IMPHAL, MONDAY, JANUARY 30, 2017 egiFyskq, WkTjlExg obAeg wkEq, akmg\k sbAKgi 3414 obT\lE mkEwkB HUEIYEN LANPAO

2 ꯂꯧꯎꯁꯤꯡꯎꯒꯤ ꯀꯥꯈꯜ
ꯍꯨꯏꯌꯦꯟ ꯂꯥꯟꯄꯥꯎꯚꯦꯂꯟꯗ꯭ꯔꯤ ꯊꯥꯕ ꯑꯃꯗꯤ ꯂꯥꯏꯅꯥ ꯇꯤꯜꯅꯥꯗꯒꯤ ꯉꯥꯛꯊꯣꯛꯄ
ꯅꯤꯡꯊꯝꯊꯥꯒꯤ ꯑꯏꯪꯕ ꯃꯇꯝ ꯅꯠꯇꯕ ꯑꯇꯩ ꯃꯇꯝꯗ ꯍꯧꯕ ꯉꯝꯕ
ꯄꯥꯝꯕꯤꯅꯤ꯫ ꯃꯆꯤ ꯑꯣꯏꯕ ꯆꯤꯟꯖꯥꯛ ꯑꯃ ꯑꯣꯏꯕꯇ ꯅꯠꯇꯅ ꯍꯛꯆꯥꯡꯒꯤ
ꯑꯅꯥ ꯑꯌꯦꯛ ꯀꯌꯥꯕꯨ ꯐꯍꯟꯕꯗꯁꯨ ꯀꯥꯟꯅꯕ ꯄꯔꯤ꯫ ꯃꯈꯜ ꯈꯨꯗꯤꯡꯒꯤ
ꯑꯦꯟꯖꯥꯡꯒꯤ ꯃꯆꯜ ꯑꯣꯏꯔꯤ꯫ ꯊꯥꯕꯗ ꯂꯥꯏꯕ ꯄꯥꯝꯕꯤꯁꯤ ꯅꯤꯌꯝ ꯆꯨꯝꯅ
ꯊꯥꯔꯒ ꯁꯦꯜ ꯍꯦꯟꯅ ꯇꯥꯟꯕ ꯌꯥꯏ꯫

ꯆꯥꯟꯅꯕ ꯏꯁꯤꯡ ꯅꯨꯡꯁꯤꯠ: ꯑꯁꯥꯕ ꯃꯇꯝꯒꯤ ꯄꯥꯝꯕꯤꯅꯤ꯫

ꯁꯦꯜꯁꯤꯌꯁ ꯗꯤꯒ꯭ꯔꯤ 25-30 ꯐꯥꯎꯕꯗ ꯐꯖꯅ ꯃꯇꯣꯟ ꯊꯣꯛꯏ꯫ ꯗꯤꯒ꯭ꯔꯤ
ꯁꯦꯜꯁꯤꯌꯁ 17 ꯀꯤ ꯃꯈꯥꯗꯗꯤ ꯃꯇꯣꯟ ꯊꯣꯛꯄ ꯉꯝꯗꯦ꯫ ꯏꯁꯤꯡ ꯏꯅꯤꯜ
ꯂꯩꯕ ꯑꯃꯁꯨꯡ ꯑꯁꯥꯕ ꯃꯇꯝꯗ ꯆꯥꯅꯕ ꯄꯥꯝꯕꯤꯁꯤ ꯅꯨꯡꯊꯤꯜꯒꯤ ꯃꯇꯝꯗ
ꯁꯦꯜꯁꯤꯌꯁ ꯗꯤꯒ꯭ꯔꯤ 42 ꯗꯒꯤ ꯍꯦꯜꯂꯕꯗꯤ ꯃꯍꯩ ꯇꯝꯕ ꯉꯝꯗꯅ
ꯃꯄꯥꯜꯁꯤꯡ ꯀꯦꯜꯂꯤ꯫

ꯂꯩꯕꯥꯛ ꯁꯦꯝꯕ: ꯏꯁꯤꯡ ꯑꯃꯁꯨꯡ ꯂꯩꯕꯥꯛ ꯂꯩꯍꯥꯎꯕꯨ ꯐꯖꯅ ꯁꯦꯝ ꯁꯥꯔꯕꯗꯤ
ꯂꯩꯇꯥꯟ ꯂꯝꯗꯒꯤ ꯂꯩꯉꯣꯏ ꯂꯝ ꯑꯣꯏꯅ ꯇꯧꯕ ꯃꯐꯝ ꯈꯨꯗꯤꯡꯗꯁꯨ ꯊꯥꯕ \

ꯥꯏ꯫ ꯂꯩꯉꯣꯏ ꯂꯝ ꯑꯣꯏꯔꯒꯗꯤ ꯑꯋꯥꯠꯄ ꯏꯁꯤꯡ ꯄꯤꯅꯕ ꯍꯣꯠꯅꯒꯅꯤ,
ꯂꯩꯇꯥꯟ ꯂꯝꯒꯤ ꯑꯍꯦꯟꯕ ꯏꯁꯤꯡ ꯆꯤꯊꯐꯝ ꯐꯖꯅ ꯁꯦꯝꯒꯅꯤ꯫ ꯑꯁꯤꯟꯕ
ꯂꯩꯕꯥꯛꯇ ꯆꯥꯅꯕ ꯋꯥꯠꯂꯤ꯫ ꯂꯩꯆꯡ ꯂꯩꯅ ꯑꯃꯨꯛ ꯈꯣꯏꯔꯕ ꯃꯇꯨꯡꯗ ꯌꯥꯡꯂꯞꯅ
ꯑꯅꯤ ꯑꯍꯨꯝꯂꯛ ꯈꯣꯏꯕ ꯆꯪꯏ꯫

ꯍꯥꯔ ꯍꯥꯞꯄ: ꯂꯩꯕꯥꯛ ꯑꯃꯁꯨꯡ ꯂꯩꯕꯥꯛ ꯂꯩꯍꯥꯎ ꯈꯦꯟꯅꯕꯒꯤ ꯃꯇꯨꯡ
ꯏꯟꯅ ꯍꯥꯞꯀꯗꯕ ꯍꯥꯔꯒꯤ ꯆꯥꯡꯗ ꯈꯦꯟꯅꯕ ꯈꯔ ꯂꯩꯔꯕꯁꯨ ꯃꯍꯧꯁꯥꯅ KZA

ꯑꯃ ꯆꯥꯎꯕ ꯃꯐꯝꯗ ꯁꯟꯇꯤ ꯁꯟꯌꯨꯡꯒꯤ ꯍꯥꯔ ꯇꯟ 5-7 ꯐꯥꯎꯕ ꯍꯥꯞꯄ
ꯌꯥꯏ꯫ KZA ꯑꯃ ꯆꯥꯎꯕ ꯃꯐꯝ ꯌꯨꯔꯤꯌꯥ ꯀꯤꯂꯣꯒ꯭ꯔꯥꯝ 55, ꯚꯤ ꯑꯦ ꯄꯤ
ꯀꯤꯂꯣꯒ꯭ꯔꯥꯝ 33 ꯑꯃꯁꯨꯡ ꯄꯣꯇꯥꯁ ꯀꯤꯂꯣꯒ꯭ꯔꯥꯝ 20 ꯆꯥꯏꯒꯅꯤ꯫ KZA

ꯑꯃꯒꯤ ꯍꯥꯞꯐꯝ ꯊꯣꯛꯄ ꯗꯤ ꯑꯦ ꯄꯤ, ꯄꯣꯇꯥꯁ ꯑꯃꯁꯨꯡ ꯌꯨꯔꯤꯌꯥꯒꯤ ꯁꯔꯨꯛ
ꯑꯍꯨꯝ ꯊꯣꯛꯄꯒꯤ ꯑꯃꯒ ꯄꯨꯟꯅ ꯂꯩꯕꯥꯛ ꯁꯦꯝꯕ ꯃꯇꯝꯗ ꯍꯥꯞꯍꯧꯒꯅꯤ꯫

ꯂꯦꯝꯍꯧꯔꯤꯕ ꯌꯨꯔꯤꯌꯥꯗꯨ ꯁꯔꯨꯛ ꯑꯅꯤ ꯊꯣꯛꯂꯒ ꯁꯔꯨꯛ ꯑꯃꯅ ꯚꯦꯂꯟꯗ꯭ꯔꯤ
ꯊꯥꯈ꯭ꯔꯕ ꯃꯇꯨꯡ ꯊꯥ ꯑꯃ ꯂꯩꯔꯒ ꯍꯥꯞꯀꯅꯤ꯫ ꯂꯦꯝꯍꯧꯔꯤꯕ ꯁꯔꯨꯛꯇꯨ ꯚꯦꯂꯟꯗ꯭ꯔꯤ
ꯊꯥꯈ꯭ꯔꯕ ꯃꯇꯨꯡ ꯊꯥ ꯑꯅꯤ ꯂꯩꯔꯒ ꯍꯥꯞꯀꯅꯤ꯫

ꯊꯥꯕꯒꯤ ꯃꯇꯝ: ꯃꯇꯝ ꯑꯅꯤꯊꯣꯛꯅ ꯊꯥꯕ ꯌꯥꯏ꯫ ꯐꯦꯕ꯭ꯔꯨꯋꯥꯔꯤ
ꯑꯔꯣꯏꯕ ꯆꯌꯣꯜꯗꯒꯤ ꯑꯦꯄ꯭ꯔꯤꯜꯒꯤ ꯑꯍꯥꯟꯕ ꯊꯥꯈꯥꯏ ꯐꯥꯎꯕ ꯊꯥꯕ ꯌꯥꯏ꯫

ꯅꯠꯇ꯭ꯔꯒ ꯑꯊꯦꯡꯕꯒꯤ ꯑꯣꯏꯅ ꯖꯨꯟ ꯖꯨꯂꯥꯏꯗ ꯊꯥꯕ ꯌꯥꯏ꯫

ꯃꯔꯨꯒꯤ ꯆꯥꯡ: ꯐꯦꯕ꯭ꯔꯨꯋꯥꯔꯤ-ꯃꯥꯔꯆꯇ ꯊꯥꯒꯗꯕ ꯑꯣꯏꯔꯒꯗꯤ ꯄꯔꯤꯗ
ꯀꯤꯂꯣꯒ꯭ꯔꯥꯝ 20 ꯆꯪꯏ ꯑꯃꯁꯨꯡ ꯖꯨꯟ ꯖꯨꯂꯥꯏꯒꯤ ꯑꯣꯏꯔꯒꯅ ꯄꯔꯤꯗ
ꯀꯤꯂꯣꯒ꯭ꯔꯥꯝ 8-10 ꯐꯥꯎꯕ ꯆꯪꯒꯅꯤ꯫

ꯊꯥꯞꯅꯕ: ꯄꯥꯝꯕꯤꯒ ꯄꯥꯝꯕꯤꯒ ꯁꯦꯟꯇꯤꯃꯤꯇꯔ 15, ꯄꯔꯦꯡꯒ
ꯄꯔꯦꯡꯒ ꯁꯦꯅꯇꯤꯃꯤꯇꯔ 45 ꯊꯥꯞꯅꯍꯟꯒꯅꯤ꯫ ꯌꯥꯔꯤꯕꯃꯈꯩ ꯄꯔꯦꯡꯁꯤꯡ
ꯈꯥ-ꯋꯥꯡ ꯑꯣꯏꯅ ꯂꯩꯍꯟꯒꯅꯤ꯫ ꯅꯣꯡꯖꯨ ꯊꯥꯒꯤ ꯑꯣꯏꯅ ꯖꯨꯟ ꯖꯨꯂꯥꯏꯗ ꯊꯥꯕꯗꯗꯤ
ꯄꯥꯝꯕꯤꯒ ꯄꯥꯝꯕꯤꯒ ꯁꯦꯟꯇꯤꯃꯤꯇꯔ 25-30, ꯄꯔꯦꯡꯒ ꯄꯔꯦꯡꯒ
ꯁꯦꯟꯇꯤꯃꯤꯇꯔ 45 ꯂꯥꯞꯅꯍꯟꯒꯅꯤ꯫

ꯏꯁꯤꯡ ꯆꯟꯕ: ꯀꯥꯂꯦꯟꯊꯥꯒꯖꯤꯗꯃꯛ ꯊꯥꯔꯤꯕ ꯚꯦꯂꯟꯗ꯭ꯔꯤ
ꯄꯥꯝꯕꯤꯁꯤꯡꯗ ꯅꯨꯃꯤꯠ 4-5 ꯈꯨꯗꯤꯡꯒꯤ ꯏꯁꯤꯡ ꯆꯟꯒꯅꯤ꯫ ꯅꯣꯡꯖꯨꯊꯥꯒꯖꯤ
ꯃꯇꯝꯗ ꯊꯥꯔꯤꯕ ꯄꯥꯝꯕꯤꯁꯤꯡꯒꯤ ꯑꯣꯏꯅꯗꯤ ꯅꯣꯡ ꯇꯥꯕꯒꯤ ꯆꯥꯡ ꯑꯃꯁꯨꯡ
ꯂꯩꯕꯥꯛꯀꯤ ꯏꯅꯤꯜꯒꯤ ꯃꯈꯥ ꯄꯣꯟꯅ ꯏꯁꯤꯡ ꯄꯤꯒꯅꯤ꯫

