# ᑐᓂᔭᑦ ᐅᕗᖓ

# ᓄᓇᕗᑦᒥ ᐆᒪᔪᓕᕆᔨᕐᔪᐊᑦ ᑲᑎᒪᔨᖏᑦ

## ᐃᒪᐃᑦᑐᒧᑦ

ᑐᓴᕐᓴᑦ: X ᐃᓱᒪᓕᐅᕈᑎᑦᓴᑦ:

ᐱᔭᔪᑕᐅᔪᖅ: ᐆᑦᑐᕈᑕᐅᔪᑦ ᖃᐅᔨᒐᓱᐊᕈᑎᓄᑦ ᐊᓐᓇᐅᒪᔭᔪᑕᐅᒋᐊᓖᑦ ᖃᓄᐃᓪᓗᐊᕐᓂᖏᓐᓂᒃ (ᐊᓐᓇᐅᒪᔭᔪᑕᐅᒍᐊᓖᑦ) ᐃᑲᔪᕈᑕᐅᔪᑦ ᐋᕿᑦᓱᕐᑕᐅᓂᖏᓐᓄᑦ ᑲᑎᑦᑐᒋᑦ ᐊᔪᓐᖏᑕᑦ ᐊᖑᔭᐅᓂᕐᒥᒃ (ᐊᖑᓇᓱᒃᑕᐅᒍᓐᓇᕐᑐᑦ) ᐃᖃᓗᒃᐲᑦ ᑲᖏᕐᑐᕈᓗᒃᒥ ᓄᓇᕗᑦᒥ.

ᖃᓄᐃᓱᒪᓂᖓ:

ᓄᓇᕗᑦᒥ ᐆᒪᔪᓕᕆᔨᕐᔪᐊᑦ ᑲᑎᒪᔨᖏᑦ (ᐆᒪᔪᓕᕆᔨᕐᔪᐊᑦ ᐅᑉᐸᓗᓐᓃᑦ ᑲᑎᒪᔨᑦ) ᐋᕿᕐᑯᔭᐅᓯᒪᓕᕐᒪᑕ ᐊᖑᓇᓱᒃᑕᐅᒍᓐᓇᕐᑐᓂᒃ ᐃᖃᓗᒃᐱᓐᓂᒃ (*Salvelinus alpinus*) ᑕᓯᕐᒥ ᑲᖏᕐᑐᕈᓗᒃᒥ (66º 23'N 64º 19'W) ᑲᖏᕐᑐᕈᓗᒃᒥ ᓄᓇᕗᑦᒥ. ᑮᓇᐅᔭᕐᓴᕈᑎᒋᓗᒋᑦ ᐃᖃᓗᒃᐱᓐᓂᐊᒐᐃᑦ (4500 ᑭᓗᒃᒍᕐᒪᔅ/ᐊᒃᕐᒍᒥ) ᐱᑕᖃᕐᓯᒪᓕᕐᒪᑕ ᑕᓯᕐᒥ ᐅᐸᓐᖓᑦ 1989 ᐅᕗᖓ 1999. ᑕᐃᑲᓂ 2000, ᑲᑎᒪᔨᑦ ᒪᑐᓯᓚᐅᕐᑐᑦ ᑮᓇᐅᔭᕐᓴᕈᑎᒋᓗᒋᑦ ᐃᖃᓗᒃᐱᓐᓂᐊᒐᕐᓂᒃ ᑲᖏᕐᑐᕈᓗᒃᒥ ᑕᐃᒪᐃᕐᑯᔨᒻᒪᑕ ᐸᓐᓂᕐᑑᖅᒥ ᐊᖑᓇᓱᒃᑐᓕᕆᔨᑦ ᐱᓪᓗᒍ ᐱᓗᐊᑦᑕᐃᓕᓂᕐᒧᑦ ᐃᓱᒫᓗᒍᑏᑦ ᖃᓄᐃᓕᕐᒪᖔᑕ ᐱᑕᖃᕐᑐᑦ. ᐃᓱᒫᓗᒍᑦ ᐃᒪᐃᑦᑑᓚᐅᕐᑐᖅ ᐃᖃᓪᓕᐊᕐᕕᐅᓗᐊᕐᓂᖓᓄᑦ ᒥᑭᔫᑕᐅᓗᐊᓕᕐᓂᖏᑦ ᐊᒻᒪᓗ ᐱᐅᓐᖏᓗᐊᓕᕐᓂᖏᑦ ᐱᑕᖃᕐᑐᑦ. ᑕᓪᓕᒪᓄᑦ-ᐊᒻᕿᒍᓄᑦ ᓄᖃᖓᑎᑕᐅᓚᐅᕐᑐᖅ ᑮᓇᐅᔭᕐᓴᕈᑎᒋᓗᒋᑦ ᐃᖃᓗᒃᐱᓐᓂᐊᕐᓂᖅ ᑲᖏᕐᑐᕈᓗᒃᒥ.

ᒪᒡᔫᒃ ᐊᒻᕿᒍᒃ ᑭᖑᕐᖓᒍᑦ, 2002ᒥ, ᐸᓐᓂᕐᑑᖅᒥ ᐊᖑᓇᓱᒃᑐᓕᕆᔨᑦ ᐅᖃᐅᔭᔨᓚᐅᕐᑐᑦ ᐆᒪᔪᓕᕆᔨᕐᔪᐊᓂᒃ ᐲᕐᓯᑯᓪᓗᒋᑦ ᓄᖃᖓᑎᑕᐅᓂᖓᓂᒃ ᑮᓇᐅᔭᕐᓴᕈᑎᒋᓗᒋᑦ ᐃᖃᓗᒃᐱᓐᓂᐊᕐᓃᑦ ᑲᖏᕐᑐᕈᓗᒃᒥ, ᐅᖃᕐᑐᑎᒃ ᐱᐅᓂᕐᓴᐅᓕᕆᐊᖏᑕ ᐃᖃᓗᐃᑦ ᐱᔭᐅᑉᐸᑦ ᓂᕿᑦᓴᕆᔭᐅᓪᓗᑎᒃ ᐊᖑᔭᑦ ᑕᐃᑲᓂ. 2004ᒥ, ᐃᒪᕐᒥᐅᑕᓕᕆᔨᑦ ᑲᓇᑕᒥ ᑐᓂᓯᓚᐅᕐᑐᑦ ᖃᐅᔨᓴᕐᑎᒻᒪᕆᑦ ᖃᐅᔨᒪᓂᖏᓐᓂᒃ ᐱᓪᓗᒋᑦ ᐊᖑᓇᓱᒃᑕᐅᒍᓐᓇᕐᑐᑦ ᖃᓄᐃᓪᓗᐊᕐᓂᖏᑦ ᐃᓱᒪᒋᔭᐅᒍᓐᓇᕐᑐᑦ ᐃᑲᔪᕈᑕᐅᓗᑎᒃ ᒪᑐᐃᒃᑲᓂᕐᓂᖓᓄᑦ ᑮᓇᐅᔭᕐᓴᕈᑎᒋᓗᒋᑦ ᐃᖃᓗᒃᐱᓐᓂᐊᕐᓃᑦ ᑲᖏᕐᑐᕈᓗᒃᒥ.

ᐃᒪᕐᒥᐅᑕᓕᕆᔨᑦ ᑐᓂᓯᓯᒪᓕᕐᑐᑦ ᖃᐅᔨᓴᕐᑎᒻᒪᕆᑦ ᖃᐅᔨᒪᓂᖏᓐᓂᒃ ᑲᑎᒪᔨᓄᑦ ᒪᒡᔫᓕᖓᓪᓗᒋᑦ ᖃᑦᓯᐅᓂᖏᑦ ᐊᖑᓇᓱᒃᑕᐅᒍᓐᓇᕐᑐᑦ ᑕᓯᕐᒥ ᒪᓕᑦᑐᒍ ᖃᓄᐃᓪᓗᐊᕐᓂᖓ ᐅᓗᓇᐊᓇᕈᑎᖏᑕ ᑲᒪᔨᐅᖃᑦ ᖃᓄᐃᒋᓐᖏᑕᖏᑦ:

1. ᐃᒪᕐᒥᐅᑕᓕᕆᔨᑦ ᐊᑐᓕᕐᑯᔨᔪᑦ **ᐊᖑᓇᓱᒃᑕᐅᒍᓐᓇᕐᑐᓂᒃ ᐃᒫᑎᒋ 2000 ᑭᓗᒃᒍᕐᒪᔅ/ᐊᒃᕐᒍᒥ**, ᑖᒃᑯᐊ ᖃᐅᔨᓴᕐᑎᒻᒪᓇᖏᑕ ᐃᓱᒪᖓᒍᑦ, ᐊᓚᒃᑲᕈᑕᐅᓂᐊᕐᑐᑦ **ᐊᑉᐸᓱᒃᑐᒥᒃ ᐅᓗᓇᐊᓇᕐᓂᖓᓄᑦ** ᓱᕋᑦᑕᐅᓗᓂ ᐅᑎᕐᐲᒥᑎᑕᐅᓚᓱᐊᕐᓂᖏᑦ ᐊᒻᒪᓗ ᐱᓗᐊᑦᑕᐃᓕᓂᕐᒧᑦ ᖃᓄᐃᓕᕐᓂᖏᑦ ᐃᖃᓗᒃᐲᑦ.

