐᕌᖅᑕᐅᓇᓱᐊᖅᑐᖅ ᐅᓄᖅᓯᑎᑕᐅᓇᓱᐊᖅᑐᑎᒃ ᓇᔪᒐᖃᖃᑎᒌᑦᑐᑦ 25-ᕈᕋᓱᐊᕐᓂᖏᓐᓂ (ᖃᐅᔨᒪᔭᐅᔪᑦ ᐊᕝᕙᖏᓐᓄᑦ ᑎᑭᐅᑎᓗᑎᒃ) ᐊᖑᔭᐅᔪᓐᓇᖅᑐᑦ ᖃᐅᔨᓴᖅᑕᐅᑲᓐᓂᕋᓱᐊᕐᓂᖏᓐᓂ. ᓇᔪᒐᖃᖃᑎᒌᑦᑐᑦ ᖃᑦᓯᓇᒻᒪᕆᑯᓘᒻᒪᑕ (2002-ᒥ ᖃᐅᔨᓴᕈᑕᐅᓚᐅᖅᑐᓂᒃ) ᐊᒻᒪᓗ ᐅᓗᕆᐊᓇᖅᑐᒨᕈᓐᓇᖅᑐᑎᒃ ᓯᓚᐅᑉ ᐊᓯᔾᔨᑕᕐᓂᖓᓄᑦ. (Gunn and Jenkins, in prep).

MX/03 20 ᐊᐅᓱᐃᑦᑐᒥᐅᑦ ᕿᑭᖅᑖᓗᐊᑕ ᕿᑎᐊᓂ: ᒫᓐᓇᒫᖑᓚᐅᖅᑐᖅ ᖃᖓᑕᓲᒃᑯᑦ ᐊᒻᒪᓗ ᓄᓇᒃᑯᑦ ᖃᐅᔨᓴᕐᓂᐅᓚᐅᖅᑐᖅ ᐊᐅᓱᐃᑦᑐᒥᐅᑦ ᕿᑭᖅᑖᓗᐊᓂ ᖃᐅᔨᓇᓚᐅᖅᐳᖅ ᐊᒥᓲᓂᖅᓴᐃᑦ ᐅᒥᖕᒪᑦ ᐅᐊᖕᓇᒧᐊᖅᓯᒪᒋᐊᖏᑦ ᓇᓗᓇᐃᖅᑕᐅᓯᒪᔪᑦ ᐅᒥᖕᒪᖃᕐᓂᐅᒋᐊᖓᓂ (Fosheim ᓄᕗᐊᓗᒃ). ᐊᖑᔭᐅᔪᓐᓇᖅᑐᑦ 5% = ᖁᑦᓯᓂᖅᓴᖓᓂ ᕿᑭᖅᑕᐅᑉ ᓇᔪᒐᖃᖃᑎᒌᑦᑐᑦ ᓇᓚᐅᑦᓵᖅᑕᐅᓯᒪᓂᖏᑦ (394) (Gunn and Jenkins, in prep).

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ᐊᐅᓱᐃᑦᑐᒥᐅᑦ ᕿᑭᖅᑖᓗᐊᑕ ᓂᒋᐊᓂ ᓇᔪᒐᖃᖃᑎᒋᑦᑐᑦ ᓇᓚᐅᑦᓵᖅᑕᐅᓯᒪᔪᑦ 139 (95%CI 98-196) ᑕᐃᑲᓐᖔᖅᑐᑦ ᐅᒥᖕᒪᑦ 2005-ᒥ ᖃᐅᔨᓴᖅᑕᐅᓂᕕᓂᖏᓐᓂᒃ (Gunn & Jenkins, in prep). ᓱᒃᑯᓚᐅᕐᓂᖏᓐᓄᑦ ᐅᒥᖕᒪᑦ

ᑕᑯᔭᐅᖃᑦᑕᓚᐅᖅᑐᑦ 2005-ᒥ ᓯᑕᒪᓂᒃ ᐊᖑᓇᓱᒍᓐᓇᖁᔭᐅᔪᑦ ᐅᕝᕙᓘᓐᓃᑦ 3%-ᖓᓂᒃ ᐊᕕᑦᑐᖅᓯᒪᓂᐅᔪᖅ ᓇᓚᐅᑦᓵᖅᑕᐅᓯᒪᔪᑎᒍᑦ ᑐᓴᕈᑎᒋᐊᒃᑲᓂᕐᓂᒃ ᐊᕕᑦᑐᖅᓯᒪᓂᐅᔪᓂ/ᐅᑎᖅᐸᓪᓕᐊᓂᖏᓐᓂ ᐊᑐᐃᓐᓇᕈᖅᑐᖃᕋᓱᐊᕐᓂᖓᓂ.