ꯅꯥꯄꯅꯤ ꯉꯥꯛꯊꯣꯛꯄ: ꯀꯥꯂꯦꯟꯒꯤꯗꯃꯛ ꯊꯥꯔꯤꯕ
ꯚꯦꯂꯦꯟꯗ꯭ꯔꯤꯁꯤꯡꯒꯤꯗꯃꯛ ꯑꯅꯤ ꯑꯍꯨꯝꯂꯛ ꯅꯥꯄꯤ ꯄꯦꯡꯕ ꯆꯪꯏ꯫

ꯅꯣꯡꯖꯨꯊꯥꯒꯤꯗꯛ ꯊꯥꯔꯤꯕꯁꯤꯡꯒꯤ ꯑꯣꯏꯅꯗꯤ ꯈꯔ ꯍꯦꯟꯅ ꯇꯣꯏꯅ ꯄꯦꯡꯕ
ꯆꯪꯏ꯫ ꯅꯥꯄꯤ ꯍꯤꯗꯥꯛ ꯑꯣꯏꯅ ꯄꯥꯝꯕꯤ ꯊꯥꯗ꯭ꯔꯤꯉꯩ ꯅꯨꯃꯤꯠ ꯃꯔꯤꯅꯤꯒꯤ
ꯃꯃꯥꯡꯗ Fluchloralin ꯒ꯭ꯔꯥꯝ 150-250 ꯅꯠꯇ꯭ꯔꯒ ꯊꯥꯈ꯭ꯔꯕ ꯃꯇꯨꯡ
ꯅꯣꯡꯃ ꯂꯩꯔꯒ ꯏꯗꯡꯇꯦ uralin ꯒ꯭ꯔꯥꯝ 150-250 ꯅꯠꯇ꯭ꯔꯒ Alachlor

ꯒ꯭ꯔꯥꯝ 150-250 ꯐꯥꯎꯕ ꯆꯥꯏꯊꯣꯛꯍꯧꯒꯅꯤ꯫ ꯑꯗꯨꯃꯛꯄꯨ ꯅꯥꯄꯤ ꯍꯤꯗꯥꯛ
ꯆꯥꯏꯈ꯭ꯔꯕꯁꯨ ꯊꯥꯈ꯭ꯔꯕ ꯃꯇꯨꯡ ꯅꯃꯨꯤꯠ 60 ꯂꯩꯔꯒ ꯈꯨꯠꯅ ꯑꯃꯨꯛ ꯄꯦꯡꯕ
ꯗꯔꯀꯥꯔ ꯑꯣꯏ꯫

ꯍꯦꯛꯄ: ꯃꯄꯥꯜ ꯁꯥꯈ꯭ꯔꯕ ꯃꯇꯨꯡ ꯅꯨꯃꯤꯠ 7 ꯅꯤ ꯅꯠꯇ꯭ꯔꯒ 8
ꯅꯤ ꯁꯨꯕꯒ ꯚꯦꯂꯦꯟꯗ꯭ꯔꯤꯗꯤ ꯍꯦꯛꯄ ꯌꯥꯏ꯫ ꯇꯣꯏꯅ ꯍꯦꯛꯂꯤꯕꯃꯈꯩ
ꯂꯩꯍꯧꯔꯤꯕ ꯄꯤꯛꯂꯤꯕ ꯚꯦꯂꯦꯟꯗ꯭ꯔꯤꯅ ꯆꯥꯎꯕ ꯑꯃꯁꯨꯡ ꯑꯅꯧꯕ ꯃꯄꯥꯜ ꯁꯥꯕ
ꯊꯨꯖꯤꯜꯍꯜꯂꯤ꯫ ꯍꯦꯛꯄ ꯃꯇꯝꯗ ꯚꯦꯂꯟꯗ꯭ꯔꯤꯒꯤ ꯃꯈꯣꯛ ꯑꯗꯨ ꯄꯥꯝꯕꯤꯗ
ꯊꯅꯝꯅꯕ ꯍꯣꯠꯅꯒꯅꯤ꯫ ꯑꯁꯨꯝꯅ ꯍꯦꯛꯄꯒꯤ ꯈꯨꯗꯣꯡꯆꯥꯔꯣꯏꯗꯕ
ꯂꯩꯔꯒꯗꯤ ꯊꯥꯡꯥ ꯀꯥꯇꯤ ꯁꯤꯖꯤꯟꯅꯗꯨꯅ ꯍꯦꯛꯀꯅꯤ꯫ ꯅꯠꯇ꯭ꯔꯕꯗꯤ ꯈꯔ ꯂꯤꯕ
ꯚꯦꯂꯦꯟꯗ꯭ꯔꯤ ꯍꯦꯛꯅꯕ ꯍꯣꯠꯅꯕꯗ ꯄꯥꯝꯕꯤ ꯐꯨꯛꯇꯣꯔꯛꯄ ꯅꯠꯇ꯭ꯔꯒ
ꯄꯥꯝꯕꯤ ꯁꯦꯒꯥꯏꯕ ꯌꯥꯎꯏ꯫

ꯄꯣꯠꯊꯣꯛ: ꯀꯥꯂꯦꯟꯒꯤꯗꯛ ꯊꯥꯔꯤꯕ ꯚꯦꯂꯟꯗ꯭ꯔꯤꯗꯤ KZA ꯑꯃ
ꯆꯥꯎꯕ ꯂꯧꯐꯝꯗ ꯀ꯭ꯋꯤꯟꯇꯜ 15-16 ꯃꯨꯛꯇꯤ ꯏꯔꯥꯏ ꯂꯥꯏꯅ ꯐꯪꯕ ꯉꯝꯃꯤ꯫

ꯅꯣꯡꯖꯨ ꯊꯥꯗ ꯍꯦꯛꯄ ꯚꯦꯂꯟꯗ꯭ꯔꯤꯗꯤ KZA ꯑꯃ ꯆꯥꯎꯕ ꯃꯝꯗ ꯀ꯭ꯋ
ꯤꯟꯇꯟ 30-35 ꯐꯥꯎꯕ ꯄꯨꯊꯣꯛꯄ ꯉꯝꯃꯤ꯫

ꯚꯦꯂꯟꯗ꯭ꯔꯤꯗꯁꯨ ꯑꯇꯩ ꯄꯥꯝꯕꯤꯒꯨꯝꯅ ꯇꯤꯜ ꯌꯥꯝꯅ ꯇꯥꯏ꯫ ꯃꯈꯜ ꯀꯌ
ꯥꯒꯤ ꯂꯥꯏꯅꯥ ꯇꯥꯏ꯫ ꯍꯦꯛꯄꯒꯤ ꯃꯇꯝ ꯌꯧꯔꯛꯂꯕ ꯑꯃꯁꯨꯡ ꯍꯦꯛꯂꯕ
ꯄꯥꯝꯕꯤ ꯀꯌꯥꯗꯁꯨ ꯂꯥꯏꯅꯥ ꯇꯤꯜꯅꯥ ꯇꯥꯕꯗꯒꯤ ꯄꯣꯠꯊꯣꯛ ꯌꯥꯝꯅ ꯍꯟꯊꯍꯜꯂꯤ꯫

ꯂꯥꯏꯅꯥ ꯇꯤꯜꯅꯥꯁꯤꯡ ꯑꯁꯤꯗꯒꯤ ꯉꯥꯛꯊꯣꯛꯅꯕ ꯃꯈꯜ ꯀꯌꯥꯒꯤ ꯍꯤꯗꯥꯛ
ꯀꯥꯞꯅꯩ꯫ ꯅꯣꯡꯃ ꯀꯥꯜꯂꯒ ꯅꯤꯅꯤꯁꯨꯕꯗ ꯚꯦꯂꯟꯗ꯭ꯔꯤꯁꯤꯡ ꯍꯦꯛꯅꯩ꯫

ꯍꯤꯗꯥꯛꯁꯨ ꯇꯣꯏꯅ ꯀꯥꯞꯄ, ꯇꯣꯏꯅꯁꯨ ꯍꯦꯛꯄ ꯍꯥꯏꯕꯁꯤ ꯆꯤꯟꯖꯥꯛꯛꯇ
ꯍꯤꯗꯥꯛ ꯌꯥꯎꯔꯛꯅꯕꯒꯤ ꯑꯆꯧꯕ ꯃꯔꯝ ꯑꯃꯅꯤ꯫ ꯉꯜꯂꯤꯉꯩꯗ ꯂꯥꯏꯅꯥ
ꯇꯤꯜꯅꯥꯁꯤꯡ ꯃꯁꯛ ꯈꯪꯗꯣꯛꯇꯨꯅ ꯉꯥꯛꯊꯣꯛꯅꯕ ꯍꯣꯠꯅꯍꯧꯕꯅ ꯄꯣꯠꯊꯣꯛ
ꯍꯦꯟꯒꯠꯍꯟꯕꯗ ꯅꯠꯇꯅ ꯍꯤꯗꯥꯛ ꯁꯤꯖꯤꯟꯅꯕꯒꯤ ꯆꯥꯡꯁꯨ ꯍꯟꯊꯍꯜꯂꯤ꯫

ꯄꯣꯠꯊꯣꯛ ꯂꯩꯅꯕꯒꯤꯗꯃꯛ ꯃꯇꯝ ꯃꯇꯝꯒꯤ ꯑꯣꯏꯟ ꯇꯥꯔꯤꯕ
ꯂꯥꯏꯅꯥ ꯇꯤꯜꯅꯥꯁꯤꯡ ꯃꯁꯛ ꯈꯪꯗꯣꯛꯇꯨꯅ ꯈꯨꯗꯝ ꯆꯟꯅꯕ ꯍꯣꯠꯅꯒꯅꯤ꯫

ꯚꯦꯂꯟꯗ꯭ꯔꯤꯗ ꯇꯥꯒꯟꯕ ꯂꯥꯏꯅꯥꯁꯤꯡꯗꯤ- (1) ꯄꯤꯛꯂꯤꯉꯩꯗ ꯃꯈꯣꯡ
ꯄꯠꯇꯨꯅ ꯇꯨꯔꯕ ꯃꯇꯨꯡꯗ ꯀꯪꯗꯨꯅ ꯁꯤꯕ (Damping ꯍꯇꯇ) (2) ꯃꯅꯥꯗ
ꯄꯥꯎꯗꯔꯒꯨꯝꯕ ꯃꯀꯨꯞ ꯃꯀꯨꯞꯁꯤꯡꯅ ꯀꯨꯞꯁꯤꯟꯕ (Powdery

ꯂꯡꯦꯛꯅꯄ) (3) ꯄꯥꯝꯕꯤꯅ ꯂꯦꯞꯈꯨꯏ ꯈꯨꯏꯊꯕ (Fusarium wilt) (4)
ꯃꯅꯥ ꯀꯥꯊꯦꯛꯄꯤ (Leaf blight) ꯑꯃꯁꯨꯡ (5) ꯚꯥꯏꯔꯁꯅ ꯊꯣꯛꯍꯟꯕ
ꯃꯅꯥꯒꯤ ꯃꯁꯤꯡꯁꯤꯡꯅ ꯅꯥꯄꯨ ꯃꯆꯨ ꯆꯪꯂꯛꯄ (ꯧꯅꯦꯦꯍꯄ vein ꯂꯍꯀꯀꯃꯡꯖ

virus) ꯃꯔꯨꯑꯣꯏꯕ ꯇꯤꯜꯁꯤꯡꯒꯤ ꯃꯅꯨꯡꯗ (1) ꯚꯦꯂꯟꯗ꯭ꯔꯤ ꯑꯃꯁꯨꯡ
ꯃꯌꯣꯟ ꯍꯨꯠꯄ ꯇꯤꯜ (Spotted ꯨꯍꯦꯦꯄꯍꯗꯂ) (2) ꯃꯅꯥꯒꯤ ꯃꯍꯤ
ꯆꯨꯞꯊꯣꯛꯄꯤ (Jassids) 3) ꯑꯊꯣꯠꯄ ꯃꯐꯝꯁꯤꯡꯗꯒꯤ ꯃꯍꯤ
ꯆꯨꯞꯊꯣꯛꯄꯤ (ꯈꯩꯡꯛꯅꯗ mite) ꯑꯃꯁꯨꯡ (4) ꯚꯥꯏꯔꯁꯅ ꯊꯣꯛꯍꯟꯕ
ꯂꯥꯏꯅꯥꯁꯤꯡꯕꯨ ꯁꯟꯗꯣꯛꯂꯤꯕ White ꯇꯦ ꯧꯅꯆꯤꯡꯕ ꯃꯃꯤꯡ ꯄꯟꯕ ꯌꯥꯏ꯫

ꯃꯈꯣꯡ ꯄꯠꯄꯤ ꯂꯥꯏꯅꯥ (Damping ꯍꯇꯇ) : ꯂꯥꯏꯅꯥ ꯑꯁꯤ
ꯄꯤꯊꯤꯌꯝ, ꯔꯥꯏꯖꯣꯀꯣꯛꯇꯣꯅꯤꯌꯥ ꯑꯃꯁꯨꯡ ꯐꯨꯖꯦꯔꯤꯌꯝ ꯍꯥꯏꯅ ꯈꯪꯅꯕ
ꯀꯣꯛꯐꯥꯏꯁꯤꯡꯅ ꯊꯣꯛꯍꯜꯂꯤ꯫ ꯆꯥꯔꯁꯤꯡꯅ ꯃꯔꯨ ꯄꯣꯛꯈꯥꯏꯔꯛꯄꯗ
ꯉꯥꯏꯔꯤꯉꯩꯗ ꯃꯔꯥ ꯑꯣꯏꯟ ꯊꯤꯟꯗꯣꯔꯛꯂꯤꯕ ꯁꯔꯨꯛ ꯑꯃꯁꯨꯡ ꯃꯌꯣꯜꯅ
ꯂꯩꯕꯥꯛꯇꯒꯤ ꯊꯤꯟꯒꯠꯂꯛꯄꯗ ꯉꯥꯏꯔꯤꯉꯩꯗ ꯃꯈꯣꯡꯗ ꯃꯨꯁꯤꯜꯂꯛꯄ
ꯑꯃꯁꯨꯡ ꯆꯦꯡꯁꯤꯜꯂꯛꯄꯗꯒꯤ ꯄꯥꯛꯇꯛꯅꯅ ꯁꯤꯕ ꯑꯩꯈꯣꯏꯅ ꯌꯥꯝꯅ
ꯇꯣꯏꯅ ꯊꯦꯡꯅꯩ꯫