2. ᐃᒪᕐᒥᐅᑕᓕᕆᔨᑦ ᐅᖃᐅᔭᔨᕗᑦ ᐃᒫᒃ **ᐊᑯᕐᖓᓃᑦᑐᖅ ᐊᒻᒪᓗ ᕐᑯᒡᒋᓱᒃᑐᒥᒃ ᐅᓗᓇᐊᓇᕐᓂᖓ** ᓱᕋᑦᑕᐅᓗᓂ ᐅᑎᕐᐲᒥᑎᑕᐅᓚᓱᐊᕐᓂᖏᑦ ᐊᒻᒪᓗ ᐱᓗᐊᑦᑕᐃᓕᓂᕐᒧᑦ ᖃᓄᐃᓕᕐᓂᖏᑦ ᐱᑕᖃᕐᑐᑦ ᐱᑕᖃᓕᕋᔭᕐᒪᑕ ᑲᑎᒪᔨᑦ ᓂᕈᐊᕐᐸᑕ ᒪᑐᐃᕐᓯᓂᕐᒥᒃ ᑮᓇᐅᔭᕐᓴᕈᑎᒋᓗᒋᑦ ᐃᖃᓗᒃᐱᑦᑕᐅᒍᓐᓇᕐᑐᓂᒃ ᐃᒫᒃ **ᐊᖑᓇᓱᒃᑕᐅᒍᓐᓇᕐᑐᑦ 4500 ᑭᓗᒃᒍᕐᒪᔅ/ᐊᒃᕐᒍᒥ**; ᐊᔭᐅᖓ ᖃᓄᐃᓪᓗᐊᕐᓂᖏᑕ ᐊᖑᓇᓱᒃᑕᐅᒍᓐᓇᕐᑐᑦ ᐃᖃᓗᒃᐲᑦ ᐋᕿᑦᑕᓚᐅᕐᑐᑦ ᓯᕗᕐᖓᒍᑦ ᓄᖃᖓᑎᑕᐅᓂᖓᑕ ᐆᒪᔪᓕᕆᔨᕐᔪᐊᓄᑦ ᑕᐃᑲᓂ 2000.

ᐆᒪᔪᓕᕆᔨᕐᔪᐊᑦ ᓱᓕ ᐋᕿᓱᒪᓐᖏᑦᑐᑦ ᐊᖑᓇᓱᒃᑕᐅᒍᓐᓇᕐᑐᓂᒃ ᐱᓪᓗᒋᑦ ᐃᖃᓗᒃᐲᑦ ᑲᖏᕐᑐᕈᓗᒃᒥ. ᓯᕗᓪᓖᑦ ᑮᓇᐅᔭᕐᓴᕈᑎᒋᓗᒋᑦ ᐱᔭᕐᓴᑦ ᐃᒫᑎᒋ 4500 ᑭᓗᒃᒍᕐᒪᔅ/ᐊᒃᕐᒍᒥ ᑕᐃᑲᓐᖓᑦ ᑕᓯᕐᒥᒃ ᐊᑐᓚᐅᕐᑐᖅ ᓯᕗᓂᕐᓯᐊᖓᒍᑦ ᐅᓪᓗᖓᑦ ᐊᑎᓕᐅᕐᑕᐅᓂᖏᑕ ᓄᓇᕐᑯᑎᑖᕈᑏᑦ ᐊᒻᒪᓗ ᐲᕐᑕᐅᓪᓗᑎᒃ ᑲᑎᒪᔨᓄᑦ ᑕᐃᑲᓂ 2000.

ᑕᐃᒪᓕ ᑲᑎᑦᑐᒋᑦ ᐊᔪᓐᖏᑦᑕᑦ ᐊᖑᔭᐅᓂᕐᒥᒃ ᖃᐅᔨᔭᐅᑉᐸᑕ ᐆᒪᔪᓕᕆᔨᕐᔪᐊᑯᓐᓄᑦ ᒪᓕᑦᑐᒋᑦ ᐃᓚᖏᑦ 5.6.16 ᐊᒻᒪᓗ 5.6.17 ᓄᓇᕐᑯᑎᑖᕈᑏᑦ, ᑲᑎᒪᔨᑦ ᐋᕿᒐᔭᕐᐳᑦ ᐊᓐᓇᐅᒪᔭᔪᑕᐅᒋᐊᓕᓐᓂᒃ ᒪᓕᓪᓗᒍ ᐃᓚᖓ 6 ᐅᑯᐊ ᑎᑎᕋᕐᓯᒪᓂᖓ 5 ᓄᓇᕐᑯᑎᑖᕈᑏᑦ (ᓄᓇᕐᑯᑎᑖᕈᑏᑦ ᐃᓚᖓ 5.6.19).

ᐊᓐᓇᐅᒪᔭᔪᑕᐅᒋᐊᓖᑦ ᐱᑕᖃᕈᑕᐅᓂᐊᕐᐳᑦ ᓯᕗᓪᓕᕐᐹᖑᓗᑦ ᐊᑐᕆᐊᓖᑦ ᐊᖑᓇᓱᒃᑕᐅᒍᓐᓇᕐᑐᓂᒃ. ᑕᐃᒪᓕ ᐊᖑᓇᓱᒃᑕᐅᒍᓐᓇᕐᑐᑦ ᐊᔾᔨᒋᐸᒋᑦ ᐅᑉᐹᓐᓂᕐᐳᑦ ᐃᓄᐃᓴᓐᓂᕐᓴᐅᐸᑕ ᐊᓐᓇᐅᒪᔭᔪᑕᐅᒋᐊᓕᓐᓂᒃ, ᐃᓄᐃᑦ ᐊᔪᓐᖏᒍᑎᖃᕐᓂᐊᕐᐳᑦ ᐃᓅᓐᓇᖏᓐᓂᒃ ᐊᖑᓇᓱᒃᑕᐅᒍᓐᓇᕐᑐᓂᒃ (ᓄᓇᕐᑯᑎᑖᕈᑏᑦ ᐃᓚᖓ 5.6.20).

ᑕᐃᒪᓕ ᑲᑎᑦᑐᒋᑦ ᐊᔪᓐᖏᑦᑕᑦ ᐊᖑᔭᐅᓂᕐᒥᒃ ᐋᕿᑦᑕᐅᐸᑕ ᐱᓪᓗᒋᑦ ᐊᑕᐅᓯᕐᓃᖓᕐᑐᑦ ᐅᑉᐹᓐᓂᕐᓃᑦ ᐱᑕᖃᕐᑐᑦ ᐊᑐᕆᐊᖃᕈᑕᐅᓐᓂᖏᑦᑐᑦ ᑲᑎᑦᑐᒋᑦ ᐊᔪᓐᖏᑦᑕᑦ ᐊᖑᔭᐅᓂᕐᒥᒃ (ᒪᑯᐊ ᑲᖏᕐᑐᕈᓗᒃᒥ ᐃᖃᓗᒃᐲᑦ), ᐆᒪᔪᓕᕆᔨᕐᔪᐊᑦ ᖃᐅᔨᒐᓱᐊᕐᓂᐊᕐᐳᑦ ᐊᓐᓇᐅᒪᔭᔪᑕᐅᒋᐊᓕᓐᓂᒃ **ᒪᒃᑑᓕᖓᔪᒥᒃ ᑲᒪᒍᓯᖃᕐᓗᑎᒃ** ᕐᑯᒃᑯᓯᓐᓂᕐᓴᐅᔪᒥᒃ (ᓄᓇᕐᑯᑎᑖᕈᑏᑦ ᐃᓚᖓ 5.6.23):

