

Table S1. Proportion of each nematode classification to the total free-living nematodes

Ushiku I

	bacterivore								fungivore & omnivore						
	Cephalobidae				Rhabditidae				other bacterivore	Aphelenchidae			Filenchus	Ditylenchus	Dorylaimida
	Acroboloidea	others	Rhabditis	others	Aphelenchus	Aphelenchoides									
2-week prior to planting															
control	89 ± 2%	46 ± 5%	26 ± 9%	20 ± 5%	33 ± 5%	20 ± 10%	13 ± 7%	10 ± 3%	11 ± 2%	3 ± 2%	3 ± 2%	0 ± 0%	1 ± 1%	0 ± 0%	6 ± 1%
fluensulfone	85 ± 4%	54 ± 7%	30 ± 13%	24 ± 9%	23 ± 3%	15 ± 1%	8 ± 3%	8 ± 5%	15 ± 4%	8 ± 2%	7 ± 1%	0 ± 0%	1 ± 1%	0 ± 0%	6 ± 4%
fosthiazate	91 ± 4%	57 ± 7%	26 ± 10%	31 ± 17%	26 ± 9%	18 ± 5%	8 ± 4%	8 ± 4%	9 ± 4%	4 ± 1%	4 ± 1%	0 ± 0%	1 ± 0%	0 ± 0%	5 ± 3%
DCP	86 ± 1%	53 ± 6%	39 ± 14%	14 ± 12%	29 ± 4%	17 ± 4%	12 ± 6%	5 ± 2%	14 ± 1%	8 ± 2%	8 ± 2%	0 ± 0%	1 ± 1%	0 ± 0%	5 ± 0%
at planting															
control	86 ± 1%	43 ± 2%	38 ± 4%	5 ± 1%	32 ± 4%	20 ± 2%	12 ± 4%	11 ± 1%	14 ± 1%	2 ± 2%	2 ± 1%	1 ± 0%	1 ± 0%	0 ± 0%	10 ± 2%
fluensulfone	86 ± 3%	44 ± 9%	33 ± 7%	11 ± 5%	26 ± 6%	13 ± 6%	13 ± 8%	16 ± 3%	14 ± 3%	5 ± 2%	5 ± 1%	1 ± 0%	3 ± 3%	0 ± 0%	5 ± 2%
fosthiazate	88 ± 1%	48 ± 8%	42 ± 9%	5 ± 1%	27 ± 8%	19 ± 5%	8 ± 4%	13 ± 3%	12 ± 1%	4 ± 0%	4 ± 1%	0 ± 0%	1 ± 0%	0 ± 0%	7 ± 0%
DCP	100 ± 0%	100 ± 0%	100 ± 0%	0 ± 0%	0 ± 0%	0 ± 0%	0 ± 0%	0 ± 0%	0 ± 0%	0 ± 0%	0 ± 0%	0 ± 0%	0 ± 0%	0 ± 0%	0 ± 0%
1-month after planting															
control	83 ± 2%	57 ± 3%	46 ± 4%	12 ± 2%	23 ± 4%	14 ± 2%	9 ± 6%	3 ± 1%	17 ± 2%	7 ± 6%	6 ± 5%	1 ± 0%	2 ± 1%	0 ± 0%	9 ± 3%
fluensulfone	84 ± 6%	47 ± 1%	39 ± 2%	8 ± 1%	30 ± 3%	17 ± 5%	12 ± 1%	8 ± 1%	16 ± 6%	6 ± 5%	6 ± 4%	0 ± 0%	0 ± 0%	0 ± 0%	9 ± 2%
fosthiazate	81 ± 4%	42 ± 4%	36 ± 6%	6 ± 3%	28 ± 6%	19 ± 6%	10 ± 3%	10 ± 3%	19 ± 4%	8 ± 6%	8 ± 6%	0 ± 0%	2 ± 3%	0 ± 0%	9 ± 2%
DCP	99 ± 2%	97 ± 3%	95 ± 2%	2 ± 1%	0 ± 0%	0 ± 0%	0 ± 0%	1 ± 1%	1 ± 2%	1 ± 1%	1 ± 1%	0 ± 0%	0 ± 0%	0 ± 0%	0 ± 0%
2-month after planting															
control	80 ± 4%	50 ± 3%	30 ± 6%	20 ± 4%	20 ± 5%	9 ± 1%	12 ± 6%	9 ± 2%	20 ± 4%	6 ± 2%	6 ± 2%	0 ± 0%	4 ± 4%	0 ± 0%	10 ± 4%
fluensulfone	85 ± 6%	49 ± 2%	43 ± 3%	6 ± 1%	27 ± 5%	20 ± 6%	7 ± 4%	9 ± 2%	15 ± 6%	3 ± 1%	2 ± 2%	0 ± 0%	5 ± 5%	0 ± 0%	8 ± 3%
fosthiazate	95 ± 4%	57 ± 10%	51 ± 7%	6 ± 3%	26 ± 4%	16 ± 1%	10 ± 3%	12 ± 4%	5 ± 4%	2 ± 2%	2 ± 2%	0 ± 0%	1 ± 1%	0 ± 0%	3 ± 3%
DCP	100 ± 0%	94 ± 1%	90 ± 4%	4 ± 3%	2 ± 0%	0 ± 0%	1 ± 0%	5 ± 1%	0 ± 0%	0 ± 0%	0 ± 0%	0 ± 0%	0 ± 0%	0 ± 0%	0 ± 0%

