ꯑꯦꯁ ꯁꯃꯪꯒꯜ ꯁꯤꯡꯍ
ꯨ
ꯂꯧꯎꯁꯤꯡꯎꯒꯤ ꯀꯥꯈꯜ IMPHAL, MONDAY, APRIL 30, 2018 ꯅꯤꯡꯊꯧꯀꯥꯕ, ꯀꯥꯂꯦꯟꯒꯤ 15 ꯅꯤ ꯄꯥꯟꯕ, ꯃꯥꯂꯤꯌꯥ ꯀꯨꯝꯁꯤꯡ 3416 ꯍꯨꯏꯌꯦꯟ ꯂꯥꯟꯄꯥꯎ
2 HUEIYEN LANPAO

ꯍꯨꯏꯌꯦꯟ ꯂꯥꯟꯄꯥꯎ

...ꯑꯦꯗꯤꯇꯔꯗ ꯊꯥꯔꯛꯄ ꯆꯤꯊꯤ...

ꯂꯥꯏꯔꯕꯒꯤ ꯄꯟꯈꯩ ꯃꯈꯥꯗ ꯄꯤꯔꯤꯕ ꯆꯦꯡ
ꯏꯀꯥꯏꯈꯨꯝꯅꯖꯔꯤꯕ ꯑꯦꯗꯤꯇꯔ,
ꯆꯖꯤꯡ ꯀꯔꯥꯝꯗ ꯂꯥꯏꯅꯤꯡꯊꯧ ꯅꯣꯡꯁꯥꯕꯒꯤ
ꯁꯪꯂꯦꯟ ꯁꯪꯒꯥꯕꯒꯤ ꯊꯧꯔꯝꯗ ꯏꯀꯥꯏꯈꯨꯝꯅꯖꯔꯕ
ꯃꯤꯅꯤꯁꯇꯔ ꯀꯔꯥꯝ ꯁ꯭ꯌꯥꯝꯅ ꯏꯟꯗꯤꯌꯥ
ꯂꯩꯉꯥꯛꯀꯤ ꯌꯣꯖꯅꯥ ꯑꯃꯒꯤ ꯃꯈꯥꯗ ꯂꯥꯏꯔꯕ
ꯏꯃꯨꯔ ꯄꯨꯝꯅꯃꯛꯇ ꯂꯨꯄꯥ 3 ꯗ ꯆꯦꯡ ꯀꯦꯖꯤ
ꯑꯃꯒꯤ ꯃꯃꯜ ꯑꯣꯏꯅ ꯏꯟꯗꯤꯌꯥꯗ ꯅꯠꯇꯅ
ꯃꯅꯤꯄꯨꯔꯗꯁꯨ ꯍꯟꯗꯛꯀꯤ ꯂꯩꯉꯥꯛ ꯑꯁꯤꯅ
ꯌꯨꯝꯊꯣꯡ ꯀꯌꯥꯅ ꯆꯦꯡ ꯐꯪꯍꯟꯒꯅꯤ ꯍꯥꯏꯗꯨꯅ
ꯆꯠꯊꯔꯛꯈꯤꯕ ꯑꯗꯨ ꯃꯍꯥꯛꯀꯤ ꯂꯪꯊꯕꯥꯜ
ꯀꯦꯟꯗ꯭ꯔꯗꯗꯤ ꯆꯍꯤ ꯑꯃꯒꯤ ꯃꯅꯨꯡꯗ
ꯊꯥ 12 ꯆꯨꯞꯅ ꯆꯦꯡ ꯄꯤꯔꯤ ꯍꯥꯏꯕꯤꯈ꯭ꯔꯦ꯫

ꯑꯇꯣꯞꯄ ꯑꯦꯁꯦꯝꯕ꯭ꯂꯤ ꯀꯦꯟꯗ꯭ꯔ ꯀꯌꯥꯗ
ꯆꯦꯡ ꯌꯦꯜꯂꯝꯂꯒ ꯂꯦꯞꯄ ꯀꯌꯥ ꯌꯥꯎꯅꯔꯤ꯫

ꯉꯁꯤ ꯉꯔꯥꯡꯁꯨ ꯀꯦꯟꯗ꯭ꯔ ꯈꯔꯒꯤ ꯃꯐꯝ
ꯈꯔꯗ ꯆꯦꯡ ꯌꯦꯟꯕꯒꯤ ꯄꯥꯎ ꯐꯪꯂꯤ꯫ ꯃꯁꯤꯗ
ꯃꯤꯅꯤꯁꯇꯔꯅ ꯍꯥꯏꯈꯤꯕꯗ ꯁꯣꯁꯤꯑꯦꯜ _

ꯦꯜꯐꯤꯌꯥꯔ ꯗꯤꯄꯥꯔꯠꯃꯦꯟꯠꯅ ꯃꯁꯤꯡ ꯌꯥꯝꯂꯕ
ꯆꯦꯡꯒꯤ ꯀꯣꯇꯥ ꯆꯤꯡꯊꯣꯛꯇꯅ ꯂꯩꯕ ꯑꯃꯗꯤ
ꯃꯃꯥꯡꯒꯤ ꯆꯍꯤꯗ ꯊꯣꯛꯈꯤꯕ ꯏꯁꯤꯡ ꯏꯆꯥꯎꯅ
ꯆꯦꯡ ꯃꯇꯝ ꯆꯥꯅ ꯄꯤꯊꯣꯛꯄ ꯉꯝꯗꯕꯒꯤ
ꯃꯔꯝ ꯑꯃ ꯑꯣꯏꯔꯤ ꯍꯥꯏꯅꯁꯨ ꯄꯟꯕꯤꯈꯤ꯫

ꯑꯗꯨꯕꯨ ꯑꯦꯁꯦꯝꯕ꯭ꯂꯤ ꯀꯦꯟꯗ꯭ꯔ ꯈꯔꯒꯤ
ꯃꯐꯝ ꯑꯇꯩꯗꯅ ꯆꯦꯡ ꯑꯃꯨꯛ ꯌꯦꯟ ꯑꯃꯨꯛ
ꯃꯇꯝ ꯁꯥꯡꯅ ꯂꯦꯞꯄ ꯀꯌꯥ ꯌꯥꯎꯕꯅ ꯁꯨꯄꯔ

WktE ꯆꯦꯡ ꯁꯤꯖꯤꯟꯅꯕ ꯂꯥꯏꯔꯕ ꯃꯤꯑꯣꯏ
ꯀꯌꯥ ꯑꯃꯗꯤ ꯕꯤ ꯄꯤꯅꯆꯤꯡꯕ ꯅꯥꯕꯗꯒꯤ
ꯆꯦꯡ ꯃꯈꯜ ꯑꯁꯤ ꯁꯤꯖꯤꯟꯅꯔꯤꯕ ꯀꯌꯥꯗ
ꯂꯩꯉꯥꯛꯅ ꯌꯦꯜꯂꯛꯇꯕꯗꯤ ꯂꯥꯏꯔꯗꯅ ꯕꯖꯥꯔꯗ
ꯐꯥꯎꯕ ꯐꯪꯂꯛꯇꯕ ꯑꯃꯗꯤ ꯐꯪꯂꯕꯁꯨ ꯃꯃꯜ
ꯇꯥꯡꯅ ꯐꯡꯕ ꯃꯔꯝꯅ ꯃꯤꯑꯣꯏ ꯀꯌꯥꯗꯤ ꯌꯥꯝꯅ
ꯁꯥꯊꯤꯅ ꯑꯋꯥꯕ ꯍꯥꯏꯕꯗꯨ ꯑꯣꯏꯍꯜꯂꯤ꯫ ꯃꯔꯝ
ꯑꯁꯤꯅ ꯃꯅꯤꯄꯨꯔ ꯂꯩꯉꯥꯛꯅ ꯃꯤꯠꯌꯦꯡ ꯑꯃꯇꯪ
ꯆꯪꯕꯤꯗꯨꯅ ꯂꯩꯔꯤꯕ ꯑꯦꯝ ꯑꯦꯜ ꯑꯦ ꯑꯃꯗꯤ
ꯃꯟꯇ꯭ꯔꯤꯅꯆꯤꯡꯕ ꯀꯌꯥꯒꯤ ꯑꯦꯁꯦꯝꯕ꯭ꯂꯤ
ꯀꯦꯟꯗ꯭ꯔꯁꯤꯡꯗ ꯂꯥꯏꯔꯕꯒꯤ ꯄꯟꯈꯩ ꯃꯈꯥꯗ
ꯂꯩꯕ ꯃꯤꯑꯣꯏꯁꯤꯡꯒꯤ ꯇꯉꯥꯏꯐꯗꯅ ꯍꯤꯡꯅꯅꯕ
ꯆꯤꯟꯖꯥꯛ ꯑꯃ ꯑꯣꯏꯔꯤꯕ ꯆꯦꯡ ꯑꯁꯤꯕꯨ
ꯂꯥꯏꯔꯕ ꯃꯤꯌꯥꯝꯗ ꯐꯪꯍꯟꯕ ꯍꯥꯏꯕꯁꯤ ꯃꯤꯌ
ꯥꯝꯒꯤ ꯑꯋꯥꯕ ꯌꯦꯡꯕꯤꯗꯨꯅ ꯊꯥ ꯈꯨꯗꯤꯡꯒꯤ
ꯑꯦꯁꯦꯝꯕ꯭ꯂꯤ ꯀꯦꯟꯗ꯭ꯔ ꯈꯨꯗꯤꯡꯗ ꯆꯥꯡ ꯅꯥꯏꯅꯥ
ꯐꯪꯍꯟꯅꯕ ꯁꯤꯜꯍꯟꯖꯤꯅꯤꯡꯏ꯫ ꯃꯔꯝꯗꯤ
ꯊꯧꯔꯥꯡ ꯑꯁꯤꯅ ꯍꯧꯖꯤꯛꯀꯤ ꯃꯤꯑꯣꯏ ꯀꯌꯥꯒꯤ
ꯍꯤꯡꯅꯕꯒꯤ ꯂꯥꯟꯐꯝꯗꯁꯨ ꯃꯇꯦꯍ ꯑꯣꯏꯔꯤ
ꯑꯃꯗꯤ ꯑꯅꯥꯕ ꯃꯈꯜ ꯈꯔꯒꯤ ꯍꯤꯗꯥꯛꯁꯨ
ꯑꯣꯏꯔꯤ꯫ ꯏꯀꯥꯏꯈꯨꯝꯅꯖꯔꯤꯕ ꯃꯤꯅꯤꯁꯇꯔ KD\

ꯥꯝꯅ ꯀꯦꯟꯗ꯭ꯔꯗ ꯆꯍꯤ ꯑꯃꯗ ꯊꯥ 12 ꯐꯪꯍꯟꯕꯗꯤ
ꯉꯝꯂꯒ ꯀꯦꯟꯗ꯭ꯔ ꯑꯇꯩꯗ ꯀꯔꯤꯒꯤ ꯆꯥꯡ ꯅꯥꯏꯅ
ꯐꯪꯍꯟꯕ ꯉꯝꯗ꯭ꯔꯤꯕꯅꯣ ꯍꯥꯏꯕꯁꯤ ꯂꯥꯏꯔꯕ ꯃꯤꯌ
ꯥꯝꯒꯤ ꯋꯥꯍꯪꯅꯤ꯫ ꯃꯔꯝ ꯑꯗꯨꯅ ꯂꯥꯏꯔꯕꯒꯤ ꯄꯟꯈꯩ
ꯃꯈꯥꯗ ꯂꯩꯕꯁꯤꯡꯗ ꯄꯤꯔꯤꯕ ꯆꯦꯡ ꯆꯥꯡ ꯅꯥꯏꯅ
ꯐꯪꯍꯟꯕꯤꯌꯨ ꯍꯥꯏꯖꯔꯤ꯫

ꯑꯗꯣꯝꯒꯤ - ꯐꯨꯔꯥꯏꯂꯥꯠꯄꯝ ꯔꯦꯕꯇꯤ
ꯁꯔꯃ
ꯐꯧꯗ ꯇꯥꯕ ꯂꯥꯏꯅꯥ ꯑꯃꯁꯨꯡ ꯉꯥꯛꯊꯣꯛꯅꯕ ꯎꯄꯥꯏ
(ꯍꯥꯟꯅꯒꯤ ꯃꯈꯥ ꯆꯠꯊꯔꯛꯄ)

aekr flixkmg skqg (Leaf Smut) :