a. ᖃᑦᓯᐅᓂᖏᑦ ᐊᑦᑕᕕᖃᕐᓗᑎᒃ ᓈᓴᐅᑎᓂᒃ ᐱᑕᖃᓇᐊᓐᖓᓚᐅᕐᑐᒥᒃ ᑕᓪᓕᒪᓂᒃ ᐊᒃᑖᒍᓂᒃ ᐆᒪᔪᓕᕆᔨᕐᔪᐊᑦ ᐊᖑᔭᓂᒃ ᖃᐅᔨᓴᕐᓂᖏᓐᓂ, ᖃᐅᔨᓴᓱᐊᕐᑕᑦ ᒪᓕᑦᑐᒋᑦ ᑲᒪᒍᓯᐅᔪᑦ ᓇᓗᓇᐃᔭᕐᑕᑦ ᐅᑯᓂ ᐃᓚᕈᓯᖓ 5.6.21 (a) ᓄᓇᕐᑯᑎᑖᕈᑏᑦ, ᐅᑉᐹᓐᓂᕐᓃᑦ, ᐅᑯᐊ ᐊᖑᓇᓱᒃᑏᑦ ᐊᒻᒪᓗ ᒥᑭᒋᐊᕐᓂᐊᕐᑏᑦ ᑎᒥᕐᑯᑎᖏᑦ (ᐊᖑᓇᓱᒃᑐᓕᕆᔨᕐᑕ) ᓯᕗᕐᖓᒍᑦ ᓂᕈᐊᕐᑕᒥᓂᖓᓂᒃ ᑲᒪᒍᓯᐅᔪᒥᒃ ᓇᓗᓇᐃᔭᕐᑕᒥᒃ ᐅᑯᓂ ᐃᓚᕈᓯᖓ 5.6.21(b), ᐊᖑᔭᐅᑯᑦᑐᑦ ᖃᓄᐃᓪᓗᐊᕐᓂᖏᑦ ᐊᑕᐅᓯᕐᓃᖓᕐᑐᓂᒃ ᐅᑉᐹᓐᓂᕐᓃᑦ ᐱᑕᖃᕐᑐᓂᒃ ᓇᓗᓇᐃᕐᑕᐅᔪᒥ ᐊᒻᒪᓗ; ᐅᑉᐹᓐᓂᕐᓃᑦ

b. ᑲᑎᑕᐅᓯᒪᔪᑦ ᐊᒥᓲᓂᕐᐹᑦ ᐊᖑᔭᐅᓯᒪᓂᑯᑦ ᓇᓪᓕᐊᓐᓂᑐᐃᓐᓇᖅ ᐊᑕᐅᓯᕐᒥ ᐊᒃᑖᒍᒥ ᑕᒫᓂ ᑕᓪᓕᒪᓂ ᐊᒃᑖᒍᓂ ᓯᕗᕐᖓᒍᑦ ᐊᑐᓕᕐᑎᑕᐅᓂᖏᑕ ᐊᖑᓇᓱᒃᑕᐅᒍᓐᓇᕐᑐᑦ ᐊᒻᒪᓗ ᐊᔾᔨᒌᓕᕐᑎᓯᒪᓗᑎᒃ ᐊᒃᑖᒍᒥ ᖃᓄᐃᓪᓗᐊᕐᓂᖏᑦ ᑕᒫᓂ ᑕᓪᓕᒪᓂ ᐊᒃᑖᒍᓂ ᐆᒪᔪᓕᕆᔨᕐᔪᐊᑦ ᐊᖑᔭᓂᒃ ᖃᐅᔨᓴᕐᑎᓪᓗᒋᑦ, ᑖᓐᓇ ᑲᑎᑕᐅᓯᒪᔪᑦ ᑕᐃᒪ ᒪᒃᑑᓕᔭᐅᓕᕐᓗᓂ.

ᐸᓐᓂᕐᑑᖅᒥ ᐊᖑᓇᓱᒃᑐᓕᕆᔨᑦ ᑕᐃᓯᓚᐅᓐᖏᑦᑐᑦ ᓇᓗᓇᐃᕐᑕᒥᒃ ᐊᒃᑖᒍᒥᒃ ᑕᒫᓂ ᐆᒪᔪᓕᕆᔨᕐᔪᐊᑦ ᐊᖑᔭᓂᒃ ᖃᐅᔨᓴᕐᑎᓪᓗᒋᑦ ᐊᑐᕐᑕᐅᕐᑯᔭᒥᓐᓂᒃ ᖃᐅᔨᓴᓱᐊᕐᓗᒋᑦ ᐊᓐᓇᐅᒪᔭᔪᑕᐅᒋᐊᓖᑦ. ᑕᐃᒪ ᑲᒪᒍᓯᐅᔪᖅ ᓇᓗᓇᐃᕐᑕᖅ ᐅᑯᓂ ᐃᓚᖓ 5.6.21(a) ᓄᓇᕐᑯᑎᑖᕈᑏᑦ ᐊᑐᕐᑕᐅᒋᐊᖃᕐᐳᖅ ᐋᕿᓗᓂ ᓯᕗᓪᓕᕐᒥᒃ, ᒪᒃᑑᓕᖓᔪᒥᒃ ᖃᐅᔨᓴᓱᐊᕐᓗᓂ ᐊᓐᓇᐅᒪᔭᔪᑕᐅᒋᐊᓕᓐᓂᒃ:

**ᓇᓪᓕᒃᑭᑖᓂ 1 ᐊᓐᓇᐅᒪᔭᔪᑕᐅᒋᐊᓕᓐᓂᒃ ᖃᐅᔨᓴᓱᐊᕐᓂᖅ (ᓄᓇᕐᑯᑎᑖᕈᑏᑦ 5.6.21(a))**

ᑲᑦᓯᒪᔪᑦ ᐊᒥᓲᓂᕐᐹᑦ ᐊᖑᔭᐅᓂᑯᑦ ᐊᑕᐅᓯᕐᒥ ᐊᒃᑖᒍᒥ ᑕᒫᓂ ᐆᒪᔪᓕᕆᔨᕐᔪᐊᑦ ᐊᖑᔭᓂᒃ ᖃᐅᔨᓴᕐᓂᖏᓐᓂ, ᐊᒻᒪᓗ ᐊᔾᔨᒌᓕᕐᑎᓯᒪᔪᑦ ᐊᒃᑖᒍᒥ ᖃᓄᐃᓪᓗᐊᕐᓂᖏᑦ ᐊᖑᔭᐅᓂᑯᑦ ᑕᓪᓕᒪᓂ ᐊᒃᑖᒍᓂ ᖃᐅᔨᓴᕐᓂᕐᒥ, ᑖᒃᑯᐊ ᑲᑎᓯᒪᔭᑦ ᒪᒃᑑᓕᔭᐅᓕᕐᑐᑎᒃ:

$$ᐊᓐᓇᐅᒪᔭᔪᑕᐅᒋᐊᓖᑦ = \frac{ᐊᒥᓲᓂᕐᐹᑦ\ ᐊᖑᔭᐅᓂᑯᑦ\ ᐊᒃᑖᒍᒥ\ ᐊᖑᔭᓂᒃ\ ᖃᐅᔨᓴᕐᑎᓪᓗᒋᑦ + ᐊᔾᔨᒌᓕᕐᑎᓯᒪᔪᑦ\ ᖃᕐᓯᐅᓂᖏᑦ\ ᐊᖑᔭᑦ\ ᖃᐅᔨᓴᕐᓂᕐᒥ}{2}$$

ᐊᒥᓲᓂᕐᐹᑦ ᖃᑦᓯᐅᓂᖏᑦ ᐃᖃᓗᒃᐱᑦᑕᑦ ᐊᒃᑖᒍᒥ ᑎᑎᕋᕐᑕᐅᒪᔪᑦ ᑕᐃᑲᓂ ᐆᒪᔪᓕᕆᔨᕐᔪᐊᑦ ᐊᖑᔭᓂᒃ ᖃᐅᔨᓴᕐᑎᓪᓗᒋᑦ ᑲᖏᕐᑐᕈᓗᒃᒥ ᐃᒪᐃᓪᓗᐊᕐᐳᑦ 12,925.0 ᑭᓗᒃᒍᕐᓴ (ᓇᓗᓇᐃᔭᐅᑦ 1, ᐊᒃᑖᒍᒥ 1998).