ꯀꯟꯅꯕ ꯄꯥꯝꯕꯩ: ꯃꯔꯨ ꯀꯤꯂꯣꯒ꯭ꯔꯥꯝ ꯑꯃꯗ Captan ꯅꯠꯇ꯭ꯔꯒ

Thiram ꯒ꯭ꯔꯥꯝ ꯑꯍꯨꯝ ꯇꯣꯠꯂꯒ ꯊꯥꯍꯧꯕ ꯐꯩ꯫ ꯂꯤꯡꯊꯣꯛꯅꯤꯡꯕ
ꯑꯣꯏꯔꯒꯅ ꯆꯥꯔ ꯍꯨꯟꯐꯝꯗ ꯃꯔꯨ ꯍꯨꯜꯂꯕ ꯃꯇꯨꯡ Captan (50%)
ꯅꯠꯇ꯭ꯔꯒ ꯓꯍꯩꯅꯗ oxychloride 50% ꯒ꯭ꯔꯥꯝ ꯑꯅꯤ ꯏꯁꯤꯡ
ꯂꯤꯇꯔ ꯈꯨꯗꯤꯡꯗ ꯌꯥꯜꯂꯒ ꯄꯦꯔꯦ ꯁꯤꯖꯤꯟꯅꯔꯒ ꯆꯥꯎꯏꯊꯣꯛꯄꯁꯨ ꯌꯥꯏ꯫

ꯅꯠꯇ꯭ꯔꯒ Taqat ꯒ꯭ꯔꯥꯝ 25 ꯏꯁꯤꯡ ꯂꯤꯇꯔ 15 ꯈꯨꯗꯤꯡꯗ ꯌꯥꯜꯂꯒ
ꯃꯈꯣꯡ ꯆꯣꯠꯅꯕ ꯀꯥꯞꯊꯣꯛꯀꯅꯤ꯫

ꯄꯥꯎꯗꯔꯤ ꯃꯤꯜꯗꯤꯎ (Powdery ꯜꯡꯦꯛꯅꯄ) : ꯃꯅꯥ ꯑꯃꯁꯨꯡ
ꯃꯎꯁꯤꯡ ꯑꯄꯤꯛꯄ ꯑꯉꯧꯕ ꯅꯠꯇ꯭ꯔꯒ ꯉꯧꯔꯨꯅꯕ ꯗꯥꯒꯁꯤꯡ
ꯂꯩꯔꯝꯕꯗꯒꯤ ꯑꯁꯨꯝ ꯑꯁꯨꯝ ꯆꯥꯎꯊꯣꯔꯛꯏ꯫ ꯂꯣꯏꯅꯅ ꯄꯥꯎꯗꯔꯒꯨꯝꯕ
ꯑꯀꯨꯎꯄ, ꯑꯉꯧꯕ ꯑꯃꯁꯨꯡ ꯉꯧꯔꯨꯅꯕ ꯃꯀꯨꯞꯁꯤꯡ ꯃꯆꯤ ꯃꯆꯤꯗ
ꯂꯩꯔꯝꯕꯗꯒꯤ ꯃꯅꯥ ꯑꯃꯁꯨꯡ ꯃꯎ ꯄꯨꯝꯕ ꯀꯨꯞꯁꯤꯟꯈꯤꯕ ꯊꯦꯡꯅꯒꯅꯤ꯫

ꯃꯄꯨꯡ ꯐꯥꯗ꯭ꯔꯤꯕ ꯃꯅꯥꯤꯡꯅ ꯀꯦꯜꯂꯤ ꯑꯃꯁꯨꯡ ꯃꯍꯩꯁꯤꯡꯗꯨ ꯆꯥꯎꯗꯝ
ꯊꯤꯜꯂꯤ꯫ ꯅꯨꯡꯁꯤꯠꯇ ꯏꯁꯤꯡ ꯃꯅꯤꯜꯒꯤ ꯆꯥꯡ ꯋꯥꯡꯂꯕꯗꯤ ꯂꯥꯏꯅꯥ ꯑꯁꯤ
ꯁꯥꯊꯤꯕꯒꯤ ꯆꯥꯡ ꯍꯦꯟꯒꯠꯂꯛꯏ꯫

ꯀꯟꯅꯕ ꯄꯥꯝꯕꯩ: Myclobutanil 10% WP ꯒ꯭ꯔꯥꯝ 6 ꯏꯁꯤꯡ
ꯂꯤꯇꯔ 15 ꯈꯨꯗꯤꯡꯗ ꯌꯥꯜꯂꯒ ꯃꯅꯥꯁꯤꯡ ꯆꯣꯠꯅꯕ ꯀꯥꯞꯇꯍꯛꯀꯅꯤ꯫

ꯅꯠꯇ꯭ꯔꯒ Sulphur 80% ꯒ꯭ꯔꯥꯝ 25 ꯏꯁꯤꯡ ꯂꯤꯇꯔ 15
ꯈꯨꯗꯤꯡꯗ ꯌꯥꯜꯂꯒ ꯀꯥꯞꯊꯣꯛꯀꯅꯤ꯫ ꯃꯁꯤ ꯅꯠꯇ꯭ꯔꯒꯁꯨ Karathane

(Dinocap) ꯃꯤꯂꯤꯂꯤꯇꯔ 7 ꯏꯁꯤꯡ ꯂꯤꯇꯔ 15 ꯈꯨꯗꯤꯡꯗ \

ꯥꯟꯁꯤꯜꯂꯒ ꯀꯥꯞꯊꯣꯛꯄ ꯌꯥꯏ꯫

ꯄꯥꯝꯕꯤ ꯂꯦꯞꯈꯨꯏ ꯈꯨꯏꯊꯕꯤ (Fusarium wilt) : ꯂꯥꯏꯅꯥ ꯑꯁꯤ
ꯄꯛꯂꯕ ꯄꯥꯝꯕꯤꯁꯤꯡꯅ ꯃꯅꯥꯗ ꯂꯩꯔꯤꯕ ꯃꯁꯤꯡꯁꯤꯡ ꯑꯗꯨ ꯅꯥꯄꯨ
ꯁꯥꯔꯛꯄꯒ ꯂꯣꯏꯅꯅ ꯈꯨꯏꯊꯔꯛꯏ꯫ ꯂꯥꯏꯅꯥꯁꯤꯅ ꯅꯥꯔꯕ ꯄꯥꯝꯕꯤꯁꯤꯡꯅ
ꯈꯨꯏꯗ꯭ꯔꯤꯉꯩꯗꯁꯨ ꯆꯥꯎꯕ ꯊꯤꯟꯅ BT! ꯈꯨꯏꯊꯔꯕ ꯄꯥꯝꯕꯤꯗꯨ ꯐꯩꯅ
ꯀꯛꯊꯠꯇꯨꯅ ꯌꯦꯡꯕꯗ ꯃꯆꯤꯟꯖꯥꯛ ꯑꯃꯁꯨꯡ ꯏꯁꯤꯡ ꯄꯨꯊꯣꯛ ꯄꯨꯁꯤꯟ
ꯇꯧꯔꯤꯕ ꯃꯐꯝꯁꯤꯡꯗꯨ ꯃꯨꯅ ꯃꯨꯅ ꯂꯩꯕ ꯊꯦꯡꯅꯒꯅꯤ꯫

ꯀꯟꯅꯕ ꯄꯥꯝꯕꯩ: ꯂꯥꯏꯅꯥ ꯑꯁꯤ ꯅꯥꯔꯛꯇꯅꯕꯒꯤꯗꯃꯛ ꯚꯦꯂꯟꯗ꯭ꯔꯤ
ꯃꯔꯨꯗ ꯍꯤꯗꯥꯛ ꯇꯣꯠꯍꯧꯕ ꯐꯩ, (ꯃꯊꯛꯇ ꯄꯟꯖꯈ꯭ꯔꯦ) ꯃꯁꯤ ꯅꯠꯇ꯭ꯔꯒꯁꯨ

Trichoderma culture ꯒ꯭ꯔꯥꯝ 10 ꯃꯔꯨ ꯀꯤꯂꯣꯒ꯭ꯔꯥꯝ ꯑꯃꯗ
ꯇꯣꯠꯍꯧꯕ ꯌꯥꯏ꯫ ꯊꯥꯗ꯭ꯔꯤꯉꯩꯗ ꯂꯩꯆꯪ ꯂꯩꯅ ꯈꯣꯏꯗꯣꯛꯇꯨꯅ ꯅꯨꯡꯁꯥ ꯌꯩꯍꯟꯕꯁꯨ
ꯀꯥꯟꯅꯒꯅꯤ꯫

ꯃꯔꯨꯑꯣꯏꯕ ꯇꯤꯜꯅ ꯂꯥꯛꯁꯤꯟꯕ:

ꯚꯦꯂꯟꯗ꯭ꯔꯤ ꯑꯃꯁꯨꯡ ꯃꯌꯣꯟ ꯍꯨꯠꯄꯤ ꯇꯤꯜ ꯂꯥꯛꯁꯤꯟꯅꯕꯒꯤꯗꯃꯛ

Coragen ꯃꯤꯂꯤꯂꯤꯇꯔ ꯑꯍꯨꯝ ꯏꯁꯤꯡ ꯂꯤꯇꯔ 15 ꯈꯨꯗꯤꯡꯗ ꯌꯥꯜꯂꯒ
ꯀꯥꯎꯊꯣꯛꯀꯅꯤ꯫

ꯃꯅꯥꯒꯤ ꯃꯍꯤ ꯆꯨꯞꯊꯣꯛꯄꯤ (Jassid) ꯑꯃꯁꯨꯡ ꯊꯣꯠꯄ
ꯃꯐꯝꯁꯤꯡꯗꯒꯤ ꯃꯍꯤ ꯆꯨꯞꯊꯣꯛꯄꯤ (ꯈꯩꯡꯛꯅꯗ mite)sg ꯗꯃꯛꯇꯗꯤ

Pegasus ꯒ꯭ꯔꯥꯝ 12.5 ꯏꯁꯤꯡ ꯂꯤꯇꯔ 15 ꯈꯨꯗꯤꯡꯗ ꯌꯥꯜꯂꯒ
ꯀꯥꯞꯊꯣꯛꯀꯅꯤ꯫ ꯃꯈꯥ ꯊꯪꯕ ꯃꯅꯥꯒꯤ ꯁꯔꯨꯛꯁꯤꯡꯁꯨ ꯆꯣꯠꯍꯟꯒꯅꯤ꯫

ꯚꯥꯏꯔꯁꯟꯅ ꯊꯣꯛꯍꯟꯕ ꯂꯥꯏꯅꯥꯤꯡ ꯁꯟꯗꯣꯛꯂꯤꯕ White ꯇꯦ ꯧ
ꯂꯥꯛꯁꯤꯟꯅꯕꯒꯤꯗꯃꯛ Cyantraniliprole ꯃꯤꯂꯤꯂꯤꯇꯔ 5 ꯏꯁꯤꯡ
ꯂꯤꯇꯔ 15 ꯈꯨꯗꯤꯡꯗ ꯌꯥꯜꯂꯒ ꯀꯥꯞꯊꯣꯛꯀꯅꯤ꯫

ꯗꯥ: ꯑꯦꯝ FOTFOT ꯁꯤꯡꯍ

...ꯑꯦꯗꯤꯇꯔꯗ ꯊꯥꯔꯛꯄ ꯆꯤꯊꯤ...

ꯏꯀꯥꯏꯈꯨꯝꯅꯖꯔꯤꯕ ꯑꯦꯗꯤꯇꯔ,
ꯄꯣꯂꯤꯇꯤꯛꯁ ꯍꯥꯏꯕꯁꯤꯗꯤ ꯑꯉꯛꯄ
ꯄꯣꯠꯁꯛ ꯑꯃ ꯑꯣꯏꯔꯝꯂꯦ꯫ ꯃꯤꯀꯨꯞꯇ
ꯃꯤꯇ꯭ꯔꯪꯒꯨꯝ ꯃꯆꯨ ꯃꯈꯜ ꯀꯌꯥ ꯑꯣꯟꯕ, ꯊꯥꯖꯗꯕ
ꯊꯧꯗꯣꯛ ꯀꯌꯥ ꯎꯍꯟꯕ ꯉꯝꯕ ꯂꯤꯂꯥꯒꯤ
ꯐꯝꯕꯥꯛꯀ ꯆꯞ ꯍꯦꯛ ꯃꯥꯟꯅꯩ꯫ ꯄꯣꯂꯤꯇꯤꯀꯦꯜ
ꯄꯥꯔꯇꯤ ꯑꯃꯗ ꯌꯥꯎꯕ ꯍꯥꯏꯕꯁꯤ ꯄꯥꯔꯇꯤ
ꯑꯗꯨꯒꯤ ꯆꯠꯅ-ꯀꯥꯡꯂꯣꯟ, ꯐꯤꯗꯝ, ꯄꯥꯟꯗꯝꯗꯨꯗ
ꯄꯥꯝꯖꯕꯒꯤ ꯌꯥꯎꯔꯤꯕꯣꯏ ꯅꯤꯡꯂꯨꯏ ꯑꯗꯨꯕꯨ
ꯃꯗꯨꯗꯤ ꯑꯣꯏꯔꯝꯗ꯭ꯔꯦ꯫ ꯅꯔꯦꯟꯗ꯭ꯔ ꯃꯣꯗꯤꯅ
ꯄ꯭ꯔꯙꯥꯟ ꯃꯟꯇ꯭ꯔꯤ ꯍꯦꯀ ꯑꯣꯏꯔꯛꯄꯒ
ꯃꯤꯑꯣꯏ ꯀꯌꯥ ꯊꯣꯝꯖꯤꯟꯅꯔꯤꯕ ꯑꯁꯤꯗꯤ ꯕꯤ
ꯖꯦ ꯄꯤꯗ ꯚꯣꯠ ꯑꯃꯨꯛꯇꯪ ꯂꯦꯞꯄꯒ ꯂꯥꯏꯕꯛ
ꯐꯔꯗꯤ ꯁꯛꯇꯤ ꯄꯥꯏꯕ ꯃꯔꯛꯇ ꯌꯥꯎꯒꯦ ꯍꯥꯏꯕ
ꯑꯣꯏꯇꯥꯔꯦ꯫ ꯕꯤ ꯖꯦ ꯄꯤꯅ ꯁꯛꯇꯤ ꯄꯥꯏꯅꯤ,
ꯄꯥꯏꯔꯣꯏ ꯍꯥꯏꯕꯁꯨ ꯈꯪꯕ ꯅꯠꯇꯦ꯫ ꯀꯦꯟꯗ꯭ꯔ
ꯑꯃꯗ ꯀꯦꯟꯗꯤꯗꯦꯠ 4/5 ꯗꯒꯤ ꯇꯥꯗꯅ
ꯇꯤꯀꯦꯠ ꯇꯥꯟꯅꯔꯒꯗꯧꯔꯤ ꯍꯥꯏꯕꯁꯤ ꯈ꯭ꯋꯥꯏꯗꯩ
ꯄꯪꯕ ꯃꯤꯁꯨ ꯍꯥꯅꯅ ꯂꯣꯟꯅꯅ ꯈꯪꯅꯔꯕ ꯋꯥꯐꯝꯅꯤ꯫

ꯇꯤꯀꯦꯠ ꯄꯤꯕꯁꯨ ꯉꯝꯃꯣꯏꯗꯕ, ꯃꯥꯅꯥ ꯄꯤꯕꯁꯨ
ꯉꯝꯕ ꯅꯠꯇꯕ ꯃꯤꯗꯥ ꯄꯣꯏꯅꯞ ꯅꯞꯄ ꯃꯤꯁꯨ
ꯇꯦꯀꯦꯠ ꯇꯥꯟꯅꯕ ꯌꯥꯎꯔꯤ ꯍꯥꯏꯕꯁꯨ ꯄꯪꯉꯥꯡ
ꯉꯥꯡꯅꯩ, ꯃꯤꯒꯤ ꯃꯆꯤꯟꯕꯨ ꯀꯅꯥꯅ ꯃꯦꯜꯂꯨꯅꯤ?

