ᓇᓗᓇᐃᔭᖅᓯᒪᓂᖏᑦ ᐃᑲᔪᓱᖅᑐᑦ ᑎᑎᕋᖅᓯᒪᔪᑦ

ᖃᐅᔨᓴᖅᑕᐅᑲᓐᓂᓂᖏᓐᓄᑦ ᐊᒥᓲᓂᖏᑦ ᕿᓚᓗᒐᐃᑦ ᑕᓯᐅᔭᖅᔪᐊᖅ−ᓱᓪᓗᐊᓗᒃ ᑲᑎᓐᖓᔪᑦ ᐊᒻᒪ ᖃᐅᔨᓴᓂᕐᒥᑦ ᐊᑦᑐᖅᑕᐅᔪᓄ ᕿᓚᓗᒐᖅᑕᐅᔪᓄᑦ ᓄᓇᕕᒃᒥ ᐊᒻᒪ ᓴᓂᑭᓗᐊᕐᒥ ᐊᐅᓚᑦᑎᕕᒋᔭᐅᔪᓂᑦ

ᖃᐅᔨᓴᓂᕐᒧᑦ ᑎᑎᕋᖅᓯᒪᔪᑦ 2023/004

ᐃᓱᒪᒋᔭᐅᔪᖅ

ᕿᓚᓗᒐᐃᑦ ᑕᓯᐅᔭᖅᔪᐊᖅ−ᓱᓪᓗᐊᓗᒃ ᑲᑎᓐᖓᔪᑦ ᕿᓚᓗᒐᖅᑕᐅᕙᑦᑐᑦ ᐊᖑᓇᓱᑦᑎᓄᑦ ᓄᓇᕕᒃᒥ ᐊᒻᒪ ᓄᓇᕗᒻᒥ ᓄᓇᓕᓐᓂᑦ. ᐅᐊᑦᑎᐊᕈ ᖃᐅᔨᓴᕐᒥᐅᓯᒪᔪᓂᑦ, ᐊᐅᖏᑎᒍᑦ ᑲᑎᓐᖓᔪᑦ ᖃᐅᔨᓴᐃᓂᕐᒧᑦ (GMA) ᐊᑐᖅᓐᑕᐅᓚᐅᖅᑐᑦ ᓇᓗᓇᐃᖅᑐᒋᑦ ᑐᓂᓯᓯᒪᓂᖏᑦ ᐆᒪᔪᐃᑦ ᐱᖓᓐᓇᖓᓂ ᑕᓯᐅᔭᕐᔪᐊᖅ (WHB) ᐊᒻᒪ ᑲᓇᓐᓇᖓᓂ ᑕᓯᐅᔭᕐᔪᐊᖅ (EHB) ᐊᒥᓲᓂᖏᑦ ᕿᓚᓗᒐᖅᑕᐅᓗᑎ ᐊᔾᔨᒌᖏᑦᑐᓂ ᐊᐅᓚᑦᑎᕕᒋᔭᐅᔪᓂᑦ. ᐊᒥᓲᓂᖏᑦ ᑐᑭᖏ ᑦ ᐱᖓᓐᓇᖓᓂ ᑕᓯᐅᔭᕐᔪᐊᖅ ᐊᒻᒪ ᑲᓇᓐᓇᖓᓂ ᑕᓯᐅᔭᕐᔪᐊᖅ ᑐᓐᖓᓂᖃᓚᐅᖅᑐᑦ ᓇᐃᑦᑐᓂᑦ ᐊᐅᖏᑎᒍᑦ ᓇᓗᓇᐃᖅᓯᒍᑏᑦ ᐅᕙᓐᖓᑦ ᒪᐃᑐᓵᓐᑐᕆᐊ (mt) DNA ᐊᐅᓚᑕᐅᔪᒥ ᐊᕕᑦᑐᖅᓯᒪᔪᒥᑦ. ᑭᓯᐊᓂᓕ, ᖃᐅᔨᓴᕐᓂᐅᓯᒪᔪᑦ ᑕᑭᔪᓂᑦ ᐊᐅᖏᑎᒍᑦ ᓇᓗᓇᐃᖅᓯᒍᑏᑦ ᑕᑯᔅᓴᐅᑎᑦᑎᓯᒪᔪᑦ ᑖᒃᑯᐊ ᑎᓴᒪᑦ ᐊᒥᓲᓂᖏᑦ ᓇᓗᓇᐃᖅᑕᐅᔪᓐᓇᖅᑐᑦ ᑕᓯᐅᔭᖅᔪᐊᖅ−ᓱᓪᓗᐊᓗᒃ ᑲᑎᓐᖓᔪᑦ. ᐅᕙᓂ, ᑐᕌᕐᓂᖃᖅᑐᒍᑦ 1) ᖃᐅᔨᒋᐊᒃᑲᓂᖅᑐᒍ ᑐᑭᖏᑦ ᐊᒥᓲᓂᖏᑦ ᐃᓗᐊᓂ ᑕᕝᕙᓂ ᓇᒦᓐᓂᖓᓂ ᐋᖅᑭᔅᓯᒪᓂᓕᖅᑎᑲᓐᓂᖅᑐᒋᑦ ᐊᒻᒪ ᐊᔾᔨᒌᑎᓐᖑᐊᖅᑐᒋᑦ ᓇᐃᑦᑐᑦ ᐊᒻᒪ ᑕᑭᔪᑦ ᐊᐅᖏᑎᒍᑦ ᓇᓗᓇᐃᖅᓯᒍᑏᑦ ᐅᑯᓄᖓ mtDNA ᐊᐅᓚᑕᐅᔪᒥ ᐊᕕᑦᑐᖅᓯᒪᔪᒥᑦ ᐅᑯᓇᖓᑦ 2 861 ᕿᓚᓗᒐᐃᑦ, ᐊᒻᒪ 2) ᐋᖅᑭᒋᐊᖅᑐᒋᑦ ᑐᓂᓯᖃᑦᑕᕐᓂᖏᑦ ᓄᑖᓂᑦ ᓇᓗᓇᐃᖅᑕᐅᕋᑖᖅᓯᒪᔪᓂᑦᖃᐅᔨᒋᐊᕐᕕᐅᔪᓂ ᑲᑎᓐᖓᔪᓂᑦ ᐊᐅᓚᑦᑎᕕᒋᒋᔭᐅᔪᓂᑦ ᐊᑐᖅᑐᑎ GMA. ᑕᑭᔪᑦ ᐊᐅᖏᑎᒍᑦ ᓇᓗᓇᐃᖅᓯᒍᑏᑦ ᓇᓗᓇᐃᖅᓯᓚᐅᖅᑐᑦ ᐱᑕᖃᕐᓂᖏᓐᓄᑦ ᑎᓴᒪᑦ ᓇᓗᓇᐃᖅᑕᐅᑲᓐᓂᕋᑖᖅᓯᒪᔪᑦ ᐊᒥᓱᒡᒍᑎᖏᑦ, ᐱᖓᓐᓇᖓᓂ ᑕᓯᐅᔭᖅᔪᐊᖅ, ᑲᓇᓐᓇᖓᓂ ᑕᓯᐅᔭᖅᔪᐊᖅ, ᔭᐃᒻᔅ ᐸᐃ (JAM), ᐊᒻᒪ ᐸᓐᓂᖅᑑᖅ ᐃᑭᖓᓂ (CSB). ᐱᔪᓐᓇᑎᑦᑎᓚᐅᕐᒥᔪᑦ ᓇᓗᓇᐃᖅᑕᐅᓂᖏᓐᓄᑦ ᑕᓪᓕᒪᖓᑦ ᐊᒥᓱᒡᒍᑎᖏᑦ ᓴᓂᑭᓗᐊᖅ ᕿᑭᖅᑕᖏᓐᓂ (BEL). ᑐᖏᓕᖓᓄ ᑐᕌᒐᖓᓄᑦ,
ᖃᐅᔨᓴᓚᐅᖅᑐᒍᑦ ᓇᓗᓇᐃᖅᑕᐅᓂᖓᓄ ᑕᓪᓕᒪᐃᑦ ᐊᒥᓱᒡᒍᑕᐅᓂᖏᑦ ᐊᑐᖅᑐᑕ ᐊᑕᐅᓯᕐᒥ ᐊᑐᖏᑎᑦᑎᓪᓗᑎ ᐊᑐᖅᑕᐅᓂᖓ ᐊᒻᒪ ᖃᐅᔨᓪᓗᑎ ᖁᕝᕙᓯᑦᑐᓂ ᑕᒻᒪᖅᓯᒪᓂᖃᖅᑎᑕᐅᓂᖏᓐᓄᑦ ᐅᑯᓇᓂ ᑲᓇᓐᓇᖓᓂ ᑕᓯᐅᔭᖅᔪᐊᖅ ᐊᒻᒪ ᓴᓂᑭᓗᐊᖅ ᕿᑭᖅᑕᖏᓐᓂ ᕿᓚᓗᒐᖏᓐᓂ. ᑕᒻᒪᖅᓯᒪᓂᖃᖅᑎᑕᐅᓚᐅᖅᑐᑦ ᐱᔾᔪᑎᒋᓪᓗᒍ ᑲᑎᓐᖓᔪᓂᑦ ᐊᐅᖏᑎᒍᑦ ᓇᑭᓐᖔᖅᓯᒪᓂᖏᓐᓄ ᖃᐅᔨᔾᔪᑎᓂᑦ ᐊᒻᒪ ᑲᑎᓐᖓᒍᓐᓇᕐᓂᖏᓐᓄᑦ ᐊᐅᔭᒃᑯᑦ. ᐱᓕᕆᐊᖑᔪᑦ ᐱᐅᓯᑎᒋᐊᖅᑕᐅᓚᐅᖅᑐᑦ ᐅᑯᐊ ᑲᓇᓐᓇᖓᓂ ᑕᓯᐅᔭᖅᔪᐊᖅ ᐊᒻᒪ ᓴᓂᑭᓗᐊᖅ ᕿᑭᖅᑕᖏᓐᓂ ᕿᓚᓗᒐᖏᑦ ᑲᑎᑦᑎᑕᐅᒻᒪᑕ ᐊᑕᐅᓯᐅᓪᓗᒍ ᖃᐅᔨᒋᐊᕐᕕᐅᔪᑦ ᐊᑎᖃᖅᑎᑕᐅᔪᑦ ᓴᓂᑭᓗᐊᖅ ᕿᑭᖅᑕᖏᓐᓂ−ᖃ+ᑲᓇᓐᓇᖓᓂ ᑕᓯᐅᔭᖅᔪᐊᖅ ᕿᓚᓗᒐᖏᑦ. GMA ᑎᓴᒪᓂᑦ