ꯂꯥꯏꯅꯥ ꯊꯣꯛꯍꯜꯂꯤꯕ ꯀꯣꯛꯐꯥꯏ - Entyloma ꯣꯗꯧꯚꯃꯅ
ꯃꯥꯂꯦꯝꯒꯤ ꯐꯧ ꯊꯥꯅꯔꯤꯕ ꯃꯐꯝ ꯄꯨꯝꯅꯃꯛꯇ ꯂꯤꯐ ꯁ꯭ꯃꯠ ꯇꯥꯏ ꯍꯥꯏꯅ ꯄꯥꯅꯔꯕꯁꯨ ꯌꯥꯝꯅ ꯑꯃꯥꯡ
ꯑꯇꯥ ꯊꯣꯛꯍꯟꯕ ꯂꯥꯏꯅꯥꯗꯤ ꯅꯠꯇꯦ꯫ ꯑꯗꯨꯕꯨ ꯂꯥꯏꯅꯥ ꯃꯁꯛ ꯈꯪꯗꯣꯛꯇꯨꯅ ꯍꯤꯗꯥꯛ ꯂꯥꯟꯅ ꯊꯥꯗꯅꯕ ꯍꯣꯠꯅꯕꯗꯤ
ꯇꯉꯥꯏꯐꯗꯕ ꯑꯃ ꯑꯣꯏꯔꯤ꯫

ꯂꯥꯏꯑꯣꯡ; ꯃꯅꯥꯒꯤ ꯃꯃꯥꯏ ꯑꯅꯤꯃꯛꯇ (ꯃꯊꯛ-ꯃꯈꯥ) ꯑꯃꯨꯕ ꯗꯥꯒ ꯃꯆꯥ ꯃꯆꯥꯁꯤꯡ ꯂꯩꯒꯅꯤ꯫ ꯗꯥꯒꯁꯤꯡꯗꯨ
ꯄꯤꯛꯇꯛ ꯇꯧꯅ ꯃꯌꯨꯡ ꯁꯥꯡꯂꯞ ꯂꯩꯒꯅꯤ꯫ ꯃꯤꯂꯤꯃꯤꯇꯔ 0.5-1.5 ꯄꯥꯛꯄ, 0.5-5 ꯁꯥꯡꯕ ꯗꯥꯒꯁꯤꯡꯅ ꯑꯌ
ꯥꯝꯕ ꯑꯣꯏꯒꯜꯂꯤ꯫ ꯃꯅꯥ ꯑꯃꯗ ꯌꯥꯝꯅ ꯀꯨꯡꯅ ꯗꯥꯒ ꯃꯌꯥꯝ ꯑꯃ ꯂꯩꯔꯕꯁꯨ ꯗꯥꯒꯁꯤꯡ ꯁꯝꯖꯤꯟꯅꯗꯅ ꯇꯣꯉꯥꯟ
ꯇꯣꯉꯥꯟꯅ ꯌꯥꯝꯅ ꯃꯌꯦꯛ ꯁꯦꯡꯅ ꯂꯩꯒꯅꯤ꯫ ꯂꯥꯏꯅꯥ ꯑꯁꯤꯅ ꯌꯥꯝꯅ ꯁꯣꯛꯍꯜꯂꯕ ꯃꯅꯥ ꯅꯥꯄꯨ ꯆꯪꯒꯅꯤ ꯑꯃꯁꯨꯡ
ꯁꯦꯒꯥꯏꯕ ꯊꯦꯡꯅꯒꯅꯤ꯫ ꯗꯥꯒ ꯌꯥꯝꯅ ꯂꯩꯔꯕ ꯃꯅꯥꯗꯨ ꯏꯁꯤꯡꯗ ꯃꯤꯅꯤꯠ ꯈꯔ ꯇꯤꯡꯕ ꯃꯇꯝꯗ ꯇꯣꯡꯇꯛ ꯂꯩꯔꯤꯕ
ꯗꯥꯒꯁꯤꯡ ꯀꯥꯏꯒꯅꯤ/ ꯄꯣꯛꯈꯥꯏꯒꯅꯤ, ꯃꯅꯨꯡꯗ ꯑꯃꯨꯕ ꯃꯀꯨꯞ ꯃꯌꯥꯝ ꯑꯃ ꯂꯩꯔꯝꯒꯅꯤ꯫

ꯉꯥꯛꯊꯣꯛꯅꯕ ꯄꯥꯝꯕꯩ: ꯂꯥꯏꯅꯥ ꯑꯁꯤ ꯉꯥꯛꯊꯣꯛꯅꯕ ꯍꯤꯗꯥꯛ ꯂꯥꯡꯊꯛ ꯀꯥꯞꯄꯒꯤ ꯃꯊꯧ ꯇꯥꯗꯦ꯫ ꯉꯅꯈꯤꯅ
ꯃꯄꯨꯡ ꯐꯥꯕ, ꯑꯇꯦꯟꯕ ꯃꯇꯝꯒꯤ ꯐꯧꯁꯤꯡꯗ ꯂꯥꯏꯅꯥ ꯑꯁꯤ ꯇꯥꯒꯜꯂꯤ꯫ ꯂꯥꯏꯅꯥꯁꯤ ꯇꯥꯒꯟꯕ ꯃꯐꯝꯁꯤꯡꯗ ꯃꯇꯝ
ꯈꯔ ꯁꯥꯡꯕ ꯐꯧ ꯊꯥꯔꯕꯗꯤ ꯂꯥꯏꯅꯥ ꯑꯁꯤ ꯇꯥꯕꯒꯤ ꯆꯥꯡ ꯅꯦꯝꯃꯤ꯫

ꯃꯅꯥ ꯃꯇꯣꯟ ꯂꯥꯡꯕꯤ (Leaf ꯈꯖꯃꯦꯛ)ꯂꯥꯏꯅꯥ ꯊꯣꯛꯍꯜꯂꯤꯕ ꯀꯣꯛꯐꯥꯏ Rhynchosporium

ꯣꯗꯧꯚꯃꯅ ꯂꯥꯏꯅꯥ ꯑꯁꯤ ꯌꯥꯝꯅ ꯃꯔꯨ ꯑꯣꯏꯕ ꯂꯥꯏꯅꯥ ꯑꯃꯗꯤ ꯅꯠꯇꯦ꯫ ꯑꯗꯨꯝ ꯑꯣꯏꯅꯃꯛ ꯃꯅꯤꯄꯨꯔꯒꯤ ꯃꯐꯝ
ꯑꯌꯥꯝꯕꯗ ꯊꯦꯡꯅꯔꯕ ꯂꯥꯏꯅꯥ ꯑꯃꯅꯤ꯫ ꯏꯟꯗꯤꯌꯥꯒꯤ ꯑꯄꯨꯟꯕ ꯐꯧꯒꯤ ꯄꯣꯠꯊꯣꯛꯇ ꯆꯥꯗ 23.4 ꯍꯟꯊꯍꯜꯂꯤ
ꯍꯥꯏꯅ ꯄꯥꯅꯩ꯫

ꯂꯥꯏꯑꯣꯡ:- ꯂꯤꯔꯞ ꯇꯧꯕ ꯐꯧꯅꯥꯒꯤ ꯃꯇꯣꯟ ꯊꯪꯕ ꯁꯔꯨꯛꯇ ꯏꯊꯛ ꯃꯥꯟꯕ ꯗꯥꯒꯁꯤꯡꯅ ꯑꯃꯒꯤ ꯃꯊꯪꯗ
ꯑꯃ, ꯃꯊꯪ-ꯃꯊꯪ ꯁꯟꯗꯣꯛꯇꯨꯅ ꯂꯥꯡꯒꯅꯤ꯫ ꯀꯔꯤꯒꯨꯝꯕꯗ ꯃꯅꯥꯒꯤ ꯃꯇꯥꯏ ꯊꯪꯕ ꯁꯔꯨꯛꯇꯁꯨ ꯆꯞ ꯃꯥꯟꯅꯕ
ꯗꯥꯒꯁꯤꯡ ꯎꯒꯅꯤ꯫ ꯗꯥꯒꯁꯤꯡ ꯂꯦꯞꯇꯅ ꯆꯥꯎꯊꯣꯔꯛꯄ ꯑꯃꯁꯨꯡ ꯗꯥꯒ ꯑꯃꯒ ꯗꯥꯒ ꯑꯃꯒ ꯁꯝꯖꯤꯜꯂꯛꯄꯅ
ꯃꯅꯥꯒꯤ ꯑꯌꯥꯝꯕ ꯁꯔꯨꯛ ꯀꯪꯂꯛꯂꯕ ꯃꯇꯨꯡꯗ ꯏꯊꯛ ꯃꯅꯥꯟꯕ ꯗꯥꯒꯁꯤꯡꯒꯤ ꯃꯆꯨ ꯁꯤꯊꯔꯛꯄꯒ ꯂꯣꯏꯅꯅ
ꯃꯅꯥꯗꯨꯃꯛ ꯑꯀꯪꯕ ꯆꯔꯨꯒꯨꯝ ꯎꯒꯅꯤ꯫ ꯑꯗꯨꯕꯨ ꯃꯅꯥꯒꯤ ꯃꯀꯥ ꯑꯃꯁꯨꯡ ꯐꯧ ꯆꯔꯣꯡꯗꯗꯤ ꯂꯥꯏꯅꯥ ꯇꯥꯔꯤꯕ ꯃꯐꯝꯗꯨ
ꯀꯣꯏꯅ ꯃꯆꯨ ꯑꯣꯏꯅ ꯎꯒꯅꯤ꯫ ꯐꯧ ꯃꯆꯥ ꯄꯣꯛꯄ ꯃꯇꯝ ꯑꯃꯁꯨꯡ ꯃꯇꯥꯡ ꯀꯥꯕ ꯃꯇꯝꯗ ꯇꯣꯏꯅ ꯇꯥꯒꯟꯕ
ꯂꯥꯏꯅꯥꯅꯤ꯫

ꯂꯥꯏꯅꯥ ꯁꯟꯗꯣꯛꯄꯒꯤ ꯃꯑꯣꯡ:- ꯂꯥꯏꯅꯥꯁꯤ ꯐꯧꯗꯤꯗ ꯆꯦꯟꯅꯔꯛꯏ꯫ ꯆꯔꯨꯈꯣꯛꯁꯤꯡꯗ ꯂꯩꯍꯧꯕ ꯑꯃꯁꯨꯡ
ꯅꯥꯄꯤꯗ ꯁꯥꯏꯗꯥꯡꯗꯨꯅ ꯂꯩꯍꯧꯕ ꯀꯣꯛꯐꯥꯏꯁꯤꯒꯤ ꯃꯔꯨꯅꯁꯨ ꯁꯟꯗꯣꯛꯏ꯫ ꯑꯗꯨꯃꯛꯄꯨ ꯂꯥꯏꯅꯥꯁꯤꯡꯒꯤ ꯆꯞ ꯆꯥꯕ
ꯃꯄꯨꯟꯁꯤ (ꯂꯥꯏꯐ ꯁꯥꯏꯀꯜ) ꯃꯄꯨꯡ ꯐꯥꯅ ꯈꯪꯅꯗ꯭ꯔꯤ꯫

ꯂꯥꯏꯅꯥ ꯑꯁꯤꯅ ꯍꯩꯅꯕ ꯃꯐꯝ ꯑꯃꯁꯨꯡ ꯃꯇꯝ: ꯂꯥꯏꯅꯥꯁꯤ ꯅꯥꯏꯇ꯭ꯔꯣꯖꯦꯟ ꯍꯦꯟꯕ ꯐꯧꯐꯝ ꯑꯃꯁꯨꯡ ꯄꯥꯝꯕꯤ
ꯀꯨꯡꯕ ꯃꯐꯝꯗ ꯇꯥꯒꯜꯂꯤ꯫ ꯐꯧ ꯄꯥꯝꯕꯤꯒꯤ ꯃꯆꯥ ꯄꯣꯛꯄ ꯃꯇꯝ ꯑꯃꯁꯨꯡ ꯃꯇꯥꯡ ꯀꯥꯕ ꯃꯇꯝꯗ ꯇꯥꯒꯜꯂꯤ꯫