ꯑꯗꯨꯒ ꯇꯤꯀꯦꯠ ꯈꯨꯠꯄꯤꯁꯤꯅ ꯀꯝꯗꯧꯕꯅꯣ ꯀꯩꯁꯥ
ꯈꯔ ꯄꯥꯏꯕ, ꯃꯑꯣꯡ ꯈꯔ ꯃꯥꯟꯕ, ꯋꯥꯅꯣꯝꯕ ꯍꯩꯕ
ꯃꯤꯗ ꯄꯤꯔꯤꯖꯥꯠꯂ, ꯄꯩꯁꯥꯕꯨ ꯄꯥꯏꯔꯗꯤ ꯑꯇꯣꯞꯄ
ꯄꯥꯔꯇꯤꯗꯒꯤ ꯉꯁꯤ ꯆꯣꯡꯁꯤꯜꯂꯛꯂꯁꯨ ꯇꯦꯀꯦꯠ
ꯍꯦꯛꯇ ꯄꯤꯗꯧꯔꯤꯕꯔ? ꯇꯤꯀꯦꯠ ꯐꯪꯍꯧꯗ꯭ꯔꯒꯅ
ꯑꯇꯩ ꯀꯔꯤ ꯄꯥꯔꯇꯤ ꯂꯩꯔꯤ ꯀꯣꯏꯊꯤ ꯊꯤꯕꯁꯨ
ꯌꯥꯎꯔꯤꯃꯥꯜꯂꯦ꯫ ꯇꯦꯂꯦꯒꯨ ꯗꯦꯁꯝ ꯀꯥꯏꯗꯨꯅ
ꯂꯦꯞꯄꯛꯀꯅꯤꯀꯣ꯫ ꯄꯪꯇꯛ ꯁꯨꯇꯛ ꯍꯤꯡꯕ
ꯑꯩꯈꯣꯏꯗꯤ ꯋꯥꯈꯜ ꯂꯧꯁꯤꯡ ꯄꯨꯝꯃꯝ ꯃꯝꯃꯦ꯫

ꯄꯣꯂꯤꯇꯤꯛꯁꯁꯤ ꯀꯔꯕꯥꯔꯅꯤ ꯍꯥꯏꯕꯗꯨ ꯐꯥꯒꯤꯀꯥ
ꯑꯣꯏꯔꯝꯗ꯭ꯔꯦ꯫

ꯃꯤꯆꯝ ꯃꯤꯌꯥꯝꯁꯨ ꯋꯥꯈꯜ ꯇꯥꯕꯗꯤ
ꯆꯨꯝꯃꯕꯅꯤ꯫ ꯑꯦꯝ ꯑꯦꯜ ꯑꯦ ꯂꯣꯀꯦꯜ ꯑꯦꯔꯤꯌꯥ
ꯗꯤꯚꯦꯂꯞꯃꯦꯟꯠ ꯐꯟꯒꯤ ꯆꯍꯤ ꯑꯃꯒꯤ ꯂꯨꯄꯥ
ꯀꯣꯔ 2.5 ꯀꯔꯝꯅ ꯁꯤꯖꯤꯟꯅꯈꯤ ꯍꯥꯏꯕꯁꯤ
ꯀꯥꯅꯁꯨ ꯅꯣꯡꯃꯇ ꯊꯤꯔꯨꯗꯦ꯫ ꯃꯤꯆꯝ ꯃꯤꯌꯥꯝꯒꯤ
ꯄꯩꯁꯥꯗꯨ ꯑꯦꯝ ꯑꯦꯜ ꯑꯦꯅ ꯃꯥꯅ ꯁꯤꯖꯤꯟꯅꯅꯤꯡꯕ
ꯃꯑꯣꯡꯗ ꯁꯤꯖꯤꯟꯅꯩ꯫ ꯑꯦꯝ ꯄꯤꯒꯤꯅ ꯀꯣꯔ
ꯃꯉꯥꯅꯤ꯫ ꯑꯌꯥꯝꯕ ꯁꯦꯟꯐꯝ ꯐꯨꯔꯤꯠꯈꯥꯎꯗ
ꯆꯪꯈꯤꯕ ꯉꯥꯛꯇꯅꯤ꯫ ꯃꯤꯆꯝ ꯃꯤꯌꯥꯝꯅ
ꯁꯦꯜꯁꯤꯡ ꯑꯗꯨ ꯀꯔꯝꯅ ꯁꯤꯖꯤꯟꯅꯈꯤꯕ ꯍꯥꯏꯅ
ꯍꯪꯕ ꯌꯥꯕꯒꯤ ꯍꯛ ꯂꯩ꯫

ꯏꯟꯗꯤꯌꯥꯒꯤ ꯃꯐꯝ ꯈꯔꯗꯗꯤ ꯆꯍꯤꯗꯨꯒꯤ
ꯀꯥꯏꯈꯔꯛꯄ ꯁꯦꯟꯐꯝ ꯑꯗꯨ ꯀꯦꯟꯗ꯭ꯔ
ꯑꯗꯨꯒꯤ ꯃꯐꯝ ꯆꯥꯕ ꯌꯦꯡꯂꯒ ꯄꯩꯁꯥꯁꯤꯡ ꯑꯗꯨ
ꯀꯔꯤꯗ ꯀꯔꯝꯅ ꯁꯤꯖꯤꯟꯅꯒꯗꯒꯦ ꯍꯥꯏꯕꯁꯤ
ꯁꯥꯏꯟ ꯕꯣꯔꯗꯇ ꯆꯥꯎꯅ ꯏꯗꯨꯅ ꯊꯦꯠꯂꯤ ꯍꯥꯏꯅꯩ꯫

ꯑꯦꯝ ꯑꯦꯜ ꯑꯦ ꯂꯣꯀꯦꯜ ꯑꯦꯔꯤꯌꯥ ꯗꯤꯚꯦꯑ-

ꯂꯞꯃꯦꯟꯠ WE ꯑꯁꯤ ꯏꯟꯗꯤꯌꯥꯒꯤ ꯑꯣꯏꯅ
ꯀꯦꯟꯗ꯭ꯔ ꯀꯦꯟꯗ꯭ꯔꯒꯤ ꯃꯥꯟꯅꯗꯦ, ꯀꯦꯟꯗ꯭ꯔ
ꯈꯔꯗꯗꯤ ꯀꯣꯔ ꯃꯔꯤꯐꯥꯎꯕ ꯌꯧꯏ ꯍꯥꯏꯔꯤ꯫

ꯗꯤꯜꯂꯤꯗ ꯍꯥꯏꯔꯤꯕ WE ꯑꯁꯤ ꯁꯤꯖꯤꯟꯅꯕꯒꯤ
ꯃꯇꯥꯡꯗ ꯍꯥꯏ ꯀꯣꯔꯠ ꯐꯥꯎꯕ ꯌꯧꯅꯈꯤꯕꯒꯤ
ꯋꯥꯔꯤ ꯂꯩꯔꯤ꯫ ꯃꯔꯝ ꯑꯗꯨꯅ ꯑꯦꯝ ꯑꯦꯜ ꯑꯦꯅ
ꯀꯦꯟꯗ꯭ꯔ ꯑꯃꯒꯤ ꯆꯥꯎꯈꯠ ꯊꯧꯔꯥꯡꯗ ꯊꯥꯗꯔꯤꯕ
ꯄꯩꯁꯥꯗꯨ ꯃꯥꯒꯤ ꯐꯨꯔꯤꯠꯐꯥꯎꯗꯒꯤ ꯅꯠꯇꯦ ꯍꯥꯏꯕꯁꯤ
ꯃꯤꯆꯝ ꯃꯤꯌꯥꯝꯅ SIWA ꯊꯣꯛꯏ꯫ ꯃꯅꯤꯄꯨꯔꯒꯤ
ꯄꯤꯛꯈ꯭ꯔꯕ ꯀꯦꯟꯗ꯭ꯔꯁꯤꯡꯁꯤꯗꯤ ꯆꯍꯤ
ꯑꯃꯗ ꯀꯣꯔ ꯑꯅꯤ ꯃꯈꯥꯏꯅ ꯁꯦꯝꯒꯠꯂꯗꯤ ꯆꯍꯤ 5
ꯗ ꯄꯨꯝꯂꯪ ꯂꯪꯕꯁꯨ ꯌꯥꯏ꯫

ꯑꯩꯈꯣꯏꯅ ꯑꯉꯥꯡ ꯑꯣꯏꯔꯤꯉꯩꯗꯒꯤ
ꯇꯥꯔꯛꯏ ꯃꯅꯤꯄꯨꯔ ꯇꯝꯄꯥꯛꯀꯤ ꯑꯋꯥꯡ
ꯊꯪꯕ ꯁꯔꯨꯛꯁꯤ ꯍꯤꯔꯝ ꯀꯌꯥꯃꯨꯛꯇ ꯑꯇꯩ
ꯃꯐꯝꯁꯤꯡꯗꯒꯤ ꯁꯣꯠꯊꯩ꯫ ꯃꯗꯨ ꯑꯔꯥꯟꯕ
ꯅꯠꯇꯦ, ꯃꯇꯝ ꯑꯃꯗ ꯔꯤꯛꯥꯣ ꯑꯃꯠꯇ
ꯂꯤꯂꯥꯁꯤꯡꯈꯣꯡꯅꯥꯡꯈꯣꯡ ꯆꯠꯁꯤ ꯍꯥꯏꯕ ꯌꯥꯗꯦ,
ꯊꯧꯕꯥ ꯋꯥꯏ ꯉꯝꯈꯠꯂꯤ ꯍꯥꯏꯗꯨꯅ꯫ ꯉꯁꯤꯁꯨ ꯈꯨꯌ
ꯥꯊꯣꯡꯗꯒꯤ ꯂꯤꯂꯥꯁꯤꯡꯈꯣꯡꯅꯥꯡꯈꯣꯡ ꯐꯥꯎꯕꯒꯤ
ꯂꯝꯕꯤ ꯑꯁꯤ ꯀꯣꯡꯀꯨꯠ ꯑꯔꯨꯕ ꯀꯌꯥꯅ ꯂꯝꯕꯤ
ꯁꯤꯟ ꯊꯨꯡꯂꯦ, ꯀꯣꯡꯀꯨꯠꯁꯤꯡ ꯑꯗꯨ ꯊꯩꯅꯕ
ꯍꯣꯠꯅꯕꯗ ꯀꯥꯔ ꯊꯧꯕ ꯑꯅꯤ ꯌꯩꯁꯤꯟꯅꯈꯤ꯫

ꯁ꯭ꯇꯦꯗꯤꯌꯝ ꯔꯣꯗꯁꯨ ꯆꯞ ꯃꯥꯟꯅꯩ,
ꯂꯝꯂꯣꯡꯗꯩ ꯁꯑꯣꯝꯕꯨꯡ ꯆꯠꯄ ꯂꯝꯕꯤꯁꯨ, ꯑꯋ
ꯥꯡꯂꯝꯒꯤ ꯂꯝꯕꯤꯈꯩ ꯎꯐꯨꯜꯒ ꯀꯣꯡꯀꯨꯠꯀꯅꯤ꯫

ꯃꯈꯥꯔꯣꯝꯗꯗꯤ ꯇꯤꯗꯤꯝ ꯂꯝꯕꯤ, ꯏꯟꯗꯣ
ꯕꯔꯃꯥ ꯔꯣꯗ, ꯎꯔꯤꯄꯣꯛ ꯀꯥꯡꯆꯨꯞ ꯔꯣꯗ,
ꯁꯒꯣꯜꯕꯟ ꯂꯝꯕꯤ ꯂꯣꯏꯅꯅ ꯁꯤꯠꯅꯥꯟꯈ꯭ꯔꯦ꯫

ꯑꯋꯥꯡ ꯂꯝꯁꯤꯕꯨ ꯑꯉꯝ ꯑꯊꯧ, ꯈꯤꯠꯇꯪ
ꯍꯩꯁꯤꯡꯕ, ꯃꯁꯥꯒꯤ ꯑꯣꯏꯖꯕ ꯀꯥ ꯍꯦꯟꯅ
ꯊꯤꯗꯕ ꯄꯣꯂꯤꯇꯤꯀꯦꯜ ꯄꯥꯔꯇꯤ ꯑꯃꯠꯇ
ꯄꯣꯛꯇ꯭ꯔꯕ꯭ꯔ?