ᖃᐅᔨᒋᐊᒃᕐᕕᖃᖅᑐᓂ ᑲᑎᓐᖓᔪᓄᑦ (ᐱᖓᓐᓇᖓᓂ ᑕᓯᐅᔭᖅᔪᐊᖅ, ᔭᐃᒻᔅ ᐸᐃ, ᐸᓐᓂᖅᑑᖅ ᐃᑭᖓᓂ ᕿᓚᓗᒐᒡᒍᑎᖏᑦ ᐊᒻᒪ ᓴᓂᑭᓗᐊᖅ ᕿᑭᖅᑕᖏᓐᓂ−ᑲᓇᓐᓇᖓᓂ ᑕᓯᐅᔭᖅᔪᐊᖅ ᕿᓚᓗᒐᖏᑦ) ᖁᕝᕙᓯᓐᓂᖅᓴᐅᑎᑦᑎᓚᐅᖅᑐᑦ ᐃᓚᖏᓐᓂ ᓴᓂᑭᓗᐊᖅ ᕿᑭᖅᑕᖏᓐᓂ−ᑲᓇᓐᓇᖓᓂ ᑕᓯᐅᔭᖅᔪᐊᖅ ᕿᓚᓗᒐᖏᓐᓂ ᐅᑭᐊᔅᓵᒃᑯᑦ ᕿᓚᓗᒐᖅᑕᐅᔪᓂᑦ ᓱᓪᓗᐊᓗᒃᒥ (5.6%) ᐊᒻᒪ ᐅᐊᓐᓇᖓᑕ ᑲᓇᓐᓇᖓᓂ ᑕᓯᐅᔭᖅᔪᐊᖅ (14.9%), ᐊᒻᒪ ᐊᕐᕌᒍᓕᒫᒥ ᓴᓂᑭᓗᐊᕐᒥ (3.3 ᑎᑭᑦᑐᒍ 61.2%),
ᐊᔾᔨᒋᑎᓐᖑᐊᖅᑐᒋᑦ ᖃᐅᔨᓴᕐᓂᐅᖃᑦᑕᖅᓯᒪᔪᓂᑦ ᐊᑐᖅᑐᑎ ᒪᕐᕈᐃᓐᓈᓐᓂ ᖃᐅᔨᒋᐊᕐᕕᐅᔪᓂ ᑲᑎᓐᖓᔪᓂᑦ. ᐊᓯᔾᔨᖅᑐᑦ