(Gunn and Jenkins, in prep).
MX/05 14 ᑕᓪᓗᕈᑎᐅᑉ ᐅᐊᖕᓈᓂ ᓇᔪᒐᖃᖃᑎᒌᑦᑐᑦ: ᐃᓄᐃᑦ ᖃᐅᔨᒪᔭᑐᖃᖏᑎᒍᑦ ᐃᓱᒪᒋᔭᐅᔪᖅ ᐅᓄᖅᓯᕙᓪᓕᐊᒋᐊᖏᑦ ᐅᒥᖕᒪᑦ ᑕᒪᓐᓇᐅᑎᓪᓗᒍ ᐊᑐᓕᖁᔨᔾᔪᑎᐅᔪᒥᒃ ᐊᒃᑐᐃᓯᒪᓂᖓ ᐊᖑᔭᐅᔪᓐᓇᖁᔨᓪᓗᑎᒃ 14-ᓂᒃ ᐅᕝᕙᓗᓐᓃᑦ 5% 1990- ᒥᓂᓴᕐᓂᒃ ᓈᓴᖅᑕᐅᓂᑯᓂᒃ. (Gunn and Jenkins, in prep).

MX/06 2 ᑕᓪᓗᕈᑎᐅᑉ ᓂᒋᐊᓂ ᓇᔪᒐᖃᖃᑎᒌᑦᑐᑦ: ᑐᕌᒐᕆᔭᐅᓇᓱᐊᖅᑐᖅ ᓇᔪᒐᖃᖃᑎᒌᑦᑐᑦ ᑲᔪᓯᔪᓐᓇᖁᓪᖢᒋᑦ ᓄᖑᐊᑎᑦᑎᑦᑕᐃᓕᓂᕐᒧᑦ ᒫᓐᓇᐅᔪᖅ ᐊᑐᖅᑕᐅᖃᑦᑕᕐᓂᖏᑐᑦ ᐊᐅᓚᓂᖃᐃᓐᓇᕐᓗᓂ ᐃᓄᐃᑦ ᐱᔭᕆᐊᓕᖏᓐᓄᑦ. ᐊᖑᔭᐅᔪᓐᓇᖅᑐᑦ ᒪᕐᕉᒃ ᑖᓐᓇ 3%-ᕆᓪᓗᓂᐅᒃ 1990-ᒥᓂᓴᕐᓂᒃ ᓈᓴᖅᑕᐅᓂᑯᓂᒃ ᐊᑐᓕᖁᔭᐅᔪᖅ. (72, 1990 ᖃᐅᔨᓴᕈᑎᕕᓂᖅ) (Gunn and Jenkins, in prep).

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ᑕᓪᓗᕈᑎᐅᑉ ᐱᖓᓐᓈᓂ ᓇᔪᒐᖃᖃᑎᒌᑦᑐᑦ. ᓇᔪᒐᖃᖃᑎᒌᑦᑐᑦ ᖃᑦᓰᓐᓇᑯᓘᒐᓗᐊᑦ ᑭᓯᐊᓂ ᐊᒥᓱᕐᖑᐸᓪᓕᐊᒐᓛᒃᓱᕆᔭᑦ. ᑐᕌᒐᕆᔭᐅᓇᓱᐊᖅᑐᖅ ᓇᔪᒐᖃᖃᑎᒌᑦᑐᑦ ᑲᔪᓯᔪᓐᓇᖁᓪᖢᒋᑦ ᓄᖑᐊᑎᑦᑎᑦᑕᐃᓕᓂᕐᒧᑦ. ᐊᖑᔭᐅᔪᓐᓇᖅᑐᑦ

ᑕᓪᓕᒪᑦ ᑖᓐᓇ 5%-ᕆᓪᓗᓂᐅᒃ 2002/03-ᒥᓂᓴᕐᓂᒃ ᓈᓴᖅᑕᐅᓂᑯᓂᒃ ᓇᓚᐅᑦᓵᖅᑕᐅᓯᒪᔪᓂᒃ ᐊᑐᓕᖁᔭᐅᔪᖅ.