ᐊᔾᔨᒌᓕᕐᑎᓯᒪᔪᑦ ᖃᓄᐃᓪᓗᐊᕐᓂᖏᑦ ᐃᖃᓗᒃᐱᑦᑕᑦ ᑕᒫᓂ ᑕᓪᓕᒪᓂ-ᐊᒃᑖᒍᓂ ᐆᒪᔪᓕᕆᔨᕐᔪᐊᑦ ᐊᖑᔭᓂᒃ ᖃᐅᔨᓴᕐᓂᖏᓐᓂ ᑲᖏᕐᑐᕈᓗᒃᒥ ᐃᒪᐃᓪᓗᐊᕐᐳᑦ 6,042.5 ᑭᓗᒃᒍᕐᓴ (ᓇᓗᓇᐃᔭᐅᑦ 1).

ᑕᐃᒪ,

$$ᐊᓐᓇᐅᒪᔭᔪᑕᐅᒋᐊᓖᑦ = \frac{12{,}925.0\ ᑭᓗᒃᒍᕐᓴ + 6{,}042.5\ ᑭᓗᒃᒍᕐᓴ}{2}$$

$$ᐊᓐᓇᐅᒪᔭᔪᑕᐅᒋᐊᓖᑦ = 9{,}483.75\ ᑭᓗᒃᒍᕐᓴ$$

## ᓇᓪᓕᒃᑭᑖᓂ 2 ᐊᓐᓇᐅᒪᔾᔪᑕᐅᒋᐊᓖᑦ ᖃᐅᔨᔭᐅᒐᓱᐊᕐᑐᑦ (ᓄᓇᕐᑯᑎᑖᕈᑏᑦ ᐃᓚᖓ 5.6.23(C))

ᑲᑦᓯᒪᔪᑦ ᐊᒥᓲᓂᕐᔪᑦ ᐊᖑᔭᐅᓂᑯᑦ ᓇᓪᓕᐊᓐᓂᑐᐃᓐᓇᖅ ᐊᑕᐅᓯᕐᒥ ᐊᒃᑲᒍᒥ ᑕᒪᓂ ᓯᕗᕐᖓᒍᑦ ᐊᑐᓕᕐᑎᑕᐅᓂᖏᑕ ᐊᖑᓇᓱᒃᑕᐅᒍᓐᓇᕐᑐᑦ ᐊᒻᒪᓗ ᐊᔾᔨᒌᓕᕐᑎᓯᒪᔪᑦ ᐊᒃᑲᒍᒥ ᖃᓄᐃᓪᓗᐊᕐᓂᖏᑦ ᐱᔭᐅᕙᑦᑐᑦ ᑕᓪᓕᒪᓂ ᐊᒃᑲᒍᓂ ᐆᒪᔪᓕᕆᔨᕐᔪᐊᑦ ᐊᖑᔭᓂᒃ ᖃᐅᔨᓴᕐᓂᖏᓐᓂ, ᑖᒃᑯᐊ ᑲᑎᓯᒪᔭᑦ ᒪᒃᑐᓕᔭᐅᓕᕐᑐᑎᒃ:

$$\text{ᐊᓐᓇᐅᒪᔾᔪᑕᐅᒋᐊᓖᑦ} = \frac{\text{ᐊᒥᓲᓂᕐᔪᑦ ᐊᒃᑲᒍᒥ ᐊᖑᔭᐅᓂᑯᑦ ᖃᖏᑦᑐᓂ 5 ᐊᒃᑲᒍᓂ + ᐊᔾᔨᒌᓕᕐᑎᓯᒪᔪᑦ ᖃᓯᐅᓂᖏᑦ ᐊᖑᔭᑦ ᖃᐅᔨᓴᕐᓂᕐᒥ}}{2}$$

ᐋᕿᑦᓱᐃᓪᓗᓂ ᖃᐅᔨᒐᓱᐊᕈᑎᓂᒃ ᐊᑖᒍᑦ ᐃᓚᕈᓯᖓ 5.6.23 (b), ᐆᒪᔪᓕᕆᔨᕐᔪᐊᑦ ᐊᑐᕐᓂᐊᕐᐳᑦ ᓈᒻᒪᓂᕐᐹᓂᒃ ᓇᓗᓇᓐᖏᒍᑎᓂᒃ ᐊᑐᐃᓐᓇᕐᓂᒃ ᖃᓄᐃᓪᓗᐊᕐᓂᖏᓐᓂᒃ ᐊᖑᔭᐅᓂᑯᑦ ᐃᓄᓐᓄᑦ ᑕᓪᓕᒪᓂ ᐊᒃᑲᒍᓂ ᓯᕗᕐᖓᒍᑦ ᐋᕿᑦᑕᐅᓂᖏᑕ ᐊᖑᓇᓱᒃᑕᐅᒍᓐᓇᕐᑐᑦ (5.6.24).

ᓈᒻᒪᓂᕐᐹᑦ ᓇᓗᓇᓐᖏᒍᑎᑖᑦ ᐊᑐᐃᓐᓇᑦ ᑕᒫᓂ ᖄᖏᕐᑐᓂ ᑕᓪᓕᒪᓂ ᐊᒃᑲᒍᓂ ᐃᖃᓗᒃᐱᑦᑕᐅᕙᑦᑐᓂᒃ ᑲᖏᕐᑐᕈᓗᒃᒥ ᐱᑕᖃᕐᑎᑕᐅᕗᑦ ᐃᒪᕐᒥᐅᑕᓕᕆᔨᓂ ᑮᓇᐅᔾᔭᑦᓴᕈᑎᒋᓪᓗᒋᑦ ᐱᔭᐅᕙᑦᑐᑦ ᑎᑎᕋᕐᓯᒪᔭᖏᓐᓂᒃ (ᓇᓗᓇᐃᔭᐅᑦ 2). ᐱᑕᖃᓐᖏᑦᑐᖅ ᑎᑎᕋᕐᑕᐅᒪᓂᖏᓐᓂᒃ ᓂᕿᑦᓴᕆᓗᒋᑦ ᐊᖑᔭᐅᔪᓂᒃ ᐊᑐᐃᓐᓇᕐᓂᒃ ᑕᒫᓂ ᓇᓪᓕᐅᓯᒪᔪᒥ ᐊᑐᕐᑕᐅᒍᓐᓇᕐᑐᓂᒃ ᖃᐅᔨᓴᓯᐊᕐᓗᓂ. ᑕᐃᒪᐃᓐᓂᖓᓄᑦ, ᑖᓐᓇ ᖃᐅᔨᓴᓯᐊᕈᑦ ᐃᒪᐃᓐᓂᐊᕐᑐᑦᓴᐅᕗᖅ ᐃᓄᕐᓯᒍᑕᐅᓗᓂ ᓱᓕᔪᓂᒃ ᐊᓐᓇᐅᒪᔾᔪᑕᐅᒋᐊᓖᑦ ᖃᓄᐃᓪᓗᐊᕐᓂᖏᓐᓂᒃ ᐃᓄᓐᓄᑦ.

ᐊᒥᓲᓂᕐᐹᑦ ᐊᒃᑲᒍᒥ ᑎᑎᕋᕐᑕᐅᒪᔪᑦ ᐊᖑᔭᐅᓂᑯᑦ ᐃᖃᓗᒃᐲᑦ ᑲᖏᕐᑐᕈᓗᒃᒥᒃ ᖄᖏᕐᑐᓂ ᑕᓪᓕᒪᓂ ᐊᒃᑲᒍᓂ ᐃᒪᐃᓪᓗᐊᕐᐳᑦ 2,094.5 ᑭᓗᒃᒍᕐᒪᕐᓴ (ᓇᓗᓇᐃᔭᐅᑦ 2, ᐊᒃᑲᒍᒥ 2005).

ᑕᐃᒪ,

$$\text{ᐊᓐᓇᐅᒪᔾᔪᑕᐅᒋᐊᓖᑦ} = \frac{2{,}094.5\ \text{ᑭᓗᒃᕈᕐᒪᕐᓴ} + 6{,}042.5\ \text{ᑭᓗᒃᒍᕐᒪᕐᓴ}}{2}$$

$$\text{ᐊᓐᓇᐅᒪᔾᔪᑕᐅᒋᐊᓖᑦ} = 4{,}068.5\ \text{ᑭᓗᒃᒍᕐᒪᕐᓴ}$$

ᐊᒥᓲᓂᕐᓴᐃᑦ ᖃᐅᔨᔭᑦ ᒪᒃᑐᓕᖓᔪᒥᒃ ᐊᓐᓇᐅᒪᔾᔪᑕᐅᒋᐊᓖᑦ ᖃᐅᔨᓴᓯᐊᕐᑐᒋᑦ ᑕᐃᒪᐃᓕᖓᒻᒪᑦ ᐃᓚᖓ 5.6.23 ᓄᓇᕐᑯᑎᑖᕈᑏᑦ ᐅᓇ **9,483.75 ᑭᓗᒃᒍᕐᒪᕐᓴ**. ᑖᓐᓇ ᖃᐅᔨᓴᓯᐊᕈᑦ ᐊᓐᓇᐅᒪᔾᔪᑕᐅᒋᐊᓕᓐᓂᒃ ᐃᖃᓗᒃᐱᓐᓂᒃ ᑲᖏᕐᑐᕈᓗᒃᒥᒃ.

