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huIyeN laNpaU
ꯅꯤꯡꯊꯧꯀꯥꯕ, ꯑꯣꯒꯁꯠ 15, 2022, ꯏꯝꯐꯥꯜ
14 sub chi, 120 sub msiZ

ꯑꯣꯒꯁꯠ 14 : ꯃꯅꯤꯄꯨꯔꯒꯤ ꯄꯨꯋꯥꯔꯤ
ꯅꯥꯇꯣꯟ ꯁꯨꯃꯥꯡ ꯑꯣꯏꯍꯜꯂꯒꯨꯝꯁꯤ
ꯀꯨꯝꯖꯥ 1891 ꯒꯤ ꯑꯦꯄ꯭ꯔꯤꯜꯒꯤ 'ꯑꯦꯡꯂꯣ-ꯃꯅꯤꯄꯨꯔꯤ ꯂꯥꯟ' ꯗ ꯃꯅꯤꯄꯨꯔꯤꯁꯤꯡ
ꯕ꯭ꯔꯤꯇꯤꯁꯀꯤ ꯃꯈꯨꯠꯇ ꯃꯥꯏꯊꯤꯈꯤ꯫ ꯂꯥꯟꯁꯤꯗ ꯃꯥꯏꯊꯤꯕꯗꯒꯤ ꯕ꯭ꯔꯤꯇꯤꯁꯅ ꯃꯅꯤꯄꯨꯔꯒꯤ
ꯍꯥꯟꯅꯗꯒꯤ ꯂꯩꯖꯔꯛꯄ ꯅꯤꯡꯊꯧꯅ ꯂꯩꯕꯥꯛ ꯂꯩꯉꯥꯛꯂꯛꯄꯒꯤ ꯆꯠꯅꯕꯤ (ꯁꯤꯁꯇꯝ) ꯄꯨꯜꯂꯞ
ꯃꯨꯠꯊꯠꯈꯤꯗ꯭ꯔꯕꯁꯨ ꯁ꯭ꯇꯦꯠꯁꯤ ꯃꯈꯣꯏꯒꯤ ꯈꯨꯕꯥꯝꯅꯨꯡꯗ ꯇꯥꯈꯤ꯫ ꯑꯗꯨꯕꯨ ꯍꯥꯟꯅꯗꯒꯤ
ꯌꯨꯝꯂꯣꯟꯅꯔꯛꯈꯤꯕ ꯏꯟꯗꯤꯌꯥ ꯄꯨꯝꯕꯒꯤ ꯃꯄꯨ ꯑꯣꯏꯔꯛꯈ꯭ꯔꯕ ꯕ꯭ꯔꯤꯇꯤꯁꯅ ꯑꯣꯒꯁꯠ
14, 1947 ꯀꯤ ꯑꯍꯤꯡ ꯅꯣꯡꯌꯥꯏꯗ ꯏꯟꯗꯤꯌꯥ ꯄꯨꯝꯕ ꯊꯥꯗꯣꯛꯂꯝꯈꯤꯕꯒꯨꯝ ꯄꯤꯛꯈ꯭ꯔꯤꯕ
ꯃꯅꯤꯄꯨꯔꯕꯨꯁꯨ ꯕ꯭ꯔꯤꯇꯤꯁꯅ ꯊꯥꯗꯣꯛꯂꯝꯈꯤ꯫ ꯃꯅꯤꯄꯨꯔ ꯍꯥꯟꯅꯒꯤ ꯐꯤꯚꯝꯗ ꯍꯟꯖꯤꯟꯗꯨꯅ
ꯀꯪꯂꯥꯗ ꯄꯥꯈꯪꯕ ꯌꯦꯛꯄ ꯁꯂꯥꯏ ꯇꯔꯦꯠꯀꯤ ꯅꯤꯡꯇꯝ ꯐꯤꯔꯥꯜ ꯆꯤꯡꯈꯠꯈꯤ꯫ ꯍꯥꯏꯔꯤꯕ
ꯊꯧꯗꯣꯛꯁꯤ ꯈꯛꯇ ꯅꯠꯇꯅ ꯃꯅꯤꯄꯨꯔꯗ ꯊꯣꯛꯈꯤꯕ ꯂꯟꯅꯥꯏ ꯃꯤꯑꯣꯏ 1/2 ꯒꯤ ꯅꯠꯇꯅ
ꯁ꯭ꯇꯦꯠꯀꯤ/ꯑꯄꯨꯟꯕꯒꯤ ꯑꯣꯏꯕ ꯊꯧꯗꯣꯛ ꯀꯌꯥ ꯂꯩꯈ꯭ꯔꯦ꯫ ꯃꯄꯥꯟꯗꯒꯤ ꯑꯆꯧꯕ ꯂꯥꯏꯅꯤꯡꯂꯣꯟ
ꯑꯃ ꯆꯪꯁꯤꯜꯂꯛꯈ꯭ꯔꯦ꯫ ꯑꯋꯥ (ꯃꯇꯝ ꯑꯃꯒꯤ ꯕꯔꯃ, ꯍꯧꯖꯤꯛꯅ ꯃ꯭ꯌꯥꯟꯃꯥꯔ) ꯒꯤ ꯈꯨꯠꯇ
ꯆꯍꯤ ꯀꯨꯝꯖꯥ 1819 ꯗꯒꯤꯅ 1826 ꯐꯥꯎꯕ ꯆꯍꯤ 7 ꯈꯨꯟꯇꯥꯛꯂꯨꯔꯦ꯫ ꯕ꯭ꯔꯤꯇꯤꯁꯅ ꯉꯥꯛ
ꯁꯦꯜꯂꯕ ꯂꯝꯗꯝ (ꯄ꯭ꯔꯣꯇꯦꯛꯇꯣꯔꯦꯠ ꯁ꯭ꯇꯦꯠ) ꯑꯃ ꯑꯣꯏꯔꯛꯄꯗꯒꯤ ꯑꯍꯥꯟꯕ ꯑꯃꯁꯨꯡ
ꯑꯅꯤꯁꯨꯕ ꯅꯨꯄꯤ ꯂꯥꯟ ꯊꯣꯛꯈ꯭ꯔꯦ꯫ ꯕ꯭ꯔꯤꯇꯤꯁ ꯆꯠꯈ꯭ꯔꯕ ꯃꯇꯨꯡ ꯀꯨꯝꯖꯥ 1947 ꯇ ꯁꯦꯝꯕ
ꯃꯅꯤꯄꯨꯔ ꯀꯟꯁꯇꯤꯇ꯭ꯌꯨꯁꯟ ꯑꯦꯛꯠ, 1947 ꯀꯤ ꯃꯈꯥꯗ ꯀꯨꯝꯖꯥ 1948 ꯗ ꯏꯍꯥꯟ ꯍꯥꯟꯕ
ꯃꯤꯈꯜ ꯄꯥꯡꯊꯣꯛꯈ꯭ꯔꯦ꯫ ꯀꯨꯝꯖꯥ 1949 ꯒꯤ ꯁꯦꯞꯇꯦꯝꯕꯔ 21 ꯗ 'ꯃꯅꯤꯄꯨꯔ ꯃꯔꯖꯔ
ꯑꯦꯒ꯭ꯔꯤꯃꯦꯟꯠ' ꯈꯨꯠꯌꯦꯛ ꯄꯤꯅꯔꯒ ꯀꯨꯃꯖꯥ 1949 ꯒꯤ ꯑꯣꯛꯇꯣꯕꯔ 15 ꯗꯒꯤ ꯃꯅꯤꯄꯨꯔ
ꯏꯟꯗꯤꯌꯥꯒꯤ ꯐꯤꯕꯥꯟꯅꯨꯡꯗ ꯇꯤꯟꯗꯨꯅ ꯂꯩꯕꯥꯛꯁꯤꯒꯤ ꯁꯔꯨꯛ ꯑꯃ ꯑꯣꯏꯈꯤ꯫
ꯑꯁꯤꯒꯨꯝꯕ ꯍꯧꯈ꯭ꯔꯕ ꯊꯧꯗꯣꯛꯁꯤꯡ ꯑꯁꯤꯒꯤ ꯃꯊꯛꯇ ꯃꯅꯤꯄꯨꯔ ꯃꯇꯧ ꯀꯔꯝꯅ
ꯑꯣꯏꯔꯛꯈꯤꯕꯒꯦ ꯍꯥꯏꯕꯒꯤ ꯌꯦꯜꯍꯧꯉꯩꯒꯤ ꯍꯧꯔꯛꯂꯣꯟꯒꯤ, ꯁ꯭ꯇꯦꯠꯁꯤꯗ ꯍꯧꯖꯤꯛ
ꯂꯩꯃꯤꯟꯅꯔꯤꯕ ꯐꯨꯔꯨꯞ ꯄꯨꯝꯅꯃꯛꯀꯤ ꯑꯣꯏꯕ ꯋꯥꯔꯤ-ꯂꯤꯈꯨꯟ (ꯄꯨꯋꯥꯔꯤ) ꯁꯤꯡ ꯂꯦꯡꯗꯅ,
ꯑꯃꯃꯝꯇ ꯑꯣꯏꯅ ꯃꯌꯦꯛ ꯁꯦꯡꯅ ꯂꯩꯖꯔꯤꯕ ꯉꯥꯛꯇꯅꯤ꯫ ꯑꯗꯨꯕꯨ ꯉꯁꯤꯒꯤ, ꯍꯧꯖꯤꯛꯀꯤ
ꯃꯅꯤꯄꯨꯔꯗ ꯊꯣꯔꯛꯂꯤꯕ ꯊꯧꯗꯣꯛ ꯋꯥꯊꯣꯛꯁꯤꯡ ꯑꯁꯤꯗꯤ ꯃꯥꯏꯗ ꯄꯨꯜꯂꯞ ꯄꯥꯟꯕ ꯃꯤꯠ
ꯑꯅꯤꯅ ꯅꯛꯈ꯭ꯔꯕ ꯅꯥꯇꯣꯟ ꯁꯨꯃꯥꯡ ꯎꯕ ꯉꯝꯗꯦ ꯑꯃꯁꯨꯡ ꯐꯪꯗꯦ ꯍꯥꯏꯕꯗꯨꯒꯤ ꯐꯤꯚꯝꯗꯨꯗ
ꯂꯩꯔꯛꯄꯗꯧꯅ ꯇꯧꯏ꯫ ꯆꯤꯡꯒꯤ ꯁꯔꯨꯛ ꯑꯃꯕꯨ ꯐꯨꯔꯨꯞ ꯃꯁꯦꯜꯒꯤ ꯃꯔꯛꯇ ꯑꯃꯅ ꯑꯃꯗ
ꯃꯈꯣꯏ ꯃꯈꯣꯏꯒꯤꯅꯤ ꯍꯥꯏꯗꯨꯅ ꯃꯨꯟꯅꯔꯛꯄꯒꯤ ꯊꯧꯗꯣꯛ ꯊꯣꯛꯏ꯫ ꯂꯨꯞ ꯃꯁꯦꯜꯒꯤ ꯃꯔꯛꯇ
ꯑꯃꯅ ꯑꯃꯕꯨ ꯅꯈꯣꯏꯗꯤ ꯌꯦꯜꯍꯧꯃꯤ ꯅꯠꯇꯦ/ꯅꯠꯂꯤ ꯍꯥꯏꯕꯒꯤ ꯆꯤꯟꯗꯥ ꯄꯧꯗꯥꯅꯕ ꯊꯣꯔꯛꯏ꯫
ꯐꯨꯔꯨꯞ ꯀꯥꯡꯂꯨꯞ ꯑꯃꯅ ꯃꯈꯣꯏꯗꯤ ꯃꯈꯣꯏꯒ ꯃꯃꯤꯡ ꯃꯥꯟꯅꯕ, ꯂꯣꯟ ꯈꯦꯟꯅꯗꯕ ꯑꯇꯣꯞꯄ
ꯁ꯭ꯇꯦꯠꯀꯤ ꯃꯤꯑꯣꯏꯁꯤꯡꯒ ꯑꯃꯠꯇ ꯑꯣꯏꯅ ꯄꯨꯟꯁꯤꯟꯖꯈ꯭ꯔꯦꯒꯦ ꯇꯦꯝꯁꯤꯡꯅꯔꯛꯄ
ꯌꯥꯎꯏ꯫ ꯐꯨꯔꯨꯞ ꯑꯃꯅꯁꯨ ꯄꯤꯛꯈ꯭ꯔꯕ ꯃꯅꯤꯄꯨꯔꯁꯤꯗ ꯃꯈꯣꯏꯒꯤ 'ꯍꯣꯝꯂꯦꯟꯗ' ꯇꯣꯉꯥꯟꯅ
ꯄꯤꯒꯗꯕꯅꯤ ꯍꯥꯏꯗꯨꯅ ꯐꯥꯎꯕ ꯗꯤꯃꯥꯟꯗ ꯇꯧꯔꯛꯏ꯫ ꯑꯗꯨꯕꯨ ꯍꯥꯏꯔꯤꯕ ꯊꯣꯔꯛꯐꯝ ꯊꯣꯛꯇꯕ,
ꯊꯣꯔꯛꯂꯣꯏꯗꯕ ꯊꯧꯗꯣꯛ ꯀꯣꯛꯊꯣꯡ ꯑꯃ ꯃꯅꯝ-ꯃꯅꯝ ꯊꯣꯛꯆꯤꯜꯂꯛꯂꯤꯕ ꯑꯁꯤꯕꯨ
ꯀꯔꯤꯒꯤꯅꯣ? ꯀꯔꯤꯗꯒꯤ ꯊꯣꯔꯛꯈꯤꯕ ꯃꯑꯣꯏꯔꯝꯒꯗꯒꯦ? ꯋꯥꯍꯪ ꯑꯁꯤꯒꯤ ꯑꯁꯦꯡꯕ
ꯄꯥꯎꯈꯨꯝꯁꯤꯡ ꯃꯇꯤꯛ ꯆꯥꯅ ꯂꯩ꯫ ꯋꯥꯍꯪ ꯑꯃ ꯂꯩꯔꯕꯗꯤ ꯃꯗꯨꯒꯤ ꯄꯥꯎꯈꯨꯝ ꯑꯃ ꯂꯩꯒꯗꯕꯅꯤ,
ꯂꯩꯐꯝ ꯊꯣꯛꯏ꯫ ꯑꯗꯨꯕꯨ ꯋꯥꯍꯪꯁꯤꯡ ꯑꯁꯤꯒꯤ ꯆꯞ ꯆꯥꯕ ꯄꯥꯎꯈꯨꯝ ꯑꯣꯏꯕ ꯌꯥꯕ ꯋꯥꯐꯝꯗꯤ
ꯃꯅꯤꯄꯨꯔꯗ ꯂꯩꯃꯤꯟꯅꯔꯛꯂꯤꯕ ꯐꯨꯔꯨꯞ-ꯀꯥꯡꯂꯨꯞ ꯄꯨꯝꯅꯃꯛꯀꯤ ꯃꯤꯑꯣꯏꯁꯤꯡꯅ ꯃꯈꯣꯏ
ꯃꯈꯣꯏꯕꯨ ꯃꯇꯧ ꯀꯔꯝꯅ ꯍꯧꯔꯛꯈꯤꯕꯅꯣ? ꯃꯈꯣꯏꯒꯤ ꯂꯥꯏꯅꯤꯡ, ꯂꯣꯜ-ꯃꯌꯦꯛ ꯂꯩꯖꯕ꯭ꯔ?
ꯂꯩꯖꯔꯒꯅ ꯀꯔꯤ-ꯀꯔꯤꯅꯣ? ꯂꯩꯖꯗ꯭ꯔꯒꯅ ꯀꯔꯤꯒꯤ ꯂꯩꯇꯕꯅꯣ? ꯍꯥꯏꯕ ꯌꯥꯎꯅ ꯃꯈꯣꯏꯒꯤ
ꯍꯧꯔꯛꯂꯣꯟꯒꯤ ꯋꯥꯔꯤ-ꯂꯤꯈꯨꯟ ꯃꯌꯦꯛ ꯁꯦꯡꯅ ꯈꯪꯅꯗꯕꯗꯒꯤꯅꯤ꯫ ꯍꯣꯏ, ꯂꯣꯟ ꯑꯃꯁꯨꯡ
ꯃꯌꯦꯛ ꯂꯩꯖꯗ꯭ꯔꯒ ꯃꯤ ꯑꯣꯏꯅ ꯂꯩꯕ ꯌꯥꯔꯣꯏ, ꯃꯅꯤꯄꯨꯔ ꯃꯆꯥꯅꯤ ꯍꯥꯏꯕ ꯌꯥꯔꯣꯏ ꯍꯥꯏꯕ ꯅꯠꯇꯦ꯫
ꯇꯧꯕꯇꯕꯨ ꯃꯈꯣꯏ ꯃꯁꯥꯅ ꯃꯁꯥꯒꯤ ꯃꯁꯛ ꯃꯨꯟꯅ ꯈꯪꯖꯒꯗꯕꯅꯤ꯫ ꯐꯨꯔꯨꯞ ꯃꯁꯦꯜꯒꯤ ꯃꯔꯛꯇꯁꯨ
ꯑꯃꯅ ꯑꯃꯒꯤ ꯃꯁꯛ ꯈꯪꯅꯒꯗꯕꯅꯤ ꯍꯥꯏꯕꯅꯤ꯫ ꯃꯁꯤꯒꯤ ꯐꯤꯚꯝꯁꯤ ꯌꯧꯔꯛꯂꯕꯇꯗ ꯑꯃꯒ
ꯑꯃꯒꯁꯨ ꯅꯨꯡꯁꯤꯅꯅꯤ꯫ ꯊꯣꯔꯛꯍꯟꯅꯤꯡꯗꯕ ꯊꯧꯗꯣꯛꯁꯤꯡꯒꯤ ꯃꯁꯤꯡꯁꯨ ꯍꯟꯊꯔꯛꯀꯅꯤ꯫
ꯃꯤꯇꯩ/ꯃꯩꯇꯩꯒꯤꯁꯨ ꯑꯗꯨꯉꯥꯏ ꯆꯍꯤ ꯂꯤꯁꯤꯡ 2 ꯍꯦꯟꯕꯒꯤ ꯄꯨꯋꯥꯔꯤ ꯂꯩꯖꯔꯛꯂꯕꯅꯤ ꯍꯥꯏꯗꯨꯅ
ꯂꯩꯕꯥꯛꯁꯤꯗ ꯇꯤꯜꯂꯕ ꯃꯇꯨꯡꯗ ꯂꯩꯕꯥꯛꯁꯤꯒꯤ ꯐꯨꯔꯨꯞꯁꯤꯡꯒꯤ ꯃꯅꯨꯡꯗ ꯈ꯭ꯋꯥꯏꯗꯒꯤ ꯃꯀꯣꯛꯇ
ꯂꯩꯒꯗꯕꯅꯤ ꯍꯥꯏꯔꯨꯕ ꯌꯥꯒꯗꯧꯔꯤꯕ꯭ꯔ? ꯍꯥꯏꯔꯨꯒꯅꯤ ꯍꯥꯏꯕ ꯅꯠꯇꯦ, ꯍꯥꯏꯔꯨꯕꯁꯨ ꯂꯩꯇ꯭ꯔꯤ, ꯍꯥꯏꯁꯨ
ꯍꯥꯏꯔꯣꯏ꯫ ꯇꯧꯕꯇꯕꯨ ꯃꯅꯤꯄꯨꯔꯗ ꯍꯧꯖꯤꯛ ꯂꯩꯃꯤꯟꯅꯔꯤꯕꯁꯤꯡꯅ ꯃꯁꯥꯒꯤ ꯃꯁꯛ ꯑꯃꯁꯨꯡ
ꯑꯇꯣꯞꯄꯒꯤ ꯃꯁꯛꯁꯨ ꯇꯨꯅ ꯈꯪꯃꯤꯟꯅꯕ ꯆꯪꯏ ꯍꯥꯏꯕꯒꯤ ꯋꯥꯅꯤ꯫