ᖃᐅᔨᒋᒋᐊᕐᕕᖓᓄ ᑲᑎᓐᖓᔪᓄᑦ, ᐊᒻᒪ ᐋᖅᑭᔅᓯᒪᓕᖅᑎᑕᐅᒃᑲᓂᕐᓂᖏᓐᓄᑦ, ᐊᔾᔨᒌᖏᑎᑦᑎᓂᖅᓴᐅᔪᓐᓇᓚᐅᖅᑐᑦ ᐃᓚᖏᓐᓂ

ᒥᔅᓴᐅᓴᑦᑕᐅᔪᓂ ᓴᓂᑭᓗᐊᖅ ᕿᑭᖅᑕᖏᓐᓂ−ᑲᓇᓐᓇᖓᓂ ᑕᓯᐅᔭᖅᔪᐊᖅ ᕿᓚᓗᒐᖏᓐᓂ ᐊᐅᓚᑦᑎᕕᒋᔭᐅᔪᓂᑦ. ᖃᓄᐃᓐᓂᕆᔭᖏᑦ ᑕᕝᕙᓂ ᖃᐅᔨᓴᕐᓂᐅᔪᒥᑦ ᖁᕝᕙᕆᐊᖅᓯᒪᔪᑦ ᐱᑦᑎᐊᖅᓯᒪᓂᖏᑦ ᐃᓚᖏᓐᓄᑦ ᑐᓂᔭᐅᔪᓂᑦ ᖃᐅᔨᒋᐊᕐᕕᐅᔪᓂᑦ ᑲᑎᓐᖓᔪᓂᑦ ᕿᓚᓗᒐᖅᑕᐅᔪᑦ ᓄᓇᕕᒃᒥ ᐊᒻᒪ ᓄᓇᕗᒻᒥ (ᓴᓂᑭᓗᐊᖅ) ᓄᓇᓕᖏᓐᓂ.

ᐅᑎᖅᑎᑕᐅᔪᓐᓇᕐᓂᖏᓐᓄᑦ ᖃᐅᔨᓴᕐᓂᐅᔪᖅ ᕿᓚᓗᒐᕐᓄᑦ (Delphinapterus leucas) ᕿᓚᓗᒐᖏᑦ ᓄᓇᕕᒃᒥᑦ (ᐅᐊᓐᓇᖓᓂ ᑯᐸᐃᒃ)