**ᐃᓚᐅᑎᑕᐅᓂᖏᑦ ᑮᓇᐅᔾᔭᑦᓴᕈᑎᒋᓪᓗᒋᑦ ᐱᔭᐅᓂᑯᑦ ᓈᒻᓴᐃᒍᑏᑦ ᐊᓐᓇᐅᒪᔾᔪᑕᐅᒋᐊᓕᓐᓂᒃ ᖃᐅᔨᓴᓯᐊᕐᓗᓂ**

ᖃᐅᔨᒪᓂᕐᑎᒍᑦ, ᐆᒪᔪᓕᕆᔨᕐᔪᐊᑦ ᐊᖑᔭᓂᒃ ᖃᐅᔨᓴᕐᓂᖏᑦ ᑎᑎᕋᕐᓂᐅᓚᐅᓐᖏᒻᒪᑕ ᑮᓇᐅᔾᔭᑦᓴᕈᑎᒋᓪᓗᒋᑦ ᐊᖑᔭᓂᒃ ᑖᕐᓂ ᑕᓪᓕᒪᓂ ᐊᒃᑲᒍᓂ ᑲᒪᒋᔭᖃᕐᑐᑎᒃ. ᐃᒪᐃᒍᓐᓇᖏᓚᒍᑦ, ᓇᓗᓇᓐᖏᑦᑐᒥᒃ, ᐅᖃᐅᓯᓇᓐᖏᓪᓗᒍ ᐱᑕᖃᑐᐃᓐᓇᓇᐊᓕᒥᓂᖅ ᑮᓇᐅᔾᔭᑦᓴᕈᑎᒋᓪᓗᒋᑦ ᐊᖑᔭᐅᓂᖏᓐᓂᒃ ᐃᖃᓗᒃᐲᑦ ᐸᓐᓂᕐᑑᑉ ᒥᑦᓴᓂ ᐱᔾᖅᑯᑕᐅᓐᖏᑦᑐᒥᒃ ᑎᑎᕋᕐᑕᐅᓐᓂᓇᐊᖏᑦ ᓂᕿᑦᓴᐅᓂᕋᕐᑕᐅᓪᓗᑎᒃ ᐊᖑᔭᓂᒃ ᖃᐅᔨᓴᕐᑎᓪᓗᒋᑦ. ᑭᓯᐊᓂ, ᐃᒻᒥᒃᑰᖓᔪᑦ ᑮᓇᐅᔾᔭᑦᓴᕈᑎᒋᓪᓗᒋᑦ ᐊᖑᔭᓄᑦ ᑎᑎᕋᕐᓯᒪᔭᑦ ᑖᕐᓂ ᐊᒻᒪᓗ ᑖᕐᓂ ᓇᓪᓕᐅᓯᒪᔪᒥ ᐊᑐᐃᓐᓇᐅᕗᑦ ᐃᒪᕐᒥᐅᑕᓕᕆᔨᓂᒃ (ᓇᓗᓇᐃᔭᐅᑦ 3).

ᑖᒃᑯᐊ ᑮᓇᐅᔾᔭᑦᒍᑎᓄᑦ ᓈᒻᓴᐃᒍᑏᑦ ᐊᓚᒃᑲᓗᐊᕐᓯᒪᔪᑦ ᐃᖃᓗᓐᓂᒃ ᓄᓈᕐᑕᓂᒃ ᐸᓐᓂᕐᑑᖅᒥ ᐃᖃᓗᓕᕆᔩᕕᒃᒧᑦ. ᐃᖃᓗᓕᕆᔩᕕᒃ ᐊᖏᑐᐃᓐᓇᕈᓐᓇᕐᒪᑕ ᓄᓈᕐᑕᐅᔪᓂᒃ ᐃᖃᓗᓐᓂᒃ ᑲᒪᒋᒍᓐᓇᕐᑕᒥᓐᓂᒃ ᐊᒻᒪᓗ ᓂᐅᔾᔭᑎᒋᓗᒋᑦ. ᐃᓛᓐᓂᒃᑯᑦ, ᐊᒥᓲᓂᕐᓴᐃᑦ ᐃᖃᓗᐃᑦ ᑮᓇᐅᔾᔭᑦᓴᕈᑕᐅᓪᓗᑎᒃ ᐱᔭᐅᕙᑦᑐᑦ ᐸᓐᓂᕐᑑᖅᒥ ᑐᓂᔭᐅᒍᓐᓇᕐᑐᓂᒃ ᐃᖃᓗᓕᕆᔩᕕᒃᒧᑦ. ᑕᐃᒪᐃᓐᓂᖓᓄᑦ, ᐃᓚᐅᑎᑕᐅᓚᓗᐊᕐᐸᑕ ᐃᒪᕐᒥᐅᑕᓕᕆᔨᑦ ᑮᓇᐅᔾᔭᑦᓴᕈᑎᒋᓪᓗᒋᑦ ᐱᔭᐅᔪᓂᒃ ᓈᒻᓴᐃᒍᑎᖏᑦ ᐃᓄᕐᓯᑐᐃᓐᓇᓇᐊᓖᑦ ᓱᓕᔪᒥᒃ ᖃᑦᓯᐅᓂᖏᓐᓂᒃ ᑮᓇᐅᔾᔭᑦᓴᕈᑎᒋᓪᓗᒋᑦ ᐱᔭᐅᔪᑦ ᐃᖃᓗᒃᐲᑦ ᑲᖏᕐᑐᕈᓗᒃᒥᒃ.

ᑕᐃᒪ ᐃᓚᒋᓕᐅᑎᒍᑦᑎᒍ ᐃᒪᕐᒥᐅᑕᓕᕆᔨᑦ ᑎᑎᖃᕐᑯᑎᖏᑦ ᑮᓇᐅᔾᔭᑦᓴᕈᑎᒋᓪᓗᒋᑦ ᐊᖑᔭᐅᓂᑯᑦ ᐅᑯᓄᖓ ᐆᒪᔪᓕᕆᔨᕐᔪᐊᑦ ᐊᖑᔭᓂᒃ ᖃᐅᔨᓴᕈᑎᒥᓂᖏᑦ ᑎᑎᖃᑦ ᐊᖑᔭᐅᒪᔪᓂᒃ ᑕᐃᒪ:

ᐊᓐᓇᐅᒪᔾᔪᑕᐅᒋᐊᓖᑦ = $\frac{\text{ᐊᒥᓲᓂᕐᐸᑦ ᐊᖑᔭᐅᓂᑯᑦ ᐊᒡᕋᒍᒥ ᐊᖑᔭᓂᒃ ᖃᐅᔨᓴᕐᑎᓪᓗᒋᑦ + ᐊᔾᔨᒌᓕᕐᑎᓯᒪᔪᑦ ᖃᑦᓯᐅᓂᖏᑦ ᐊᖑᔭᑦ ᖃᐅᔨᓴᕐᓂᕐᒥ}}{2}$

ᐊᒥᓲᓂᕐᐸᑦ ᖃᑦᓯᐅᓂᖏᑦ ᐃᖃᓗᒃᐲᑦ ᐊᖑᔭᑦ ᐊᒡᕋᒍᒥ ᑎᑎᕋᕐᓯᒪᔭᑦ ᑲᑎᑦᑐᒋᑦ ᐆᒪᔪᓕᕆᔨᕐᔪᐊᑦ ᐊᖑᔭᓂᒃ ᖃᐅᔨᓴᕈᑎᖏᑦ ᐊᒡᒪᓗ ᐃᒪᕐᒥᐅᑕᓕᕆᔨᑦ ᑮᓇᐅᔾᔭᑦᓴᕈᑎᒋᓗᒋᑦ ᑎᑎᖃᕐᑯᑎᖏᑦ ᑲᖏᕐᑐᕈᓗᒃᒥᒃ ᐃᒪᐃᓪᓗᐊᕐᐳᑦ 16,111.0 ᑭᓗᒡᒍᕋᒡᔅ (ᓇᓗᓇᐃᔭᐅᑦ 3, ᐊᒡᕋᒍᒥ 1998).