(Gunn and Jenkins, in prep).

ᕿᑭᖅᑖᓗᒃ

MX/08 117 ᑰᒐᓇᔫᑉ ᓄᓇᖓᓂ ᓇᔪᒐᖃᖃᑎᒌᑦᑐᑦ. ᑐᕌᒐᕆᔭᐅᓇᓱᐊᖅᑐᖅ ᓇᔪᒐᖃᖃᑎᒌᑦᑐᑦ ᑲᔪᓯᔪᓐᓇᖁᓪᖢᒋᑦ ᓄᖑᐊᑎᑦᑎᑦᑕᐃᓕᓂᕐᒧᑦ ᐅᒥᖕᒪᑦ ᐊᒻᒪᓗ ᑎᒍᒋᐊᖅᓯᒪᓗᒍ ᐅᑎᖅᐸᓪᓕᐊᔪᓐᓇᖁᓪᓗᒋᑦ ᑐᒃᑐᑦ. ᐊᕐᕌᒍᑕᒫᖅ ᓇᓴᖅᑕᐅᓯᒪᓂᖏᑎᒍᑦ ᐅᓄᖅᓯᕙᓪᓕᖅᓯᒪᓂᖏᑦ (6%) ᐊᑐᓕᖁᔭᐅᔪᖅ ᐊᖑᔭᐅᔪᓐᓇᖅᑐᓄᑦ (Gunn and Jenkins, in prep) (Dumond 2006).

MX/09 20

ᑭᓐᖓᐃᓚᕐᒥ ᓇᔪᒐᖃᖃᑎᒌᑦᑐᑦ. 1995-ᒥᓂᒃ ᐅᒥᖕᒪᖃᕐᓂᐅᔪᑦ ᐊᑉᐸᐸᓪᓕᖅᓯᒪᓚᐅᖅᑐᑦ ᖃᑦᓯᓐᓇᕈᖅᓯᒪᓪᓗᑎᒃ. ᐊᑐᓕᖁᔭᐅᔪᖅ ᐊᖑᔭᐅᔪᓐᓇᖅᑐᑦ ᑖᒃᑯᓇᓐᖔᖅᑐᑦ ᐊᒥᐊᒃᑯᖏᑕ ᐃᓱᐊᓂ ᓄᖑᑉᐸᓪᓕᐊᓂᖏᓐᓄᑦ ᓈᓴᖅᑕᐅᓯᒪᓂᐅᔪᒥᒃ

ᐅᒥᖕᒪᑦ ᑕᒪᐅᓐᓇ ᐃᓅᓴᓪᓕᕙᓪᓕᐊᑐᐃᓐᓇᓂᐊᖅᑐᑦ (ᐃᒻᒪᖃ ᑐᒃᑐᐃᑦ ᐅᑎᖅᐸᓪᓕᐊᖔᓕᕐᓗᑎᒃ) ᓱᒃᑲᓕᔮᓗᐊᑦᑕᐃᓕᑎᓪᓗᒍ ᐃᓅᓴᓪᓕᕙᓪᓕᐊᑐᐃᓐᓇᕐᓂᖏᑦ ᐊᓪᓛᑦ ᐅᓗᕆᐊᓇᖅᑑᒨᖁᓇᒋᑦ ᐊᖑᔭᐅᖃᑦᑕᕈᓐᓇᐃᓐᓇᖁᓪᓗᒋᑦ. (Dumond

2006) .

MX/10 20 ᐊᕐᕕᖅᑑᒥ ᓇᔪᒐᖃᖃᑎᒌᓐᓂᖏᑦ. ᒫᓐᓇᐅᔪᖅ ᐊᑐᓕᖁᔨᔾᔪᑎᐅᔪᖅ ᑖᒃᑯᓇᓐᖔᖅᓯᒪᔪᖅ ᓯᕗᓂᐊᓂ ᓇᔪᒐᖃᖃᑎᒌᑦᑐᑦ ᓇᓚᐅᑦᓵᖅᑕᐅᓯᒪᓂᖓ. ᐊᖑᔭᐅᔪᓐᓇᖅᑐᑦ ᕿᒥᕐᕈᓇᒃᑕᐅᓂᐊᖅᑐᑦ ᖃᐅᔨᓴᖅᑕᐅᓚᐅᕋᑕᓚᐅᕐᓂᐅᔪᒥᒃ ᔫᓂ 2006. ᐅᓂᒃᑳᖅ ᐊᑐᐃᓐᓇᕈᖅᑐᒃᓴᒪᐅᑕᐅᔪᖅ ᒫᓯ 2007 (Dumond 2006).