ꯅꯣꯡ ꯃꯆꯤꯠ-ꯃꯆꯤꯠ ꯆꯨꯕ ꯑꯃꯁꯨꯡ ꯏꯁꯤꯡ ꯃꯅꯤꯜ ꯋꯥꯡꯕ ꯃꯇꯝꯗ ꯇꯣꯏꯅ ꯊꯦꯡꯅꯕ ꯂꯥꯏꯅꯥꯅꯤ꯫

ꯂꯥꯏꯅꯥ ꯉꯥꯛꯊꯣꯛꯅꯕ ꯄꯥꯝꯕꯩꯁꯤꯡ:- 1) ꯐꯧꯗꯤꯗ ꯍꯤꯗꯥꯛ ꯇꯣꯠꯍꯧꯒꯅꯤ꯫ Carbendazim 50%

WP eGfDj Thiophanate methyl 70% WP xDjkA ajg Wyrg sgmOxDjkA Sbrgir

ꯇꯣꯠꯍꯧꯒꯅꯤ꯫

2) ꯂꯥꯏꯅꯥ ꯇꯥꯈꯤꯕ ꯂꯧꯐꯝꯁꯤꯡꯒꯤ ꯆꯔꯨꯈꯣꯛꯁꯤꯡ ꯃꯩ ꯊꯥꯗꯣꯛꯄ ꯑꯃꯁꯨꯡ ꯂꯧꯔꯤ ꯑꯃꯁꯨꯡ ꯃꯅꯥꯛ
ꯅꯛꯄ ꯂꯧꯔꯤꯌꯥꯁꯤꯡ ꯂꯨ-ꯅꯥꯟꯅ ꯊꯝꯕ ꯐꯩ꯫

3) myqbdf mkTekKg fkjq afArrg Benomyl, Carbendazim thiophanate

methyl ediphenphos ꯅꯠꯇ꯭ꯔꯒ Validamycin ꯀꯥꯞꯂꯒ ꯂꯥꯏꯅꯥꯁꯤ ꯇꯥꯕ ꯍꯟꯊꯍꯟꯕ ꯌꯥꯏ꯫

mkTek fkjq WyekKgir Captafol, Mancozeb [aKbi Copper Oxychloride

ꯀꯥꯞꯄꯁꯨ ꯈꯔꯝꯈꯩ ꯀꯥꯅꯟꯕ ꯄꯤ꯫
ꯗꯥ ꯑꯦꯝ FOTFOT ꯁꯤꯡꯍ
10 = ꯏꯃꯗꯃ
(Amada Phun)
ꯋꯌꯥꯔꯂꯦꯁ ꯁꯦꯠ ꯂꯩꯕꯒꯤ ꯋꯥꯊꯣꯛ
ꯋꯥꯊꯣꯛ ꯑꯁꯤꯗ ꯆꯦꯟꯅꯕꯁꯤꯡ ꯑꯦꯐ ꯑꯥꯏ ꯑꯥꯔ ꯂꯧꯐꯝ ꯊꯣꯛꯏ
ꯂꯩꯕꯥꯛ ꯑꯁꯤꯒꯤ ꯄ꯭ꯔꯥꯏꯝ ꯃꯤꯅꯤꯁꯇꯔ ꯅꯔꯦꯟꯗ꯭ꯔ ꯃꯣꯗꯤꯅ ꯌꯨꯝꯊꯪꯅꯅ ꯂꯩꯔꯤꯕ ꯃ꯭ꯌꯥꯟꯃꯥꯔ, ꯄꯥꯀꯤꯁꯇꯥꯟ ꯑꯃꯁꯨꯡ ꯆꯥꯏꯅꯥꯒ ꯑꯐꯕ ꯃꯔꯤ ꯊꯝꯅꯅꯕ ꯂꯦꯞꯄ ꯂꯩꯇꯅ ꯍꯣꯠꯅꯔꯤ꯫ ꯂꯩꯕꯥꯛ ꯑꯅꯤꯒꯤ ꯃꯔꯛꯇ ꯂꯩꯔꯤꯕ
ꯏꯁꯨꯁꯤꯡ ꯀꯣꯛꯍꯟꯅꯕꯒꯤꯗꯃꯛ ꯍꯟꯗꯛꯇ ꯄ꯭ꯔꯥꯏꯝ ꯃꯤꯅꯤꯁꯇꯔ ꯅꯔꯦꯟꯗ꯭ꯔ ꯃꯣꯗꯤꯅ ꯆꯥꯏꯅꯥꯗ ꯆꯠꯇꯨꯅ
ꯂꯩꯕꯥꯛ ꯑꯗꯨꯒꯤ ꯄ꯭ꯔꯁꯤꯗꯦꯟꯠ ꯖꯤ ꯖꯤꯡ ꯄꯤꯟꯒ ꯄꯨꯡ ꯀꯌꯥꯃꯔꯨꯝ ꯐꯃꯤꯟꯅꯗꯨꯅ ꯋꯥꯔꯤ ꯁꯥꯅꯈꯤꯕ ꯂꯩꯈ꯭ꯔꯦ꯫

ꯊꯥꯡꯒꯩꯁꯦꯡꯅꯃꯛꯁꯨ ꯏꯟꯇꯔꯅꯦꯜ ꯁꯤꯀꯨꯔꯤꯇꯤꯗ ꯄꯥꯀꯤꯁꯇꯥꯟ ꯑꯃꯁꯨꯡ ꯆꯥꯏꯅꯥ ꯑꯁꯤ ꯌꯥꯝꯅ ꯃꯔꯨꯑꯣꯏꯕ
ꯂꯩꯕꯥꯛꯁꯤꯡꯅꯤ꯫ ꯃꯁꯤꯅ ꯃꯔꯝ ꯑꯣꯏꯔꯒ ꯑꯐꯒꯥꯅꯤꯁꯇꯥꯟ ꯂꯩꯕꯥꯛ ꯑꯅꯤ ꯑꯁꯤꯒꯤ ꯃꯤꯑꯣꯏꯁꯤꯡ ꯏꯟꯗꯤꯌ
ꯥꯒꯤ ꯑꯋꯥꯡ ꯅꯣꯡꯄꯣꯛ ꯁ꯭ꯇꯦꯠꯁꯤꯡꯗ ꯃꯅꯤꯡ ꯇꯝꯅ ꯆꯪꯕꯒꯤ ꯑꯌꯥꯕ ꯄꯤꯗꯦ꯫ ꯔꯦꯁꯇ꯭ꯔꯤꯛꯇꯦꯗ ꯑꯦꯔꯤꯌꯥ
ꯄꯥꯔꯃꯤꯠꯀꯤ ꯃꯈꯥꯗ ꯑꯈꯟꯅꯕ ꯄꯥꯔꯃꯤꯁꯟ ꯑꯃ ꯂꯧꯗ꯭ꯔꯒꯗꯤ ꯏꯟꯗꯤꯌꯥꯒꯤ ꯁ꯭ꯇꯦꯠ ꯈꯔꯗꯁꯨ ꯆꯪꯕ \

ꯥꯍꯟꯗꯦ꯫ꯑꯗꯨꯕꯨ ꯂꯨꯔꯤꯕ ꯋꯥꯐꯝ ꯑꯃꯗꯤ ꯃꯔꯨꯑꯣꯏꯅ ꯏꯟꯗꯤꯌꯥꯅ ꯐꯅ ꯌꯥꯝꯅ ꯀꯟꯅ ꯆꯥꯏꯅꯥꯕꯨ ꯂꯩꯕꯥꯛ ꯑꯁꯤꯗ
ꯆꯪꯍꯟꯗꯅꯕ ꯍꯣꯠꯅꯖꯔꯒꯁꯨ ꯆꯥꯏꯅꯥꯅ ꯁꯥꯕ ꯄꯣꯠꯂꯝ ꯀꯌꯥꯃꯔꯨꯝꯗꯤ ꯂꯩꯕꯥꯛ ꯑꯁꯤꯒꯤ ꯌꯨꯝꯊꯣꯡ ꯑꯌꯥꯝꯕꯗ
ꯁꯤꯖꯤꯟꯅꯔꯤ꯫ ꯏꯀꯅꯃꯤꯒꯤ ꯂꯥꯜꯂꯣꯡꯗ ꯆꯥꯏꯅꯥꯒꯤ ꯄꯣꯠꯂꯝꯁꯤꯡ ꯂꯩꯕꯥꯛ ꯑꯁꯤꯗ ꯄꯨꯁꯤꯜꯂꯛꯄ ꯍꯦꯛ
ꯉꯝꯕꯃꯈꯩ ꯊꯤꯡꯅꯕ ꯍꯣꯠꯅꯖꯔꯕꯁꯨ ꯃꯦꯛ TE ꯏꯟꯗꯤꯌꯥꯒꯤ ꯃꯈꯥꯗ ꯏꯟꯗꯤꯌꯥ ꯃꯆꯥꯁꯤꯡꯅ ꯄꯣꯠꯂꯝ ꯀꯌ
ꯥꯃꯔꯨꯝ ꯆꯥꯏꯅꯥꯗꯒꯤ ꯂꯧꯔꯒ ꯏꯟꯗꯤꯌꯥꯒꯤ ꯃꯤꯡꯗ ꯁꯥꯔꯒ ꯃꯤꯌꯥꯝꯗ ꯐꯪꯍꯜꯂꯤ꯫ ꯍꯥꯏꯔꯤꯕ ꯄꯣꯠꯂꯝꯁꯤꯡ
ꯑꯁꯤꯗꯤ ꯅꯨꯃꯤꯠ ꯈꯨꯗꯤꯡꯒꯤ ꯃꯤꯌꯥꯝꯅ ꯇꯉꯥꯏꯐꯗꯅ ꯁꯤꯖꯤꯟꯅꯔꯤꯕ ꯄꯣꯠꯂꯝꯁꯤꯡꯅꯤ꯫ ꯃꯁꯤꯅ ꯏꯟꯗꯤꯌꯥꯒꯤ
ꯏꯀꯅꯃꯤꯗ ꯇꯤꯜꯅ ꯆꯤꯛꯄ ꯑꯣꯏꯔꯒꯁꯨ ꯂꯩꯕꯥꯛ ꯑꯁꯤꯒꯤ ꯏꯟꯇꯔꯅꯦꯜ ꯁꯤꯀꯨꯔꯤꯇꯤꯗ ꯊꯣꯏꯅ ꯑꯀꯥꯏꯕ
ꯂꯩꯇꯦ ꯍꯥꯏꯅ ꯂꯧꯕ ꯌꯥꯏ꯫ ꯑꯗꯨꯕꯨ ꯂꯩꯕꯥꯛ ꯑꯁꯤꯒꯤ ꯇꯦꯂꯤꯀꯃꯨꯅꯤꯀꯦꯁꯟ ꯅꯠꯇ꯭ꯔꯒ ꯂꯥꯟꯃꯤ/ ꯄꯦꯔꯥ ꯃꯤꯂꯤꯇꯔꯤ
ꯐꯣꯔꯁ/ ꯄꯨꯂꯤꯁ ꯄꯥꯔꯁꯅꯦꯜꯁꯤꯡꯅ ꯁꯤꯖꯤꯟꯅꯔꯤꯕ ꯋꯥꯌꯔꯂꯦꯁ ꯁꯦꯠꯁꯤꯡ ꯅꯠꯇ꯭ꯔꯒ ꯔꯤꯄꯤꯇꯔꯁꯤꯡ
ꯑꯁꯤ ꯆꯥꯏꯅꯥꯅ ꯁꯥꯕ ꯉꯥꯛꯇ ꯁꯤꯖꯤꯟꯅꯔꯒꯗꯤ ꯂꯩꯕꯥꯛ ꯑꯁꯤꯒꯤ ꯑꯔꯣꯟ ꯑꯊꯨꯞ ꯀꯗꯥꯏꯗ ꯂꯩꯔꯤꯕꯒꯦ ꯍꯥꯏꯕ
ꯋꯥꯐꯝ ꯑꯁꯤ ꯌꯥꯝꯅ ꯉꯜꯂꯤꯉꯩ ꯃꯇꯝꯗꯒꯤ ꯍꯪꯅꯗꯨꯅ ꯂꯥꯛꯄ ꯋꯥꯍꯪ ꯑꯣꯏꯔꯤꯕꯅꯤ꯫ ꯃꯔꯝ ꯑꯗꯨꯅ ꯃꯤꯅꯤꯁꯇ꯭ꯔꯤ
ꯑꯣꯐ ꯗꯤꯐꯦꯟꯁ ꯅꯠꯇ꯭ꯔꯒ ꯃꯤꯅꯤꯁꯇ꯭ꯔꯤ ꯑꯣꯐ ꯍꯣꯝ ꯑꯦꯐꯤꯌꯥꯔꯁꯅ ꯋꯥꯌꯔꯂꯦꯁꯀꯨꯝꯕ ꯇꯦꯂꯤꯀꯣꯝꯒ ꯃꯔꯤ
ꯂꯩꯅꯕ ꯄꯣꯠꯂꯝꯁꯤꯡ ꯂꯩꯕꯗ ꯆꯥꯏꯅꯥꯒꯤ ꯅꯠꯇꯕ ꯂꯩꯕꯥꯛ ꯑꯁꯤꯒꯤ ꯃꯍꯧꯁꯥꯗꯒꯤ ꯍꯧꯅ ꯃꯔꯨꯞ ꯃꯄꯥꯡ ꯑꯣꯏꯅ
ꯇꯤꯟꯅꯗꯨꯅ ꯂꯥꯛꯂꯕ ꯔꯁꯤꯌꯥꯒꯨꯝꯕ ꯂꯩꯕꯥꯛꯇꯒꯤ ꯂꯩꯕꯅ ꯍꯦꯟꯅ ꯈꯨꯗꯣꯡꯆꯥꯒꯅꯤ꯫ ꯃꯁꯤꯅ ꯂꯩꯕꯥꯛ ꯑꯁꯤꯒꯤ
ꯏꯟꯇꯔꯅꯦꯜ ꯁꯤꯀꯨꯔꯤꯇꯤ ꯅꯤꯡꯊꯤꯅ ꯉꯥꯛ ꯁꯦꯟꯗꯨꯅ ꯊꯝꯕꯗ ꯃꯇꯦꯡ ꯑꯣꯏꯒꯅꯤ꯫ ꯃꯅꯤꯄꯨꯔꯗ ꯋꯥꯊꯣꯛ
ꯑꯣꯏꯗꯨꯅ ꯂꯩꯔꯕ ꯃꯈꯜ ꯀꯌꯥꯒꯤ ꯋꯥꯌꯔꯂꯦꯁ ꯁꯦꯠꯁꯤꯡ ꯀꯨꯝꯖꯥ 2015 ꯗ ꯂꯩꯁꯤꯟꯈꯕꯒꯤ ꯋꯥꯊꯣꯛ ꯑꯁꯤꯗꯁꯨ
ꯆꯥꯏꯅꯥꯅ ꯁꯥꯕ ꯋꯥꯌꯔꯂꯦꯁ ꯁꯦꯠ ꯑꯣꯏꯅ ꯂꯩꯔꯝꯃꯤ꯫ ꯑꯦꯀꯣꯝ ꯍꯥꯏꯕ ꯀꯝꯄꯦꯅꯤꯅ ꯁꯥꯕ ꯋꯥꯌꯔꯂꯦꯁ ꯁꯦꯠ
ꯄꯤꯌꯨ ꯍꯥꯏꯔꯒ ꯍꯦꯇꯦꯔꯥ ꯊꯥꯕ ꯋꯥꯌꯔꯂꯦꯁ ꯁꯦꯠꯇ ꯆꯦꯅ ꯃꯊꯛꯇ ꯑꯦꯀꯣꯝ ꯅꯞꯁꯤꯜꯂꯒ ꯄꯤꯗꯨꯅ ꯁ꯭ꯇꯦꯠꯀꯤ
ꯁꯤꯀꯨꯔꯤꯇꯤꯗ ꯑꯆꯧꯕ ꯅꯝꯊꯥꯛ ꯑꯃ ꯇꯧꯗꯨꯅ ꯂꯥꯛꯈꯤ꯫ ꯋꯥꯊꯣꯛ ꯑꯁꯤ ꯇꯔꯥꯏ ꯇꯔꯥꯏꯅ ꯍꯦꯛꯇ ꯂꯧꯕ \