ꯑꯗꯣꯝꯒꯤ- ꯊꯤꯡꯀꯣꯟ ꯃꯥꯏꯔꯥꯡꯆ
ꯊꯥꯡꯃꯩꯕꯟ, ꯂꯤꯂꯥꯁꯤꯡꯈꯣꯡꯅꯥꯡꯈꯣꯡ
ꯑꯉꯛꯄ ꯄꯣꯠꯁꯛ ꯑꯣꯏꯔꯝꯕ
ꯃꯌꯥꯏ ꯀꯥꯕ ꯆꯤꯟꯖꯥꯛ ꯊꯤꯡꯕ
ꯏꯂꯦꯛꯁꯟ ꯀꯃꯤꯁꯟꯒꯤ ꯌꯥꯊꯪ ꯊꯕꯛꯇ ꯑꯣꯟꯊꯣꯛꯄ ꯉꯝꯗ꯭ꯔꯤ
ꯃꯤꯑꯣꯏꯕꯅ ꯁꯤꯖꯤꯟꯅꯅꯕ ꯁꯨꯡꯕ ꯑꯣꯏꯕꯅ ꯌꯨ ꯊꯤꯡꯕ ꯍꯥꯏꯕꯁꯤ ꯄꯥꯛ ꯍꯦꯛ ꯃꯥꯏ ꯄꯥꯛꯄ ꯉꯝꯗꯕ ꯊꯧꯁꯤꯜ ꯑꯃꯅꯤ꯫ ꯌꯨ ꯌꯣꯟꯕ ꯊꯤꯡꯂꯦ ꯍꯥꯏꯅ ꯅꯣꯇꯤꯁ
ꯊꯦꯠꯂꯤꯕ ꯃꯐꯝ ꯑꯗꯨꯋꯥꯏꯗ ꯑꯗꯨꯃꯛ ꯌꯨ ꯐꯪꯂꯝꯒꯅꯤ ꯍꯥꯏꯕꯁꯤ ꯃꯌꯥꯏ ꯀꯥꯕ ꯆꯤꯟꯖꯥꯛ ꯊꯛ
ꯆꯥꯕ ꯃꯤꯁꯤꯡꯅ TSI ꯈꯪꯅꯔꯕ ꯋꯥꯐꯝꯅꯤ꯫ ꯃꯅꯤꯄꯨꯔꯗꯁꯨ ꯌꯥꯝꯅ ꯉꯜꯂꯤꯉꯩ ꯃꯇꯝꯗꯒꯤ ꯍꯧꯅ
ꯅꯤꯁꯥ ꯕꯟꯗꯤ ꯍꯥꯏꯗꯨꯅ ꯅꯨꯄꯤ ꯀꯥꯡꯕꯨ ꯑꯃꯅ ꯌꯨ ꯊꯤꯡꯕꯒꯤ ꯊꯕꯛ ꯇꯧꯔꯝꯃꯤ꯫ ꯑꯁꯨꯝꯅ ꯌꯨ
ꯌꯣꯟꯕ ꯊꯤꯡꯕꯒꯤ ꯈꯣꯡꯖꯪ ꯄꯥꯛ ꯁꯟꯅ ꯆꯪꯁꯤꯟꯕ ꯍꯧꯅꯈ꯭ꯔꯕ ꯇꯨꯡꯗ ꯌꯨ ꯌꯣꯟꯕꯒꯤ ꯊꯕꯛ
ꯇꯧꯔꯝꯕ ꯏꯃꯥ ꯏꯕꯦꯟꯁꯤꯡꯅ ꯃꯤꯑꯣꯏꯕꯒꯤ WIWA ꯊꯣꯛꯄꯁꯤꯡ ꯀꯟꯕꯔꯣꯝꯗ ꯃꯤꯠꯌꯦꯡ
ꯆꯪꯂꯛꯇꯨꯅ ꯃꯩꯔꯥ ꯄꯥꯏꯕꯤ ꯍꯥꯏꯅ ꯃꯃꯤꯡ ꯑꯣꯟꯊꯣꯔꯛꯈꯤ꯫ ꯀꯨꯝꯖꯥ 1990 ꯒꯤ ꯑꯗꯨꯋꯥꯏꯗ
ꯂꯥꯜꯍꯧꯂꯨꯞ ꯑꯃꯅ ꯃꯅꯤꯄꯨꯔꯗ ꯌꯨ ꯌꯣꯟꯕ ꯑꯃꯁꯨꯡ ꯊꯛꯄ ꯊꯤꯡꯕ ꯍꯧꯔꯛꯈꯤ꯫ ꯈꯣꯡꯖꯪ
ꯑꯁꯤ ꯀꯌꯥꯃꯨꯛ ꯌꯥꯝꯅ ꯀꯟꯁꯤꯟꯅ ꯆꯠꯊꯔꯝꯕꯒꯦ ꯍꯥꯏꯕꯕꯨ ꯃꯌꯥꯏ ꯀꯥꯕ ꯆꯤꯟꯖꯥꯛ
ꯊꯤꯡꯅꯅꯕ ꯍꯣꯠꯅꯕꯗ ꯃꯤꯑꯣꯏ ꯀꯌꯥ ꯅꯣꯡꯃꯩꯅ ꯀꯥꯞꯇꯨꯅ ꯋꯥꯔꯛꯈꯤ, ꯀꯌꯥꯅ ꯁꯤꯕꯒꯤ
ꯆꯩꯔꯥꯛ ꯄꯤꯈꯤ꯫ ꯃꯇꯝ ꯑꯗꯨꯒ ꯏꯀꯥꯟ ꯀꯥꯟꯅꯗꯅ ꯂꯩꯈꯤꯗ꯭ꯔꯕ ꯑꯥꯔ ꯀꯦ ꯔꯟꯕꯤꯔꯅ
ꯂꯨꯆꯤꯡꯂꯝꯕ ꯒꯚꯔꯟꯃꯦꯟꯠ ꯑꯗꯨꯅ ꯃꯅꯤꯄꯨꯔ ꯗ꯭ꯔꯥꯏ ꯁ꯭ꯇꯦꯠ ꯑꯣꯏꯍꯟꯅꯕ ꯋꯥꯔꯦꯞ ꯂꯧꯈꯤ꯫

ꯃꯇꯝꯗꯨꯗꯒꯤ ꯍꯧꯅ ꯑꯦꯛꯁꯥꯏꯖꯗ ꯀꯥꯔꯛꯂꯝꯕ ꯌꯥꯝꯂꯕ ꯔꯦꯚꯤꯅ꯭ꯌꯨꯁꯤꯡ ꯀꯥꯔꯛꯈꯤꯗ꯭ꯔꯦ꯫

ꯍꯧꯖꯤꯛꯇꯤ ꯑꯦꯛꯁꯥꯏꯖ ꯗꯤꯄꯥꯔꯠꯃꯦꯟꯠ ꯍꯥꯏꯕꯁꯤ ꯔꯤꯁꯣꯔꯁꯀꯤ ꯁꯔꯨꯛ ꯑꯃ ꯑꯣꯏꯗ꯭ꯔꯦ,
ꯈꯨꯟꯅꯥꯏꯒꯤ ꯑꯐꯕ ꯂꯝꯕꯤꯗ ꯂꯝꯖꯤꯡꯒꯗꯕ ꯌꯨꯅꯤꯐꯣꯝ ꯁꯦꯠꯄ ꯀꯥꯡꯕꯨ ꯑꯣꯏꯔꯛꯈꯤ꯫

ꯃꯅꯤꯄꯨꯔ ꯂꯩꯉꯥꯛꯅꯁꯨ, ꯂꯥꯜꯍꯧꯂꯨꯞꯁꯤꯡꯅꯁꯨ, ꯃꯩꯔꯥ ꯄꯥꯏꯕꯤꯁꯤꯡꯅꯁꯨ ꯑꯃꯁꯨꯡ ꯂꯟꯅꯥꯏ
ꯂꯨꯞ ꯀꯌꯥꯅ ꯂꯩꯂꯀꯥꯏ ꯂꯩꯀꯥꯏꯗ ꯌꯨ ꯑꯃꯗꯤ ꯃꯌꯥꯏ ꯀꯥꯕ ꯆꯤꯟꯖꯥꯛ ꯌꯣꯟꯕ, ꯁꯤꯖꯤꯟꯅꯕ
ꯊꯤꯡꯖꯔꯕꯁꯨ ꯍꯧꯖꯤꯛ ꯐꯥꯎꯕ ꯁ꯭ꯇꯦꯠ ꯑꯁꯤꯗ ꯗ꯭ꯔꯥꯏ ꯁ꯭ꯇꯦꯠ ꯑꯃ ꯑꯣꯏꯕꯒꯤ ꯃꯑꯣꯡ ꯃꯇꯧ
ꯎꯕ ꯐꯪꯗ꯭ꯔꯤ꯫ ꯂꯩꯀꯥꯏ ꯑꯌꯥꯝꯕꯗ ꯐꯣꯡꯅ ꯌꯨ ꯌꯣꯟꯅꯔꯤ꯫ ꯑꯦꯝ ꯑꯥꯔꯒꯤ, ꯑꯥꯏ ꯑꯥꯔ ꯕꯤꯒꯤ,
ꯑꯥꯔꯃꯤꯒꯤ ꯑꯃꯁꯨꯡ ꯑꯁꯥꯝ ꯔꯥꯏꯐꯜꯁꯅꯆꯤꯡꯕ ꯐꯣꯔꯁꯤꯡꯒꯤ ꯀꯦꯟꯗꯤꯗꯦꯠ ꯐꯣꯡꯅ \

ꯨꯉꯥꯡ ꯌꯣꯜꯂꯤ ꯑꯃꯁꯨꯡ ꯃꯤꯌꯥꯝꯅ ꯑꯄꯥꯝꯕ ꯃꯑꯣꯡꯗ ꯂꯩꯔꯒ ꯁꯤꯖꯤꯟꯅꯩ꯫ ꯃꯁꯤꯗꯁꯨ ꯅꯠꯇꯅ
ꯂꯟꯅꯥꯏ ꯂꯂꯣꯟꯕ ꯈꯔꯅꯁꯨ ꯈ꯭ꯋꯥꯏꯔꯝꯕꯟꯗ ꯀꯩꯊꯦꯜ ꯃꯅꯨꯡꯗ ꯌꯨꯉꯧ ꯑꯃꯁꯨꯡ ꯌꯨꯉꯥꯡꯁꯤꯡ
ꯌꯣꯜꯂꯤ꯫ ꯇꯔꯥꯃꯥꯊꯣꯏꯁꯨꯕ ꯃꯅꯤꯄꯨꯔ ꯂꯦꯖꯤꯁꯂꯦꯇꯤꯕ ꯑꯦꯁꯦꯝꯕ꯭ꯂꯤꯒꯤ ꯃꯤꯈꯜꯒꯖꯤ
ꯃꯇꯝ ꯂꯥꯛꯂꯤꯕ ꯃꯥꯔꯆ 4 ꯑꯃꯁꯨꯡ 8 ꯗ ꯇꯥꯡꯀꯛ ꯑꯅꯤ ꯊꯣꯛꯅ ꯄꯥꯡꯊꯣꯛꯀꯅꯤ ꯍꯥꯏꯅ
ꯏꯂꯦꯛꯁꯟ ꯀꯃꯤꯁꯟ ꯑꯣꯐ ꯏꯟꯗꯤꯌꯥ (ꯏ ꯁꯤ ꯑꯥꯏ) ꯅ ꯂꯥꯎꯊꯣꯛꯈ꯭ꯔꯦ꯫ ꯏꯂꯦꯛꯁꯟꯒꯤ
ꯃꯇꯝ ꯂꯥꯎꯊꯣꯛꯈꯤꯕ ꯅꯨꯃꯤꯠ ꯑꯗꯨꯃꯛꯇꯗꯒꯤ ꯃꯅꯤꯄꯨꯔꯗ ꯃꯣꯗꯦꯜ ꯀꯣꯗ ꯑꯣꯐ ꯀꯟꯗꯛꯁꯨ
ꯆꯠꯅꯕ ꯍꯧꯈ꯭ꯔꯦ꯫ ꯃꯣꯗꯦꯜ ꯀꯣꯗ ꯑꯣꯐ ꯀꯟꯗꯛ ꯆꯠꯅꯗ꯭ꯔꯤꯉꯩ ꯃꯥꯡꯑꯣꯏꯅꯅ ꯀꯃꯤꯁꯟꯅ
ꯃꯤꯈꯜ ꯄꯥꯡꯊꯣꯛꯀꯗꯧꯔꯤꯕ ꯁ꯭ꯇꯦꯠ ꯈꯨꯗꯤꯡꯃꯛꯇ ꯃꯊꯧ ꯇꯧꯔꯤꯕ ꯄꯨꯂꯤꯁ ꯑꯃꯁꯨꯡ
ꯑꯦꯛꯁꯥꯏꯖ ꯗꯤꯄꯥꯔꯠꯃꯦꯟꯠꯀꯤ ꯃꯀꯣꯛꯁꯤꯡꯗ ꯈꯪꯍꯜꯂꯛꯈꯤ꯫ ꯏꯂꯦꯛꯁꯟ ꯀꯃꯤꯁꯟꯒꯤ
ꯌꯥꯊꯪ ꯑꯁꯤ ꯃꯤꯈꯜ ꯄꯥꯡꯊꯣꯛꯀꯗꯧꯔꯤꯕ ꯁ꯭ꯇꯦꯠꯁꯤꯡ ꯑꯁꯤꯗ ꯃꯌꯥꯏ ꯀꯥꯕ ꯆꯤꯟꯖꯥꯛ ꯆꯥꯁꯤꯟ
ꯊꯛꯆꯤꯜꯂꯒ ꯄꯥꯝꯗꯕ ꯊꯧꯗꯣꯛ ꯊꯣꯛꯂꯛꯄ ꯊꯤꯡꯅꯕꯒꯤꯗꯃꯛꯇꯅꯤ꯫ ꯀꯃꯤꯁꯟꯒꯤ ꯌꯥꯊꯪ
ꯑꯁꯤ ꯃꯅꯤꯄꯨꯔ ꯄꯨꯂꯤꯁ ꯑꯃꯁꯨꯡ ꯑꯦꯛꯁꯥꯏꯖ ꯗꯤꯄꯥꯔꯠꯃꯦꯟꯠꯅ ꯊꯕꯛꯇ ꯑꯣꯟꯊꯣꯛꯄ
ꯍꯧꯈ꯭ꯔꯦ꯫ ꯇꯦꯜꯂꯕ ꯃꯇꯝ ꯈꯔꯁꯤꯗ ꯃꯐꯝ ꯀꯌꯥꯗꯒꯤ ꯂꯨꯄꯥ ꯂꯥꯈ ꯀꯌꯥꯒꯤ ꯌꯨꯉꯥꯡ ꯑꯃꯁꯨꯡ
ꯌꯨꯉꯧꯁꯤꯡ ꯐꯥꯈ꯭ꯔꯦ꯫ ꯃꯁꯤꯗꯁꯨ ꯅꯠꯇꯅ ꯃꯤꯑꯣꯏꯕ ꯈꯨꯟꯅꯥꯏꯕꯨ ꯃꯔꯨ ꯐꯪꯅ ꯃꯥꯡꯍꯟꯕ ꯉꯝꯕ
ꯑꯦꯁ ꯄꯤ ꯀꯦꯞꯁꯨꯜ, ꯑꯦꯟ ꯇꯦꯟ ꯇꯦꯕ꯭ꯂꯦꯠ ꯑꯃꯁꯨꯡ ꯗꯕ꯭ꯂꯤꯌꯨ ꯋꯥꯏ ꯇꯦꯕ꯭ꯂꯦꯠ ꯀꯌꯥꯃꯔꯨꯝꯁꯨ
ꯐꯥꯒꯠꯈ꯭ꯔꯦ꯫ ꯐꯥꯒꯠꯈꯤꯕ ꯃꯌꯥꯏ ꯀꯥꯕ ꯄꯣꯠꯂꯝꯁꯤꯡ ꯑꯁꯤ ꯆꯥꯎꯔꯥꯛꯅ ꯂꯨꯄꯥ ꯀ꯭ꯔꯣꯔ 2 ꯒꯤ
ꯃꯊꯛꯇ ꯑꯣꯏꯒꯅꯤ ꯍꯥꯏꯅ ꯄꯥꯅꯔꯤ꯫ ꯑꯗꯨꯕꯨ ꯂꯨꯔꯤꯕ ꯋꯥꯍꯪꯗꯤ ꯄꯨꯂꯤꯁ ꯑꯃꯁꯨꯡ ꯑꯦꯛꯁꯥꯏꯖ
ꯗꯤꯄꯥꯔꯠꯃꯦꯟꯠꯅ ꯂꯧꯈꯠꯂꯤꯕ ꯊꯕꯛ ꯑꯁꯤꯅ ꯁ꯭ꯇꯦꯠ ꯑꯁꯤꯗꯒꯤ ꯃꯌꯥꯏ ꯀꯥꯕ ꯆꯤꯟꯖꯥꯛ
ꯄꯨꯝꯟꯃꯛ ꯐꯥꯒꯠꯄ ꯉꯝꯂꯒꯗ꯭ꯔ ꯅꯠꯇ꯭ꯔꯒ ꯊꯤꯡꯕ ꯉꯝꯂꯒꯗ꯭ꯔ ꯍꯥꯏꯕꯁꯤꯅꯤ꯫ ꯗ꯭ꯔꯥꯏ
ꯁ꯭ꯇꯦꯠꯅꯤ ꯍꯥꯏꯅ ꯂꯥꯎꯊꯣꯛꯂꯕ ꯃꯅꯤꯄꯨꯔꯗ ꯀꯝꯗꯧꯅ ꯃꯌꯥꯏ ꯀꯥꯕ ꯆꯤꯟꯖꯥꯛꯁꯤꯡ \