MX/11 12 King William Island ᓇᔪᒐᖃᖃᑎᒌᑦᑐᑦ. ᓇᔪᒐᖃᖃᑎᒌᑦᑐᑦ ᓇᓚᐅᑦᓵᖅᑕᐅᓯᓚᒧᑦ (ᐃ8ᓴᐃᑦ ᐅᒥᖕᒪᑦ): 317 (ᖃᐅᔨᓴᖅᑕᐅᑲᓐᓂᖅᓯᒪᔪᑦ ᓄᓇᒥᒃ 2002), ᒫᓐᓇᐅᔪᖅ ᓇᔪᒐᖃᖃᑎᒌᑦᑐᑦ: ᐅᓄᖅᓯᕙᓪᓕᐊᔪᑦ (ᓄᓇᓕᓐᓂ ᐊᖑᓇᓱᒃᑐᓕᕆᔨᒃᑯᑦ), ᐊᑐᓕᔭᖁᐅᔪᖅ 4% ᐅᓄᖅᓯᒋᐊᕈᑕᐅᓗᑎᒃ (ᐊᖑᔭᐅᔪᓐᓇᓕᕐᓗᑎᒃ 12) (Dumond 2006).

MX/12 ᐱᑕᖃᓐᖏᑦᑐᖅ ᐃᖃᓗᑦᑑᑦᑎᐊ ᕿᑭᖅᑖᓗᐊᓂ ᓇᔪᒐᖃᖃᑎᒌᑦᑐᑦ. ᒫᓐᓇᐅᔪᖅ ᐊᖑᔭᐅᖃᑦᑕᖅᑐᑦ ᐃᓅᓴᓐᓂᓴᒻᒪᕆᐊᓘᔪᑦ ᓄᖑᐊᑎᑦᑎᑦᑕᐃᓕᒪᓂᕐᒧᑦ ᐊᑐᖅᑕᐅᓇᓱᐊᖅᑑᒐᓗᐊᑦ, ᑕᐃᒪᐃᒻᒪᑦ ᐊᖑᔭᐅᔪᓐᓇᖅᑐᓂ ᐱᑕᖃᕆᐊᑐᓐᖏᑦᑐᖅ. (Dumond 2006).

MX/13 20

ᐱᖓᓐᓈᓂ ᖁᕐᓗᖅᑑᑉ ᓇᔪᒐᖃᖃᑎᒌᑦᑐᑦ: ᓇᔪᒐᖃᖃᑎᒌᑦᑐᑦ ᐃᓅᓴᓪᓕᓯᒪᔪᑦ 50%-ᖏᓐᓂᒃ ᐊᒻᒪᓗ ᓇᓚᐅᑦᓵᖅᑕᐅᓯᒪᓚᐅᖅᑐᑎᒃ 650 ᐃᖕᒥᒃᑰᖓᔪᑦ 1994-ᒥ. ᑕᐃᒪᓐᖓᓂᒃ ᓄᓇᓖᑦ ᖃᐅᔨᒪᓂᖏᑦ ᐊᒻᒪᓗ ᖃᖓᑕᓲᒃᑯᑦ

ᖃᐅᔨᓴᕐᓂᐅᓯᒪᔪᑦ ᐅᕝᕙᓘᓐᓃᑦ ᓄᓇᒥ ᐃᖏᕐᕋᔭᖃᑦᑕᖅᑐᑎᒃ ᑕᐃᒫᑦᓴᐃᓐᓇᖅ ᐅᖃᖅᓯᒪᔪᑦ ᐅᑎᖅᓯᒪᓐᖏᒋᐊᖏᑦ ᓇᔪᒐᖃᖃᑎᒌᑦᑐᑦ ᐊᒻᒪᓗ ᓱᓕ ᒫᓐᓇᒧᑦ ᐊᑦᓯᑐᒻᒪᕆᐅᔪᖅ ᐱᑕᖃᕐᓂᖓ. ᐊᑐᓕᖁᔭᐅᔪᑦ ᑕᒫᓃᑦᑐᖅ 3%

ᓇᔪᒐᖃᖃᑎᒌᑦᑐᓂᒃ (Dumond 2006).
MX/14 240 ᕿᑎᐊᓂ ᓄᓇᐃᓐᓇᐅᑉ ᓇᔪᒐᖃᖃᑎᒌᑦᑐᑦ. ᐊᖑᔭᐅᔪᓐᓇᖅᑐᑦ 240 ᑖᒃᑯᓇᓐᖔᖅᑐᖅ 4% ᓇᔪᒐᖃᖃᑎᒌᑦᑐᑦ ᓇᓚᐅᑦᓵᖅᑕᐅᓯᒪᓂᖏᓐᓂᒃ (Dumond 2006).