ꯍꯨꯏꯌꯦꯟ ꯂꯥꯟꯄꯥꯎ ꯂꯤꯇꯔꯦꯔꯤ ꯀ꯭ꯋꯤꯖ - 47
1) "ꯄꯔꯤꯅꯤꯇꯥ (ꯂꯨꯍꯣꯡꯂꯕꯤ ꯅꯨꯄꯤ)" ꯍꯥꯏꯕ 1968 ꯗ ꯑꯍꯥꯟꯕ
ꯐꯣꯡꯕ ꯂꯥꯏꯔꯤꯛ ꯑꯁꯤ ꯀꯅꯥꯅ ꯏꯕ ꯀꯔꯤ ꯂꯣꯜꯒꯤ ꯑꯣꯔꯤꯖꯤꯅꯦꯜ
ꯂꯥꯏꯔꯤꯛꯇꯒꯤ ꯀꯅꯥꯅ ꯃꯅꯤꯄꯨꯔꯤꯗ ꯍꯟꯗꯣꯛꯄꯅꯣ?
2) "ꯃꯩꯇꯩ ꯖꯒꯣꯏ 15 ꯁꯨꯕ ꯁꯔꯨꯛ" ꯍꯥꯏꯕ ꯂꯥꯏꯔꯤꯛ ꯑꯁꯤꯒꯤ ꯑꯏꯕ ꯀꯅꯥꯅꯣ?
3) "ꯃꯦꯍꯔꯨ" ꯍꯥꯏꯕ ꯂꯥꯏꯔꯤꯛ ꯑꯁꯤꯒꯤ ꯑꯏꯕ ꯀꯅꯥꯅꯣ ꯑꯃꯁꯨꯡ
ꯀꯔꯝꯕ ꯃꯈꯜꯒꯤ ꯂꯥꯏꯔꯤꯛꯅꯣ?

4) "ꯅꯨꯄꯤ/ꯅꯍꯥꯛꯀꯤ ꯄꯨꯜꯂꯤꯕ ꯁꯝꯕꯨꯜꯒꯤ ꯃꯅꯨꯡꯗ/ꯌꯥꯎꯔꯤ ꯄꯥꯔꯤ-
ꯄꯨꯔꯤꯒꯤ ꯆꯌꯣꯝꯁꯨ/ꯌꯥꯎꯔꯤ ꯃꯅꯤ-ꯃꯨꯛꯇꯥ ꯀꯌꯥꯁꯨ/ꯍꯌꯦꯡꯒꯤ ꯅꯨꯃꯤꯠꯁꯨ꯫"
ꯁꯩꯔꯦꯡ ꯃꯇꯦꯛ ꯑꯁꯤ ꯀꯅꯥꯅ ꯏꯕ ꯂꯥꯏꯔꯤꯛꯇ ꯌꯥꯎꯕ ꯀꯔꯤ ꯁꯩꯔꯦꯡꯗꯒꯤ
ꯂꯧꯊꯣꯛꯄꯅꯣ?

5) "ꯁꯥꯃꯨ ꯃꯌꯥꯒꯤ ꯀꯪꯀ꯭ꯔ ꯉꯥꯟꯊꯛ" ꯍꯥꯏꯕ ꯂꯥꯏꯔꯤꯛ ꯑꯁꯤꯒꯤ
ꯑꯏꯕ ꯀꯅꯥꯅꯣ ꯑꯃꯁꯨꯡ ꯀꯔꯝꯕ ꯃꯈꯜꯒꯤ ꯂꯥꯏꯔꯤꯛꯅꯣ?