ᐊᔾᔨᒌᓕᕐᑎᓯᒪᔪᑦ ᖃᓄᐃᓪᓗᐊᕐᓂᖏᑦ ᐃᖃᓗᒃᐲᑦ ᐊᖑᔭᐅᓂᑯᑦ ᐊᒡᕋᒍᒥ ᑎᑎᕋᑦᑕᐅᒪᔪᑦ ᑲᑎᑦᑐᒋᑦ ᐆᒪᔪᓕᕆᔨᕐᔪᐊᑦ ᐊᖑᔭᓂᒃ ᖃᐅᔨᓴᕈᑎᖏᑦ ᐊᒡᒪᓗ ᐃᒪᕐᒥᐅᑕᓕᕆᔨᑦ ᑭᓇᐅᔾᔭᑦᓴᕈᑎᒋᓗᒋᑦ ᑎᑎᖃᕐᑯᑎᖏᑦ ᑕᒫᓂ ᑕᓪᓕᒪᓂ-ᐊᒡᕋᒍᓂ ᐊᖑᔭᓂᒃ ᖃᐅᔨᓴᕐᓂᖅ ᓇᓪᓕᐅᓯᒪᑎᓪᓗᒍ ᑲᖏᕐᑐᕈᓗᒃᒥ ᐃᒪᐃᓪᓗᐊᕐᐳᑦ 8,149.10 ᑭᓗᒡᒍᕋᒡᔅ (ᓇᓗᓇᐃᔭᐅᑦ 3).

$$\text{ᐊᓐᓇᐅᒪᔾᔪᑕᐅᒋᐊᓖᑦ} = \frac{16{,}111.0 \text{ ᑭᓗᒡᕈᕋᒡᔅ} + 8{,}149.10 \text{ ᑭᓗᒡᒍᕋᒡᔅ}}{2}$$

$$\text{ᐊᓐᓇᐅᒪᔾᔪᑕᐅᒋᐊᓖᑦ} = 12{,}130.05 \text{ ᑭᓗᒡᒍᕋᒡᔅ}$$

**ᑐᓴᕐᕕᐅᓚᓱᐊᕐᑐᑦ:** ᐃᒪᕐᒥᐅᑕᓕᕆᔨᑦ ᐃᖃᓗᓐᓂ ᐊᒡᒪᓗ ᐅᐃᓂᐲᒃᒥ

**ᐊᑐᓕᕐᑯᔭᑦ:**

1. ᐃᓱᒪᓕᐅᕐᓗᓂ ᐃᒪᐃᒡᒪᖕᒑᑦ ᐃᖃᓗᒃᐲᑦ ᑭᓇᐅᔾᔭᑦᓴᕈᑎᒋᓗᒋᑦ ᐊᖑᔭᓄᑦ ᓈᓴᐅᑏᑦ ᓄᐊᑕᖏᑦ ᐃᒪᕐᒥᐅᑕᓕᕆᔨᑦ ᑲᖏᕐᑐᕈᓗᒃᒥ ᑖᕝᕙᓂᑦᓴᐃᓐᓇᖅ ᐆᒪᔪᓕᕆᔨᕐᔪᐊᑦ ᐊᖑᔭᓂᒃ ᖃᐅᔨᓴᕐᓂᖏᓐᓄᑦ ᓈᓴᐅᑏᑦ ᑎᑎᕋᕐᑕᑦ ᑕᒫᓂ ᐃᓚᐅᔪᑦᓴᐅᒃᒪᖕᒑᑕ ᐊᓐᓇᐅᒪᔾᔪᑕᐅᒋᐊᓖᑦ ᖃᐅᔨᓚᓱᐊᕐᓗᒋᑦ.

2. ᑕᐃᒪ ᑭᓇᐅᔾᔭᑦᓴᕈᑎᒋᓗᒋᑦ ᓈᓴᐃᒍᑏᑦ ᐃᓚᐅᓂᐊᕐᐸᑕ ᖃᐅᔨᓚᓱᐊᕈᑎᓂ, ᐃᒪᐃᕐᑰᔨᕗᖅ ᐊᓐᓇᐅᒪᔾᔪᑕᐅᒋᐊᓖᑦ ᐃᖃᓗᒃᐲᑦ ᑲᖏᕐᑐᕈᓗᒃᒥᒃ ᐃᒪᐃᓪᓗᐊᕐᓗᑎᒃ **12,130.05 ᑭᓗᒡᒍᕋᒡᔅ/ᐊᒡᕋᒍᒥ** (ᓱᒡᕋᓯᒪᑎᓐᓇᒋᑦ ᐅᕐᑯᒪᐃᓐᓂᖏᑦ) ᒪᓕᑦᑐᒍ ᐃᓚᖓ 5.6.19 ᓄᓇᕐᑯᑎᑖᕈᑏᑦ.

3. ᑕᐃᒪ ᑭᓇᐅᔾᔭᑦᓴᕈᑎᒋᓗᒋᑦ ᓈᓴᐃᒍᑏᑦ ᐃᓚᐅᖕᖏᑉᐸᑕ ᖃᐅᔨᓚᓱᐊᕈᑎᓂ, ᐃᒪᐃᕐᑰᔨᕗᖅ ᐊᓐᓇᐅᒪᔾᔪᑕᐅᒋᐊᓖᑦ ᐃᖃᓗᒃᐲᑦ ᑲᖏᕐᑐᕈᓗᒃᒥᒃ ᐃᒪᐃᓪᓗᐊᕐᓗᑎᒃ **9,483.75 ᑭᓗᒡᒍᕋᒡᔅ/ᐊᒡᕋᒍᒥ** (ᓱᒡᕋᓯᒪᑎᓐᓇᒋᑦ ᐅᕐᑯᒪᐃᓐᓂᖏᑦ) ᒪᓕᑦᑐᒍ ᐃᓚᖓ 5.6.19 ᓄᓇᕐᑯᑎᑖᕈᑏᑦ.