ꯥꯔꯣꯏ꯫ ꯃꯁꯤꯅ ꯁ꯭ꯇꯦꯠ ꯑꯁꯤꯒꯤ ꯁꯤꯀꯨꯔꯤꯇꯤꯗ ꯆꯥꯎꯅ ꯁꯣꯛꯍꯜꯂꯤ ꯍꯥꯏꯕꯁꯤ ꯂꯩꯉꯥꯛꯅ ꯁꯣꯏꯗꯅ ꯈꯪꯒꯅꯤ꯫

ꯂꯨꯄꯥ ꯀ꯭ꯔꯣꯔ 2.65 ꯔꯣꯝꯒꯤ ꯃꯃꯜ ꯑꯣꯏꯒꯗꯕ ꯃꯅꯤꯄꯨꯔ ꯄꯨꯂꯤꯁ ꯑꯃꯗꯤ ꯚꯤ ꯚꯤ ꯑꯥꯏ ꯄꯤꯁꯤꯡ ꯉꯥꯛ
ꯁꯦꯜꯂꯤꯕ ꯄꯥꯔꯁꯅꯦꯜꯁꯤꯡꯅ ꯁꯤꯖꯤꯟꯅꯒꯗꯕ ꯋꯥꯌꯔꯂꯦꯁ ꯁꯦꯠ ꯑꯃꯗꯤ ꯔꯤꯄꯤꯇꯔꯅꯆꯤꯡꯕ ꯂꯩꯕꯒꯤ
ꯋꯥꯊꯣꯛꯇ ꯆꯦꯟꯅꯕꯒꯤꯗꯃꯛ ꯃꯅꯤꯄꯨꯔ ꯄꯨꯂꯤꯁ ꯇꯦꯂꯤꯀꯣꯝ ꯑꯣꯔꯒꯅꯥꯏꯖꯦꯁꯟꯒꯖꯤ ꯗꯤ ꯑꯥꯏ ꯖꯤ, ꯑꯦꯁ
ꯑꯩꯆ ꯗ꯭ꯋꯤꯖꯃꯅꯤ ꯑꯃꯁꯨꯡ ꯑꯣꯔꯒꯅꯥꯏꯖꯦꯁꯟ ꯑꯁꯤꯃꯛꯀꯤ ꯑꯦꯗꯤꯁꯅꯦꯜ ꯑꯦꯁ ꯄꯤ ꯑꯦꯟ ꯏꯕꯣꯆꯧꯕ
ꯊꯥ ꯑꯁꯤꯒꯤ 28 ꯗ ꯊꯣꯛꯈꯤꯕ ꯂꯩꯉꯥꯛꯀꯤ ꯌꯥꯊꯪ ꯑꯃꯅ ꯊꯕꯛꯇꯒꯤ ꯁꯁꯄꯦꯟ ꯇꯧꯈ꯭ꯔꯦ꯫ ꯃꯈꯣꯏ ꯑꯅꯤ
ꯊꯕꯛꯇꯒꯤ ꯁꯁꯄꯦꯟ ꯇꯧꯈꯤꯕ ꯑꯁꯤ ꯃꯅꯤꯄꯨꯔ ꯄꯨꯂꯤꯁꯀꯤ ꯑꯦ ꯗꯤ ꯖꯤ ꯄꯤ ꯑꯃꯅ ꯂꯨꯆꯤꯡꯕ ꯃꯤꯑꯣꯏ 3
ꯅ ꯁꯥꯕ ꯀꯃꯤꯇꯤ ꯑꯃꯅ ꯇꯔꯦꯠ ꯇꯔꯥ ꯊꯣꯛꯅ ꯊꯤꯒꯠꯂꯕ ꯇꯨꯡꯗ ꯑꯔꯥꯟꯕ ꯇꯧꯔꯝꯂꯦ ꯍꯥꯏꯕ ꯈꯪꯂꯕ ꯇꯨꯡꯗꯅꯤ꯫

ꯋꯥꯌꯔꯂꯦꯁ ꯁꯦꯠ ꯑꯃꯗꯤ ꯔꯤꯄꯤꯇꯔꯁꯤꯡ ꯑꯗꯨ ꯂꯩꯅꯅꯕꯒꯤ ꯊꯕꯛ ꯊꯧꯔꯝꯁꯤꯡ ꯄꯥꯏꯈꯠꯂꯛꯄꯗ
ꯇꯦꯂꯤꯀꯣꯝ ꯑꯣꯔꯒꯅꯥꯏꯖꯦꯁꯟ ꯑꯁꯤꯒꯤ ꯃꯤꯑꯣꯏ 3 ꯅ ꯁꯥꯕ ꯂꯥꯏꯟ ꯀꯃꯤꯇꯤ ꯑꯃꯅ ꯄꯣꯠꯂꯝꯁꯤꯡ ꯑꯗꯨ
ꯑꯐꯕ ꯉꯥꯛꯇꯅꯤ ꯍꯥꯏꯅ ꯌꯥꯊꯣꯛꯂꯨꯕꯗꯒꯤꯗꯃꯛ ꯃꯈꯣꯏꯕꯨ ꯊꯕꯛꯇꯒꯤ ꯁꯁꯄꯦꯟ ꯇꯧꯕꯅꯤ ꯍꯥꯏꯕꯁꯤ ꯆꯦꯟꯕ
ꯌꯥꯔꯔꯣꯏꯗꯕ ꯈꯨꯗꯝ ꯆꯥꯡꯗꯝ ꯀꯌꯥꯃꯔꯨꯝ ꯂꯩꯔꯤ꯫ ꯃꯈꯣꯏꯅ ꯂꯩꯁꯤꯜꯂꯝꯕ ꯔꯤꯄꯤꯇꯔ 12 ꯍꯧꯖꯤꯛꯁꯨ ꯅꯤꯡꯊꯤꯅ
ꯁꯤꯖꯤꯟꯅꯕ ꯌꯥꯗ꯭ꯔꯤ꯫ ꯆꯦꯅꯦꯜ ꯃꯁꯤꯡ ꯀꯌꯥꯃꯔꯨꯝꯗ ꯄꯥꯎ ꯐꯥꯎꯗꯣꯛ ꯐꯥꯎꯖꯤꯟ ꯇꯧꯅꯅꯕꯒꯤ ꯔꯤꯄꯤꯇꯔꯁꯤꯡ
ꯑꯗꯨ ꯄꯥꯟꯈꯠꯄ ꯂꯣꯏꯔꯕ ꯃꯇꯨꯡꯗ ꯆꯦꯅꯦꯜ ꯑꯃꯗꯒꯤ ꯍꯦꯟꯅ ꯌꯥꯈꯤꯗꯦ꯫ ꯀꯝꯄꯦꯅꯤ ꯑꯁꯤꯒꯤ ꯃꯤꯑꯣꯏ
ꯀꯌꯥꯃꯔꯨꯝ ꯀꯧꯗꯨꯅ ꯍꯟꯖꯤꯟ ꯍꯟꯖꯤꯟꯅ ꯁꯦꯝꯍꯜꯂꯕ ꯐꯥꯎꯕꯗꯁꯨ ꯃꯜꯇꯤ ꯀꯂꯔ ꯀꯣꯗ ꯑꯣꯏꯍꯟꯕ
ꯉꯝꯗꯕꯗꯒꯤ ꯅꯤꯡꯊꯤꯅ ꯁꯤꯖꯤꯟꯅꯕ ꯌꯥꯗ꯭ꯔꯤ꯫ ꯆꯤꯡꯅꯨꯡ ꯃꯥꯅꯨꯡꯅ ꯊꯜꯂꯕ ꯃꯐꯝ ꯑꯃꯒ ꯃꯐꯝ
ꯑꯃꯒ ꯏ-ꯄꯥꯎ ꯐꯥꯎꯅꯕꯒꯤ SA ꯊꯦꯡꯅ ꯈꯨꯗꯣꯡꯆꯥꯕ ꯂꯩꯇꯕ ꯁ꯭ꯇꯦꯠ ꯑꯁꯤꯗ ꯋꯥꯌꯔꯂꯦꯁ ꯁꯦꯠꯁꯤꯡ
ꯑꯁꯤꯒꯤ ꯃꯇꯦꯡꯅ ꯁ꯭ꯇꯦꯠ ꯑꯁꯤꯒꯤ ꯑꯔꯨꯕ ꯏ-ꯄꯥꯎꯁꯤꯡ ꯃꯐꯝ ꯑꯃꯗꯒꯤ ꯃꯐꯝ ꯑꯃꯗ ꯄꯥꯎ
ꯊꯥꯗꯣꯛ ꯊꯥꯖꯤꯟ ꯇꯧꯔꯤ꯫ ꯑꯁꯤꯒꯨꯝꯕ ꯆꯥꯎꯔꯕ ꯊꯧꯗꯥꯡ ꯑꯁꯤ ꯀꯅꯥꯒꯨꯝꯕ ꯈꯔꯅ ꯂꯃꯈꯥꯡꯗ ꯃꯥꯡꯍꯟꯅꯕ
ꯍꯣꯠꯅꯕ ꯍꯥꯡꯏꯕꯁꯤ ꯇꯔꯥꯏꯅ ꯇꯣꯛꯄ ꯌꯥꯕ ꯋꯥꯐꯝ ꯅꯠꯇꯦ꯫ ꯂꯨꯄꯥ ꯀ꯭ꯔꯣꯔ 3 ꯌꯧꯕ ꯋꯥꯊꯣꯛ ꯅꯠꯇꯦ
ꯍꯥꯏꯅ ꯏꯁꯨ ꯑꯁꯤ ꯇꯔꯥꯏꯅ ꯂꯧꯕ ꯆꯨꯝꯂꯣꯏ꯫ ꯃꯁꯤꯗꯤ ꯂꯩꯕꯥꯛ ꯑꯁꯤꯒꯤ ꯌꯥꯡꯂꯦꯟ ꯁꯔꯨ ꯑꯣꯏꯔꯤꯕ
ꯄꯨꯂꯤꯁ ꯄꯥꯔꯁꯅꯦꯜꯁꯤꯡꯒꯤ ꯈꯨꯠꯂꯥꯏꯅꯤ꯫ ꯃꯁꯤꯒꯤ ꯄꯥꯝꯕꯩꯅ ꯁ꯭ꯇꯦꯠ ꯑꯁꯤꯒꯤ ꯂꯣ ꯑꯦꯟꯗ ꯑꯣꯔꯗꯔ
ꯉꯥꯛꯂꯤꯕꯅꯤ꯫ ꯃꯇꯥꯡ ꯑꯁꯤꯗ ꯄꯟꯖꯅꯤꯡꯕ ꯋꯥꯐꯝꯗꯤ, ꯊꯕꯛꯇꯒꯤ ꯁꯁꯄꯦꯟ ꯇꯧꯕ ꯍꯥꯏꯕꯁꯤ ꯆꯩꯔꯥꯛ
ꯅꯠꯇꯦ꯫ ꯃꯁꯤꯗꯤ ꯗꯤꯄꯥꯔꯠꯃꯦꯟꯇꯦꯜ ꯏꯟꯀ꯭ꯋꯥꯔꯤ ꯑꯃ ꯆꯠꯊꯅꯅꯕꯒꯤ ꯇꯉꯥꯏꯐꯗꯅ ꯇꯧꯗꯕ ꯌꯥꯗ꯭ꯔꯕ
ꯄ꯭ꯔꯣꯁꯦꯁ ꯑꯃꯅꯤ꯫ ꯇꯁꯦꯡꯅꯃꯛ ꯃꯔꯥꯜ ꯂꯩ ꯍꯥꯏꯅ ꯏꯟꯀ꯭ꯋꯥꯔꯤ ꯀꯃꯤꯇꯤꯅ ꯔꯤꯀꯃꯦꯟ ꯇꯧꯔꯝꯕ
ꯑꯣꯏꯔꯒꯗꯤ ꯋꯥꯊꯣꯛꯁꯤꯡ ꯑꯁꯤꯗ ꯆꯦꯟꯅꯔꯤꯕ ꯄꯥꯔꯁꯅꯦꯜ ꯈꯨꯗꯤꯡꯃꯛꯀꯤ ꯃꯊꯛꯇ ꯑꯦꯐ ꯑꯥꯏ ꯑꯥꯔ
ꯂꯧꯒꯗꯕꯅꯤ ꯑꯃꯁꯨꯡ ꯃꯈꯣꯏꯗ ꯂꯣꯒꯤ ꯃꯇꯨꯡꯏꯟꯅ ꯄꯤꯐꯝ ꯊꯣꯛꯄ ꯆꯩꯔꯥꯛꯁꯤꯡ ꯄꯤꯅꯕ ꯍꯣꯠꯅꯔꯕ
ꯃꯇꯝꯗꯇ ꯂꯩꯉꯥꯛꯅ ꯃꯤꯌꯥꯝꯒꯤ ꯊꯕꯛ ꯇꯧꯏ ꯍꯥꯏꯕꯗꯨ ꯎꯠꯄ ꯉꯝꯒꯅꯤ꯫