ꯣꯜꯂꯝꯂꯤꯕꯅꯣ ꯍꯥꯏꯕꯗꯒꯤ ꯍꯧꯔꯒ ꯏꯂꯦꯛꯁꯟ ꯀꯃꯤꯁꯟꯒꯤ ꯌꯥꯊꯪ ꯅꯠꯇ꯭ꯔꯕꯗꯤ ꯑꯁꯤꯒꯨꯝꯕ
ꯃꯈꯜꯒꯤ ꯃꯌꯥꯏ ꯀꯥꯕ ꯆꯤꯟꯖꯥꯛꯁꯤꯡ ꯑꯁꯤ ꯌꯣꯟꯕ ꯊꯤꯡꯅꯅꯕꯒꯤ ꯊꯕꯛ ꯑꯃꯠꯇ
ꯄꯥꯏꯈꯠꯄ ꯉꯝꯗ꯭ꯔꯤꯕꯁꯤ ꯀꯔꯤꯒꯤꯅꯣ ꯍꯥꯏꯕ ꯋꯥꯍꯪ ꯑꯃꯁꯨ ꯍꯪꯕ ꯌꯥꯏ꯫ ꯃꯇꯥꯡ ꯑꯁꯤꯗ
ꯄꯟꯖꯅꯤꯡꯕ ꯋꯥꯐꯝꯗꯤ ꯃꯤꯈꯜꯗ ꯃꯌꯥꯏ ꯀꯥꯕ ꯆꯤꯟꯖꯥꯛ ꯆꯥꯁꯤꯟ ꯊꯛꯆꯤꯜꯂꯒ ꯃꯊꯣꯡ ꯆꯥꯗꯕ
ꯊꯕꯛ ꯇꯧꯔꯛꯄ ꯊꯤꯡꯅꯅꯕ ꯊꯧꯁꯤꯜ ꯃꯥꯏ ꯄꯥꯛꯍꯟꯒꯦ ꯅꯠꯇ꯭ꯔꯒ ꯄꯥꯛꯍꯜꯂꯣꯏ ꯍꯥꯏꯕꯁꯤ
ꯄꯨꯂꯤꯁ ꯑꯃꯁꯨꯡ ꯑꯦꯛꯁꯥꯏꯖ ꯗꯤꯄꯥꯔꯠꯃꯦꯟꯠꯀꯤ ꯄꯥꯔꯁꯅꯦꯜꯁꯤꯡꯒꯤ ꯈꯨꯠꯇ ꯂꯩ꯫

ꯀꯗꯥꯏꯗ ꯌꯨ ꯌꯣꯜꯂꯤ, ꯀꯅꯥꯅ ꯌꯣꯜꯂꯤ, ꯀꯗꯥꯏꯋꯥꯏꯗ ꯃꯌꯥꯏ ꯀꯥꯕ ꯇꯦꯕ꯭ꯂꯦꯠ/ ꯀꯦꯞꯁꯨꯜ ꯐꯪꯕꯒꯦ
ꯍꯥꯏꯕ ꯄꯨꯂꯤꯁ ꯑꯃꯁꯨꯡ ꯑꯦꯛꯁꯥꯏꯖꯒꯤ ꯄꯥꯔꯁꯅꯦꯂꯁꯤꯡꯅꯡ SIWA ꯊꯣꯛꯏ꯫ ꯃꯈꯣꯏꯅ ꯊꯥꯒꯤ
ꯑꯣꯏꯅ ꯅꯠꯇ꯭ꯔꯒ ꯅꯣꯡꯃꯒꯤ ꯑꯣꯏꯅ ꯌꯨ ꯌꯣꯟꯕꯁꯤꯡꯗꯒꯤ ꯂꯧꯈꯠꯂꯤꯕ ꯂꯣꯅ ꯌꯥꯗꯕ ꯇꯦꯛꯁꯤꯡ
ꯍꯥꯟꯅ ꯇꯣꯛꯄ ꯇꯥꯏ꯫ ꯑꯆꯥꯟ ꯃꯤꯔꯥꯏ ꯅꯥꯏꯗꯅ ꯃꯌꯥꯏ ꯀꯥꯕ ꯆꯤꯟꯖꯥꯛ ꯌꯣꯟꯕꯁꯤꯡ ꯐꯥꯒꯠꯄ ꯇꯥꯏ꯫

ꯃꯗꯨ ꯅꯠꯇꯅ ꯃꯃꯤꯡꯈꯛꯀꯤ ꯑꯣꯏꯅ ꯃꯤꯌꯥꯝꯒꯤ ꯃꯤꯠꯇ BG ꯆꯥꯏꯅꯅꯕ ꯊꯕꯛ ꯈꯔ ꯇꯧꯕꯅꯗꯤ
ꯏꯂꯦꯛꯁꯟ ꯀꯃꯤꯁꯟꯒꯤ ꯄꯥꯟꯗꯝ ꯐꯪꯕ ꯉꯝꯂꯣꯏ ꯍꯥꯏꯖꯅꯤꯡꯏ꯫

ꯑꯉꯟꯐꯧꯒꯤ ꯐꯧꯗꯤ ꯄꯨꯊꯣꯛꯄ
ꯃꯔꯨ ꯍꯥꯏꯕꯁꯤ ꯂꯩꯔꯝꯗ꯭ꯔꯕꯗꯤ ꯄꯥꯝꯕꯤ ꯑꯃꯠꯇꯁꯨ ꯍꯧꯔꯝꯂꯣꯏ꯫

ꯇꯥꯏꯕꯪ ꯃꯄꯨꯅ ꯄꯥꯝꯕꯤꯁꯤꯡꯒꯤ ꯃꯥꯒꯤ ꯃꯥꯒꯤ ꯆꯥꯗ ꯅꯥꯎꯗꯥ ꯃꯨꯠꯈꯤꯗꯅꯕ
ꯃꯔꯨ ꯁꯦꯝꯕꯤꯗꯨꯅ ꯄꯥꯜꯍꯜꯂꯝꯃꯤ꯫ ꯂꯧꯎ ꯁꯤꯡꯎꯒꯤ ꯂꯣꯟꯗ ꯊꯥꯅꯅꯕ
ꯁꯤꯖꯤꯟꯅꯔꯤꯕ ꯈꯨꯗꯤꯡꯃꯛ ꯃꯔꯨꯅꯤ ꯍꯥꯏꯅ ꯂꯧꯏ꯫ ꯈꯨꯗꯝ ꯑꯣꯏ ꯐꯧꯒꯤ
ꯃꯔꯨ, ꯄꯥꯟꯒꯤ, ꯁꯤꯡꯒꯤ, ꯌꯥꯏꯉꯪꯒꯤ ꯃꯅꯥꯎ, ꯃꯃꯤꯠ ꯌꯥꯎꯕ ꯆꯨꯒꯖꯤ
ꯃꯇꯥꯡ ꯈꯨꯗꯤꯡꯃꯛ ꯃꯔꯨꯅꯤ꯫ ꯋꯥꯈꯜꯂꯣꯟ ꯑꯁꯤꯁꯨ ꯑꯗꯨꯃꯛ ꯆꯨꯝꯗꯨꯅ
ꯂꯩꯈꯤꯒꯅꯤ ꯑꯗꯨꯕꯨ ꯍꯧꯖꯤꯛꯀꯤ ꯃꯇꯝꯗꯗꯤ ꯃꯔꯨ (ꯁꯤꯗ) ꯈꯛꯇꯃꯛ
ꯍꯥꯏꯕꯒꯤ ꯃꯍꯨꯠꯇ ꯄ꯭ꯂꯥꯟꯇꯤꯡ ꯃꯦꯇꯔꯤꯑꯦꯜ ꯍꯥꯏꯕ ꯋꯥꯍꯩ ꯑꯃ
ꯊꯦꯠꯆꯤꯟꯗꯨꯅ ꯁꯤꯗ ꯑꯦꯟꯗ ꯄ꯭ꯂꯥꯟꯇꯤꯡ ꯃꯦꯇꯔꯤꯑꯦꯜ ꯍꯥꯏꯕꯁꯤꯅ
ꯍꯦꯟꯅ ꯆꯨꯝꯕ ꯑꯣꯏꯅ ꯍꯥꯏꯔꯛꯂꯤ꯫ ꯑꯁꯦꯡꯕ ꯃꯔꯨ, ꯍꯥꯏꯕꯗꯤ ꯄꯥꯝꯕꯤꯗ
ꯁꯥꯔꯤꯕ ꯃꯄꯥꯟꯗꯒꯤ ꯃꯍꯩ ꯌꯥꯟꯗꯨꯅ ꯄꯥꯜꯂꯛꯄ ꯃꯍꯩꯗꯨꯗ ꯌꯥꯎꯕ ꯃꯔꯨ,
ꯑꯑꯗꯨꯒ ꯄ꯭ꯂꯥꯟꯇꯤꯡ ꯃꯦꯇꯔꯤꯑꯦꯜ ꯍꯥꯏꯔꯒꯅ ꯑꯇꯣꯞꯄ ꯄꯥꯝꯕꯤꯒꯤ
ꯊꯥꯅꯅꯕ ꯁꯤꯖꯤꯟꯅꯔꯤꯕ ꯁꯔꯨꯛꯁꯤꯡ ꯑꯁꯤꯕꯨ ꯇꯣꯉꯥꯟꯛꯕ ꯃꯑꯣꯡꯗ
ꯈꯪꯅꯅꯕ ꯍꯣꯠꯅꯔꯛꯂꯤ꯫ ꯑꯃꯕꯨ ꯑꯣꯏꯔꯕꯁꯨ ꯑꯃꯕꯨ ꯑꯣꯏꯔꯕꯁꯨ ꯃꯔꯨ
ꯍꯥꯏꯕꯁꯤ ꯂꯩꯔꯝꯗ꯭ꯔꯕꯗꯤ ꯂꯧꯎ ꯁꯤꯡꯨꯕꯁꯨ ꯂꯩꯔꯝꯂꯣꯏ꯫ ꯃꯔꯨ ꯍꯥꯏꯕꯁꯤ
ꯂꯧꯎ ꯁꯤꯡꯎꯒꯤ ꯀꯥꯡꯂꯣꯟ ꯀꯌꯥꯕꯨ ꯃꯥꯡꯗ ꯄꯨꯗꯨꯅ ꯆꯠꯂꯤꯕ ꯒꯥꯔꯤꯅꯤ
ꯍꯥꯏꯅꯔꯤꯕꯅꯤ꯫