**ᑎᑎᕋᕐᑕᖏᑦ ᐆᒪ:**
ᔪᒡ ᔭᔅᑕᔅ
ᑐᑭᒧᐊᕐᑎᑦᓯᔨ ᐆᒪᔪᕐᓂᒃ ᐊᐅᓚᑦᓯᔨᓂ

**ᐅᓪᓗᖓ:** ᓇᒡᒐᔭᐅ, ᔪᓚᐃ 21, 2008

**ᓇᓗᓇᐃᔭᐅᑦ 1.** ᐊᖑᔭᓂᒃ ᓈᓴᐃᒍᑏᑦ ᓄᓇᕐᑕᐅᔪᓂᒃ ᐃᖃᓗᒃᐱᓐᓂᒃ ᑕᓯᕐᒥᒃ ᑕᐃᔭᒥᒃ ᑲᖏᕐᑐᕈᓗᒃ (66º 23'N 64º 19'W) ᑲᖏᕐᑐᕈᓗᒃᒥ ᓄᓇᕗᕐᒥ ᑎᑎᕋᕐᑕᐅᔪᑦ ᑖᕙᓂ ᑕᓪᓕᒪᓂ ᐊᒃᕋᒍᓂ (1997-2001) ᓄᓇᕗᕐᒥ ᐆᒪᔪᕐᓂᒃ ᐊᖑᔭᓂᒃ ᖃᐅᔨᓴᕐᓂᒥ ᑲᒪᒋᔭᖓᓐᓂ ᐆᒪᔪᓕᓇᔨᕐᔪᐊᑦ. ᓂᕿᑦᓴᓇᓗᒋᑦ ᐊᖑᔭᑦ ᑎᑎᕋᕐᑕᐅᑐᐃᓐᓇᓚᐅᕐᓯᒪᒻᒪᑕ ᑖᕙᓂ ᐊᖑᔭᓂᒃ ᖃᐅᔨᓴᕐᓂᕐᒥ. ᑮᓇᐅᔭᔭᓴᕈᑎᒋᓗᒋᑦ ᐃᖃᓗᒃᓴᓴᑦ ᐃᒫᑎᒋ 4500 ᑭᓗᒍᕐᓴᕐ/ᐊᒃᕋᒍᒥ ᑲᒪᒋᔭᐅᓚᐅᕐᑐᑦ ᑕᐃᑲᓂ ᑕᓯᕐᒥ ᑖᕙᓂᑦᓴᐃᓐᓇᖅ. ᑖᒃᑯᐊ ᑐᑭᓯᒍᑏᑦ ᐃᓚᐅᓐᖏᑦᑐᑦ ᐅᕙᓂ ᓇᓗᓇᐃᔭᐃᑎᓂ. ᐊᖑᔭᓂᒃ ᖃᐅᔨᓴᕐᓂᖅ ᑎᑎᕋᕐᑕᐅᓚᐅᕐᑐᖅ ᖃᕐᓯᐅᓂᖏᓐᓂᒃ ᐃᖃᓗᒃᐲᑦ ᐅᖃᐅᑕᐅᔪᑦ ᐱᔭᐅᒋᐊᖏᑕ ᑲᖏᕐᑐᕈᓗᒃᒥᒃ ᑕᒫᓂ ᑕᓪᓕᒪᓂ ᐊᒃᕋᒍᓂ ᓇᓪᓕᐅᓯᒪᔪᒥ. ᐅᕐᑯᒪᐃᓐᓂᖏᑦ ᑎᑎᕋᕐᑕᑦ ᐱᔭᑦ ᒥᒃᓴᐅᓴᒃᑕᐅᒪᔪᑦ ᐊᒥᓱᕈᓇᐊᕐᑐᒋᑦ ᖃᕐᓯᐅᓂᖏᑦ ᐃᖃᓗᐃᑦ ᓄᓇᕐᑕᑦ ᐃᒫᑎᒋ 2.5, ᑖᒃᑯᐊ ᐃᒪᕐᒥᐅᑕᓕᓇᕗᑦ ᖃᐅᔨᒋᐊᕐᓯᒪᔭᖏᑦ ᐊᔾᔨᒌᓕᕐᑎᕈᑏᑦ ᓱᒃᕋᓯᒪᓐᖏᑦᑐᑦ (ᑭᓗᒍᕐᓴᕐ) ᐃᖃᓗᒃᐲᑦ ᑕᒫᓐᖓᑦ.

| ᐆᒪᔪᓕᓇᔨᕐᔪᐊᑦ ᐊᖑᔭᓂᒃ ᖃᐅᔨᓴᕐᓂᖏᑦ ᐅᓪᓗᖓ | ᓄᓇᓕᒃ | ᐆᒪᔪᑦ | ᐊᖑᓇᓱᒃᐃᐅᑉ ᓇᒥᓐᓂᖓ | ᖃᕐᓯᐅᓂᖏᑦ ᐊᖑᔭᑦ | ᓱᒃᕋᓯᒪᓐᖏᑦᑐᑦ ᐅᕐᑯᒪᐃᓐᓂᖏᑦ (ᑭᓗᒍᕐᓴᕐ) |
|---|---|---|---|---|---|
| ᐊᒃᕋᒍ 1 (1997) | ᐸᓐᓂᕐᑑᖅ | ᐃᖃᓗᒃᐲᑦ ᑎᓱᔪᕐᑐᑦ | ᑲᖏᕐᑐᕈᓗᒃ | 905 | 2262.50 |
| ᐊᒃᕋᒍ 2 (1998) | ᐸᓐᓂᕐᑑᖅ | ᐃᖃᓗᒃᐲᑦ ᑎᓱᔪᕐᑐᑦ | ᑲᖏᕐᑐᕈᓗᒃ | 5170 | 12925.00 |
| ᐊᒃᕋᒍ 3 (1999) | ᐸᓐᓂᕐᑑᖅ | ᐃᖃᓗᒃᐲᑦ ᑎᓱᔪᕐᑐᑦ | ᑲᖏᕐᑐᕈᓗᒃ | 4115 | 10287.50 |
| ᐊᒃᕋᒍ 4 (2000) | ᐸᓐᓂᕐᑑᖅ | ᐃᖃᓗᒃᐲᑦ ᑎᓱᔪᕐᑐᑦ | ᑲᖏᕐᑐᕈᓗᒃ | 1525 | 3812.50 |
| ᐊᒃᕋᒍ 5 (2001) | ᐸᓐᓂᕐᑑᖅ | ᐃᖃᓗᒃᐲᑦ ᑎᓱᔪᕐᑐᑦ | ᑲᖏᕐᑐᕈᓗᒃ | 370 | 925.00 |
| | | | **5 ᐊᒃᕋᒍᑦ ᑲᑎᕐᑐᒋᑦ** | 12085 | 30212.50 |
| | | | **5 ᐊᒃᕋᒍᑦ ᐊᔾᔨᒌᓕᕐᑎᕐᑐᒋᑦ** | 2417 | **6042.50** |
| | | | **5 ᐊᒃᕋᒍᑦ ᐊᒥᓱᓂᕐᐸᑦ** | 5170 | **12925.00** |

**ᓇᓗᓇᐃᔭᐃᑦ 2.** ᓈᒻᒪᓂᕐᐹᑦ ᓇᓗᓇᖏᒍᑏᑦ ᐊᑐᐃᓐᓇᐅᔪᑦ ᖃᖏᕐᑐᓂ ᑕᓪᓕᒪᓂ ᐊᒃᕋᒍᓂ ᐃᖃᓗᒃᐱᑦᑕᑦ ᑲᖏᕐᑐᕈᓗᒃᒥᒃ (66º 23'N 64º 19'W) ᑲᖏᕐᑐᕈᓗᒃᒥ ᓄᓇᕗᕐᒥ ᐱᑕᖃᕐᑎᑕᐅᕗᑦ ᐅᕙᓐᖓᑦ ᐃᒪᕐᒥᐅᑕᓕᓇᔨᑦ ᑮᓇᐅᔭᔭᓴᒍᑎᒋᓗᒋᑦ ᐱᔭᓄᑦ ᑎᑎᖃᖏᓐᓂᒃ. ᐱᔭᐅᔪᑦ ᑎᑎᕋᕐᑕᐅᒪᔪᑦ ᓱᒃᕋᓯᒪᑎᓐᓇᒋᑦ ᐅᕐᑯᒪᐃᓐᓂᖏᑦ (ᑭᓗᒍᕐᓴᕐ). ᖃᕐᓯᐅᓂᖏᑦ ᐃᖃᓗᒃᐱᑦᑕᑦ ᒥᒃᓴᐅᓴᒃᑕᐅᔪᑦ ᐊᕕᑦᑐᒋᑦ ᐅᖃᐅᑕᐅᔪᑦ ᐱᔭᑦ ᓱᒃᕋᓯᒪᑎᓐᓇᒋᑦ ᐅᕐᑯᒪᐃᓐᓂᖏᑦ ᐃᒫᒃ 2.5, ᑖᒃᑯᐊ ᐃᒪᕐᒥᐅᑕᓕᓇᔨᑦ ᖃᐅᔨᒐᓱᐊᕈᑎᖏᑦ ᐊᔾᔨᒌᓕᕐᑎᓯᒪᔪᑦ ᓱᒃᕋᓯᒪᑎᓐᓇᒋᑦ (ᑭᓗᒍᕐᓴᕐ) ᐅᕐᑯᒪᐃᓐᓂᖏᑦ ᐃᖃᓗᒃᐲᑦ ᑕᒫᓐᖓᑦ.