ᖃᐅᔨᓴᓂᕐᒧᑦ ᑎᑎᕋᖅᓯᒪᔪᑦ 2024/030

ᐃᓱᒪᒋᔭᐅᔪᖅ

2020−ᒥᑦ, ᑲᑎᒪᔨᕋᓛᑦ ᖃᓄᐃᓕᖓᓕᕐᓂᖏᓐᓄᑦ ᐊᑦᑕᓇᖅᑐᒦᑦᑐᑦ ᐆᒪᔪᐃᑦ ᑲᓇᑕᒥ (COSEWIC) ᖃᐅᔨᓴᓚᐅᖅᑐᑦ ᑲᓇᓐᓇᖓᓂ ᑕᓯᐅᔭᖅᔪᐊᖅ (EHB) ᐊᒻᒪ ᐅᖓᕙ ᐃᒪᖓᓂ (UB) ᕿᓚᓗᒐᖏᓐᓂ ᓇᓗᓇᐃᖅᑕᐅᔪᓐᓇᖅᑐᑎᑦ ᑲᑎᓐᖓᔪᑦ (DUs) ᐊᑦᑕᓇᖅᑐᒦᑦᑐᑎ, ᑐᖏᓕᕇᑦᑎᓪᓗᒋᑦ. ᑖᒃᑯᐊ ᒪᕐᕉᒃ ᓇᓗᓇᐃᖅᑕᐅᔪᓐᓇᖅᑐᑎᑦ ᑲᑎᓐᖓᔪᑦ ᒫᓐᓇᐅᔪᒥᑦ ᒥᒥᓂᔅᑕᒧᑦ ᕿᒥᕐᕈᔭᐅᔪᑦ ᑎᑎᕋᖅᑕᐅᓂᖏᓐᓄᑦ ᐊᑖᓂ ᐄᒪᔪᐃᑦ ᐊᑦᑕᓇᖅᑐᒦᑦᑐᓄ ᐱᖁᔭᖅ (SARA). ᐃᒪᕐᒥᐅᑕᓕᕆᔨᒃᑯᑦ ᑲᓇᑕᒥ ᖃᐅᔨᓴᖅᑎᖏᑦ ᐱᓕᕆᓂᖃᖅᑎᑕᐅᓯᒪᔪᑦ ᐱᓕᖕᕿᐊᖃᕐᓗᑎ ᐅᑎᖅᑎᑕᐅᔪᓐᓇᕐᓂᖏᓐᓄᑦ ᖃᐅᔨᓴᓂᕐᒥᑦ (RPA) ᑖᒃᑯᓄᖓ ᒪᕐᕉᓐᓄ ᓇᓗᓇᐃᖅᑕᐅᔪᓐᓇᖅᑐᑎᑦ ᑲᑎᓐᖓᔪᑦ ᐃᑲᔪᕐᓗᑎ ᑎᑎᕋᖅᑕᐅᓂᖏᓐᓄᑦ ᐃᓱᒪᓕᐅᓂᕐᒧᑦ, ᑎᕋᖅᑕᐅᓂᖏᑦ ᓇᓗᓇᐃᖅᑕᐅᒍᑎ, ᓯᕗᓂᔅᓴᒥ ᐱᕙᓪᓕᐊᑎᑦᑎᓂᕐᒧᑦ ᐅᑎᖅᑎᑕᐅᓂᖏᓐᓄᑦ ᑎᑎᕋᖅᓯᒪᔪᓂᑦ. ᑭᖑᓪᓕᖅᐹᕆᓯᒪᔭᖓᓂ ᕿᓚᓗᒐᐃᑦ ᓇᓗᓇᐃᖅᑕᐅᔪᓐᓇᖅᑐᑎᑦ ᑲᑎᓐᖓᔪᑦ ᕿᒥᕐᕈᔭᐅᓂᖏᑦ ᐅᑯᓄᖓ COSEWIC 2016−ᒥᑦ, ᓇᓗᓇᐃᖅᓯᒪᔪᑦ ᐊᐊᐅᖏᑎᒍᑦ ᕿᓚᓗᒐᒡᒍᑕᐅᓂᖏᑦ ᓇᓗᓇᐃᖅᑕᐅᓯᒪᔪᑦ ᓯᓴᑭᓗᐊᖅ ᕿᑭᖅᑕᖏᓐᓂ (BEL), ᐃᓗᐊᓂ ᑲᓇᓐᓇᖓᓂ ᑕᓯᐅᔭᖅᔪᐊᖅ ᓇᓗᓇᐃᖅᑕᐅᔪᓐᓇᖅᑐᑎᑦ ᑲᑎᓐᖓᔪᑦ ᐊᐅᔭᒃᑯᑦ ᓇᒧᓐᖓᖃᑦᑕᕐᓂᖏᓐᓄᑦ. ᑕᐃᒪᐃᓐᓂᖓᓄᑦ, ᑖᓐᓇ RPA ᑐᕌᖓᓂᖃᓪᓚᕆᖏᑦᑐᖅ ᑲᓇᓐᓇᖓᓄ ᑕᓯᐅᔭᖅᔪᖅ ᐊᐅᖏᑎᒍᑦ ᐊᒥᓲᓂᖏᑦ ᐊᑕᐅᓯᐅᓪᓗᓂ, ᑭᓯᐊᓂᓕᑲᑎᓐᖓᓂᖏᓐᓄᑦ

ᓴᓂᑭᓗᐊᖅ ᕿᑭᖅᑕᖏᓐᓂ−ᑲᓇᓐᓇᖓᓂ ᑕᓯᐅᔭᖅᔪᐊᖅ ᕿᓚᓗᒐᖏᓐᓄᑦ. ᕿᓚᓗᒐᐃᑦ ᑲᑎᖃᑦᑕᕐᓂᖏᑦ ᖃᐅᔨᔭᐅᓯᒪᔪᑦ

ᐊᐅᔭᒃᑯᑦ ᑰᑉ ᐃᓱᐊᓂ ᐃᒪᖏᓐᓂ ᐃᒪᖓᑕ ᑭᓪᓕᖓᒍᑦ ᑲᓇᓐᓇᖓᓂ ᑕᓯᐅᔭᖅᔪᐊᖅ. ᐅᑭᐊᔅᓵᒃᑯᑦ, ᑕᒫᓂ ᓇᒥᓐᓂᖓᓂ
ᐅᐊᓐᓇᖓᓄ ᐅᑎᖅᑕᕆᐊᓕᖅᐸᑦᑐᑦ ᓄᓇᕕᒃ ᑭᓪᓕᖓᑕ ᐃᒪᖓᒍᑦ ᐅᑭᐊᓪᓕᕕᖏᓐᓅᖅᑐᑎ ᓴᓪᓗᐊᓗᒃᒧᑦ ᐊᒻᒪ ᑭᓪᓕᖓᒍᑦ ᓛᐸᑐᐊ ᐃᒪᖓᓄᑦ. ᓇᓗᓇᐃᖅᑕᐅᔪᓐᓇᖅᑐᑎᑦ ᑲᑎᓐᖓᔪᑦ ᕿᓚᓗᒐᐃᑦ ᐱᑕᖃᑦᑎᐊᖅᓯᒪᖃᑦᑕᓚᐅᖅᑐᑦ ᓂᒋᖓᓂ ᐅᖓᕙ