ꯃꯊꯛꯇ ꯄꯤꯔꯤꯕ ꯋꯥꯍꯪꯁꯤꯡ ꯑꯁꯤꯒꯤ ꯄꯥꯎꯈꯨꯝ ꯑꯣꯒꯁꯠ 16,
ꯂꯩꯕꯥꯛꯄꯣꯛꯄ ꯅꯨꯃꯤꯠꯀꯤ ꯑꯌꯨꯛ ꯄꯨꯡ 11 ꯐꯥꯎꯕꯒꯤ
ꯃꯅꯨꯡꯗ ꯄꯥꯎꯆꯦ ꯑꯁꯤꯒꯤ ꯑꯣꯐꯤꯁꯇ ꯅꯠꯇ꯭ꯔꯒ ꯏ-ꯃꯦꯜ
hueiyenliteraryquiz@gmail.com ꯁꯤꯗ ꯃꯦꯜ
ꯑꯣꯏꯅ ꯊꯥꯕꯤꯔꯛꯄ ꯌꯥꯒꯅꯤ꯫ ꯄꯥꯎꯈꯨꯝ ꯄꯤꯕꯤꯔꯛꯄ/ꯊꯥꯕꯤꯔꯛꯄ ꯃꯇꯝꯗ
ꯃꯤꯡ, ꯂꯩꯐꯝ, ꯃꯍꯩꯒꯤ ꯊꯥꯛ ꯑꯃꯁꯨꯡ ꯀꯟꯇꯦꯛꯠ ꯅꯝꯕꯔ ꯃꯌꯦꯛ ꯁꯦꯡꯅ
ꯏꯕꯤꯔꯛꯎ꯫ ꯋꯥꯍꯪ ꯈꯨꯗꯤꯡꯃꯛꯀꯤ ꯄꯥꯎꯈꯨꯝ ꯆꯨꯝꯅ ꯅꯠꯇ꯭ꯔꯒ ꯃꯁꯤꯡ ꯌꯥꯝꯅ
ꯆꯨꯝꯅ ꯄꯤꯕꯤꯔꯛꯄ ꯃꯤꯑꯣꯏꯁꯤꯡ ꯑꯗꯨꯗꯒꯤ ꯗ꯭ꯔꯣ ꯑꯣꯠꯆꯔꯒ ꯂꯥꯏꯕꯛ ꯐꯕ
ꯃꯤꯁꯛ ꯑꯃ ꯈꯟꯖꯒꯅꯤ꯫ ꯂꯣꯏꯅꯅ ꯈꯜꯂꯕ ꯃꯤꯁꯛ ꯑꯗꯨꯗ ꯃꯅꯥ ꯄꯤꯖꯒꯅꯤ꯫

ꯂꯧꯃꯤꯁꯤꯡꯒꯤ ꯀꯥꯈꯜ
ꯁꯪꯒꯣꯝ ꯑꯃꯗꯤ ꯁꯪꯒꯣꯝꯒꯤ ꯄꯣꯠꯊꯣꯛꯁꯤꯡꯁꯤ ꯃꯤꯄꯨꯝ
ꯈꯨꯗꯤꯡꯃꯛꯅ ꯌꯥꯝꯅ ꯄꯥꯝꯅ ꯊꯛꯅꯔꯤ ꯑꯃꯗꯤ ꯆꯥꯅꯔꯤ꯫
ꯃꯥꯂꯦꯝꯒꯤ ꯑꯣꯏꯅ ꯑꯩꯈꯣꯏꯒꯤ ꯏꯟꯗꯤꯌꯥꯅ ꯁꯪꯒꯣꯝ ꯄꯨꯊꯣꯛꯄꯗ
ꯌꯥꯝꯅ ꯋꯥꯡꯅ ꯂꯩꯔꯤ ꯑꯗꯨꯕꯨ ꯑꯇꯣꯞꯄ ꯂꯝꯁꯤꯡꯗꯗꯤ ꯁꯪꯒꯣꯝ
ꯊꯛꯄꯒꯤ ꯍꯩꯅꯕꯤ ꯂꯩꯕꯗꯨꯃꯥꯏꯅ ꯑꯩꯈꯣꯏꯒꯤ ꯃꯐꯝꯁꯤꯗꯗꯤ
ꯁꯪꯒꯣꯝ ꯊꯛꯄꯒꯤ ꯍꯩꯅꯕꯤꯁꯤ ꯑꯉꯥꯡ ꯈꯛꯇꯗ ꯑꯣꯏꯅ
ꯂꯩꯕꯒꯨꯝ ꯇꯧꯔꯤ꯫ ꯃꯐꯝ ꯑꯁꯤꯗ ꯐꯪꯂꯤꯕ ꯁꯪꯒꯣꯝꯒꯤ
ꯀ꯭ꯋꯥꯂꯤꯇꯤꯁꯤ ꯑꯁꯨꯛꯀꯤ ꯃꯇꯤꯛ ꯌꯥꯝꯅ ꯍꯟꯊꯔꯤ ꯑꯃꯗꯤ
ꯁꯪꯒꯣꯝꯒꯤ ꯃꯃꯜꯁꯨ ꯑꯔꯦꯞꯄ ꯑꯃ ꯂꯩꯇ꯭ꯔꯤ꯫ ꯀꯣ-
ꯑꯣꯄꯔꯦꯇꯤꯚ ꯁꯣꯁꯥꯏꯇꯤ ꯅꯠꯇ꯭ꯔꯒ ꯑꯇꯣꯞꯄꯁꯤꯡꯗꯤ
ꯃꯥꯒꯤ ꯃꯥꯒꯤ ꯑꯄꯥꯝꯕ ꯃꯃꯜꯗ ꯑꯗꯨꯃꯛ ꯁꯪꯒꯣꯝꯁꯤꯡ
ꯌꯣꯜꯂꯤ ꯑꯗꯨꯕꯨ ꯇꯁꯦꯡꯅ ꯃꯁꯤ ꯑꯔꯥꯟꯕ ꯑꯃꯅꯤ꯫ ꯁꯪꯒꯣꯝꯒꯤ
ꯃꯃꯜꯁꯤ ꯁꯪꯒꯣꯝꯗꯨꯗ ꯌꯥꯎꯔꯤꯕ ꯐꯦꯠꯀꯤ ꯄꯔꯁꯦꯟꯇꯦꯖꯒꯤ
ꯃꯇꯨꯡ ꯏꯟꯅ ꯌꯣꯜꯂꯒꯗꯤ ꯌꯥꯝꯅ ꯐꯩ꯫ ꯄꯦꯀꯦꯠꯇ ꯌꯣꯟꯕ
ꯁꯪꯒꯣꯝꯁꯤꯡꯗ ꯗꯕꯜ ꯇꯣꯟ ꯅꯠꯇ꯭ꯔꯒ ꯁꯤꯡꯒꯜ ꯇꯣꯟ ꯊꯥꯕ
ꯊꯦꯡꯅꯒꯅꯤ꯫ ꯁꯤꯡꯒꯜ ꯇꯣꯟ ꯍꯥꯏꯔꯒꯗꯤ ꯐꯦꯠꯀꯤ ꯆꯥꯡꯁꯤ
ꯆꯥꯗ ꯑꯍꯨꯝꯅꯤ ꯑꯗꯨꯒ ꯁꯣꯂꯤꯗ ꯅꯣꯠ ꯐꯦꯠ ꯑꯁꯤꯅ ꯆꯥꯗ 8.5
ꯅꯤ꯫ ꯑꯁꯨꯝꯅ ꯗꯕꯜ ꯇꯣꯟ ꯍꯥꯏꯔꯒ ꯐꯦꯠꯀꯤ ꯁꯔꯨꯛ ꯑꯁꯤ
ꯆꯥꯗ 1.5 ꯅꯤ ꯑꯗꯨꯒ ꯁꯣꯂꯤꯗ ꯅꯣꯠ ꯐꯦꯠꯅ ꯆꯥꯗ 9 ꯅꯤ꯫
ꯑꯐꯕ ꯁꯪꯒꯣꯝ ꯍꯥꯏꯔꯒ ꯀ꯭ꯋꯥꯂꯤꯇꯤ ꯂꯩꯕ ꯁꯪꯒꯣꯝꯗꯨꯕꯨꯅꯤ꯫ ꯀ꯭ꯋꯥꯂꯤꯇꯤ ꯂꯩꯕ ꯁꯪꯒꯣꯝ ꯍꯥꯏꯔꯒꯗꯤ ꯁꯨꯝꯗꯣꯛꯂꯕ ꯁꯪꯒꯣꯝꯗꯨ ꯑꯐꯕ ꯄꯥꯇ꯭ꯔꯗ ꯍꯥꯞꯇꯨꯅ ꯑꯃꯣꯠ ꯑꯀꯥꯏ, ꯎꯐꯨꯜ, ꯍꯌꯤꯡ, ꯀꯥꯡꯅꯆꯤꯡꯕ ꯑꯃꯣꯠꯄ ꯑꯃꯠꯇ ꯆꯪꯍꯟꯗꯕꯒ ꯂꯣꯏꯅꯅ ꯕꯤꯟꯗꯥ ꯑꯣꯟꯗꯅꯕ ꯀꯨꯏꯅ ꯊꯝꯕ ꯌꯥꯅꯕ, ꯄꯨꯊꯣꯛ ꯄꯨꯁꯤꯟ ꯇꯧꯕꯗ ꯁꯪꯒꯣꯝꯒꯤ ꯀ꯭ꯋꯥꯂꯤꯇꯤ ꯍꯟꯊꯍꯟꯗꯅ ꯊꯝꯕ ꯉꯝꯕ ꯑꯗꯨꯕꯨꯅꯤ꯫
ꯁꯪꯒꯣꯝ ꯐꯥꯊꯅꯕꯒꯤ ꯍꯧꯔꯛꯐꯝ : ꯂꯥꯏꯅꯥ ꯆꯦꯟꯗꯕ ꯁꯟꯕꯤꯗꯒꯤ ꯄꯨꯊꯣꯔꯛꯄ ꯁꯪꯒꯣꯝꯁꯤ ꯑꯐꯕꯅꯤ, ꯃꯁꯤꯗ ꯃꯍꯤꯛ ꯑꯃꯗꯤ ꯐꯠꯇꯕ ꯑꯃꯠꯇ ꯌꯥꯎꯗꯦ ꯑꯗꯨꯕꯨ ꯍꯥꯏꯔꯤꯕ ꯁꯪꯒꯣꯝꯁꯤ ꯅꯤꯡꯊꯤꯅ ꯊꯝꯕꯤꯍꯧꯗ꯭ꯔꯒꯗꯤ ꯃꯣꯠꯍꯟꯕꯒꯤ ꯆꯥꯡ ꯌꯥꯝꯅ ꯋꯥꯡꯏ꯫ ꯃꯁꯤꯗꯁꯨ ꯅꯠꯇꯅ ꯁꯪꯒꯣꯝꯁꯤ ꯑꯩꯈꯣꯏꯅ ꯁꯣꯁꯥꯏꯇꯤꯗ ꯄꯨꯕ ꯃꯇꯝꯗ ꯍꯥꯞꯂꯤꯕ ꯄꯥꯇ꯭ꯔ ꯈꯨꯗꯤꯡꯃꯛ ꯅꯤꯡꯊꯤꯅ ꯆꯥꯝꯊꯣꯛꯄꯤꯍꯧꯗ꯭ꯔꯒꯗꯤ ꯁꯪꯒꯣꯝ ꯏꯪꯍꯜꯂꯒ ꯊꯝꯕꯗ ꯁꯪꯒꯣꯝꯗ ꯕꯦꯛꯇꯔꯤꯌꯥ ꯑꯃꯗꯤ ꯀꯣꯛꯐꯥꯏ ꯁꯨꯖꯥ ꯃꯁꯤꯡ ꯍꯦꯟꯒꯠꯍꯜꯂꯤ꯫ ꯀꯔꯤꯒꯨꯝꯕ ꯁꯥꯕꯒꯤ ꯆꯥꯡ ꯋꯥꯡꯈꯠꯂꯛꯄꯗꯒꯤ ꯁꯪꯒꯣꯝ ꯐꯠꯂꯛꯇꯕꯒꯤ ꯆꯥꯡꯁꯨ ꯌꯥꯝꯅ ꯋꯥꯡꯏ ꯃꯁꯤꯅ ꯌꯥꯝꯅ ꯆꯥꯎꯅ ꯑꯃꯥꯡꯕ ꯑꯃ ꯑꯣꯏꯍꯜꯂꯤ꯫
ꯃꯔꯝꯁꯤꯅ ꯁꯪꯒꯣꯝꯁꯤ ꯐꯅ ꯊꯝꯒꯦ ꯍꯥꯏꯔꯕꯗꯤ ꯃꯈꯥꯒꯤ ꯊꯧꯔꯥꯡꯁꯤꯡ ꯑꯁꯤ ꯄꯥꯏꯈꯠꯄꯤꯒꯅꯤ :
1) ꯁꯪꯒꯣꯟ ꯂꯨ-ꯅꯥꯟꯅ ꯊꯝꯕ :
ꯁꯪꯒꯣꯟ ꯂꯨ-ꯅꯥꯟꯅ ꯊꯝꯕꯤꯗ꯭ꯔꯒꯗꯤ ꯁꯪꯒꯣꯝꯗ ꯃꯍꯤꯛ ꯀꯌꯥ ꯑꯃ ꯆꯪꯂꯛꯇꯨꯅ ꯐꯠꯍꯟꯗꯕꯒꯤ ꯃꯆꯥꯛ ꯑꯃ ꯑꯣꯏꯍꯜꯂꯤ꯫ ꯃꯔꯝ ꯑꯁꯤꯅ ꯑꯩꯈꯣꯏꯅ ꯃꯈꯥꯒꯤ ꯆꯦꯛꯁꯤꯟ ꯊꯧꯔꯥꯡꯁꯤꯡ ꯑꯁꯤ ꯂꯧꯈꯠꯄꯤꯒꯅꯤ꯫
: ꯁꯪꯒꯣꯟꯁꯤ ꯃꯤ ꯂꯩꯕ ꯌꯨꯝꯗꯒꯤ ꯈꯔ ꯂꯥꯞꯅ ꯊꯝꯕꯤꯒꯅꯤ꯫ ꯃꯅꯥꯛꯇ ꯏꯁꯤꯡ ꯇꯨꯡꯁꯤꯟꯍꯟꯕꯤꯔꯣꯏꯗꯕꯅꯤ꯫ ꯁꯟꯊꯤ-ꯁꯟꯌꯨꯡꯁꯤꯡ ꯅꯤꯡꯊꯤꯅ ꯃꯐꯝ ꯆꯥꯅ ꯈꯔ ꯂꯥꯞꯅ ꯍꯨꯟꯗꯣꯛꯄꯤꯒꯅꯤ꯫
: ꯁꯪꯒꯣꯟ ꯁꯥꯕ ꯃꯇꯝꯗ ꯈꯔ ꯋꯥꯡꯈꯠꯄ ꯃꯐꯝꯗ ꯑꯣꯏꯅ ꯁꯥꯕꯤꯒꯅꯤ꯫
: ꯌꯥꯔꯒꯗꯤ ꯁꯪꯒꯣꯟꯒꯤ ꯂꯩꯃꯥꯏꯁꯤ ꯀꯟꯀ꯭ꯔꯤꯠ ꯐ꯭ꯂꯣꯔꯤꯡ ꯑꯣꯏꯍꯟꯕꯅ ꯈ꯭ꯋꯥꯏꯗꯒꯤ ꯍꯦꯟꯅ ꯐꯩ꯫ ꯃꯁꯤꯅ ꯏꯁꯤꯡ ꯁꯤꯖꯤꯟꯅꯗꯨꯅ ꯁꯤꯠ ꯁꯦꯡꯕꯗ ꯌꯥꯝꯅ ꯂꯨ ꯅꯥꯟꯅ ꯊꯝꯕ ꯉꯝꯍꯜꯂꯤ꯫
: ꯁꯪꯒꯣꯟ ꯁꯦꯡꯗꯣꯛꯂꯤꯕ ꯏꯁꯤꯡ ꯑꯃꯗꯤ ꯑꯃꯣꯠ ꯑꯀꯥꯏ ꯃꯊꯤ ꯃꯌꯨꯡ ꯈꯨꯗꯤꯡꯃꯛ ꯗ꯭ꯔꯦꯟꯂꯣꯝꯗ ꯅꯤꯡꯊꯤꯅ ꯄꯨꯗꯨꯅ ꯈꯔ ꯂꯥꯞꯅ ꯊꯥꯗꯕꯤꯒꯅꯤ꯫
: ꯃꯆꯤꯟꯖꯥꯛ ꯍꯥꯞꯂꯤꯕ ꯕꯥꯒꯣꯁꯁꯨ ꯅꯤꯡꯊꯤꯅ ꯁꯦꯡꯗꯣꯛꯂꯒ ꯂꯨ ꯅꯥꯟꯅ ꯊꯝꯕꯤꯒꯅꯤ꯫
: ꯁꯪꯒꯣꯟꯒꯤ ꯂꯩꯃꯥꯏꯗꯨ ꯁꯦꯡꯗꯣꯛꯄ ꯃꯇꯝꯗ ꯏꯁꯤꯡꯅ ꯍꯥꯟꯅ ꯁꯦꯡꯗꯣꯛꯂꯕ ꯇꯨꯡꯗ ꯗꯤꯁꯏꯟꯐꯦꯛꯇꯦꯟꯠ ꯍꯥꯞꯂꯒ ꯑꯃꯨꯛ ꯁꯦꯡꯗꯣꯛꯄꯤꯒꯅꯤ꯫
2. ꯂꯥꯏꯅꯥ ꯇꯤꯜꯅꯥꯗꯒꯤ ꯉꯥꯛꯊꯣꯛꯄ :