MX/15 66 ᐃᑭᕋᓴᒃ ᕿᑎᕐᒥᐅᓂ ᓇᔪᒐᖃᖃᑎᒌᑦᑐᑦ Queen Maud Gulf. ᓇᔪᒐᖃᖃᑎᒌᑦᑐᑦ ᓇᓚᐅᑦᓵᖅᑕᐅᓯᒪᔪᑦ (ᐃᓐᓇᐃᑦ ᐅᒥᖕᒪᑦ): 2200 (ᐃᓱᒪᒋᔭᐅᓯᒪᔪᑦ 1996-ᒥ 2000-ᒥᓗ ᖃᖓᑕᓲᒃᑯᑦ ᖃᐅᔨᓴᕐᓂᖅᑕᖃᓚᐅᖅᑎᓪᓗᒍ), ᒫᓐᓇᐅᔪᖅ ᓇᔪᒐᖃᖃᑎᒌᑦᑐᑦ ᖃᓄᐃᓐᓂᖏᑦ: ᐃᓅᓴᓪᓕᕙᓪᓕᐊᔪᑦ (ᓄᓇᓕᓐᓂ ᐊᖑᓇᓱᒃᑐᓕᕆᔩᑦ, ᖃᖓᑕᓲᒃᑯᑦ ᖃᐅᔨᓴᕐᓂᖅ), ᐊᑐᓕᖁᔨᔾᔪᑦ ᐊᖑᔭᐅᔪ8ᓴᖅᑐᓂᒃ: 3% (ᐊᖑᔭᐅᔪᓐᓇᖅᑐᑦ 66) (Dumond 2006).

ᕿᑎᕐᒥᐅᑦ

MX/16 10

ᑲᓇᖕᓈᓂᒃ ᓄᓇᐃᓐᓇᕐᒥ ᓇᔪᒐᖃᖃᑎᒌᑦᑐᑦ ᒫᓐᓇᒫᖑᓂᖅᐹᖅ ᓇᓚᐅᑦᓵᕈᑕᐅᓯᒪᔪᑦ (ᐃᓐᓇᐃᑦ ᐅᒥᖕᒪᑦ): 165 (ᖃᖓᑕᓲᒃᑯᑦ ᖃᐅᔨᓴᕐᓂᖅ 2000), ᒫᓐᓇᐅᔪᖅ ᓇᔪᒐᖃᖃᑎᒌᑦᑐᑦ ᖃᓄᐃᓐᓂᖏᑦ: ᓄᒃᑎᐸᓪᓕᐊᔪᑦ (ᓄᓇᓕᖕᓂ

ᐊᖑᓇᓱᒃᑐᓕᕆᔨᒃᑯᑦ), ᐊᑐᓕᖁᔭᐅᔪᖅ ᐊᖑᔭᐅᔪᓐᓇᖅᑐᒧᑦ: 4% (ᑭᓯᐊᓂ ᐊᖑᔭᐅᔪᓐᓇᖅᑐᑦ ᖁᓕᑦ ᐃᓚᒋᔭᐅᓪᓗᑎᒃ ᖃᐅᔨᓴᖅᑕᐅᓯᒪᓐᖏᑦᑐᓃᓐᖔᖅᑐᑦ ᑐᓴᕈᑕᐅᒃᑲᓐᓂᕈᓐᓇᖅᑐᑦ ᑲᑎᖅᓱᖅᑕᐅᒐᓱᐊᕐᓂᖏᓐᓂ (Dumond 2006, Campbell

& Setterington, 2003).