ᐃᒪᖓᓂ, ᐊᒥᓱᓂᑦ ᑲᑎᓐᓂᖃᖅᑐᓂᑦ ᕿᓚᓗᒐᕐᓂ ᑕᑯᔭᐅᔪᖃᖅᓯᒪᖏᑦᑐᖅ ᑖᒃᑯᓇᓂ ᖃᐅᔨᓴᕐᓂᐅᔪᓂᑦ 40−ᓂ ᐊᕐᕌᒎᓯᒪᓕᖅᑐᓂᑦ. ᑭᓯᐊᓂᓕ, ᑕᑯᔭᐅᖏᓐᓇᖃᑦᑕᕐᓂᖏᑦ ᐊᒻᒪ ᕿᓚᓗᒐᖅᑕᐅᖃᑦᑕᕐᓂᖏᑦ ᓇᓗᓇᐃᖅᓯᓯᒪᒍᓐᓇᖅᑐᑦ ᑖᒃᑯᐊ ᐅᖓᕙ ᐃᒪᖓᓂ ᓇᓗᓇᐃᖅᑕᐅᔪᓐᓇᖅᑐᑎᑦ ᑲᑎᓐᖓᔪᑦ ᐱᑕᖃᖅᑐᑎᑦ ᐊᑦᑎᑑᓪᓗᑎ, ᐅᕝᕙᓘᓐᓃᑦ ᖃᓂᒋᔭᖏᓐᓃᑦᑐᑦ ᓇᓗᓇᐃᖅᑕᐅᔪᓐᓇᖅᑐᑎᑦ ᑲᑎᓐᖓᔪᑦ ᐅᖓᕙ ᐃᒪᖓᓅᖃᑦᑕᖅᑐᑦ. ᑐᑭᓯᒋᐊᕈᑎᐅᕋᑖᖅᓯᒪᔪᑦ ᓇᓗᓇᐃᖅᓯᔪᑦ ᑲᔪᓯᓂᖃᖅᑐᓂ ᐊᑦᑎᓪᓕᕙᓪᓕᐊᓂᖏᓐᓄᑦ ᓴᓂᑭᓗᐊᖅ ᕿᑭᖅᑕᖏᑦ-ᑲᓇᓐᓇᖓᓂ ᑕᓯᐅᔭᖅᔪᐊᖅᑕ ᕿᓚᓗᒐᖏᑦ 1970−ᖏᓐᓂᓂᑦ, ᐱᑕᖃᕐᓂᖏᓐᓄᑦ ᒥᔅᓴᐅᓴᑦᑕᐅᓯᒪᓪᓗᑎ 2,900-3,200 ᕿᓚᓗᒐᐃᑦ 2021−ᒥᑦ. ᐊᐅᓚᑕᐅᓂᖏᑦ ᓂᕿᔅᓴᓄᑦ ᕿᓚᓗᒐᖅᑕᐅᕙᑦᑐᑦ ᐊᔅᓱᕈᕈᑕᐅᓗᐊᖅᑐᖅ ᐅᑯᓄᖓ ᓴᓂᑭᓗᐊᖅ ᕿᑭᖅᑕᖏᑦ-ᑲᓇᓐᓇᖓᓂ ᑕᓯᐅᔭᖅᔪᐊᖅᑕ ᐊᒻᒪ

ᓇᓗᓇᐃᖅᑕᐅᔪᓐᓇᖅᑐᑎᑦ ᑲᑎᓐᖓᔪᑦ ᐆᒪᓂᖏᓐᓄᑦ ᐊᒻᒪ ᐅᑎᖅᑎᑕᐅᓂᖏᓐᓄᑦ. ᐊᓯᖏᑦ ᐊᑦᑕᓇᕈᑎᐅᔪᑦ ᐃᓄᓐᓄᑦ ᐱᓕᕆᔭᐅᔪᓂᑦᒃ ᓇᔪᖅᑕᐅᕙᑦᑐᓂᑦ ᓴᓂᑭᓗᐊᖅ ᕿᑭᖅᑕᖏᑦ-ᑲᓇᓐᓇᖓᓂ ᑕᓯᐅᔭᖅᔪᐊᖅᑕ ᐊᒻᒪ ᐅᖓᕙ ᐃᒪᖓᓂ