ꯁꯟꯕꯨꯁꯤꯡꯅ ꯃꯥꯒꯤ KE ꯈꯨꯗꯤꯡꯃꯛ ꯂꯥꯏꯅꯥ ꯇꯤꯜꯅꯥꯗꯒꯤ ꯉꯥꯛꯊꯣꯛꯅꯕ ꯃꯇꯝ ꯃꯇꯝꯒꯤ ꯇꯤꯀꯥ ꯊꯥꯗꯣꯛꯄꯤꯒꯅꯤ꯫ ꯃꯇꯝ ꯈꯨꯗꯤꯡꯃꯛꯇ ꯈꯣꯝꯗ ꯍꯧꯕ꯭ꯔ ꯍꯧꯗꯕ꯭ꯔ ꯍꯥꯏꯅ ꯆꯦꯛ ꯇꯧꯊꯣꯛꯄꯤꯒꯅꯤ꯫ ꯁꯪꯒꯣꯝ ꯁꯨꯝꯗ꯭ꯔꯤꯉꯩꯒꯤ ꯃꯥꯡꯗ ꯃꯈꯣꯝꯁꯤꯡ ꯅꯤꯡꯊꯤꯅ ꯆꯥꯝꯊꯣꯛꯄꯤꯒꯅꯤ꯫ ꯑꯃꯗꯤ ꯁꯪꯒꯣꯟꯗ ꯃꯊꯤ ꯃꯌꯨꯡ ꯆꯥꯏꯗꯨꯅ ꯊꯝꯕꯤꯔꯣꯏꯗꯕꯅꯤ꯫ ꯃꯆꯥ ꯄꯣꯛꯇ꯭ꯔꯤꯉꯩꯒꯤ ꯃꯃꯥꯡꯗ ꯇꯤꯜ ꯆꯦꯟꯗꯕ ꯇꯤꯜ ꯍꯤꯗꯥꯛ ꯊꯥꯗꯣꯛꯄꯤꯒꯅꯤ꯫

3. ꯁꯪꯒꯣꯝ ꯁꯨꯝꯕꯗ ꯆꯦꯛꯁꯤꯟ ꯊꯧꯔꯥꯡ ꯂꯧꯍꯧꯕ
: ꯆꯦꯛꯁꯤꯟꯅ ꯁꯪꯒꯣꯝ ꯁꯨꯝꯕꯤꯒꯅꯤ
: ꯁꯪꯒꯣꯝ ꯁꯨꯝꯒꯗꯕ ꯁꯟꯕꯤꯗꯨ
ꯂꯥꯡꯍꯟꯕꯤꯔꯣꯏꯗꯕꯅꯤ ꯑꯃꯗꯤ ꯆꯥꯡ ꯅꯥꯏꯅ ꯁꯪꯒꯣꯝ
ꯁꯨꯝꯕꯤꯒꯅꯤ꯫
: ꯁꯟꯕꯤ ꯈꯨꯗꯤꯡꯃꯛ ꯈꯣꯝꯗ ꯍꯧꯕ꯭ꯔ
ꯅꯠꯇ꯭ꯔꯒ ꯍꯧꯗꯕ꯭ꯔ ꯍꯥꯏꯕꯗꯨ ꯈꯪꯗꯣꯛꯄꯤꯒꯅꯤ꯫
: ꯀꯔꯤꯒꯨꯝꯕ ꯁꯟꯕꯤꯗꯨ ꯅꯥꯔꯒ
ꯍꯤꯗꯥꯛ ꯂꯥꯡꯊꯛ ꯁꯤꯖꯤꯟꯅꯔꯒꯗꯤ ꯁꯨꯝꯗꯣꯛꯂꯕ
ꯁꯪꯒꯣꯝꯗꯨ ꯑꯇꯣꯞꯄ ꯅꯥꯗꯕ ꯁꯪꯒꯣꯝꯒ ꯄꯨꯟꯅ
ꯇꯤꯟꯁꯤꯟꯕꯤꯔꯣꯏꯗꯕꯅꯤ ꯑꯃꯗꯤ ꯑꯇꯣꯞꯄꯗ
ꯌꯣꯟꯊꯣꯛꯄꯤꯔꯣꯏꯗꯕꯅꯤ꯫ ꯃꯔꯝꯗꯤ ꯁꯪꯒꯣꯝꯗꯁꯨ
ꯄꯤꯖꯔꯤꯕ ꯍꯤꯗꯥꯛꯀꯤ ꯔꯦꯁꯤꯗ꯭ꯌꯨ ꯌꯥꯎꯔꯛꯏ꯫ ꯃꯁꯤ
ꯌꯥꯝꯗ꯭ꯔꯕꯗ ꯍꯤꯗꯥꯛꯀꯤ ꯀꯣꯔꯁ ꯄꯤꯖꯕ ꯂꯣꯏꯔꯒ
ꯍꯤꯗꯥꯛꯀꯤ ꯋꯤꯊꯗ꯭ꯔꯣꯑꯦꯜ ꯄꯦꯔꯤꯑꯣꯗ ꯅꯨꯃꯤꯠ ꯍꯨꯝꯅꯤ
ꯐꯥꯎꯕꯗꯗꯤ ꯂꯩꯅꯩ꯫