ꯒꯦꯂꯟꯗ꯭ꯔꯤ ꯊꯥꯗꯨꯅ ꯁꯦꯟꯗꯥꯜ ꯂꯝꯕꯤ ꯁꯦꯝꯂꯁꯤ
ꯒꯦꯂꯟꯗ꯭ꯔꯤ ꯃꯤꯌꯥꯝꯅ ꯄꯥꯝꯅꯕ ꯑꯦꯟꯖꯥꯡ ꯃꯈꯜꯁꯤꯡꯒꯤ ꯃꯅꯨꯡꯗ ꯑꯃꯅꯤ꯫ ꯃꯅꯤꯄꯨꯔꯗ ꯚꯦꯂꯟꯗ꯭ꯔꯤ
ꯑꯁꯤ ꯁꯥꯒ ꯑꯣꯏꯅ, ꯈꯔ ꯀꯪꯅ ꯉꯧꯔꯒ, ꯉꯥꯜꯂꯕ ꯃꯇꯨ ꯀꯪꯅ ꯃꯦꯠꯇꯨꯅ, ꯏꯔꯣꯝꯕ ꯑꯣꯏꯅ, ꯕꯣꯔꯥ ꯍꯧꯗꯨꯅ
ꯑꯃꯗꯤ ꯆꯝꯅ ꯉꯥꯟꯗꯨꯅ ꯆꯥꯅꯕ ꯑꯦꯟꯖꯥꯡ ꯃꯈꯜꯅꯤ꯫ ꯀꯅꯥꯒꯨꯝꯕꯅ ꯅꯤꯡꯊꯤꯅ ꯆꯥꯝꯊꯣꯛꯂꯒ ꯃꯇꯨꯡꯗ ꯍꯤꯡꯅ
ꯆꯥꯕꯁꯨ ꯇꯧꯅꯩ꯫ ꯚꯦꯂꯟꯗ꯭ꯔꯤ ꯒ꯭ꯔꯥꯝ 100 ꯗ ꯌꯥꯎꯕ ꯃꯔꯨ ꯑꯣꯏꯕ ꯆꯤꯟꯖꯥꯛꯀꯤ ꯃꯆꯟ ꯈꯔ ꯊꯝꯖꯒꯦ꯫ ꯆꯅꯥꯡ
(ꯀꯥꯔꯕꯣꯍꯥꯏꯗ꯭ꯔꯦꯠ)- ꯒ꯭ꯔꯥꯝ 6.4, ꯄ꯭ꯔꯣꯇꯤꯟ ꯒ꯭ꯔꯥꯝ 1.9, ꯐꯦꯠ ꯒ꯭ꯔꯥꯝ 0.2, ꯄꯣꯇꯥꯁꯤꯌꯝ ꯃꯤꯂꯤꯒ꯭ꯔꯥꯝ 103,
ꯀꯦꯜꯁꯤꯌꯝ ꯃꯤꯂꯤꯒ꯭ꯔꯥꯝ 66, ꯐꯣꯁꯐꯔꯁ ꯃꯤꯂꯤꯒ꯭ꯔꯥꯝ 56, ꯃꯦꯒꯅꯤꯁꯤꯌꯝ ꯃꯤꯂꯤꯒ꯭ꯔꯥꯝ 43, ꯁꯣꯗꯤꯌꯝ
ꯃꯤꯂꯤꯒ꯭ꯔꯥꯝ 6.9 ꯌꯥꯎꯏ꯫ ꯍꯥꯏꯕꯗꯤ ꯆꯥꯕꯗ ꯍꯥꯎꯕꯗ ꯅꯠꯇꯅ ꯍꯛꯆꯥꯡꯗ ꯀꯥꯟꯅꯕ ꯃꯆꯜ ꯀꯌꯥ ꯌꯥꯎꯔꯤ
ꯍꯥꯏꯕꯅꯤ꯫ ꯂꯣꯏꯅꯅ ꯚꯦꯂꯟꯗ꯭ꯔꯤ ꯊꯥꯕꯗ ꯁꯦꯟꯗꯣꯡ ꯅꯤꯡꯊꯤꯅ ꯐꯪꯕ ꯉꯝꯃꯤ, ꯌꯥꯝꯅ ꯐꯕ ꯑꯦꯟꯖꯥꯡ ꯃꯈꯜꯅꯤ
ꯍꯥꯏꯕ ꯇꯥꯏ꯫ ꯈꯔ ꯈꯪꯖꯤꯟꯃꯤꯟꯅꯕ ꯀꯥꯟꯅꯒꯅꯤ ꯈꯜꯂꯤ꯫

ꯃꯈꯜ: ꯑꯐꯕ ꯃꯈꯜ ꯀꯌꯥ ꯑꯃ ꯃꯃꯥꯡꯉꯩꯗꯒꯤ ꯂꯩꯔꯛꯏ ꯑꯗꯨꯕꯨ ꯃꯅꯤꯄꯨꯔꯗ ꯃꯔꯨ ꯃꯔꯥꯡ \

ꯣꯟꯕꯤꯔꯤꯕꯁꯤꯡꯅ ꯍꯧꯖꯤꯛꯇꯤ ꯑꯅꯧꯕ ꯃꯈꯜ ꯀꯌꯥ ꯑꯃ ꯃꯄꯥꯟꯗꯒꯤ ꯄꯨꯁꯤꯜꯂꯛꯇꯨꯅ ꯃꯅꯤꯄꯨꯔꯗ ꯃꯥꯏ
ꯄꯥꯛꯅ ꯊꯥꯅꯔꯦ꯫ ꯃꯅꯤꯄꯨꯔꯗꯗꯤ ꯃꯔꯨ ꯑꯣꯏꯅ ꯑꯐꯕ ꯀꯝꯄꯦꯅꯤ ꯀꯌꯥꯅ ꯄꯨꯊꯣꯛꯄ ꯃꯈꯜꯅ ꯑꯌꯥꯝꯕ ꯑꯣꯏꯅ
ꯇꯧꯔꯦ꯫ ꯃꯈꯣꯏꯁꯤꯡ ꯑꯁꯤꯒꯤ ꯃꯔꯨꯒꯤ ꯃꯃꯜ ꯈꯔ ꯇꯥꯡꯖꯔꯒꯁꯨ ꯐꯠꯇꯦ ꯍꯥꯏꯕꯗꯤ ꯌꯥꯔꯣꯏ꯫ ꯃꯈꯜ ꯈꯔ
ꯊꯝꯖꯒꯦ- ꯑꯔꯨꯀ ꯑꯅꯥꯃꯤꯛ, ꯌꯨ ꯑꯦꯁ- 7902, ꯚꯤꯟꯗꯤ ꯅꯝꯕꯔ 1. ꯕꯁꯟꯇꯤ ꯄꯟꯕ ꯌꯥꯕ ꯆꯥꯊꯣꯛ ꯂꯩꯕ
ꯍꯥꯏꯕ꯭ꯔꯤꯗ ꯃꯈꯜꯅ ꯑꯌꯥꯝꯕꯅꯤ꯫ ꯑꯔꯀꯥ ꯑꯀꯅꯥꯃꯤꯀꯥ ꯍꯥꯏꯕ꯭ꯔꯤꯗ ꯅꯠꯇꯦ ꯑꯗꯨꯕꯨ ꯌꯥꯝꯅꯗꯤ ꯐꯕ ꯃꯈꯜꯅꯤ꯫

ꯄꯟꯖꯔꯤꯕ ꯚꯦꯂꯟꯗ꯭ꯔꯤꯁꯤꯡ ꯑꯁꯤ ꯂꯣꯏꯅꯃꯛ ꯄꯥꯝꯕꯤꯅ ꯅꯦꯝꯂꯤꯉꯩ ꯃꯇꯝ ꯍꯥꯏꯕꯗꯤ ꯃꯅꯥ ꯑꯍꯨꯝ-ꯃꯔꯤ
ꯁꯨꯕꯗꯒ ꯄꯥꯟꯕ ꯍꯧꯕꯗꯨꯅ ꯄꯥꯝꯕꯤ ꯑꯃꯗ ꯃꯍꯩ-25-30 ꯍꯦꯟꯅ ꯄꯥꯟꯕ ꯉꯥꯛꯇꯅꯤ꯫ ꯃꯁꯥ-ꯃꯔꯦꯡ ꯀꯌꯥ
ꯂꯣꯡꯒꯟꯗꯦ, ꯃꯍꯩꯒꯤ ꯃꯆꯨ ꯑꯁꯪꯕ ꯑꯣꯏꯅ ꯇꯧꯏ꯫ ꯄꯥꯝꯕꯤꯅ ꯂꯤꯁꯤꯜꯂꯛꯂꯕ ꯃꯇꯝꯗ ꯃꯈꯣꯡꯗ ꯃꯁꯥ ꯃꯆꯥ ꯑꯅꯤ
ꯑꯍꯨꯝ ꯂꯣꯡꯊꯣꯔꯛꯄ ꯊꯦꯡꯅꯒꯅꯤ꯫ ꯂꯣꯡꯂꯛꯄ ꯃꯁꯥꯁꯤꯡꯗꯁꯨ ꯑꯗꯨꯃꯛ ꯚꯦꯂꯟꯗ꯭ꯔꯤ ꯄꯥꯟꯕ ꯊꯦꯡꯅꯒꯅꯤ꯫

ꯄꯟꯖꯔꯤꯕ ꯃꯈꯜꯁꯤꯡ ꯑꯁꯤ ꯄꯥꯝꯕꯤ ꯑꯁꯤꯒꯤ ꯈ꯭ꯋꯥꯏꯗꯒꯤ ꯁꯥꯊꯤ ꯍꯥꯏꯅ ꯂꯧꯅꯔꯤꯕ ꯚꯥꯏꯔꯁꯀꯤ ꯂꯥꯏꯅꯥ

YVMV (Yellow vein mosaic Virus) fkxErq aSMKgieg!