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MX/17 41

ᐅᐊᖕᓈᓂ ᑭᕙᓪᓕᐅᑉ ᓇᔪᒐᖃᖃᑎᒌᑦᑐᑦ. ᐊᖑᔭᐅᔪᓐᓇᖅᑐᑦ ᑖᒃᑯᓇᓐᖔᖅᑐᑦ ᖃᐅᔨᓴᕈᑎᕕᓂᕐᓂᒃ, ᑕᒫᓂᒐᓚᒃ 3% ᐊᑦᓯᓂᖅᓴᓂᒃ ᖃᐅᔨᓴᕈᑎᕕᓂᕐᓂᒃ ᑖᒃᑯᑎᒎᓇ. ᐊᖑᔭᐅᔪᓐᓇᖅᑐᑦ ᐋᖅᑭᑦᑕᐅᓯᒪᔪᑦ ᐱᕙᓪᓕᐊᓂᖃᑦᓯᐊᖁᓪᓗᒋᑦ

ᐊᒥᓱᕐᖑᐸᓪᓕᐊᓂᖏᑦ. ᐊᕕᑦᓯᒪᓂᖏᑦ MX/17 ᐊᒻᒪᓗ MX/16 ᑖᒃᑯᓇᓐᖔᖅᑐᑦ ᐅᒥᖕᒪᖃᕐᓂᐅᔪᒥᒃ ᐊᒻᒪᓗ ᖃᐅᔨᒪᔭᐅᔪᓂᒃ ᓄᒃᑕᕐᓂᐅᔪᓂᒃ ᐊᒻᒪᓗ ᓄᓇᑎᒍᑦ ᐊᕕᒃᓯᒪᓂᖏᓐᓂᒃ ᓄᒃᑕᖃᑦᑕᓂᕐᒥᓄᑦ ᑖᒃᑯᐊ ᒪᕐᕉᓕᖅᑲᖓᔪᑦ

ᓇᔪᒐᖃᖃᑎᒌᓐᖏᑦᑐᑦ ᓇᓗᓇᐃᖅᑕᐅᓯᒪᓂᖏᑎᒍᑦ(Campbell & Setterington, 2003).

MX/18 60

ᑭᕙᓪᓕᐅᑉ ᓂᒋᐊᓂ ᓇᔪᒐᖃᖃᑎᒌᑦᑐᑦ ᐊᖑᔭᐅᔪᓐᓇᖅᑐᑦ ᑖᒃᑯᓇᓐᖔᖅᑐᑦ ᖃᐅᔨᓴᕈᑎᕕᓂᕐᓂᒃ, ᑕᒫᓂᒐᓚᒃ ᐊᑦᓯᓂᖅᓴᓂᒃ ᖃᐅᔨᓴᕈᑎᕕᓂᕐᓂᒃ ᑖᒃᑯᑎᒎᓇ ᐅᖑᔭᐅᔪᓐᔪᓇᖅᑐᑦ ᐋᖅᑭᑦᑕᐅᓯᒪᔪᑦ ᐱᕙᓪᓕᐊᓂᖃᑦᓯᐊᖁᓪᓗᒋᑦ

ᐊᒥᓱᕐᖑᐸᓪᓕᐊᓂᖏᑦ. ᐊᕕᒃᓯᒪᓂᖏᒃ ᐅᐊᖕᓈ ᑭᕙᓪᓕᖅ ᓂᒋᐊ ᑭᕙᓪᓕᖅ ᑖᒃᑯᓇᓐᖔᖅᑐᑦ ᐅᒥᖕᒪᑦ ᓄᒃᑕᖃᑦᑕᕐᓂᖏᓐᓂᒃ (ᐅᑎᖅᑕᑎᐅᓐᖏᒻᒪᑕ) ᐊᒻᒪᓗ ᓄᓇᑎᒍᑦ ᐊᕕᒃᓯᒪᓂᖏᓐᓂᒃ ᑖᒃᑯᓇᓐᖓᑦ ᖃᐅᔨᒪᔭᐅᓂᕆᔭᖏᓐᓂᒃ

ᓅᖃᑦᑕᖅᓯᒪᓂᖏᑕ.

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(Campbell & Setterington, 2003).

ᑭᕙᓪᓕᖅ

MX/19 0 ᑏᓛᓐ ᐆᒪᔪᓂᒃ ᓴᐳᔾᔨᕕᒃ ᓇᔪᒐᖃᖃᑎᒌᑦᑐᑦ (ᐊᖑᓇᓱᒃᑕᐅᔭᕆᐊᖃᓐᖏᑦᑐᑦ)

ᐃᖅᑲᓇᐃᔭᐅᑎᒃᓴᑦ ᑎᑎᕋᕆᐊᓐᖓᐅᑦ

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