ꯑꯃꯔꯣꯝꯗ ꯑꯃꯨꯛ ꯆꯥꯅꯅꯕ ꯊꯝꯂꯤꯕ ꯃꯍꯩ ꯃꯔꯣꯡꯒ, ꯊꯥꯅꯅꯕ
ꯊꯝꯂꯤꯕ ꯑꯗꯨꯒ ꯑꯅꯤꯒꯤ ꯈꯦꯟꯅꯕ ꯂꯩ ꯍꯥꯏꯕꯁꯤ ꯈꯪꯕꯁꯨ ꯃꯔꯨꯑꯣꯏ꯫

ꯏꯄꯥ ꯏꯄꯨꯁꯤꯡꯅ ꯌꯥꯝꯅ ꯆꯨꯝꯅ ꯊꯥꯅꯅꯕ ꯐꯧꯕꯨ ꯐꯧꯗꯤ ꯀꯧꯅꯔꯝꯂꯤꯕꯁꯤꯒꯤ
ꯋꯥꯍꯟꯊꯣꯛ ꯌꯥꯝꯅ ꯂꯩ꯫ ꯐꯧꯗꯤꯒꯤ ꯃꯒꯨꯟ ꯃꯈꯣꯏꯅ ꯈꯪꯂꯝꯃꯤ ꯍꯥꯏꯕ \

ꯥꯏ꯫ ꯑꯈꯪ ꯑꯍꯩ ꯀꯌꯥꯅ ꯃꯔꯨ ꯍꯥꯏꯕꯁꯤ ꯂꯧꯎ ꯁꯤꯡꯎꯕꯒꯤ ꯊꯕꯛꯄꯨ
ꯃꯥꯡꯗ ꯄꯨꯗꯨꯅ ꯆꯠꯂꯤꯕ ꯒꯥꯔꯤ ꯑꯃꯅꯤ ꯍꯥꯏꯔꯤꯕ ꯑꯁꯤꯃꯁꯨ ꯌꯥꯝꯅ
ꯆꯨꯝꯂꯕ ꯋꯥꯐꯝ ꯑꯃ ꯑꯣꯏꯔꯤꯕꯅꯤ꯫ ꯍꯥꯏꯔꯤꯕ ꯒꯥꯔꯤ ꯑꯁꯤꯅ ꯂꯦꯞꯈꯤꯕ
ꯃꯇꯝꯗ ꯂꯧꯎ ꯁꯤꯡꯎꯕꯁꯨ ꯂꯦꯞꯈꯤꯒꯗꯧꯔꯤꯕꯅꯤ꯫ ꯒꯥꯔꯤ ꯑꯁꯤꯕꯨ ꯃꯁꯥ
ꯁꯦꯡꯅ ꯑꯁꯣꯏ ꯑꯉꯥꯝ ꯌꯥꯎꯍꯟꯗꯅ ꯊꯝꯕꯒ ꯂꯣꯏꯅꯅ ꯗ꯭ꯔꯥꯏꯚꯔ
ꯑꯣꯏꯒꯗꯧꯔꯤꯕ ꯃꯤꯑꯣꯏ ꯑꯗꯨꯕꯨ ꯒꯥꯔꯤ ꯊꯧꯕ ꯌꯥꯝꯅ ꯍꯩꯕ ꯃꯊꯧ ꯇꯥꯏ꯫

ꯑꯍꯥꯟꯕꯒꯤꯁꯤꯅ ꯑꯈꯪ ꯑꯍꯩꯁꯤꯡꯅ ꯄꯥꯡꯊꯣꯛꯀꯗꯕꯅꯤ ꯑꯀꯣꯟꯕꯒꯤ
ꯊꯧꯒꯗꯧꯔꯤꯕꯁꯤꯅ ꯂꯧꯃꯤ ꯏꯆꯤꯟ ꯏꯅꯥꯎꯁꯤꯡꯅꯤ꯫ ꯂꯣꯏꯅꯅ ꯒꯥꯔꯤꯗꯨꯅ
ꯆꯠꯅꯅꯕ ꯂꯝꯕꯤ ꯑꯗꯨꯕꯨꯁꯨ ꯃꯇꯤꯛ ꯆꯥꯅ ꯐꯅ ꯊꯝꯕ ꯍꯥꯏꯕꯁꯤꯃꯁꯨ ꯌꯥꯝꯅ
ꯃꯔꯨꯑꯣꯏ꯫ ꯅꯠꯇ꯭ꯔꯕꯗꯤ ꯂꯧꯎ ꯁꯤꯡꯎꯕ ꯍꯥꯏꯔꯤꯕ ꯌꯥꯝꯅ ꯃꯔꯨꯑꯣꯏꯕ
ꯊꯕꯛ ꯑꯁꯤ ꯈꯨꯃꯥꯡ ꯆꯥꯎꯁꯤꯟꯕ ꯉꯝꯂꯣꯏꯗꯧꯔꯤꯕꯅꯤ꯫ ꯍꯥꯏꯕꯗꯤ ꯏꯊꯩ
ꯂꯧꯈꯣꯡ ꯐꯠꯇ꯭ꯔꯕ, ꯍꯥꯔ ꯃꯇꯝ ꯆꯥꯅ, ꯃꯇꯤꯛ ꯆꯥꯅ ꯐꯪꯗ꯭ꯔꯕ, ꯂꯩꯉꯥꯛꯀꯤ
ꯊꯧꯔꯝ (ꯄ꯭ꯔꯣꯒ꯭ꯔꯥꯝ) ꯀꯌꯥ ꯄꯨꯛꯆꯦꯜ ꯁꯦꯡꯅ ꯄꯥꯏꯈꯠꯇ꯭ꯔꯕ ꯂꯧꯎ
ꯁꯤꯡꯎ ꯃꯄꯨꯡ ꯐꯥꯅ ꯆꯥꯎꯈꯠꯄ ꯉꯝꯂꯣꯏ ꯍꯥꯏꯕꯅꯤ꯫ ꯃꯁꯤꯃꯗꯤ
ꯂꯩꯉꯥꯛꯀꯤ ꯃꯊꯧꯅꯤ꯫ ꯃꯁꯤꯅ ꯈꯨꯃꯥꯡ ꯆꯥꯎꯁꯤꯟꯗ꯭ꯔꯕꯗꯤ ꯑꯩꯈꯣꯏꯒꯤ
ꯈꯨꯟꯅꯥꯏ ꯑꯁꯤ ꯆꯥꯎꯈꯠꯄ ꯊꯤꯟꯒꯗꯧꯔꯤꯕꯅꯤ꯫ ꯑꯐꯕ ꯃꯔꯨꯒꯤ ꯀꯥꯟꯅꯕ
ꯃꯊꯧꯁꯤꯡ ꯑꯗꯨꯗꯤ ꯄꯨꯝꯅꯃꯛꯅ ꯍꯦꯟꯅ ꯈꯪꯅꯔꯕ ꯋꯥꯐꯝꯅꯤ꯫ ꯁꯝꯅ
ꯊꯝꯖꯔꯕꯗ ꯑꯐꯕ ꯃꯔꯨꯅ ꯊꯥꯕꯅ ꯐꯠꯇꯕ ꯃꯔꯨꯅ ꯊꯥꯕꯗꯒꯤ ꯆꯥꯠꯊꯣꯛ
ꯍꯦꯜꯂꯤ ꯍꯥꯏꯕꯁꯤꯅꯤ꯫

ꯄꯨꯝꯅꯛꯁꯤꯡ ꯑꯁꯤ ꯂꯩꯕꯅ ꯑꯐꯕ ꯃꯔꯨ ꯄꯨꯊꯣꯛꯄ ꯍꯥꯏꯕꯁꯤ \

ꯥꯝꯅ ꯃꯔꯨꯑꯣꯏꯕ ꯋꯥꯐꯝ ꯑꯃ ꯑꯣꯏ ꯍꯥꯏꯖꯕꯅꯤ꯫ ꯑꯗꯨꯕꯨ ꯌꯥꯝꯅ ꯂꯨꯔꯤꯕꯗꯤ
ꯑꯐꯕ ꯃꯔꯨ ꯀꯅꯥꯅ ꯄꯨꯊꯣꯛꯀꯅꯤ ꯍꯥꯏꯕꯁꯤꯅꯤ꯫ ꯂꯩꯉꯥꯛꯀꯤ ꯑꯣꯏꯕ ꯑꯐꯕ
ꯃꯔꯨ ꯄꯨꯊꯣꯛꯅꯕ ꯂꯝ ꯌꯥꯝꯅ ꯂꯩꯖꯗꯦ, ꯃꯁꯤꯗꯤ ꯂꯧꯃꯤ ꯑꯣꯏꯔꯤꯕ ꯑꯩꯈꯣꯏ
ꯄꯨꯝꯟꯃꯛꯀꯤ ꯊꯧꯗꯥꯡꯅꯤ꯫ ꯀꯅꯥꯒꯨꯝꯕ ꯊꯋꯥꯏ ꯌꯥꯎꯕ ꯃꯤꯑꯣꯏꯁꯤꯡꯅ
ꯃꯁꯤꯕꯨ ꯁꯤꯟꯐꯝ ꯑꯣꯏꯅ ꯃꯥꯏ ꯑꯣꯟꯁꯤꯟꯗꯨꯅ ꯍꯣꯠꯅꯔꯕꯗꯤ ꯑꯆꯧꯕ
ꯀꯥꯔꯕꯥꯔ ꯑꯃ ꯑꯣꯏꯕꯁꯨ ꯌꯥꯏ꯫ ꯂꯣꯏꯅꯅ ꯃꯤꯌꯥꯝꯒꯤꯗꯃꯛ ꯌꯥꯏꯐꯅꯕ
ꯑꯆꯧꯕ ꯊꯧꯗꯥꯡ ꯑꯃꯁꯨ ꯂꯧꯕꯤꯒꯗꯧꯔꯤꯕꯅꯤ꯫

ꯉꯁꯤꯒꯤ ꯑꯣꯏꯅꯗꯤ ꯑꯉꯟꯐꯧꯒꯤ ꯑꯣꯏꯅ ꯀꯔꯝꯅ ꯐꯧꯗꯤ
ꯄꯨꯊꯣꯛꯀꯅꯤ ꯍꯥꯏꯕ ꯋꯥꯐꯝ ꯈꯔ ꯊꯝꯖꯒꯦ꯫ ꯃꯅꯤꯄꯨꯔꯔꯗ ꯑꯉꯟꯐꯧ
ꯑꯣꯟ ꯊꯥꯕ ꯌꯥꯕ ꯑꯐꯕ ꯐꯧ ꯃꯈꯜ ꯈꯔ ꯄꯟꯕ ꯇꯥꯔꯒꯗꯤ- ꯑꯥꯏ ꯁꯤ ꯑꯦ
ꯑꯥꯔ, ꯃꯅꯤꯄꯨꯔꯅ ꯄꯨꯊꯣꯛꯄ ꯑꯥꯔ ꯁꯤ ꯃꯅꯤꯐꯧ-12 (ꯍꯥꯟꯅ ꯑꯥꯔ ꯁꯤ
ꯑꯦꯝ-13 ꯍꯥꯏꯟ ꯈꯪꯅꯕ), ꯁꯤ ꯑꯦ ꯌꯨꯅ ꯄꯨꯊꯣꯛꯄ ꯁꯤ ꯑꯦ ꯌꯨ ꯑꯥꯔ-3
(ꯃꯪꯒꯜ ꯍꯥꯏꯅ ꯈꯪꯅꯕ), ꯑꯦꯒ꯭ꯔꯤꯀꯜꯆꯔ ꯗꯤꯄꯥꯔꯠꯃꯦꯟꯠꯅ ꯄꯨꯊꯣꯛꯄ
ꯄꯥꯔꯤꯐꯧ ꯄꯟꯕ ꯌꯥꯏ꯫ ꯃꯈꯣꯏꯁꯤꯡ ꯑꯁꯤ ꯌꯥꯝꯅꯃꯛ ꯉꯟꯅꯁꯨ
ꯄꯨꯊꯣꯛꯄ ꯌꯥꯔꯕ ꯆꯥꯊꯣꯛ ꯂꯩꯕ ꯐꯧ ꯃꯈꯜꯁꯤꯡꯅꯤ꯫ ꯑꯍꯨꯝꯁꯤꯒꯤ
ꯃꯅꯨꯡꯗ ꯃꯅꯤꯄꯨꯔ ꯃꯤꯌꯥꯝꯒꯤ ꯑꯍꯥꯎꯕ ꯆꯥꯛ ꯑꯣꯏꯅ ꯍꯥꯏꯕ ꯇꯥꯔꯒꯗꯤ
ꯑꯥꯔ ꯁꯤ ꯃꯅꯤꯐꯧ-12 ꯑꯁꯤꯅꯤ ꯍꯥꯏꯕ ꯇꯥꯏ꯫ ꯂꯥꯏꯕꯛ ꯊꯤꯕꯗꯤ ꯑꯉꯟꯐꯧ
ꯊꯥꯅꯔꯤꯕ ꯏꯆꯤꯟ ꯏꯅꯥꯎꯁꯤꯡꯒꯤ ꯀꯣꯟꯅꯕ ꯐꯧꯗꯤ ꯃꯔꯥꯡ ꯀꯥꯏꯅ ꯐꯪꯗꯕ
ꯑꯁꯤꯅꯤ꯫

ꯍꯧꯖꯤꯛ ꯐꯧꯗꯤ ꯄꯨꯊꯣꯛꯄꯗ ꯇꯉꯥꯏꯗꯅ ꯄꯥꯡꯊꯣꯛꯇꯕ ꯌꯥꯗꯕ
ꯊꯧꯔꯝ ꯈꯔ ꯈꯪꯖꯤꯟꯃꯤꯟꯅꯁꯤ꯫

1) ꯏꯍꯥꯟ ꯍꯥꯟꯕꯗ ꯐꯧꯗꯤ ꯑꯣꯏꯅ ꯄꯨꯊꯣꯛꯀꯦ ꯍꯥꯏꯔꯕꯗꯤ ꯐꯧꯗꯤ
ꯄꯨꯊꯣꯛꯅꯕ ꯊꯥꯒꯗꯧꯔꯤꯕ ꯃꯔꯨꯑꯗꯨ ꯃꯁꯛ ꯈꯪꯕ ꯃꯐꯝꯗꯒꯤ -ꯈꯨꯗꯝ
ꯑꯣꯏꯅ ꯑꯥꯏ ꯁꯤ ꯑꯦ ꯑꯥꯔ, ꯁꯤ ꯑꯦ ꯌꯨ, ꯂꯧꯎ ꯂꯣꯏꯁꯪ, ꯀꯦꯚꯤ ꯀꯦꯁꯤꯡꯅ
ꯊꯥꯕ ꯌꯥꯔꯦ ꯍꯥꯏꯅ ꯄꯤꯔꯛꯄ ꯃꯔꯨꯑꯣꯏꯍꯟꯕ ꯇꯉꯥꯏꯐꯗꯦ꯫