: ꯁꯪꯒꯣꯝ ꯁꯨꯝꯗ꯭ꯔꯤꯉꯩꯒꯤ ꯃꯃꯥꯡꯗ ꯃꯈꯣꯝ/
ꯃꯊꯥ, ꯈꯣꯝꯖꯤꯟ ꯑꯃꯗꯤ ꯃꯁꯥꯒꯤ ꯅꯥꯀꯜ ꯑꯅꯤꯃꯛ ꯑꯐꯕ
ꯏꯁꯤꯡꯅ ꯆꯥꯝꯊꯣꯛꯄꯤꯔꯒ ꯑꯀꯪꯕ ꯐꯤꯅ ꯇꯩꯊꯣꯛꯄꯤꯒꯅꯤ꯫
: ꯀꯔꯤꯒꯨꯝꯕꯗ ꯁꯟꯕꯤꯗꯨ ꯌꯥꯝꯅ ꯂꯦꯡꯕ ꯑꯣꯏꯔꯒꯗꯤ ꯁꯟꯕꯤꯗꯨꯒꯤ ꯃꯃꯩꯗꯨ ꯃꯈꯣꯡꯗ ꯄꯨꯟꯁꯤꯟꯕꯤꯒꯅꯤ꯫
: ꯁꯪꯒꯣꯝ ꯁꯨꯝꯗ꯭ꯔꯤꯉꯩ ꯃꯃꯥꯡꯗ ꯁꯟꯕꯤꯒꯤ ꯃꯈꯣꯝꯗꯨ/ꯃꯊꯥꯗꯨ ꯅꯤꯡꯊꯤꯅ ꯆꯥꯝꯊꯣꯛꯂꯕ ꯃꯇꯨꯡꯗ ꯑꯀꯪꯕ ꯐꯤꯅ ꯇꯩꯊꯣꯛꯂꯒ ꯈꯣꯝꯖꯤꯟꯗꯨ ꯈꯔ ꯁꯨꯝꯗꯣꯛꯄꯤꯒꯅꯤ꯫
: ꯁꯟꯕꯤ ꯑꯃꯒ ꯁꯟꯕꯤ ꯑꯃꯒ ꯁꯪꯒꯣꯝ ꯁꯨꯝꯕꯗ ꯁꯤꯖꯤꯟꯅꯒꯗꯕ ꯐꯤꯗꯨ ꯇꯣꯉꯥꯟ ꯇꯣꯉꯥꯟ ꯑꯣꯏꯒꯅꯤ꯫ ꯀꯔꯤꯒꯨꯝꯕꯗ ꯐꯤ ꯑꯃꯈꯛꯇ ꯁꯤꯖꯤꯟꯅꯕ ꯇꯥꯔꯒꯗꯤ ꯗꯤꯁꯏꯟꯐꯦꯛꯇꯦꯟꯠ ꯍꯥꯞꯂꯒ ꯆꯥꯝꯊꯣꯛꯂꯕ ꯃꯇꯨꯡ ꯑꯃꯨꯛ ꯍꯟꯅ ꯁꯤꯖꯤꯟꯅꯕꯤꯒꯅꯤ꯫
: ꯁꯪꯒꯣꯝ ꯁꯨꯝꯒꯗꯧꯔꯤꯕ ꯃꯤꯑꯣꯏꯗꯨ ꯂꯨ ꯅꯥꯟꯅ ꯑꯅꯥ ꯑꯌꯦꯛ ꯌꯥꯎꯗꯕ ꯑꯣꯏꯒꯅꯤ꯫ ꯑꯃꯣꯠꯄ ꯐꯤꯔꯣꯜ ꯁꯦꯠꯄꯤꯔꯣꯏꯗꯕꯅꯤ꯫ ꯈꯨꯠꯁꯥ ꯅꯤꯡꯊꯤꯅ ꯁꯦꯡꯅ ꯁꯥꯄꯣꯟꯅ ꯍꯥꯝꯂꯕ ꯇꯨꯡꯗ ꯁꯪꯒꯣꯝ ꯁꯨꯝꯕꯤꯒꯅꯤ꯫
: ꯁꯪꯒꯣꯝ ꯁꯨꯝꯕ ꯃꯇꯝꯗ ꯑꯍꯥꯟꯕ ꯁꯨꯝꯕ ꯁꯪꯒꯣꯝꯗꯨ ꯈꯔ ꯍꯩꯗꯣꯛꯂꯒ ꯀꯣꯟꯅ ꯄꯨꯜꯂꯞ ꯁꯨꯝꯗꯣꯛꯄꯤꯒꯅꯤ꯫ ꯃꯈꯣꯝꯗ ꯁꯪꯒꯣꯝ ꯂꯦꯝꯍꯧꯅ ꯊꯝꯕꯤꯔꯣꯏꯗꯕꯅꯤ꯫ ꯑꯍꯥꯟꯕꯒꯤ ꯁꯪꯒꯣꯝ ꯈꯔ ꯍꯩꯗꯣꯛꯄꯒꯤ ꯃꯔꯝꯗꯤ ꯑꯍꯥꯟꯕ ꯁꯪꯒꯣꯝꯁꯤ ꯕꯦꯛꯇꯔꯤꯌꯥꯒꯤ ꯆꯥꯡ ꯌꯥꯝꯅ ꯋꯥꯡꯅ ꯌꯥꯎꯏ꯫ ꯃꯁꯤꯕꯨ ꯁꯪꯒꯣꯝꯗ ꯄꯨꯟꯁꯤꯟꯈ꯭ꯔꯗꯤ ꯁꯪꯒꯣꯝꯗꯨ ꯐꯠꯍꯟꯗꯕꯒꯤ ꯑꯆꯧꯕ ꯃꯆꯧꯕ ꯃꯆꯥꯛ ꯑꯃ ꯑꯣꯏꯍꯜꯂꯤ꯫ : ꯁꯨꯝꯂꯤꯕ ꯁꯪꯒꯣꯝꯗ ꯈꯨꯠ ꯂꯨꯞꯁꯤꯟꯕꯤꯔꯣꯏꯗꯕꯅꯤ꯫ ꯆꯣꯠꯅ ꯁꯪꯒꯣꯝ ꯁꯨꯝꯕꯤꯔꯣꯏꯗꯕꯅꯤ꯫ : ꯁꯪꯒꯣꯝ ꯁꯨꯝꯂꯝꯗꯥꯏꯗ ꯈꯨꯠꯇ ꯊꯥꯎ ꯍꯥꯞꯂꯒ ꯁꯨꯝꯕꯒꯤ ꯃꯍꯨꯠꯇ ꯘꯤ ꯑꯣꯏꯅ ꯍꯥꯞꯄꯤꯔꯒ ꯁꯨꯝꯕꯅ ꯈ꯭ꯋꯥꯏꯗꯒꯤ ꯍꯦꯟꯅ ꯐꯩ꯫
: ꯈꯨꯕꯤꯒ ꯈꯨꯗꯣꯟꯕꯤꯒ ꯁꯪꯒꯣꯝ ꯁꯨꯝꯕꯒꯤ ꯃꯍꯨꯠꯇ ꯈꯨꯠ ꯄꯨꯜꯂꯞ ꯈꯣꯝꯖꯤꯟꯗꯨꯅ ꯄꯥꯏꯁꯤꯜꯂꯒ ꯈꯨꯕꯤꯅ ꯆꯤꯡꯊꯕꯅ ꯍꯦꯟꯅ ꯐꯩ꯫ ꯃꯁꯤ ꯁꯪꯒꯣꯝ ꯂꯣꯏꯅ ꯁꯨꯝꯗꯣꯛꯄ ꯉꯝꯕꯗ ꯅꯠꯇꯅ ꯈꯣꯝꯗ ꯁꯪꯒꯣꯝ ꯂꯦꯝꯍꯧꯗꯦ ꯑꯃꯗꯤ ꯈꯣꯝꯖꯤꯟ ꯍꯦꯟꯅ ꯁꯥꯡꯗꯣꯛꯍꯟꯗꯦ꯫
: ꯃꯅꯤꯡ ꯊꯪꯕ ꯈꯣꯝꯖꯤꯟꯅ ꯍꯥꯟꯅ ꯁꯨꯝꯗꯣꯛꯂꯕ ꯇꯨꯡꯗ ꯃꯃꯥꯡꯗ ꯑꯃꯨꯛ ꯁꯨꯝꯕꯤꯒꯅꯤ꯫ ꯃꯔꯝꯗꯤ ꯁꯪꯒꯣꯝ ꯑꯌꯥꯝꯕ ꯃꯅꯤꯡꯗ ꯍꯦꯟꯅ ꯂꯩ꯫
: ꯁꯪꯒꯣꯝ ꯁꯨꯝꯕ ꯃꯇꯝꯗ ꯁꯪꯒꯣꯝ ꯁꯨꯝꯂꯤꯕ ꯃꯤꯗꯨꯅ ꯂꯣꯛ ꯈꯨꯕ, ꯍꯥꯛꯊꯤ ꯈꯟꯕ ꯇꯧꯕꯤꯔꯣꯏꯗꯕꯅꯤ ꯃꯔꯝꯗꯤ ꯃꯁꯥꯒꯤ ꯍꯨꯃꯥꯡ ꯁꯪꯒꯣꯝꯗ ꯇꯥꯍꯟꯂꯣꯏꯗꯕꯅꯤ꯫
: ꯁꯪꯒꯣꯝ ꯁꯨꯝꯕ ꯂꯣꯏꯔꯒ ꯅꯤꯡꯊꯤꯅ ꯏꯁꯤꯡ ꯑꯁꯥꯕꯅ ꯈꯣꯝꯖꯤꯟ ꯈꯨꯗꯤꯡꯃꯛ ꯆꯥꯝꯊꯣꯛꯄꯤꯒꯅꯤ꯫
4. ꯄꯤꯖ ꯄꯤꯊꯛꯄꯗ ꯆꯦꯛꯁꯤꯟꯕꯤꯒꯗꯕ

: ꯑꯔꯤꯕ ꯃꯆꯤꯟꯖꯥꯛ, ꯑꯦꯟꯁꯥꯡ ꯅꯥꯄꯤ ꯑꯔꯦꯝ ꯑꯄꯥ ꯈꯨꯗꯤꯡꯃꯛ ꯁꯪꯒꯣꯝ ꯁꯨꯝꯗ꯭ꯔꯤꯉꯩ ꯃꯃꯥꯡꯗ ꯄꯤꯖꯕꯤꯔꯣꯏꯗꯕꯅꯤ꯫ ꯃꯁꯤꯅ ꯁꯪꯒꯣꯝꯗ ꯑꯇꯣꯞꯄ ꯃꯅꯝ ꯑꯃ ꯆꯦꯜꯍꯜꯂꯤ꯫
: ꯑꯐꯕ ꯁꯪꯒꯣꯝ ꯍꯥꯏꯔꯒ ꯁꯨꯝꯗꯣꯛꯂꯕ ꯁꯪꯒꯣꯝꯗꯨ ꯐꯤꯗ ꯆꯨꯝꯊꯣꯛꯂꯒ ꯑꯐꯕ ꯑꯣꯏꯕ ꯅꯠꯇꯦ꯫ ꯃꯁꯤ ꯑꯅꯥ ꯑꯌꯦꯛ ꯌꯥꯎꯗꯕ ꯃꯁꯥ ꯃꯎ ꯐꯕ ꯁꯟꯗꯒꯤ ꯄꯤꯕ ꯁꯪꯒꯣꯝꯅꯤ꯫ ꯃꯁꯤ ꯁꯦꯟꯅꯔꯤꯕ ꯁꯟꯕꯨꯅ ꯅꯤꯡꯊꯤꯅ ꯂꯨ ꯅꯥꯟꯅ ꯁꯨꯝꯂꯕꯗꯤ ꯀ꯭ꯋꯥꯂꯤꯇꯤ ꯂꯩꯅ ꯁꯪꯒꯣꯝ ꯄꯨꯊꯣꯛꯄ ꯉꯝꯕꯇ ꯅꯠꯇꯅ ꯁꯦꯟꯗꯣꯡ ꯂꯩꯅ ꯌꯣꯟꯕꯁꯨ ꯉꯝꯒꯅꯤ꯫=

