Supplementary Information

Table S1. Soil physico-chemical properties of the health plant with no leaf yellowing symptom (Control); ⩽50% leaf yellowing symptom (Mild):and entire canopy leaf yellowing symptom (Severe) (mean ± SE, n=4).

Soil Properties	The extent of disease		
	Control	Mild	Severe
SWC(%)	17.41±4.58	16.79±0.44	15.89±1.43
pH	6.52±1.22	7.35±0.58	6.55±0.98
SOC(g/kg)	20.67±2.7	20.48±2.84	17.75±3.83
AK	73.84±18.52b	104.35±24.15a	114.46±31.5a
AP	103.09±16.84a	87.65±14.41ab	68.43±17.24b
NH_4^+-N(mg/kg)	5.67±3.74	2.82±0.42	2.93±0.67
NO_3^--N(mg/kg)	3.65±0.57	5.27±2.06	3.43±0.73
TN(g/kg)	1.98±0.77a	1.7±0.07b	1.62±0.04b
TC(g/kg)	22.0±0.48a	17.42±0.82b	14.52±0.37c
TP(g/kg)	1.25±0.18	1.05±0.21	0.89±0.18
Ca(mg/kg)	28.67±20.5	46.54±24.84	32.13±9.75
Mg(mg/kg)	1.41±0.4b	1.49±0.27b	2.36±0.4a

SWC: soil water content; SOC: soil organic carbon; TC: total carbon;TN: total nitrogen; TP: total phosphorus; AK: available potassium; AP: available phosphorus; NO_3^--N: nitrate nitrogen; NH_4^+-N: ammonia nitrogen; Significant differences ($p < 0.05$) among treatments are shown with different letters a, b or c.

Table S2 Total energy flux across food webs (F_{Total}), energy flux from resource to bacterivores (F_{Ba}), energy flux from resource to fungivores (F_{Fu}), energy flux from resource to herbivores (F_{He}), energy flux from bacterivores to omnivore-predators ($F_{Ba\text{-}OP}$), energy flux from fungivores to omnivore-predators ($F_{Fu\text{-}OP}$), energy flux from herbivores to omnivore-predators ($F_{He\text{-}OP}$), and energy flow uniformity (U) of five ecosystems.

Variables	The extent of disease		
	Control	Mild	Severe
F_{total}	264.2±53.01a	12.6±4.36b	17.1±4.11b
$F_{ba\text{-}op}$	1.30±0.11b	1.06±0.24b	1.89±0.28a
$F_{fu\text{-}op}$	2.52±0.15a	0.68±0.21b	1.25±0.22b
$F_{he\text{-}op}$	34.4±3.08a	0.71±0.38b	0.26±0.04b
F_{ba}	13.4±1.60a	3.38±0.69b	6.36±1.88b
F_{fu}	13.7±1.80a	3.05±0.24b	5.88±0.52b
F_{he}	199.0±47.52a	4.47±0.12b	1.51±0.28b
U	0.69±0.02b	1.09±0.12a	0.99±0.07a

Values are means ± S.E.Means for each index followed by different letters are significantly different among ecosystems (p <0.05).