ꯑꯏꯪ ꯑꯁꯥ: ꯚꯦꯂꯟꯗ꯭ꯔꯤꯒꯤ ꯈ꯭ꯋꯥꯏꯗꯒꯤ ꯆꯥꯟꯕ ꯑꯏꯪ ꯑꯁꯥꯗꯤ 25
0 ꯁꯤ -30
0 ꯁꯤꯅꯤ꯫ ꯀꯥ ꯍꯦꯟꯅ ꯏꯪꯕ
ꯄꯛꯅꯗꯦ꯫ ꯀꯥ ꯍꯦꯟꯅ ꯁꯥꯔꯕꯁꯨ ꯄꯛꯅꯗꯦ꯫

ꯊꯥꯕꯒꯤ ꯃꯇꯝ: ꯃꯅꯤꯄꯨꯔꯗ ꯒꯦꯂꯟꯗ꯭ꯔꯤ ꯑꯁꯤ ꯐꯦꯕ꯭ꯔꯨꯋꯥꯔꯤꯗꯒꯤꯅ ꯑꯦꯄ꯭ꯔꯤꯜ ꯐꯥꯎꯕ ꯑꯗꯨꯃꯛ ꯊꯥꯕ
ꯌꯥꯏ꯫ ꯈꯔ ꯉꯟꯅ ꯐꯦꯕ꯭ꯔꯨꯋꯥꯔꯤ ꯊꯥꯗ ꯅꯤꯡꯊꯤꯅ ꯍꯧꯍꯟꯕ ꯉꯝꯂꯕꯗꯤ ꯑꯇꯥꯡꯕ ꯅꯪꯏ꯫ ꯃꯔꯝꯗꯤ ꯑꯌꯥꯝꯕꯅ ꯊꯥ
ꯑꯁꯤꯗ ꯃꯥꯏ ꯄꯥꯛꯅ ꯚꯦꯂꯟꯗ꯭ꯔꯤ ꯃꯇꯣꯟ ꯆꯣꯡꯍꯟꯗꯨꯅ ꯍꯧꯍꯟꯕ ꯈꯔ ꯋꯥꯏ, ꯈꯨꯠ ꯈꯔ ꯆꯪꯏ꯫

ꯂꯩꯕꯥꯛ ꯍꯩꯂꯥꯎ: ꯚꯦꯜꯟꯗ꯭ꯔꯤꯗꯤ ꯂꯩꯉꯣꯏ ꯦꯍꯃꯂ ꯑꯃꯁꯨꯡ ꯑꯀꯟꯕ ꯂꯩꯇꯥꯟ ꯂꯝꯗ ꯄꯛꯅꯗꯦ꯫ ꯐꯣꯂꯤ ꯇꯥꯕ
ꯑꯣꯔꯚꯥꯅꯤꯛ ꯃꯦꯇꯔ ꯌꯥꯝꯅ ꯌꯥꯎꯕ ꯑꯃꯁꯨꯡ ꯏꯁꯤꯡ ꯅꯤꯡꯊꯤꯅ ꯆꯤꯊꯣꯛ ꯆꯤꯁꯤꯟ ꯌꯥꯕ ꯍꯥꯏꯕꯗꯤ ꯏꯁꯤꯡ
ꯇꯨꯡꯒꯟꯗꯕ ꯃꯐꯝꯗ ꯈꯔ ꯍꯦꯟꯅ ꯄꯥꯛꯅꯩ꯫ ꯑꯁꯤꯟ ꯑꯌꯥꯛꯇꯤ

PH 6-6.8 ꯐꯥꯎꯕꯒꯤ ꯃꯅꯨꯡꯗ ꯂꯩꯕꯅ
ꯈ꯭ꯋꯥꯏꯗꯒꯤ ꯆꯥꯟꯅꯩ꯫

ꯑꯔꯟ ꯑꯀꯨꯡ: ꯃꯅꯤꯄꯨꯔꯒꯤ ꯑꯣꯏꯅꯗꯤ ꯐꯦꯕ꯭ꯔꯨꯋꯥꯔꯤ ꯊꯥꯗ ꯊꯥꯕꯗ ꯈꯔ ꯀꯨꯡꯁꯤꯟꯕ ꯐꯩ ꯑꯗꯨꯒ
ꯑꯦꯄ꯭ꯔꯤꯜꯗ ꯊꯥꯔꯒꯅ ꯈꯔ ꯂꯟꯊꯣꯛꯄ ꯐꯩ꯫ ꯃꯔꯝꯗꯤ ꯑꯦꯄ꯭ꯔꯤꯜꯗ ꯊꯥꯕ ꯃꯇꯝꯗ ꯀꯨꯝꯒꯤ ꯅꯣꯡ ꯈꯔ ꯅꯪꯕ
ꯌꯥꯏ, ꯅꯣꯡ ꯅꯪꯂꯕꯗꯤ ꯚꯦꯂꯟꯗ꯭ꯔꯤ ꯈꯔ ꯋꯥꯡꯒꯜꯂꯤ꯫ ꯐꯦꯕ꯭ꯔꯨꯋꯥꯔꯤꯗ ꯊꯥꯕꯒꯤꯗꯃꯛ ꯄꯔꯦꯡꯒ ꯄꯔꯦꯡꯒ ꯐꯨꯠ
ꯑꯃ ꯃꯈꯥꯏ, ꯄꯔꯦꯡꯒꯤ ꯃꯅꯨꯡꯗ ꯄꯥꯝꯕꯤꯒ ꯄꯥꯝꯕꯤꯒ ꯐꯨꯠꯈꯥꯏ ꯑꯃ ꯑꯣꯏꯍꯟꯕ ꯆꯞ ꯆꯥꯔꯦ꯫ ꯑꯦꯄ꯭ꯔꯤꯜꯗ
ꯊꯥꯒꯦ ꯍꯥꯏꯔꯕꯗꯤ ꯄꯔꯦꯡꯒ ꯄꯔꯦꯡꯒ ꯐꯨꯠ ꯑꯅꯤ ꯑꯗꯨꯒ ꯄꯥꯝꯕꯤꯒ ꯄꯥꯝꯕꯤꯒ ꯏꯟꯆꯤ ꯇꯔꯥꯗꯒꯤ ꯐꯨꯠ ꯑꯃ
ꯐꯥꯎꯕ ꯂꯥꯎꯍꯟꯕ ꯐꯩ꯫

ꯐꯩꯗꯣꯝ ꯁꯦꯝꯕ: ꯐꯩꯗꯣꯝꯁꯤꯡ ꯈꯔ-ꯋꯥꯡꯕ ꯑꯣꯏꯅ ꯂꯩꯍꯟꯁꯤ, ꯐꯩꯗꯣꯝ ꯑꯃꯗ ꯄꯔꯦꯡ ꯑꯅꯤ ꯇꯥꯕ ꯌꯥꯅꯕ
ꯁꯦꯝꯕꯅ ꯈ꯭ꯋꯥꯏꯗꯒꯤ ꯐꯩ꯫ ꯃꯔꯝꯗꯤ ꯃꯁꯤꯅ ꯚꯦꯂꯟꯗ꯭ꯔꯤ ꯍꯦꯛꯄꯗ ꯈꯨꯠꯂꯣꯏꯕꯒ ꯂꯣꯏꯅꯅ ꯄꯥꯝꯕꯤ ꯁꯦꯃꯕꯤ
ꯁꯥꯕꯤꯕ, ꯃꯈꯣꯡ ꯁꯣꯝꯕꯅꯆꯤꯡꯕꯗ ꯅꯨꯡꯉꯥꯏꯕ ꯍꯦꯜꯂꯤ꯫ ꯐꯩꯗꯣꯝꯒꯤ ꯑꯄꯥꯛꯄ ꯑꯁꯤ ꯑꯔꯟꯕ ꯀꯥꯡꯕꯨꯒꯤꯅ
ꯃꯇꯥꯏꯗꯒꯤ ꯃꯇꯥꯏꯐꯥꯎꯕ ꯐꯨꯠ ꯃꯔꯤ ꯑꯗꯨꯒ ꯑꯀꯨꯡꯕ ꯀꯥꯡꯕꯨꯒꯤꯅ ꯐꯨꯠ ꯑꯍꯨꯝ ꯑꯣꯏꯍꯟꯁꯤ꯫ ꯐꯩꯗꯣꯝꯒꯤ
ꯃꯔꯛꯇ ꯐꯨꯠ ꯑꯃꯒꯤ ꯆꯨꯔꯤ ꯐꯨꯠꯈꯥꯏ ꯑꯃ ꯂꯨꯅꯥ ꯊꯝꯁꯤ꯫

ꯃꯔꯨꯒꯤ ꯆꯥꯡ: ꯐꯦꯕ꯭ꯔꯨꯋꯥꯔꯤ ꯊꯥꯗ ꯊꯥꯔꯕꯗꯤ ꯁꯉꯝꯗ ꯀꯤꯂꯣ ꯃꯉꯥꯃꯨꯛ ꯑꯗꯨꯒ ꯑꯦꯄ꯭ꯔꯤꯜꯗ ꯊꯥꯔꯒꯅ
ꯀꯤꯂꯣ ꯑꯍꯨꯝ ꯃꯈꯥꯏꯃꯨꯛ ꯆꯪꯒꯅꯤ꯫

ꯃꯔꯨꯗ ꯍꯤꯗꯥꯛ ꯇꯣꯠꯄ: ꯄꯣꯠ ꯈꯨꯗꯤꯡꯃꯛ ꯊꯥꯔꯝꯗꯥꯏꯗ ꯃꯔꯨꯗ ꯍꯤꯗꯥꯛ ꯇꯣꯠꯄ ꯀꯥꯎꯕꯤꯔꯣꯏꯗꯕꯅꯤ꯫

ꯃꯔꯨ ꯀꯤꯂꯣ ꯑꯃꯗ ꯁꯥꯐ ꯒ꯭ꯔꯥꯝ ꯑꯅꯤ ꯃꯨꯠ ꯇꯔꯥꯅ ꯀꯪꯅ ꯇꯣꯠꯄꯤꯌꯨ꯫ ꯅꯠꯇ꯭ꯔꯒ ꯀꯦꯞꯇꯦꯅ ꯑꯣꯏꯔꯕꯁꯨ
ꯆꯞ ꯃꯥꯟꯅꯕ ꯆꯥꯡꯗ ꯇꯣꯠꯁꯤ꯫ ꯕꯥꯏꯑꯣꯒꯤ ꯑꯣꯏꯔꯒꯅ ꯇ꯭ꯔꯤꯀꯣꯔꯗꯔꯃꯥ ꯌꯥꯎꯕ ꯍꯤꯗꯥꯛ ꯃꯔꯨ ꯀꯤꯂꯣ ꯑꯃꯗ
ꯒ꯭ꯔꯥꯝ 7-8 ꯇꯣꯠꯄꯤꯒꯅꯤ꯫ ꯕꯥꯏꯑꯣꯒ ꯔꯁꯥꯌꯟꯒ ꯀꯩꯗꯧꯅꯨꯡꯗ ꯄꯨꯟꯅ ꯇꯣꯠꯄ ꯌꯥꯗꯦ ꯑꯃ ꯅꯠꯇ꯭ꯔꯒ ꯑꯃ
ꯁꯤꯖꯤꯟꯅꯒꯅꯤ꯫