ꯁꯟꯕꯨꯁꯤꯡꯅ ꯑꯐꯕ ꯁꯪꯒꯣꯝ ꯄꯨꯊꯣꯛꯄ
ꯐꯧꯈꯣꯛ ꯃꯨꯕꯤ ꯑꯃꯁꯨꯡ ꯐꯧꯈꯣꯛ ꯂꯥꯡꯕꯤ
ꯗꯥ. ꯑꯦꯝ FOTFOT ꯁꯤꯡꯍ
ꯐꯧꯈꯣꯛ ꯃꯨꯕꯤ ꯑꯃꯁꯨꯡ ꯐꯧꯈꯣꯛ ꯂꯥꯡꯕꯤ ꯂꯥꯏꯅꯥ : ꯂꯥꯏꯅꯥꯁꯤꯡꯁꯤ
ꯂꯧꯕꯨꯛꯀꯤ ꯆꯤꯗꯥꯏꯗ ꯂꯦꯞꯂꯒ ꯌꯦꯡꯕꯗꯗꯤ ꯎꯗꯕ ꯌꯥꯝꯅ ꯅꯛꯁꯤꯟꯅ
ꯌꯦꯡꯂꯒꯗꯤ ꯎꯒꯅꯤ꯫ ꯐꯧꯔꯛꯇ ꯆꯪꯗꯨꯅ ꯐꯧꯈꯣꯛꯁꯤꯡꯗꯨ ꯆꯦꯛꯁꯤꯟꯅ
ꯌꯦꯡꯕꯗ ꯅꯠꯇ꯭ꯔꯒ ꯅꯥꯄꯤ ꯄꯦꯡꯕ ꯃꯇꯝꯗ ꯂꯥꯏꯅꯥꯁꯤꯡꯁꯤ
ꯊꯦꯡꯅꯒꯅꯤ꯫ ꯂꯥꯏꯅꯥꯁꯤꯡ ꯑꯁꯤꯅ ꯌꯥꯝꯅ ꯃꯥꯡꯍꯟꯕ ꯑꯣꯏꯅ
ꯎꯗ꯭ꯔꯕꯁꯨ ꯆꯔꯣꯡ ꯆꯨꯝꯕ ꯋꯥꯠꯄ ꯑꯃꯁꯨꯡ ꯐꯧ ꯃꯔꯨ ꯆꯪꯕ ꯋꯥꯠꯄꯅ
ꯄꯣꯠꯊꯣꯛ ꯌꯥꯝꯅ ꯍꯟꯊꯩ꯫
ꯐꯧꯈꯣꯛ ꯃꯨꯕꯤ (Stem rot), ꯂꯥꯏꯅꯥ ꯊꯣꯛꯍꯜꯂꯤꯕ ꯀꯣꯛꯐꯥꯏ :
Sclerotium oryzae.
ꯂꯥꯏꯑꯣꯡ : ꯊꯥꯞꯅ ꯌꯦꯡꯕꯗ ꯈ꯭ꯋꯥꯏꯗꯒꯤ ꯃꯈꯥ ꯇꯥꯕ ꯐꯧꯅꯥꯁꯤꯡ
ꯅꯥꯄꯨ ꯃꯆꯨ ꯆꯪꯕ ꯎꯒꯅꯤ꯫ ꯏꯁꯤꯡ ꯏꯃꯥꯏ ꯃꯄꯥꯗ ꯂꯩꯔꯤꯕ ꯐꯧꯈꯣꯛꯇ
ꯃꯩꯇꯥꯟꯃꯨꯛ ꯃꯨꯕ ꯃꯑꯣꯡ ꯃꯔꯤꯜ ꯅꯥꯏꯗꯕ ꯗꯥꯒꯁꯤꯡ ꯎꯒꯅꯤ꯫ ꯂꯥꯏꯅꯥ
ꯑꯁꯤꯅ ꯄꯨꯝꯍꯟꯕꯒꯤ ꯃꯑꯣꯡ ꯃꯇꯧ ꯑꯁꯤ ꯄꯥꯝꯕꯤ ꯑꯁꯤꯃꯛꯀꯤ
ꯃꯅꯨꯡ ꯊꯪꯕ ꯃꯀꯥꯅ ꯐꯥꯎꯖꯤꯟꯕ ꯉꯝꯃꯤ꯫ ꯃꯇꯨꯡꯗ ꯐꯧꯈꯣꯛ
ꯌꯧꯅꯕ ꯁꯣꯛꯍꯜꯂꯛꯏ꯫ ꯂꯥꯏꯅꯥ ꯑꯁꯤꯅ ꯅꯥꯔꯤꯕ ꯃꯅꯥ ꯑꯗꯨꯈꯛ
ꯀꯪꯁꯤꯜꯂꯛꯇꯨꯅ ꯆꯔꯨ ꯃꯥꯜꯂꯛꯏ꯫ ꯐꯧ ꯄꯥꯝꯕꯤꯅ ꯃꯄꯨꯡ ꯐꯥꯔꯛꯄꯒ
ꯂꯣꯏꯅꯅ ꯂꯥꯏꯅꯥ ꯑꯁꯤ ꯅꯥꯕꯒꯤ ꯆꯥꯡꯁꯨ ꯍꯦꯟꯒꯠꯂꯛꯏ꯫
ꯑꯁꯤꯒꯨꯝꯕ ꯄꯥꯝꯕꯤꯁꯤꯡꯗꯒꯤ ꯄꯨꯊꯣꯔꯛꯄ ꯐꯧ ꯆꯔꯣꯡꯗꯤ
ꯌꯥꯝꯅ ꯄꯤꯛꯏ ꯑꯃꯁꯨꯡ ꯊꯦꯡꯉꯤ꯫ ꯐꯧ ꯈꯥꯎꯈ꯭ꯔꯕ ꯃꯇꯨꯡꯗ
ꯆꯔꯨꯈꯣꯛꯁꯤꯡꯗꯨ ꯌꯨꯡꯅ ꯁꯦꯒꯥꯏꯗꯨꯅ ꯌꯦꯡꯕꯗ ꯍꯪꯒꯥꯝ ꯃꯔꯨꯗꯒꯤ ꯍꯦꯟꯅ ꯀꯨꯞꯄ ꯀꯣꯛꯐꯥꯏ ꯃꯔꯨ, ꯁ꯭ꯀꯦꯂꯦꯔꯣꯁꯤꯌꯥꯁꯤꯡ ꯎꯒꯅꯤ꯫ ꯂꯥꯏꯅꯥ ꯑꯁꯤꯒꯤ ꯇꯣꯉꯥꯟꯕ ꯂꯥꯏꯑꯣꯡꯗꯤ ꯁ꯭ꯀꯦꯂꯦꯔꯣ- ꯁꯤꯌꯥꯁꯤꯡ ꯃꯁꯤꯡ ꯌꯥꯝꯅ ꯄꯨꯊꯣꯛꯄꯁꯤꯅꯤ꯫ ꯑꯗꯨꯒ ꯑꯃꯅ ꯂꯧꯐꯝꯗꯨ ꯐꯧ ꯂꯤꯡꯅꯕ ꯁꯦꯝꯕ ꯃꯇꯝꯗ ꯍꯪꯒꯥꯝ ꯃꯔꯨ ꯃꯥꯟꯕ ꯁ꯭ꯀꯦꯂꯦꯔꯣꯁꯤꯌꯥ ꯌꯥꯝꯅ ꯇꯥꯎꯕ ꯎꯒꯅꯤ꯫
ꯂꯥꯏꯅꯥꯁꯤꯅ ꯄꯤꯔꯛꯄ ꯆꯩꯊꯦꯡ : ꯂꯥꯏꯅꯥ ꯑꯁꯤꯅ ꯐꯧ ꯄꯥꯝꯕꯤꯁꯤꯡ ꯁꯣꯟꯊꯍꯜꯂꯤ꯫ ꯃꯔꯨ ꯆꯪꯍꯟꯗꯦ꯫ ꯐꯧꯊꯣꯛ ꯍꯟꯊꯍꯜꯂꯤ꯫ ꯀꯔꯤꯒꯨꯝꯕ ꯂꯥꯏꯅꯥ ꯑꯁꯤ ꯉꯟꯅ ꯇꯥꯔꯕꯗꯤ ꯐꯧꯍꯥꯝ ꯁꯥꯠꯍꯜꯂꯤ꯫ ꯈꯔ ꯊꯦꯡꯅ ꯇꯥꯔꯒꯅ ꯃꯔꯨ ꯆꯪꯕ ꯋꯥꯠꯂꯤ꯫ ꯇꯞꯅ ꯇꯞꯅ ꯁꯤꯠꯄ ꯅꯨꯡꯁꯤꯠꯅ ꯂꯥꯏꯅꯥ ꯆꯦꯜꯂꯕ ꯐꯧ ꯄꯥꯝꯕꯤꯁꯤꯡꯕꯨ ꯇꯨꯍꯟꯕ ꯉꯝꯃꯤ꯫
ꯂꯥꯏꯅꯥꯁꯤ ꯇꯥꯒꯟꯕ ꯃꯐꯝꯁꯤꯡ : 1) ꯏꯁꯤꯡ ꯇꯨꯡꯒꯟꯕ, ꯏꯁꯤꯡ ꯆꯤꯊꯣꯛꯄ ꯋꯥꯕ ꯃꯐꯝꯁꯤꯡ 2) ꯄꯣꯇꯥꯁꯀꯤ ꯆꯥꯡ ꯅꯦꯝꯕ ꯃꯐꯝꯁꯤꯡ ꯑꯃꯗꯤ 3) ꯅꯥꯏꯇ꯭ꯔꯣꯖꯦꯟ ꯑꯃꯁꯨꯡ ꯐꯣꯁꯐꯔꯁꯀꯤ ꯆꯥꯡ ꯋꯥꯡꯅ ꯍꯥꯞꯂꯒ ꯄꯣꯇꯥꯁꯀꯤ ꯆꯥꯡ ꯌꯥꯝꯅ ꯅꯦꯝꯅ ꯍꯥꯞꯄ ꯃꯐꯝꯁꯤꯡ꯫