2) ꯑꯅꯤꯁꯨꯕꯗ ꯂꯧꯐꯝ ꯈꯟꯕ ꯑꯁꯤꯁꯨ ꯃꯔꯨꯑꯣꯏ꯫ ꯂꯝꯕꯤ
ꯃꯌꯥ ꯑꯣꯏꯕ ꯂꯧꯀꯣꯟ ꯑꯃꯗ ꯄꯨꯟꯅ ꯂꯩꯕ ꯂꯧꯐꯝꯗ ꯃꯤꯌꯥꯝ ꯄꯨꯟꯅ
ꯄꯥꯏꯈꯠꯃꯤꯟꯅꯕ ꯍꯥꯏꯕꯁꯤꯅ ꯈ꯭ꯋꯥꯏꯗꯒꯤ ꯐꯩ꯫ ꯍꯥꯏꯔꯤꯕ ꯃꯐꯟꯝꯁꯤꯗ
ꯊꯥꯒꯗꯧꯔꯤꯕ ꯐꯧꯁꯨ ꯃꯈꯜ ꯑꯃꯇꯪꯒꯤ ꯑꯣꯏꯍꯟꯕ ꯉꯝꯂꯕꯗꯤ ꯌꯥꯝꯅ
ꯐꯔꯦ꯫ ꯃꯁꯤꯒꯤ ꯀꯥꯟꯅꯕ ꯀꯌꯥ ꯑꯃ ꯂꯩ꯫ ꯃꯑꯣꯡ ꯑꯁꯤꯕꯨ ꯀꯝꯄꯦꯛ
ꯑꯦꯔꯤꯌꯥ ꯑꯦꯄ꯭ꯔꯣꯆ ꯅꯠꯇ꯭ꯔꯒ ꯁꯤꯗ ꯚꯤꯂꯦꯖ ꯀꯟꯁꯦꯞ ꯍꯥꯏꯅ ꯈꯪꯅꯩ꯫

3) ꯑꯥꯏꯁꯣꯂꯦꯁꯟ ꯍꯥꯏꯕꯗꯤ ꯑꯇꯣꯞꯄ ꯐꯧ ꯃꯈꯜꯁꯤꯡꯒꯤ
ꯊꯥꯐꯝꯗꯒꯤ ꯊꯥꯞꯇꯣꯛꯍꯟꯕ ꯍꯥꯏꯕꯁꯤꯃꯁꯨ ꯌꯥꯝꯟ ꯃꯔꯨꯑꯣꯏꯕ ꯑꯃꯅꯤ꯫

ꯃꯁꯤꯒꯤ ꯃꯑꯣꯡ ꯀꯌꯥ ꯑꯃ ꯂꯩꯈ꯭ꯔꯦ꯫ ꯃꯄꯥꯟ ꯁꯥꯠꯄꯒꯤ ꯃꯇꯝ
ꯈꯦꯟꯅꯍꯟꯕ꯫ ꯌꯥꯝꯗ꯭ꯔꯕꯗ ꯅꯨꯃꯤꯠ 15-20 ꯅꯤ ꯈꯦꯟꯅꯍꯟꯕ꯫ ꯊꯥꯐꯝ
ꯂꯥꯞꯅꯍꯟꯕ, ꯅꯠꯇ꯭ꯔꯒ ꯂꯣꯛꯄ ꯃꯇꯝꯗ ꯃꯥꯟꯅꯗꯕ ꯐꯧꯒ ꯊꯪꯅꯕꯗ \

ꯥꯝꯗ꯭ꯔꯕꯗ ꯃꯤꯇꯔ 3 ꯊꯥꯗꯣꯛꯂꯒ ꯈꯥꯎꯕ ꯑꯁꯤꯅꯆꯤꯡꯕ ꯄꯟꯕ ꯌꯥꯏ꯫

4) ꯐꯧꯃꯥꯡ ꯈꯟꯗꯣꯛꯄ ꯍꯥꯏꯕꯁꯤꯁꯨ ꯑꯁꯦꯡꯕ ꯐꯧꯗꯤ
ꯐꯪꯍꯟꯕꯒꯤꯗꯃꯛ ꯌꯥꯝꯟꯃꯛ ꯃꯔꯨꯑꯣꯏꯕ ꯑꯃꯅꯤ꯫ ꯂꯧꯍꯣꯟ ꯑꯣꯏꯔꯤꯉꯩ
ꯃꯇꯝꯗꯒꯤ ꯍꯧꯅ ꯃꯥꯟꯅꯗꯕ ꯑꯣꯟ ꯎꯕ ꯄꯥꯝꯕꯤꯁꯤꯡ ꯈꯨꯗꯝ ꯑꯣꯏꯅ
ꯍꯦꯟꯅ ꯋꯥꯡꯕ ꯅꯠꯇ꯭ꯔꯒ ꯅꯦꯝꯕ, ꯃꯈꯣꯡꯒꯤ ꯃꯆꯨ ꯃꯥꯟꯅꯗꯕ, ꯃꯅꯥꯒꯤ
ꯃꯑꯣꯡ ꯈꯦꯟꯅꯕ ꯑꯁꯤꯅꯆꯤꯡꯕ ꯌꯥꯎꯔꯕꯗꯤ ꯈꯨꯗꯛꯇ ꯄꯨꯊꯣꯛꯇꯨꯅ
ꯃꯥꯡꯍꯟꯕꯤꯒꯅꯤ꯫ ꯂꯤꯡꯊꯣꯛꯂꯕ ꯃꯇꯨꯡ ꯃꯄꯅꯥꯟ ꯁꯥꯗ꯭ꯔꯤꯉꯩ ꯃꯇꯝꯗ
ꯍꯥꯏꯔꯤꯕ ꯃꯑꯣꯡꯁꯤꯡ ꯑꯁꯤ ꯌꯥꯎꯔꯕꯁꯨ ꯁꯦꯡꯅ ꯃꯤꯅꯨꯡꯁꯤ ꯌꯥꯎꯗꯅ
ꯂꯧꯊꯣꯛꯄꯤꯒꯅꯤ꯫ ꯃꯄꯥꯟ ꯁꯥꯕ ꯃꯇꯝ ꯑꯁꯤ ꯈ꯭ꯋꯥꯏꯗꯒꯤ ꯆꯦꯛꯁꯤꯟꯕ
ꯃꯇꯝꯅꯤ꯫ ꯈꯔ ꯍꯦꯟꯅ ꯉꯟꯅ ꯃꯄꯥꯟ ꯁꯥꯔꯛꯄ ꯅꯠꯇ꯭ꯔꯒ ꯈꯔ
ꯍꯦꯟꯅ ꯊꯦꯡꯅ ꯁꯥꯔꯛꯄ ꯄꯥꯝꯕꯤꯁꯤꯡ, ꯃꯄꯥꯟꯒꯤ ꯃꯆꯨ ꯑꯃꯗꯤ ꯁꯥꯑꯣꯡ
ꯃꯥꯟꯅꯗꯕꯁꯤꯡ, ꯄꯥꯝꯕꯤ ꯄꯨꯟꯅ ꯐꯨꯛꯇꯣꯛꯇꯨꯅ ꯃꯥꯡꯍꯟꯕꯤꯒꯅꯤ꯫

ꯀꯛꯊꯠꯄꯅ ꯌꯥꯗꯦ ꯑꯃꯨꯛ ꯆꯣꯡꯈꯠꯂꯛꯛꯄ ꯁꯣꯏꯗ꯭ꯔꯕꯅꯤ,
ꯐꯨꯛꯇꯣꯛꯄꯤꯒꯅꯤ꯫ ꯑꯔꯣꯏꯕꯗ, ꯐꯧꯒꯤ ꯐꯧꯁꯛ ꯃꯥꯟꯅꯗꯕꯁꯤꯡ ꯈꯨꯗꯝ
ꯑꯣꯏꯅ ꯃꯇꯨꯝ ꯍꯦꯟꯅ ꯇꯥꯕ, ꯍꯦꯟꯅ ꯁꯥꯡꯕ, ꯃꯇꯨ ꯄꯥꯟꯕ, ꯃꯇꯣꯟ ꯃꯨꯕ
ꯑꯁꯤꯅꯆꯤꯡꯕ ꯄꯥꯟꯕ ꯄꯥꯝꯕꯤꯁꯤꯡ ꯂꯧꯊꯣꯛꯀꯅꯤ꯫ ꯃꯥꯟꯅꯗꯕꯅꯤ ꯍꯥꯏꯅ
ꯆꯤꯡꯅꯕ ꯈꯨꯗꯤꯡꯃꯛ ꯂꯧꯊꯣꯛꯄꯤꯒꯅꯤ꯫ ꯀꯥ ꯍꯦꯟꯅ ꯌꯥꯝꯅ ꯑꯃꯥꯡꯕ ꯐꯧ
ꯌꯥꯎꯕ ꯊꯦꯡꯅꯔꯣꯏ ꯄꯥꯈꯠꯄ ꯄꯣꯛꯄꯤꯒꯅꯨ꯫

5) ꯂꯥꯏꯅꯥ ꯇꯤꯜꯅꯥ ꯇꯥꯔꯛꯄ ꯈꯨꯗꯤꯡꯃꯛ ꯃꯤꯀꯨꯞ ꯅꯥꯍꯨꯝꯁꯤꯡꯅ
ꯂꯩꯗꯨꯅ ꯑꯈꯪ ꯑꯍꯩ ꯇꯥꯟꯅꯗꯨꯅ ꯉꯥꯛꯊꯣꯛꯀꯅꯤ꯫

6) ꯅꯥꯄꯤ ꯃꯔꯨ ꯄꯥꯝꯕꯤꯁꯤꯡ ꯁꯦꯡꯅ ꯐꯨꯛꯇꯣꯛꯛꯇꯨꯅ
ꯂꯧꯊꯣꯛꯀꯅꯤ꯫ ꯃꯈ꯭ꯋꯥꯡꯗ ꯀꯛꯊꯠꯄꯈꯛꯅ ꯌꯥꯔꯣꯏ ꯑꯃꯨꯛ ꯁꯣꯏꯗꯅ
ꯆꯣꯡꯈꯠꯂꯛꯀꯅꯤ꯫

7) ꯁꯨꯛꯁꯣꯏ ꯁꯣꯏꯗꯅ, ꯈꯔ ꯂꯟꯇꯛꯅ ꯄꯥꯝꯕꯤ ꯑꯃꯃꯝꯗ
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8) ꯂꯣꯛꯄꯒꯤꯛ ꯃꯇꯝ ꯆꯨꯝꯅ ꯂꯣꯛꯄꯤꯒꯅꯤ꯫ ꯃꯇꯣꯟ ꯊꯪꯕ ꯃꯔꯨꯅ
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9)ꯌꯩꯕ ꯃꯇꯝꯗ ꯃꯦꯆꯤꯟꯅ ꯌꯩꯗꯕꯅ ꯐꯩ꯫ ꯋꯥꯅ ꯆꯦꯛꯁꯤꯟꯅ
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ꯌꯩꯒꯗꯕ ꯐꯛ ꯁꯦꯡꯅ ꯁꯦꯡꯗꯣꯛꯇꯨꯅꯅ ꯐꯧ ꯃꯔꯨ ꯑꯃꯠꯇ ꯌꯥꯎꯍꯜꯂꯣꯏ,
ꯈꯨꯂꯪꯁꯤꯡꯒꯤ ꯃꯐꯤ ꯃꯔꯣꯜ, ꯀꯣꯛꯁꯦꯠꯅꯆꯤꯡꯕꯗ ꯄꯛꯂꯛꯄ ꯃꯔꯨꯅꯁꯨ
ꯃꯔꯨ ꯁꯦꯡꯍꯟꯗꯕ ꯌꯥꯏ, ꯆꯦꯛꯁꯤꯟꯕꯤꯒꯅꯤ꯫ ꯑꯇꯣꯞꯄ ꯂꯧꯐꯝꯗ
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ꯐꯧ ꯍꯥꯟꯅꯕ ꯕꯣꯔꯥꯁꯤꯡ ꯌꯥꯔꯤꯕꯃꯈꯩ ꯑꯍꯟꯕ ꯑꯣꯏꯍꯟꯁꯤ,
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ꯑꯣꯟꯅꯈꯤꯗꯅꯕ ꯕꯣꯔꯥꯗ ꯃꯃꯤꯡ ꯊꯥꯍꯧꯕ ꯀꯥꯎꯕꯤꯒꯅꯨ꯫ ꯂꯣꯏꯅꯅ ꯀꯪꯅ
ꯐꯧꯕ ꯀꯥꯎꯕꯤꯒꯅꯨ꯫

ꯑꯇꯩ ꯀꯥꯡꯂꯣꯟꯗꯤ ꯐꯧ ꯊꯥꯕꯒ ꯆꯞ ꯃꯥꯟꯅꯩ꯫ ꯐꯧꯗꯤ ꯄꯨꯊꯣꯛꯄꯅ
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ꯊꯝꯖꯔꯤꯕ ꯋꯥꯐꯝ ꯈꯔꯁꯤ ꯃꯔꯤ ꯂꯩꯅꯕ ꯃꯤꯑꯣꯏ ꯈꯨꯗꯤꯡꯃꯛꯅ
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ꯑꯦꯁ ꯁꯨꯃꯪꯒꯣꯜ ꯁꯤꯡꯍ
ꯁꯤꯗ ꯚꯤꯂꯦꯖ ꯑꯃꯐꯧꯗꯤ ꯄꯨꯊꯣꯛꯄꯒꯤ ꯐꯤꯜ ꯏꯟꯁꯄꯦꯛꯁꯟ