ꯊꯥꯕ: ꯚꯦꯂꯟꯗ꯭ꯔꯤ ꯃꯔꯨ ꯑꯍꯤꯡ ꯑꯃ ꯏꯁꯤꯡꯗ ꯇꯤꯡꯊꯣꯛꯂꯒ ꯊꯝꯕꯅ ꯈꯨꯠꯂꯩ ꯊꯨꯅ ꯍꯧꯕ ꯍꯦꯜꯂꯤ ꯑꯗꯨꯕꯨ
ꯏꯁꯤꯡ ꯋꯥꯠꯄ ꯃꯇꯃꯗ ꯏꯁꯤꯡ ꯄꯤꯕ ꯉꯝꯂꯣꯏꯗꯕ ꯑꯣꯏꯔꯕꯗꯤ ꯇꯤꯡꯕꯤꯔꯣꯏꯗꯕꯅꯤ꯫ ꯊꯥꯔꯕ ꯃꯇꯨꯡꯗ
ꯆꯨꯔꯤꯗ ꯏꯁꯤꯡ ꯊꯥꯖꯤꯟꯕ ꯅꯠꯇ꯭ꯔꯒ ꯑꯇꯣꯞꯄ ꯃꯑꯣꯡꯗ ꯏꯁꯤꯡ ꯆꯟꯕꯤꯕ ꯉꯝꯂꯕꯗꯤ ꯇꯤꯡꯊꯣꯛꯄꯅ
ꯈ꯭ꯋꯥꯏꯗꯒꯤ ꯐꯩ꯫

ꯍꯥꯔ ꯍꯥꯞꯄ: ꯁꯟꯊꯤ ꯁꯟꯌꯨꯡꯒꯤ ꯅꯠꯇ꯭ꯔꯒ ꯀꯝꯄꯣꯖꯤꯠꯀꯤ ꯍꯥꯔ ꯂꯩꯔꯕꯗꯤ KZA ꯑꯃꯗ KE

ꯒꯥꯔꯤ ꯃꯄꯣꯠ ꯃꯉꯥ-ꯇꯔꯨꯛ ꯍꯥꯞꯄꯤꯕ ꯐꯩ꯫ ꯊꯥꯒꯗꯕ ꯊꯥ ꯃꯈꯥꯏ ꯑꯃ ꯃꯥꯡꯖꯧꯅꯅ ꯈꯣꯏꯖꯤꯟꯕꯤꯍꯧꯕꯅ SD_

ꯥꯏꯗꯒꯤ ꯐꯩ꯫ ꯄꯥꯝꯕꯤ ꯌꯥꯝꯗꯅ ꯐꯩꯗꯣꯝ ꯈꯥ ꯊꯥꯕꯒꯤ ꯑꯣꯏꯔꯕꯗꯤ ꯀꯥꯡꯈꯨꯜꯗ ꯍꯥꯏꯔꯤꯕ ꯍꯥꯔ ꯑꯁꯤ ꯈꯨꯖꯣꯛ ꯑꯆꯧꯕ
ꯑꯃꯃꯝ ꯍꯥꯞꯄꯤꯒꯅꯤ꯫ ꯔꯁꯥꯌꯟꯒꯤ ꯍꯥꯔꯗꯤ KZA ꯑꯃꯗ ꯌꯨꯔꯤꯌꯥ ꯀꯤꯂꯣ 45-50. ꯑꯦꯁ ꯑꯦꯁ ꯄꯤ
ꯀꯤꯂꯣ 75-80, ꯑꯦꯝ ꯑꯣ ꯄꯤ ꯀꯤꯂꯣ 20-25 ꯐꯥꯎꯕ ꯍꯥꯞꯄ ꯌꯥꯏ꯫ ꯑꯔꯣꯏꯕ ꯈꯣꯏꯕꯗ ꯌꯨꯔꯤꯌ ꯁꯔꯨꯛ ꯑꯍꯨꯝ
ꯊꯣꯛꯄꯒꯤ ꯑꯃ (ꯀꯤꯂꯣ 15-17) ꯑꯦꯁ ꯑꯦꯁ ꯄꯤ ꯑꯃꯁꯨꯡ ꯑꯦꯝ ꯑꯣ ꯄꯤ ꯄꯨꯟꯅ ꯍꯥꯎꯇꯨꯅ ꯃꯃꯨꯠ ꯇꯥꯅ
ꯈꯣꯏꯖꯤꯟꯕꯤꯍꯧꯒꯅꯤ꯫ ꯃꯄꯥꯟ ꯁꯥꯔꯝꯗꯥꯏꯗ ꯂꯦꯝꯍꯧꯔꯤꯕ ꯌꯨꯔꯤꯌꯥꯒꯤ ꯇꯪꯈꯥꯏ ꯑꯃ ꯑꯗꯨꯒ ꯑꯃꯨꯛ ꯊꯥ ꯃꯈꯥꯏ
ꯑꯃ ꯂꯩꯔꯒ ꯂꯦꯝꯍꯧꯔꯤꯕ ꯁꯔꯨꯛꯇꯨ ꯍꯥꯞꯄꯤꯒꯅꯤ꯫

ꯏꯁꯤꯡ ꯆꯥꯏꯕ: ꯚꯦꯂꯟꯗ꯭ꯔꯤ ꯏꯁꯤꯡ ꯇꯣꯏꯟ ꯆꯥꯏꯕꯤꯕ ꯐꯩ꯫ ꯍꯞꯇꯥ ꯈꯨꯗꯤꯡꯒꯤ ꯏꯁꯤꯡ ꯆꯥꯏꯕꯤꯔꯕꯗꯤ
ꯆꯥꯊꯣꯛ ꯌꯥꯝꯅ ꯂꯩꯒꯅꯤ꯫ ꯏꯁꯤꯡ ꯆꯥꯏꯕꯒꯤ ꯈ꯭ꯋꯥꯏꯗꯒꯤ ꯐꯥꯕ, ꯏꯁꯤꯡ ꯌꯥꯝꯅ ꯆꯪꯗꯕ, ꯄꯥꯝꯕꯤꯗꯁꯨ ꯆꯞ ꯆꯥꯅ
ꯏꯁꯤꯡ ꯐꯪꯕ ꯉꯝꯕ ꯃꯑꯣꯡꯗ, ꯏꯁꯤꯡ ꯃꯥꯡꯍꯟꯗꯅ ꯏꯁꯤꯡ ꯆꯪꯕꯒꯤ ꯃꯑꯣꯡꯗꯤ Sprinkler ꯁꯤꯖꯤꯟꯅꯕꯅꯤ꯫

Sprinkler ꯁꯤꯖꯤꯟꯅꯗꯨꯅ ꯏꯁꯤꯡ ꯆꯥꯏꯕ ꯍꯥꯏꯕꯁꯤꯗ ꯃꯤꯌꯥꯝꯅ ꯁꯦꯜ ꯌꯥꯝꯅ ꯆꯪꯕ, ꯄꯥꯛ ꯍꯦꯛꯇ
ꯉꯝꯂꯣꯏꯗꯕ ꯑꯣꯏꯅ ꯂꯧꯕꯤꯔꯝꯕ ꯌꯥꯏ ꯃꯗꯨꯃꯛꯇꯤ ꯅꯠꯇꯦ꯫ ꯈꯪꯖꯤꯟꯕꯗ ꯀꯥꯟꯅꯒꯅꯤ ꯈꯜꯂꯤ꯫ ꯏꯁꯤꯡꯒꯤ
ꯁꯣꯔꯁ ꯍꯥꯏꯕꯗꯤ ꯏꯁꯤꯡ ꯂꯧꯐꯝ ꯄꯨꯈ꯭ꯔꯤꯒꯨꯝꯕ ꯑꯃ ꯅꯠꯇ꯭ꯔꯒ ꯑꯇꯣꯞꯄ ꯁꯣꯔꯁ ꯂꯩꯔꯕꯗꯤ ꯈꯨꯗꯣꯡ ꯆꯥꯕ
ꯑꯁꯤ ꯂꯧꯍꯟꯖꯅꯤꯡꯏ꯫ ꯃꯁꯤꯒꯤꯗꯃꯛ 0.5 ꯍꯦꯁ ꯄꯋꯔꯒꯤ ꯇꯨꯂꯨ ꯑꯃ ꯏꯂꯦꯛꯇ꯭ꯔꯤꯛꯀꯤ ꯈꯨꯗꯣꯡꯆꯥꯕ,

Sprinkler nozzle (ꯃꯃꯜ ꯌꯥꯝꯅ ꯇꯥꯡꯗꯦ) ꯑꯃ, ꯇꯨꯂꯨꯗꯨꯒ ꯆꯥꯟꯅꯕ ꯄꯥꯏꯞ ꯈꯔ, ꯄꯌꯥ ꯈꯔ, ꯌꯨꯡꯅꯅꯕ
ꯃꯆꯩ (ꯋꯥꯒꯤ ꯅꯠꯇ꯭ꯔꯒ ꯎꯒꯤ) ꯑꯃꯈꯛ ꯁꯤꯖꯤꯟꯅꯔꯒ ꯌꯥꯔꯦ꯫ ꯇꯨꯂꯨ ꯄꯥꯟꯈꯠꯄꯤꯔꯣ, ꯄꯥꯏꯞ ꯁꯝꯕꯤꯔꯣ,
ꯄꯥꯏꯞꯀꯤ ꯑꯔꯣꯏꯕ ꯃꯇꯣꯟꯗꯨ Sprinkler nozzle ꯗ ꯍꯨꯛꯆꯤꯜꯂꯒ ꯔꯕꯔ ꯔꯤꯕꯟꯅ ꯆꯦꯠꯅ ꯄꯨꯟꯕꯤꯔꯣ,
ꯃꯐꯝ ꯆꯥꯅ ꯌꯨꯡꯅꯅꯕ ꯃꯆꯩꯗꯨ ꯌꯨꯡꯂꯒ ꯅꯣꯖꯜꯒꯤ ꯃꯆꯩꯗꯨ ꯏꯌꯨꯡꯗꯨꯒꯤ ꯑꯋꯥꯡꯕꯗꯒꯤ ꯅꯣꯖꯜ ꯃꯇꯣꯟꯗꯨꯅ ꯋꯥꯡꯅ
ꯍꯦꯟꯒꯠꯅ ꯃꯨꯔꯇꯤ ꯆꯨꯝꯕ ꯄꯨꯟꯕꯤꯔꯣ, ꯇꯨꯂꯨ ꯊꯥꯔꯣ, ꯑꯁꯨꯝꯅ ꯅꯣꯖꯜ ꯃꯇꯣꯟꯗꯒꯤ ꯂꯩ-ꯂꯩꯗꯨꯅ ꯁꯤꯟꯕ ꯊꯨꯡꯅ
ꯆꯥꯏꯔꯛꯄ ꯏꯁꯤꯡꯅ ꯂꯩꯕꯥꯛ ꯆꯣꯠꯄꯒꯤ ꯆꯥꯡ ꯌꯦꯡꯕꯤꯔꯣ, ꯃꯐꯝ ꯍꯣꯡ ꯍꯣꯡꯗꯨꯅ ꯂꯧꯐꯝ ꯁꯤꯟꯕ ꯊꯨꯡꯅ
ꯏꯁꯤꯡ ꯆꯥꯏꯕꯤꯕ ꯌꯥꯔꯦ꯫ ꯍꯥꯏꯔꯤꯕ ꯃꯑꯣꯡ ꯑꯁꯤ ꯃꯔꯨ ꯍꯦꯛ ꯊꯥꯕꯗꯒꯤ ꯑꯗꯨꯃꯛ ꯍꯧꯕꯤꯕ ꯌꯥꯔꯦ꯫ ꯅ ꯏꯁꯤꯡ
ꯆꯟꯕꯒꯤ ꯊꯧꯑꯣꯡꯗꯤ ꯅꯨꯡꯖꯜꯗꯒꯤ ꯇꯥꯔꯛꯂꯤꯕ ꯏꯁꯤꯡꯒꯤ ꯆꯥꯡꯗꯒꯤ ꯂꯩꯕꯥꯛꯇ ꯏꯁꯤꯡꯗꯨꯕꯨ ꯆꯨꯞꯁꯤꯟꯕꯒꯤ
ꯆꯥꯡꯅ ꯍꯦꯟꯕ ꯑꯁꯤꯅꯤ꯫ ꯃꯔꯝ ꯑꯁꯤꯅ ꯀꯩꯗꯧꯅꯨꯡꯗ ꯑꯔꯦꯝꯕꯗ ꯑꯍꯦꯟꯕ ꯏꯁꯤꯡ ꯆꯦꯟꯊꯣꯛꯇꯨꯅ ꯃꯥꯡꯗꯕ
ꯑꯁꯤꯅꯤ꯫ ꯂꯩꯕꯥꯛ ꯌꯩꯁꯤꯟꯕꯒꯤ ꯆꯥꯡ ꯌꯥꯝꯅ ꯍꯟꯊꯩ, ꯂꯩꯕꯥꯛ ꯆꯞ ꯆꯥꯕ ꯃꯑꯣꯡꯗ ꯆꯣꯠꯍꯟꯕ ꯉꯝꯃꯤ꯫