ꯂꯧꯕꯨꯛꯇ ꯂꯥꯏꯅꯥ ꯑꯁꯤ ꯍꯟꯅ ꯍꯟꯅ ꯎꯕꯒꯤ ꯃꯔꯝ : ꯐꯧ ꯄꯥꯝꯕꯤꯅ ꯃꯄꯨꯡ ꯐꯥꯔꯛꯄꯒ ꯂꯣꯏꯅꯅ ꯊꯣꯛꯍꯜꯂꯤꯕ ꯀꯣꯛꯐꯥꯏ ꯃꯈꯜꯁꯤꯁꯨ ꯃꯁꯥꯒꯤ ꯙꯥꯔꯥꯕꯨ ꯀꯟꯖꯅꯕꯒꯤꯗꯃꯛ ꯍꯪꯒꯥꯝ ꯃꯔꯨ ꯃꯥꯟꯕ ꯔꯦꯁꯇꯤꯡ ꯁ꯭ꯇ꯭ꯔꯛꯆꯔ ꯑꯣꯏꯕ ꯁ꯭ꯀꯦꯂꯦꯔꯣꯁꯤꯌꯥ ꯀꯌꯥ ꯆꯔꯨꯈꯣꯛ ꯃꯅꯨꯡꯗ ꯊꯅꯝꯃꯤ꯫ ꯑꯁꯤꯒꯨꯝꯕ ꯁꯀꯦꯂꯦꯔꯣꯁꯤꯌꯥ ꯀꯌꯥꯁꯤꯅ ꯃꯊꯪꯒꯤ ꯀꯨꯝ ꯂꯥꯛꯄꯗ ꯑꯃꯨꯛ ꯂꯥꯏꯅꯥ ꯁꯟꯗꯣꯛꯏ꯫ ꯐꯧ ꯂꯤꯡꯈ꯭ꯔꯕ ꯅꯠꯇ꯭ꯔꯒ ꯍꯨꯟꯅꯕꯒꯤꯗꯃꯛ ꯂꯧꯐꯝꯗꯨ ꯏꯅꯥꯡ ꯇꯥꯅ ꯅꯩꯕ ꯃꯇꯝꯗ ꯁ꯭ꯀꯦꯂꯦꯔꯣꯁꯤꯌꯥꯁꯤꯡꯗꯨ ꯏꯁꯤꯡ ꯃꯊꯛꯇ ꯀꯣꯏꯇꯥꯎ ꯇꯥꯎꯗꯨꯅ ꯂꯩ꯫ ꯌꯦꯡꯕꯗ ꯅꯥꯄꯤ ꯃꯔꯨꯁꯤꯡ ꯏꯁꯤꯡꯗ ꯇꯥꯎꯗꯨꯅ ꯂꯩꯕ ꯃꯥꯜꯂꯤ꯫ ꯂꯧ ꯂꯤꯡꯂꯕ ꯃꯇꯨꯡꯗꯗꯤ ꯇꯥꯎꯔꯤꯕ ꯁ꯭ꯀꯦꯂꯦꯔꯣꯁꯤ- ꯌꯥꯁꯤꯡꯗꯨ ꯁꯔꯐꯦꯁ ꯇꯦꯟꯁꯟꯅ ꯐꯧꯈꯣꯛꯁꯤꯡꯗꯨꯗ ꯅꯞ-ꯅꯞꯇꯨꯅ ꯂꯩꯈꯤ ꯑꯃꯁꯨꯡ ꯃꯐꯝ ꯑꯗꯨꯗ ꯃꯌꯣꯟ ꯆꯣꯡꯗꯨꯅ ꯃꯔ ꯏꯟꯊꯣꯔꯛꯏ, ꯐꯧ ꯄꯥꯝꯕꯤꯗꯨ ꯂꯥꯏꯅꯥ ꯑꯁꯤ ꯅꯥꯕ ꯍꯧꯔꯛꯏ꯫ ꯑꯃꯔꯣꯝꯗ ꯅꯞꯍꯧꯗꯕ ꯇꯥꯎꯗꯨꯅ ꯂꯩꯔꯤꯕ ꯁ꯭ꯀꯦꯂꯦꯔꯣꯁꯤꯌꯥꯁꯤꯡꯗꯨꯁꯨ ꯃꯇꯣꯟ ꯊꯣꯔꯛꯇꯨꯅ ꯀꯣꯅꯤꯗꯤꯌꯥꯁꯤꯡ (ꯀꯣꯛꯐꯥꯏ ꯃꯔꯨ) ꯄꯨꯊꯣꯛꯔꯏ꯫ ꯃꯁꯤꯅꯁꯨ ꯐꯧ ꯄꯥꯝꯕꯤꯗ ꯂꯥꯏꯅꯥ ꯑꯁꯤꯃꯛ ꯊꯣꯛꯍꯜꯂꯤ꯫ ꯂꯥꯏꯅꯥ ꯑꯁꯤ ꯐꯧ ꯄꯥꯝꯕꯤꯅ ꯅꯨꯃꯤꯠ 45 ꯅꯤꯃꯛꯨ ꯁꯨꯔꯛꯄ ꯍꯥꯏꯕꯗꯤ ꯃꯆꯥ ꯄꯣꯛꯄ ꯃꯇꯝꯗ ꯑꯍꯥꯟꯕ ꯂꯥꯏꯑꯣꯡꯁꯤꯡ ꯎꯕ ꯍꯧꯔꯛꯏ꯫
ꯉꯥꯛꯊꯣꯛꯅꯕ ꯄꯥꯝꯕꯩꯁꯤꯡ : 1) ꯅꯥꯏꯇ꯭ꯔꯣꯖꯦꯟ ꯑꯃꯁꯨꯡ ꯐꯣꯁꯐꯔꯁꯀꯤ ꯆꯥꯡ ꯍꯟꯊꯕ, ꯄꯣꯇꯥꯁ (ꯑꯦꯝ ꯑꯣ ꯄꯤ) ꯒꯤ ꯆꯥꯡ ꯈꯔ ꯋꯥꯡꯍꯟꯕ, ꯑꯦꯝ ꯑꯣ ꯄꯤ ꯀꯤꯂꯣꯒ꯭ꯔꯥꯝ 65 ꯄꯔꯤ
ꯑꯃ ꯆꯥꯎꯕ ꯂꯧꯐꯝꯗ ꯍꯥꯞꯇꯨꯅ ꯂꯥꯏꯅꯥ ꯑꯁꯤ ꯍꯟꯊꯍꯟꯕ
ꯉꯝꯃꯤ꯫ 2) ꯂꯥꯏꯅꯥ ꯆꯦꯜꯂꯕ ꯆꯔꯨꯈꯣꯛꯁꯤꯡ ꯃꯩ ꯊꯥꯗꯣꯛꯀꯅꯤ꯫
ꯅꯤꯡꯊꯝꯊꯥꯗ ꯍꯪꯒꯥꯝ ꯊꯥꯔꯝꯗꯥꯏꯗ ꯆꯔꯨꯈꯣꯛꯁꯤꯡ ꯃꯩ ꯊꯥꯗꯣꯛꯄꯁꯤꯁꯨ
ꯂꯥꯏꯅꯥ ꯑꯁꯤꯒꯤꯗꯃꯛꯇꯤ ꯀꯥꯟꯅꯕ ꯑꯃꯅꯤ꯫ 3) ꯏꯁꯤꯡ
ꯆꯤꯡꯊꯣꯛꯄꯒꯤ ꯈꯨꯗꯣꯡꯆꯥꯕ ꯂꯩꯔꯕꯗꯤ ꯏꯁꯤꯡ ꯆꯤꯊꯣꯛꯂꯕ ꯃꯇꯨꯡꯗ
Hexaconazole 5% ꯃꯤꯂꯤꯂꯤꯇꯔ 15 ꯏꯁꯤꯡ ꯂꯤꯇꯔ 15
ꯈꯨꯗꯤꯡꯗ ꯌꯥꯜꯂꯒ ꯐꯧꯈꯣꯛ ꯆꯣꯠꯅꯕ ꯀꯥꯞꯊꯣꯛꯂꯕ ꯃꯇꯨꯡ ꯅꯨꯃꯤꯠ
ꯅꯤꯅꯤ ꯂꯩꯔꯒ ꯏꯁꯤꯡ ꯑꯃꯨꯛ ꯊꯥꯖꯤꯟꯕ ꯌꯥꯏ꯫ 4) ꯐꯧ ꯂꯤꯡꯂꯝꯗꯥꯏ
ꯅꯠꯇ꯭ꯔꯒ ꯍꯨꯜꯂꯝꯗꯥꯏꯗ ꯇꯥꯎꯗꯨꯅ ꯂꯩꯔꯤꯕ ꯀꯣꯛꯐꯥꯏ ꯀꯔꯨꯁꯤꯡꯕꯨ
ꯖꯥꯂꯤ ꯑꯃꯅ ꯁꯦꯝꯂꯕ ꯂꯣꯡꯊ꯭ꯔꯥꯏꯅ ꯀꯣꯠꯊꯣꯛꯍꯧꯒꯅꯤ꯫
ꯐꯧꯈꯣꯛ ꯂꯥꯡꯕꯤ (Sheath blight), ꯂꯥꯏꯅꯥ ꯊꯣꯛꯍꯜꯂꯤꯕ
sOdWkT : Rhizoctania salani.

ꯂꯥꯏꯑꯣꯡ : ꯂꯥꯏꯅꯥ ꯑꯁꯤ ꯐꯧ ꯄꯥꯝꯕꯤꯅ ꯃꯄꯨꯡ ꯃꯔꯩ ꯐꯥꯔꯛꯄ
ꯍꯥꯏꯕꯗꯤ ꯃꯆꯥ ꯄꯣꯛꯊꯣꯛꯄ ꯑꯃꯁꯨꯡ ꯃꯄꯥꯜ ꯁꯥꯠꯂꯛꯄ ꯃꯇꯝꯗ
ꯅꯥꯒꯜꯂꯤ꯫ ꯂꯥꯏꯅꯥ ꯑꯁꯤ ꯃꯅꯥꯒꯤ ꯃꯈꯥ ꯊꯪꯕ ꯁꯔꯨꯛ ꯍꯥꯏꯕꯗꯤ ꯏꯃꯥꯏꯒ
ꯅꯛꯅꯅ ꯂꯩꯔꯤꯕ ꯄꯥꯝꯕꯤꯕꯨ ꯌꯣꯝꯁꯤꯜꯂꯤꯕ ꯃꯀꯥꯒꯤ ꯁꯔꯨꯛꯇ ꯑꯉꯧꯕ
ꯃꯄꯥꯛ ꯃꯄꯥꯛ ꯑꯣꯏꯅ ꯎꯔꯝꯕꯗꯒꯤ ꯃꯊꯛꯂꯣꯝꯗ ꯑꯁꯨꯝ ꯑꯁꯨꯝ
ꯁꯟꯗꯣꯔꯛꯀꯅꯤ꯫ ꯃꯑꯣꯡ ꯑꯃꯁꯨꯡ ꯆꯥꯎꯕ ꯃꯥꯟꯅꯗꯕ, ꯆꯣꯠ ꯆꯣꯠ
ꯂꯥꯎꯕ ꯇꯣꯡꯇꯛ ꯇꯧꯕ BG ꯃꯥꯟꯕ ꯃꯆꯨ ꯑꯣꯏꯅ ꯇꯧꯕ ꯗꯥꯒꯁꯤꯡ ꯂꯩꯕ
ꯊꯦꯡꯅꯒꯅꯤ꯫ ꯗꯥꯒꯁꯤꯡ ꯑꯗꯨꯒꯤ ꯑꯀꯣꯏꯕꯗꯨ ꯀꯣꯅꯥ ꯃꯆꯨ (ꯕ꯭ꯔꯥꯎꯟ) ꯃꯥꯟꯒꯅꯤ꯫ ꯗꯥꯒꯁꯤꯡ ꯑꯁꯤ ꯑꯃꯒ ꯑꯃꯒ ꯁꯝꯖꯤꯟꯅꯗꯦ꯫ ꯗꯥꯒꯁꯤꯡꯒꯤ ꯃꯔꯛꯇ ꯃꯁꯥ ꯐꯔꯤꯕ ꯃꯥꯅꯒꯤ ꯁꯔꯨꯛꯁꯤꯡ ꯂꯩꯕ ꯊꯦꯡꯅꯒꯅꯤ꯫ ꯃꯄꯨꯝ ꯑꯣꯏꯅ ꯌꯦꯡꯕꯗ ꯂꯤꯜꯂꯕꯣꯕ ꯃꯥꯟꯅ ꯃꯔꯥꯡ ꯃꯔꯥꯡ ꯂꯥꯡꯕ ꯑꯣꯏꯅ ꯎꯒꯅꯤ꯫ ꯃꯁꯤꯒꯤ ꯂꯥꯏꯑꯣꯡ ꯑꯁꯤ ꯁꯤꯊ ꯕ꯭ꯂꯥꯏꯠꯀꯤ ꯇꯣꯉꯥꯟꯕ ꯑꯇꯩ ꯂꯥꯏꯑꯣꯡꯒ ꯃꯥꯟꯅꯗꯕ ꯃꯑꯣꯡꯅꯤ꯫ ꯂꯥꯏꯅꯥ ꯄꯛꯂꯕ ꯐꯧ ꯄꯥꯝꯕꯤꯒꯤ ꯃꯎꯗ ꯍꯪꯒꯥꯝ ꯃꯔꯨ ꯃꯥꯟꯕ ꯁ꯭ꯀꯦꯂꯦꯔꯣꯁꯤ- ꯌꯥꯁꯤꯡ ꯄꯛꯄ ꯊꯦꯡꯅꯒꯅꯤ꯫ ꯀꯤ ꯅ ꯁ꯭ꯇꯦꯝ ꯔꯨꯠꯀꯤ ꯁ꯭ꯀꯦꯂꯦꯔꯣꯁꯤꯌꯥꯗꯒꯤ ꯆꯥꯎꯕ ꯈꯖꯤꯛ ꯍꯦꯟꯒꯅꯤ ꯑꯗꯨꯕꯨ ꯃꯁꯤꯡꯗꯤ ꯌꯥꯝꯅ ꯍꯟꯊꯒꯅꯤ꯫ ꯊꯦꯡꯂꯨꯕꯗ ꯂꯩꯕꯥꯛꯇ ꯀꯦꯟꯈꯤꯒꯅꯤ ꯑꯗꯨꯒ ꯃꯊꯪ ꯑꯃꯨꯛ ꯂꯥꯏꯅꯥ ꯑꯁꯤ ꯁꯟꯗꯣꯛꯅꯕꯒꯤ ꯃꯆꯥꯛ ꯑꯣꯏꯅ ꯂꯩꯈꯤ꯫ ꯕ꯭ꯂꯥꯁꯠꯀ ꯁꯤꯊ ꯕ꯭ꯂꯥꯏꯠꯀ ꯄꯨꯟꯅ ꯇꯥꯕ ꯌꯥꯝꯅ ꯇꯣꯏꯅ ꯊꯦꯡꯅꯒꯅꯤ꯫
ꯂꯥꯏꯅꯥ ꯑꯁꯤꯒꯤ ꯆꯥꯅꯕ ꯏꯁꯤꯡ ꯅꯨꯡꯁꯤꯠ : 1) ꯏꯁꯤꯡ ꯃꯅꯤꯜꯒꯤ ꯆꯥꯡ ꯋꯥꯡꯕ (ꯔꯤꯂꯦꯇꯤꯚ ꯍ꯭ꯌꯨꯃꯤꯗꯤꯇꯤ ꯆꯥꯗ 90), 2) ꯑꯏꯪ ꯑꯁꯥꯒꯤ ꯆꯥꯡ ꯗꯤꯒ꯭ꯔꯤ ꯁꯦꯜꯁꯤꯌꯁ 25 ꯗꯒꯤ 30 ꯐꯥꯜꯕ ꯂꯩꯕ, 3) ꯅꯣꯡ ꯌꯥꯝꯅ ꯆꯨꯕ, 4) ꯅꯥꯏꯇ꯭ꯔꯣꯖꯦꯟꯒꯤ ꯆꯥꯡ ꯍꯦꯟꯅ ꯂꯧꯐꯝꯗ ꯆꯥꯏꯕ, 5) ꯃꯅꯤꯄꯨꯔꯗ ꯑꯁꯤꯟꯕ ꯂꯧꯐꯝꯅ ꯅꯝꯕ (ꯀꯣꯛꯐꯥꯏ ꯁꯨꯖꯥ ꯑꯁꯤꯒꯤ ꯈ꯭ꯋꯥꯏꯗꯒꯤ ꯆꯥꯅꯕꯗꯤ ꯄꯤ ꯑꯩꯆ 5 ꯅꯤ),
6) ꯑꯅꯧꯕ ꯄꯣꯠꯊꯣꯛ ꯌꯥꯝꯅ ꯂꯩꯕ ꯐꯧ ꯃꯈꯜꯁꯤꯡꯁꯤꯅ ꯂꯥꯏꯅꯥ ꯑꯁꯤꯗꯒꯤ ꯃꯁꯥ ꯉꯥꯛꯊꯣꯛꯆꯕ ꯉꯝꯂꯛꯇꯕ, 7) ꯂꯧꯕꯨꯛꯇ ꯅꯥꯄꯤ ꯌꯥꯝꯅ ꯂꯩꯕꯅ ꯂꯥꯏꯅꯥ ꯑꯁꯤ ꯁꯟꯗꯣꯛꯄꯗ ꯃꯇꯦꯡ ꯄꯥꯡꯏ꯫ ꯀꯔꯝꯅ ꯂꯥꯏꯅꯥ ꯑꯁꯤ ꯂꯧꯕꯨꯛꯇ ꯍꯟꯅ ꯍꯟꯅ ꯎꯔꯤꯕꯅꯣ : 1) ꯀꯣꯛꯐꯥꯏ ꯁꯨꯖꯥ ꯑꯁꯤꯅ ꯂꯧꯔꯤꯗ ꯍꯧꯔꯤꯕ ꯅꯥꯄꯤꯁꯤꯡꯗ ꯍꯤꯡꯗꯨꯅ ꯂꯩ꯫ ꯀꯨꯝ ꯅꯠꯇꯕ ꯃꯇꯝꯗ ꯂꯧꯔꯤꯗ ꯍꯧꯔꯤꯕ ꯅꯥꯄꯤꯁꯤꯡꯗꯨ ꯆꯕꯥꯛꯅꯅ ꯉꯧꯅ ꯂꯩꯕ ꯊꯦꯡꯅꯩ꯫ ꯃꯁꯤ ꯅꯥꯄꯤꯁꯤꯡꯗꯨꯗꯁꯨ ꯁꯤꯊ ꯕ꯭ꯂꯥꯏꯠ ꯊꯣꯛꯍꯜꯂꯤꯕꯅꯤ꯫ ꯐꯧꯒꯤ ꯃꯇꯝ ꯂꯥꯛꯂꯒ ꯐꯧꯗ ꯑꯃꯨꯛ ꯂꯥꯛꯄ ZAT! 2) ꯀꯣꯛꯐꯥꯏ ꯁꯨꯖꯥ ꯑꯁꯤꯅ ꯁ꯭ꯀꯦꯂꯦꯔꯣꯁꯤꯌꯥ ꯑꯣꯏꯅ ꯂꯩꯕꯥꯛꯇ ꯍꯤꯡꯗꯨꯅ ꯂꯩꯍꯧꯕ ZAT ꯑꯃꯁꯨꯡ ꯆꯞ ꯆꯥꯕ ꯏꯁꯤꯡ ꯅꯨꯡꯁꯤꯠ ꯐꯪꯂꯕ ꯃꯇꯝꯗ ꯃꯇꯣꯟ ꯊꯣꯔꯛꯏ꯫ ꯃꯇꯨꯡꯗ ꯄꯥꯛꯊꯣꯛ ꯆꯥꯎꯊꯣꯔꯛꯇꯨꯅ (ꯁꯟꯗꯣꯔꯛꯇꯨꯅ) ꯐꯧ ꯄꯥꯝꯕꯤꯗ ꯌꯧꯔꯛꯏ꯫ ꯂꯥꯏꯅꯥ ꯑꯁꯤꯗꯒꯤ ꯀꯟꯅꯕ ꯄꯥꯝꯕꯩꯁꯤꯡ : 1) ꯅꯥꯏꯇ꯭ꯔꯣꯖꯦꯟ ꯌꯥꯎꯕ ꯍꯥꯔ ꯆꯥꯎꯕ ꯍꯟꯊꯍꯟꯗꯨꯅ ꯂꯥꯏꯅꯥ ꯇꯥꯕꯒꯤ ꯆꯥꯡ ꯍꯟꯊꯍꯟꯕ ꯌꯥꯏ꯫ ꯅꯥꯏꯇ꯭ꯔꯣꯖꯦꯟ ꯇꯞꯅ ꯇꯞꯅ ꯊꯥꯗꯣꯛꯄ ꯉꯝꯕ ꯍꯥꯔꯁꯤꯡ ꯁꯤꯖꯤꯟꯅꯕ ꯐꯩ꯫ 2) Hexaconazole 5% ꯍꯗ Propiconazole 25% ꯃꯤꯂꯤꯂꯤꯇꯔ 15 ꯏꯁꯤꯡ ꯂꯤꯇꯔ 15 ꯈꯨꯗꯤꯡꯗ ꯌꯥꯜꯂꯒ ꯃꯅꯥꯁꯤꯡ ꯑꯃꯁꯨꯡ ꯐꯧꯈꯣꯛ ꯆꯣꯠꯅꯕ ꯀꯥꯞꯊꯣꯛꯀꯅꯤ꯫=