| ᐃᒪᕐᒥᐅᑕᓕᓇᔨᑦ ᑮᓇᐅᔭᔭᓴᒍᑎᒋᓗᒋᑦ ᐱᔭᑦ ᐅᓪᓗᖓ | ᓄᓇᓕᒃ | ᐆᒪᔪᑦ | ᐊᖑᓇᓱᒃᐃᐅᑉ ᓇᒥᓐᓂᖓ | ᖃᕐᓯᐅᓂᖏᑦ ᐊᖑᔭᑦ | ᐅᕐᑯᒪᐃᓐᓂᖏᑦ (ᑭᓗᒍᕐᓴᕐ) |
|---|---|---|---|---|---|
| ᐊᒃᕋᒍ 5 (2004) | ᐸᓐᓂᕐᑑᖅ | ᐃᖃᓗᒃᐲᑦ ᑎᓱᔪᕐᑐᑦ | ᑲᖏᕐᑐᕈᓗᒃ | 0 | 0.00 |
| ᐊᒃᕋᒍ 4 (2005) | ᐸᓐᓂᕐᑑᖅ | ᐃᖃᓗᒃᐲᑦ ᑎᓱᔪᕐᑐᑦ | ᑲᖏᕐᑐᕈᓗᒃ | 838 | 2094.50 |
| ᐊᒃᕋᒍ 3 (2006) | ᐸᓐᓂᕐᑑᖅ | ᐃᖃᓗᒃᐲᑦ ᑎᓱᔪᕐᑐᑦ | ᑲᖏᕐᑐᕈᓗᒃ | 324 | 810.50 |
| ᐊᒃᕋᒍ 2 (2007) | ᐸᓐᓂᕐᑑᖅ | ᐃᖃᓗᒃᐲᑦ ᑎᓱᔪᕐᑐᑦ | ᑲᖏᕐᑐᕈᓗᒃ | 504 | 1260.00 |
| ᐊᒃᕋᒍ 1 (2008) | ᐸᓐᓂᕐᑑᖅ | ᐃᖃᓗᒃᐲᑦ ᑎᓱᔪᕐᑐᑦ | ᑲᖏᕐᑐᕈᓗᒃ | 807 | 2016.30 |
| | | | **5 ᐊᒃᕋᒍᑦ ᑲᑎᕐᑐᒋᑦ** | 2473 | 6181.30 |
| | | | **5 ᐊᒃᕋᒍᑦ ᐊᔾᔨᒌᓕᕐᑎᕐᑐᒋᑦ** | 495 | 1236.26 |
| | | | **5 ᐊᒃᕋᒍᑦ ᐊᒥᓱᓂᕐᐸᑦ** | 838 | **2094.50** |

**ᓇᓗᓇᐃᔭᐅᑦ 3.** ᑲᑎᓯᒪᔪᑦ ᓂᕿᑦᓴᓇᓗᒋᑦ ᐊᒻᒪᓗ ᑮᓇᐅᔾᔭᐅᓴᐅᑎᒋᓗᒋᑦ ᐊᖑᔭᐅᓂᑯᓄᑦ ᓈᓴᐅᑏᑦ ᓄᓈᕐᑕᐅᔪᓄᑦ ᐃᖃᓗᒃᐱᓐᓄᑦ ᑕᓯᕐᒥᒃ ᑲᖏᕐᑐᕈᓗᒃᒥᒃ (66º 23'N 64º 19'W) ᑲᖏᕐᑐᕈᓗᒥ ᓄᓇᕗᑦᒥ ᑎᑎᕐᑕᐅᓂᑯᑦ ᑕᒫᓂ ᑕᓪᓕᒪᓂ ᐊᒡᕐᒍᓂ (1997-2001) ᓄᓇᕗᑦᒥ ᐆᒪᔪᕐᓂᒃ ᐊᖑᔭᓂᒃ ᖃᐅᔨᓴᕐᓂᕐᒥ ᑲᒪᒋᔭᖓᑦ ᐆᒪᔪᓕᕆᔨᕐᔪᐊᒃᑯᑦ ᐊᒻᒪᓗ ᑮᓇᐅᔾᔭᑦᓴᒍᑎᒋᓗᒋᑦ ᐱᔭᐅᓂᑯᑦ ᑎᑎᖃᑦ ᑕᒫᓂᑦᓴᐃᓐᓇᖅ ᐅᑯᓇᓐᖓᑦ ᐃᒪᕐᒥᐅᑕᓕᕆᔨᑦ. ᐊᖑᔭᓂᒃ ᖃᐅᔨᓴᕐᓂᖅ ᑎᑎᕋᑕᐅᓚᐅᕐᒪᑦ ᖃᑦᓯᐅᓂᖏᓐᓂᒃ ᐃᖃᓗᒃᐲᑦ ᐅᖃᐅᑕᐅᔪᑦ ᐱᔭᐅᓐᓂᓇᐊᖏᑦ ᑲᖏᕐᑐᕈᓗᒃᒥᒃ ᑕᒫᓂ ᑕᓪᓕᒪᑦᐊᒡᕐᒍᑦ ᓇᓪᓕᐅᓯᒪᔪᒥ. ᐅᕐᑯᒪᐃᓐᓂᖏᑦ ᐅᖃᐅᑕᐅᔪᑦ ᐱᔭᑦ ᒥᒃᓴᐅᓴᒍᑕᐅᔪᑦ ᐊᒥᓱᕈᓇᐊᕐᑐᒋᑦ ᖃᑦᓯᐅᓂᖏᑦ ᐃᖃᐊᓗᐃᑦ ᓄᓈᕐᑕᑦ ᐊᑐᕐᑐᒍ 2.5, ᑖᒃᑯᐊ ᐃᒪᕐᒥᐅᑕᓕᕆᔨᑦ ᖃᐅᔨᓴᓱᐊᕐᑐᑎᒃ ᐊᔾᔨᑮᓕᕐᑎᑕᖏᑦ ᓴᓴᕋᓯᒪᓐᖏᑦᑐᑦ ᐅᕐᑯᒪᐃᓐᓂᖏᑦ (ᑭᓗᒡᒍᕐᒡᔪᒃ) ᐃᖃᓗᒃᐲᑦ ᑕᒫᓐᖓᑦ.

| ᑮᒪᔪᓕᕆᔨᕐᔪᐊᑦ ᐊᖑᔭᓂᒃ ᖃᐅᔨᓴᕐᓂᖏᑦ ᐅᓪᓗᖓ | ᓄᓇᓕᒃ | ᑮᒪᔪᑦ | ᓇᒥᓐᓂᖓ | ᖃᐅᓴᕐᓂᕐᒥ ᓱᒡᕋᓯᒪᓐᖏᑦᑐᑦ ᐅᕐᑯᒪᐃᓐᓂᖏᑦ (ᑭᓗᒡᒍᕐᒡᔪᒃ) | ᐃᒪᕐᒥᐅᑕᓕᕆᔨᓂᒃ ᑮᓇᐅᔾᔭᑦᓴᒍᑎᒋᓗᒋᑦ ᓱᒡᕋᓯᒪᓐᖏᑦᑐᑦ ᐅᕐᑯᒪᐃᓐᓂᖏᑦ (ᑭᓗᒡᒍᕐᒡᔪᒃ) | ᑲᑎᓯᒪᔪᑦ ᓱᒡᕋᓯᒪᓐᖏᑦᑐᑦ ᐅᕐᑯᒪᐃᓐᓂᖏᑦ (ᑭᓗᒡᒍᕐᒡᔪᒃ) |
|---|---|---|---|---|---|---|
| ᐊᒡᕐᒍ 1 (1997) | ᐸᓐᓂᕐᑑᖅ | ᐃᖃᓗᒃᐲᑦ ᑎᓯᔪᕐᑐᑦ | ᑲᖏᕐᑐᕈᓗᒃ | 2262.50 | 3220.00 | 5482.50 |
| ᐊᒡᕐᒍ 2 (1998) | ᐸᓐᓂᕐᑑᖅ | ᐃᖃᓗᒃᐲᑦ ᑎᓯᔪᕐᑐᑦ | ᑲᖏᕐᑐᕈᓗᒃ | 12925.00 | 3186.00 | 16111.00 |
| ᐊᒡᕐᒍ 3 (1999) | ᐸᓐᓂᕐᑑᖅ | ᐃᖃᓗᒃᐲᑦ ᑎᓯᔪᕐᑐᑦ | ᑲᖏᕐᑐᕈᓗᒃ | 10287.50 | 4127.00 | 14414.50 |
| ᐊᒡᕐᒍ 4 (2000) | ᐸᓐᓂᕐᑑᖅ | ᐃᖃᓗᒃᐲᑦ ᑎᓯᔪᕐᑐᑦ | ᑲᖏᕐᑐᕈᓗᒃ | 3812.50 | 0.00 | 3812.50 |
| ᐊᒡᕐᒍ 5 (2001) | ᐸᓐᓂᕐᑑᖅ | ᐃᖃᓗᒃᐲᑦ ᑎᓯᔪᕐᑐᑦ | ᑲᖏᕐᑐᕈᓗᒃ | 925.00 | 0.00 | 925.00 |
| | | | **5 ᐊᒡᕐᒍᑦ ᑲᑎᑦᑐᒋᑦ** | 30212.50 | 10533.00 | 40745.50 |
| | | | **5 ᐊᒡᕐᒍᑦ ᐊᔾᔨᑮᓕᕐᑎᑦᑐᒋᑦ** | 6042.50 | 2106.60 | **8149.10** |
| | | | **5 ᐊᒡᕐᒍᑦ ᐊᒥᓱᓂᕐᐸᑦ** | 12925.00 | 4127.00 | **16111.00** |