ꯍꯥꯕꯦꯡꯕ: ꯅꯥꯄꯤꯒ ꯊꯥꯔꯤꯕ ꯄꯥꯝꯕꯤꯒ ꯃꯇꯝ ꯄꯨꯝꯅꯃꯛꯇ ꯀꯝꯄꯤꯇꯤꯁꯟ ꯇꯧꯏ ꯍꯥꯏꯕꯁꯤ ꯃꯇꯝ
ꯄꯨꯝꯅꯃꯛꯇ ꯀꯥꯎꯕꯤꯔꯣꯏꯗꯕꯅꯤ꯫ ꯃꯇꯝ ꯄꯨꯝꯅꯃꯛꯇ ꯅꯥꯄꯤ ꯍꯧꯗꯅꯕ ꯃꯈꯣꯡ ꯁꯣꯝꯗꯣꯛꯄꯤꯒꯅꯤ꯫ ꯃꯁꯤꯅ
ꯄꯥꯝꯕꯤꯒꯤ ꯃꯔꯥꯗ ꯅꯨꯡꯁꯤꯠ ꯐꯣꯟꯕꯗ ꯄꯥꯝꯕꯤ ꯃꯁꯥ ꯐꯕꯁꯨ ꯍꯦꯜꯍꯜꯂꯤ꯫

ꯂꯥꯏꯅꯥ ꯇꯤꯜꯅꯥ: ꯚꯦꯂꯟꯗ꯭ꯔꯤꯗ ꯇꯥꯕ ꯌꯥꯝꯅ ꯃꯔꯨꯑꯣꯏꯕ ꯚꯥꯏꯔꯁꯀꯤ ꯂꯥꯏꯅꯥꯕꯨ ꯁꯟꯗꯣꯛꯄ ꯉꯝꯕꯂ ꯃꯍꯤ
ꯆꯨꯞꯄ ꯇꯤꯜꯁꯤꯡ ꯇꯥꯗꯨꯅ ꯚꯦꯂꯟꯗ꯭ꯔꯤ ꯑꯉꯥꯡ ꯑꯇꯥ ꯀꯌꯥ ꯊꯣꯛꯍꯟꯕ ꯌꯥꯏ꯫ ꯃꯈꯣꯏꯗꯒꯤ ꯑꯃꯗꯤ ꯑꯇꯩ
ꯑꯇꯣꯞꯄ ꯂꯥꯏꯅꯥ ꯇꯤꯜꯅꯥꯁꯤꯡꯗꯒꯤ ꯉꯥꯛꯊꯣꯛꯅꯕ ꯃꯤꯠꯀꯨꯞ ꯅꯥꯍꯨꯝ ꯁꯤꯡꯅ ꯂꯩꯕꯤꯒꯅꯤ ꯂꯣꯏꯅꯅ ꯑꯈꯪ ꯑꯍꯩ
ꯃꯇꯝ ꯆꯥꯅ ꯇꯥꯟꯅꯗꯨꯅ ꯃꯈꯣꯡꯗꯒꯤ ꯀꯟꯅꯅꯕ ꯍꯣꯠꯅꯕꯤꯒꯅꯤ꯫ ꯍꯤꯗꯥꯛ ꯈꯔ ꯄꯟꯖꯒꯦ꯫ ꯃꯍꯤ ꯆꯨꯞꯄꯤ
ꯇꯤꯜꯁꯤꯡ, ꯈꯨꯗꯝ ꯑꯣꯏꯅ ꯋꯥꯍꯤꯛ, ꯖꯥꯁꯤꯗ, ꯍꯣꯞꯄꯔ, ꯊ꯭ꯔꯤꯞꯁ ꯑꯁꯤꯅꯆꯤꯡꯕ ꯍꯥꯠꯅꯅꯕ ꯕꯥꯏꯑꯣꯒꯤ
ꯑꯣꯏꯕ ꯍꯤꯗꯥꯛꯇ-ꯃꯥꯏꯀꯣꯖꯣꯜ, ꯕꯥꯕꯥ, ꯗꯥꯗꯥ ꯄꯟꯕ ꯌꯥꯏ꯫ ꯃꯥꯏꯀꯣꯖꯥꯜ ꯑꯁꯤ ꯏꯁꯤꯡ ꯂꯤꯇꯔ 1 ꯗ ꯃꯤꯂꯤ ꯂꯤꯇꯔ
2 ꯒꯤ ꯆꯥꯡꯗ ꯌꯥꯜꯂꯒ ꯃꯅꯥ ꯆꯣꯠꯅꯕ ꯀꯥꯞꯄꯤꯒꯅꯤ꯫ ꯕꯥꯕꯥ ꯑꯃꯗꯤ ꯗꯥꯗꯥ ꯑꯣꯏꯔꯒꯅ ꯏꯁꯤꯡ ꯂꯤꯇꯔ 1 ꯗ ꯃꯤꯂꯤ
ꯂꯤꯇꯔ 1 ꯒꯤ ꯆꯥꯡꯗ ꯌꯥꯜꯂꯒ ꯀꯥꯞꯄꯤꯒꯅꯤ꯫ ꯍꯞꯇꯥ ꯀꯥꯟꯅꯔꯒ ꯑꯃꯨꯛꯇꯪ ꯍꯟꯅ ꯀꯥꯞꯄꯤꯕ ꯐꯩ꯫ ꯔꯁꯥꯌꯟꯒꯤ
ꯑꯣꯏꯔꯒꯅ flubendiamide (fluton) ꯒ꯭ꯔꯥꯝ 5-6 ꯏꯁꯤꯡ ꯂꯤꯇꯔ ꯑꯃꯒ ꯆꯥꯡꯗ ꯌꯥꯜꯂꯒ ꯀꯥꯞꯄꯤꯕ ꯐꯩ꯫

ꯑꯇꯣꯞꯄ ꯈꯔ ꯁꯥꯊꯤꯕ ꯑꯃꯅ ꯄꯥꯝꯕꯤꯅ ꯈꯔ ꯄꯤꯛꯂꯤꯉꯩ ꯃꯇꯝꯗ ꯃꯅꯥ ꯍꯨꯠ ꯍꯨꯠꯇꯨꯅ ꯆꯥꯕ ꯇꯦꯅꯃ beetle ꯀꯧꯕ
ꯇꯤꯜ ꯑꯃꯅ ꯆꯥꯕ ꯊꯦꯡꯅꯩ꯫ ꯃꯁꯤꯒꯤꯗꯃꯛꯁꯨ ꯃꯊꯛꯀꯤ ꯍꯤꯗꯥꯛꯁꯤꯡꯁꯤꯅ ꯑꯗꯨꯃꯛ ꯌꯥꯔꯦ꯫

ꯍꯦꯛꯄ: ꯚꯦꯂꯟꯗ꯭ꯔꯤ ꯍꯦꯛꯄ ꯈꯔ ꯂꯨꯏ꯫ ꯃꯄꯨꯡ ꯐꯥꯔꯕ ꯃꯍꯩ ꯑꯗꯨ ꯃꯇꯣꯟ ꯄꯥꯏꯗꯨꯅ ꯇꯅꯣꯞ ꯑꯇꯤꯡ
ꯌꯦꯡꯕꯤꯒꯅꯤ, ꯈꯔ ꯅꯣꯞꯂꯤꯉꯩꯗ ꯍꯦꯛꯄꯤꯒꯅꯤ꯫ ꯅꯣꯡꯃ ꯅꯣꯡꯃ ꯀꯥꯜꯂꯒ ꯆꯦꯛ ꯇꯧꯔꯒ ꯍꯦꯛꯄꯤꯒꯅꯤ꯫

ꯑꯔꯤꯕ ꯌꯥꯎꯔꯝꯂꯕꯁꯨ ꯍꯦꯛꯇꯣꯛꯄꯤꯒꯅꯤ꯫ ꯑꯔꯤꯕ ꯊꯝꯕꯅ ꯃꯈꯥ ꯇꯥꯅ ꯄꯥꯟꯕ ꯍꯟꯊꯒꯅꯤ꯫ ꯚꯦꯂꯟꯗ꯭ꯔꯤ
ꯃꯇꯨ ꯄꯥꯟꯕ ꯄꯥꯝꯃꯤ ꯃꯈꯜꯅꯤ ꯃꯔꯝ ꯑꯁꯤꯅ ꯈꯔ ꯄꯥꯛꯄ ꯁꯥꯟꯅ ꯊꯥꯗꯨꯅ ꯍꯣꯠꯅꯔꯕꯗꯤ ꯍꯦꯛꯄ ꯃꯊꯝꯗ
ꯈꯨꯠ ꯍꯦꯛꯄꯒꯤ ꯃꯍꯨꯠꯇ ꯑꯊꯧꯕ ꯀꯥꯇꯤꯒꯨꯝꯕ ꯑꯃ ꯁꯤꯖꯤꯟꯅꯗꯨꯅ ꯍꯦꯛꯄꯤꯒꯅꯤ꯫ ꯍꯧꯖꯤꯛꯇꯤ ꯒꯦꯂꯟꯗ꯭ꯔꯤ
ꯍꯦꯛꯅꯕ ꯈꯨꯏꯂꯥꯏꯁꯨ ꯊꯣꯛꯂꯦ, ꯑꯃ ꯑꯅꯤ ꯊꯝꯕꯤꯕ ꯐꯩ꯫ ꯃꯁꯤꯅ ꯍꯦꯛꯄ ꯃꯇꯝꯗ ꯈꯨꯠꯇ ꯑꯀꯥꯏ ꯑꯇꯣꯏ
ꯊꯣꯛꯍꯟꯕꯗꯒꯤ ꯉꯥꯛꯊꯣꯛꯄ ꯉꯝꯒꯅꯤ꯫ ꯈꯨꯠꯇ ꯒ꯭ꯂꯣꯕ ꯁꯤꯖꯤꯟꯅꯗꯨꯅ ꯍꯦꯛꯄꯁꯨ ꯐꯩ꯫

ꯄꯣꯠꯊꯣꯛ:

ꯑꯌꯥꯝꯕ ꯚꯦꯜꯟꯗ꯭ꯔꯤꯁꯤꯡꯒꯤ ꯑꯣꯏꯅ ꯁꯉꯝꯗ ꯀꯤꯂꯣ 1500 ꯗꯒꯤꯅ 1600 ꯐꯥꯎꯕ ꯊꯣꯛꯄ ꯉꯝꯃꯤ꯫

ꯃꯊꯛꯇ ꯊꯝꯖꯔꯤꯕ ꯋꯥꯐꯝꯥꯤꯡ ꯑꯁꯤ ꯈꯪꯅ ꯚꯦꯂꯟꯗ꯭ꯔꯤ ꯊꯥꯔꯕꯗꯤ ꯁꯣꯏꯗꯅ ꯁꯦꯟꯗꯣꯡ ꯐꯪꯒꯅꯤ꯫
ꯃꯅꯥꯗ ꯇꯦꯡꯒꯥꯂꯤ ꯀꯥꯕꯤꯃꯅꯥ ꯃꯇꯣꯟ ꯂꯥꯡꯕꯤ