- ꯗꯥ. ꯁꯔꯥꯡꯊꯦꯝ ꯖꯦꯁꯃꯥꯔꯥꯅꯤ -

- ÿ- ꯑꯦꯗꯤꯇꯔꯗ ꯊꯥꯔꯛꯄ ꯆꯤꯊꯤ¡ -ÿ-

ꯂꯩꯉꯥꯛꯅ ꯃꯤꯠꯌꯦꯡ ꯆꯪꯕꯤꯌꯨ
ꯏꯀꯥꯏꯈꯨꯝꯅꯖꯔꯤꯕ ꯑꯦꯗꯤꯇꯔ,
ꯍꯧꯖꯤꯛ ꯎꯔꯤꯄꯣꯛ ꯔꯣꯗꯇ ꯂꯩꯕ ꯂꯝꯕꯣꯏꯈꯣꯡꯅꯥꯡꯈꯣꯡꯒꯤ ꯂꯝꯄꯥꯛꯇ ꯃꯦꯂꯥ
ꯇꯧꯔꯤꯕ ꯑꯁꯤ ꯀꯣꯚꯤꯗ-19 ꯂꯥꯏꯅꯥ ꯂꯥꯏꯆꯠ ꯀꯟꯈꯠꯂꯛꯄ ꯑꯁꯤꯗ ꯃꯤꯑꯣꯏ
ꯈꯔꯗꯤ ꯌꯥꯝꯅ ꯅꯨꯡꯉꯥꯏꯇꯕ ꯄꯣꯛꯅꯔꯦ꯫ ꯑꯅꯧꯕ ꯋꯦꯚ ꯑꯁꯤꯗ ꯄꯣꯖꯤꯇꯤꯚ ꯑꯃꯨꯛ
ꯑꯣꯏꯈꯠꯅꯔꯛꯇꯨꯅ ꯃꯤꯁꯤ ꯃꯤꯅꯥ ꯅꯣꯡꯃ ꯀꯥꯡꯗꯅ ꯊꯣꯔꯛꯂꯕꯅꯤ꯫ ꯂꯝꯗꯝꯁꯤꯒꯤ
ꯁ꯭ꯀꯨꯜ ꯀꯌꯥꯁꯨ ꯇꯉꯥꯏꯐꯗꯅ ꯊꯣꯡ ꯂꯣꯜꯂꯨꯔꯕꯅꯤ ꯑꯗꯨꯕꯨ ꯑꯦꯖꯨꯀꯦꯁꯟꯗ
ꯁꯣꯛꯂꯛꯀꯗꯕ ꯑꯁꯤ ꯌꯦꯡꯗꯨꯅ ꯆꯦꯛꯁꯤꯟ ꯊꯧꯔꯥꯡꯒ ꯂꯣꯏꯅꯅ ꯍꯥꯡꯗꯕ ꯌꯥꯗꯕꯒꯤ
ꯀꯤꯅ-ꯀꯤꯅ ꯍꯤꯡꯂꯤꯕꯅꯤ꯫ ꯍꯧꯖꯤꯛ ꯀꯣꯚꯤꯗ-19 ꯗꯒꯤ ꯄꯨꯔ ꯁꯦꯐ ꯑꯣꯏꯕ
ꯅꯠꯇꯦ, ꯇꯉꯥꯏꯐꯗꯕꯒꯤ ꯌꯦꯡꯗꯨꯅ ꯇꯧꯔꯤꯕꯅꯤ꯫ ꯑꯗꯨꯕꯨ ꯃꯤ ꯌꯥꯝꯅ ꯇꯤꯟꯕ ꯃꯦꯂꯥ,
ꯍꯔꯥꯎ ꯀꯨꯝꯃꯩꯗꯤ ꯂꯦꯞꯄꯅ ꯑꯐꯕ ꯑꯣꯏꯒꯅꯤ꯫ ꯃꯁꯤ ꯂꯦꯞꯇ꯭ꯔꯒꯅ ꯀꯣꯚꯤꯗ-19
ꯂꯥꯏꯅꯥ ꯂꯥꯏꯆꯠ ꯍꯦꯟꯅ ꯁꯟꯗꯣꯛꯅꯕ ꯃꯆꯥꯛ ꯑꯣꯏꯒꯅꯤ꯫ ꯃꯁꯤꯗ ꯄꯔꯃꯤꯁꯟ
ꯄꯤꯕꯤꯔꯤꯕ ꯑꯣꯊꯣꯔꯤꯇꯤꯅ ꯑꯃꯨꯛꯇꯪ ꯔꯤꯚꯤꯌꯨ ꯇꯧꯕꯤꯗꯨꯅ ꯄꯔꯃꯤꯁꯟ ꯑꯁꯤ
ꯀꯦꯟꯁꯦꯜ ꯅꯠꯇ꯭ꯔꯒ ꯔꯤꯚꯣꯛ ꯇꯧꯍꯟꯅꯤꯡꯏ ꯅꯠꯇ꯭ꯔꯕꯗꯤ ꯃꯤꯑꯣꯏ ꯀꯌꯥꯒꯤ
ꯋꯥꯈꯜꯗ ꯅꯨꯡꯅꯥꯡꯂꯤꯕꯁꯤ ꯀꯣꯛꯄ ꯉꯝꯂꯣꯏ꯫ ꯍꯤꯔꯝ ꯑꯁꯤꯒꯤ ꯃꯇꯥꯡꯗ ꯂꯩꯉꯥꯛꯅ
ꯃꯤꯠꯌꯦꯡ ꯑꯃꯨꯛꯇꯪ ꯆꯪꯕꯤꯌꯨ ꯍꯥꯏꯖꯔꯤ꯫
ꯑꯗꯣꯝꯒꯤ - ꯌꯥꯉꯝꯕ ꯁ꯭ꯌꯥꯝꯁꯨꯟꯗꯔ, ꯊꯥꯡꯃꯩꯕꯟꯗ ꯌꯨꯝꯅꯥꯝ ꯂꯩꯀꯥꯏ, ꯏꯝꯐꯥꯜ ꯋꯦꯁꯠ