ᕿᓚᓗᒐᖏᓐᓄᑦ ᐱᖃᓯᐅᔾᔨᔪᑦ ᐃᓄᓐᓃᖔᖅᑐᓂᑦ ᓂᐲᑦ, ᐱᓕᕆᕕᓐᓄᑦ ᐱᕙᓪᓕᐊᑎᑕᐅᔪᑦ, ᐅᒥᐊᕐᔪᐊᑦ ᐃᖏᕋᖃᑦᑕᕐᓂᖏᑦ, ᐃᓚᓕᐅᕈᑎᓄᑦ ᓱᕈᓇᖅᑐᑦ, ᑮᓇᐅᔭᓕᐅᕋᓱᐊᓂᕐᒧᑦ ᐃᖃᓗᓕᕆᓂᐅᔪᑦ, ᐊᒻᒪ ᓯᓚᖓ ᐊᓯᔾᔨᕐᓂᖓᓄᑦ. ᐊᑯᓂᐅᔪᒧᑦ (ᐅᖓᑖᓄᑦ > 100 ᐊᕐᕌᒍᐃᑦ) ᓇᒧᓐᖓᖃᑦᑕᕐᓂᖏᑦ ᑐᕌᒐᖓ ᐅᑎᖅᑎᑕᐅᓗᑎ ᓇᒧᓐᖓᖃᕐᑕᕐᕕᒋᓯᒪᔭᑐᖃᖏᑦ ᕿᓚᓗᒐᖏᓐᓄᑦ ᑲᓇᓐᓇᖓᓂ ᑕᓯᐅᔭᖅᔪᐊᖅ ᑰᖓᑕ ᐃᓱᖏᓐᓂ ᐃᒪᖏᓐᓂ ᐊᒻᒪ ᐃᓗᐊᓂ ᓂᒋᖓᑕ ᐅᖓᕙ ᐃᒪᖓ ᐊᒻᒪ ᑰᖓᑕ ᐃᓱᖏᓐᓂ ᐃᒪᖏᓐᓂ. ᐱᖓᓱᑦ ᐅᑎᖅᑎᑕᐅᓂᖏᓐᓄᑦ ᐱᕼᖃᕐᓂᖏᓐᓄᑦ ᑐᕌᒐᖏᑦ ᑐᔅᓯᕌᖑᔪᑦ ᐅᑯᓄᖓ ᓴᓂᑭᓗᐊᖅ ᕿᑭᖅᑕᖏᑦ-ᑲᓇᓐᓇᖓᓂ ᑕᓯᐅᔭᖅᔪᐊᖅᑕ ᕿᓚᓗᒐᖏᓐᓄᑦ: 1) ᐱᓗᑎ ᐱᑕᖃᕐᓂᖏᓐᓄᑦ ᐊᔾᔨᒋᓗᓂᒋᑦ ᐅᕝᕙᓘᓐᓃᑦ ᐅᖓᑕᐅᔾᔨᓗᑎ 2015 ᐱᑕᖃᕐᓂᖏᓐᓄᑦ ᒥᔅᓴᐅᓴᑦᑕᐅᓯᒪᔪᑦ ᖁᓕᓂᑦ ᐊᕐᕌᒍᓂᑦ, 2) ᐱᓗᑎ ᐱᑕᖃᕐᓂᖏᓐᓄᑦ ᐊᔾᔨᒋᓗᓂᒋᑦ ᐅᕝᕙᓘᓐᓃᑦ ᐅᖓᑕᐅᔾᔨᓗᑎ ᓯᕗᓂᐊᒍᑦ ᖃᐅᔨᒪᓇᓱᓐᓂᕐᒧᑦ ᖃᐅᔨᒋᐊᕐᕕᖓ ᖁᕝᕙᓯᓐᓂᖓ (PRL = 5,300 ᐊᑕᐅᓯᒡᒍᑏᑦ) 86 ᐊᕐᕌᒍᓂᑦ, ᐊᒻᒪ 3) ᐱᓗᑎ ᐱᑕᖃᕐᓂᖏᓐᓄᑦ ᒪᓪᓕᖃᖅᑐᓂ ᓄᓇᖓᑎᒍᑦ ᐱᕈᖅᑐᓂᑦ ᕿᓚᓗᒐᖅᑕᐅᔪᖃᖏᑦᑐᓂᑦ ᕿᓚᓗᒐᖏᓐᓂ. ᒫᓐᓇᐅᔪᒥᑦ ᕿᓚᓗᒐᖅᑕᐅᔪᑦ ᖁᕝᕙᓯᓐᓂᖏᑦ ᓈᒻᒪᓂᖃᖏᑦᑐᑦ ᑖᒃᑯᓄᖓ ᐅᑎᖅᑎᑦᑎᓂᕐᒧᑦ ᑐᕌᖅᑕᖏᓐᓂ. ᒪᕐᕉᒃ ᐅᑎᖅᑎᑕᐅᓂᖏᓐᓄᑦ ᑐᕌᒐᖏᑦ ᐱᑕᖃᕐᓂᖏᓐᓄᑦ ᑐᔅᓯᕌᖑᔪᑦ ᐅᖓᕙ ᐃᒪᖓᓂ ᕿᓚᓗᒐᖏᓐᓄᑦ: 1) ᐱᓯᒪᓗᒋ ᐊᒥᓲᓂᖏᓐᓄᑦ ᐊᖏᓂᖏᑦ ᐅᕙᓂ ᐅᕝᕙᓘᓐᓃᑦ ᖁᓛᓂ 2022 ᐱᑕᖃᕐᓂᖏᓐᓄᑦ ᒥᔅᓴᐅᓴᑦᑕᐅᓯᒪᔪᑦ, ᐊᒻᒪ 2) ᐱᓗᒋᑦ ᐊᒥᓲᓂᖏᓐᓄᑦ ᐊᖏᓂᖏᑦ ᒪᓪᓕᖃᖅᑐᓂ ᓄᓇᖓᑎᒍᑦ ᐱᕈᖅᑐᓂᑦ ᕿᓚᓗᒐᖅᑕᐅᔪᖃᖏᑦᑐᓂᑦ ᑕᕝᕙᓐᖓᑦ ᕿᓚᓗᒐᖏᓐᓂ

ᓇᓗᓇᐃᖅᑕᐅᔪᓐᓇᖅᑐᑎᑦ ᑲᑎᓐᖓᔪᑦ. ᐱᔪᒥᓇᖏᑎᓪᓗᒋᑦ ᕿᓚᓗᒐᖅᑕᐅᔪᑦ ᖁᕝᕙᓯᓐᓂᖏᑦ ᐅᖓᕙ ᐃᒪᖓᓂ ᕿᓚᓗᒐᖏᓐᓄᑦ ᐊᒥᓲᓂᖏᓐᓄᑦ ᐊᑦᑎᓪᓕᒋᐊᖅᑎᑦᑎᒐᔭᖅᑐᑦ ᐊᒻᒪ ᐱᑕᖃᕈᓐᓃᖅᑎᑕᐅᓂᖏᓐᓄᑦ ᐊᒥᐊᒃᑯᖏᑦ ᕿᓚᓗᒐᖏᑦ ᑕᒫᓂ ᓇᒦᓐᓂᖓᓂ ᐃᓗᐊᓂ 4 ᑎᑭᑦᑐᒍ 21 ᐊᕐᕌᒍᐃᑦ. ᐱᑕᖃᕈᓐᓇᕐᓂᖓ ᐆᒪᔪᐃᑦ ᐲᖅᑕᐅᓂᖏᓐᓄᑦ ᓴᓂᑭᓗᐊᖅ ᕿᑭᖅᑕᖏᑦ-ᑲᓇᓐᓇᖓᓂ ᑕᓯᐅᔭᖅᔪᐊᖅᑕ ᐊᒻᒪ ᐅᖓᕙ ᐃᒪᖓᓂ ᕿᓚᓗᒐᖏᓐᓄᑦ ᒥᔅᓴᐅᓴᑦᑕᐅᓚᐅᖅᑐᖅ ᐅᕙᓂ 5 ᐊᒻᒪ

0 ᕿᓚᓗᒐᐃᑦ ᐊᑕᐅᓯᕐᒥ ᐊᕐᕌᒍᒥ, ᑐᖏᓕᕇᑦᑐᑎ ᑐᓐᖓᕕᒋᓪᓗᒋᑦ 2022 ᐱᑕᖃᕐᓂᖏᓐᓄᑦ ᒥᔅᓴᐅᓴᖅᑕᐅᓯᒪᔪᑦ.

ᒥᔅᓴᐅᓴᑦᑕᐅᓯᒪᔪᑦ ᓇᓗᓇᐃᖅᓯᔪᑦ ᓈᒻᒪᒍᓐᓇᖅᑐᓂ ᓴᓂᑭᓗᐊᖅ ᕿᑭᖅᑕᖏᑦ-ᑲᓇᓐᓇᖓᓂ ᑕᓯᐅᔭᖅᔪᐊᖅᑕ ᕿᓚᓗᒐᖏᑦ

ᑎᑭᑦᑎᓗᑎ PRL 86 ᐊᕐᕌᒍᓂᑦ ᐊᕐᕌᒍᑕᒫᑦ ᕿᓚᓗᒐᖅᑕᐅᓗᑎ 20 ᕿᓚᓗᒐᐃᑦ.