Ushiku II

	bacterivore								fungivore & omnivore						
	Cephalobidae				Rhabditidae				other bacterivore	Aphelenchidae			Filenchus	Ditylenchus	Dorylaimida
	Acroboloidea	others	Rhabditis	others	Aphelenchus	Aphelenchoides									
at planting															
control	68 ± 11%	57 ± 13%	36 ± 15%	21 ± 3%	8 ± 1%	4 ± 1%	4 ± 0%	3 ± 2%	32 ± 11%	23 ± 9%	9 ± 4%	14 ± 5%	5 ± 1%	0 ± 0%	4 ± 2%
fluensulfone	81 ± 4%	62 ± 14%	42 ± 11%	21 ± 3%	16 ± 10%	8 ± 4%	8 ± 5%	3 ± 1%	19 ± 4%	11 ± 2%	4 ± 1%	7 ± 3%	2 ± 2%	1 ± 0%	5 ± 4%
fosthiazate	81 ± 3%	68 ± 3%	51 ± 5%	16 ± 2%	11 ± 2%	6 ± 1%	5 ± 0%	2 ± 1%	19 ± 3%	7 ± 0%	4 ± 1%	3 ± 1%	8 ± 6%	0 ± 0%	4 ± 3%
1-month after planting															
control	61 ± 12%	45 ± 16%	23 ± 11%	22 ± 5%	8 ± 2%	4 ± 1%	5 ± 0%	8 ± 3%	39 ± 12%	23 ± 8%	7 ± 3%	16 ± 6%	11 ± 6%	0 ± 0%	6 ± 1%
fluensulfone	63 ± 14%	45 ± 7%	23 ± 6%	22 ± 3%	13 ± 7%	7 ± 3%	6 ± 4%	6 ± 2%	37 ± 14%	19 ± 7%	5 ± 3%	14 ± 4%	13 ± 9%	0 ± 0%	5 ± 1%
fosthiazate	87 ± 1%	77 ± 5%	64 ± 3%	14 ± 3%	8 ± 3%	5 ± 2%	3 ± 2%	2 ± 1%	13 ± 1%	4 ± 0%	2 ± 0%	2 ± 1%	3 ± 2%	0 ± 0%	6 ± 2%
2-month after planting															
control	78 ± 8%	52 ± 13%	27 ± 7%	25 ± 6%	16 ± 2%	10 ± 2%	6 ± 1%	10 ± 3%	22 ± 8%	6 ± 2%	3 ± 1%	3 ± 1%	5 ± 1%	0 ± 0%	12 ± 8%
fluensulfone	70 ± 4%	45 ± 3%	21 ± 3%	25 ± 1%	17 ± 6%	10 ± 4%	7 ± 2%	8 ± 1%	30 ± 4%	10 ± 6%	4 ± 3%	6 ± 2%	7 ± 4%	0 ± 0%	12 ± 5%
fosthiazate	83 ± 4%	52 ± 2%	35 ± 3%	16 ± 2%	23 ± 0%	16 ± 3%	7 ± 3%	7 ± 1%	17 ± 4%	4 ± 0%	4 ± 0%	0 ± 0%	2 ± 1%	0 ± 0%	10 ± 4%

Table S1. (Continued.)

Miyazaki

	bacterivore								fungivore & omnivore						
		Cephalobidae			Rhabditidae			other bacterivore		Aphelenchidae			Filenchus	Dorylaimida	Others
		Acrobolooides	others		Rhabditis	others	Aphelenchus			Aphelenchoides					
at planting															
control	88% ± 2%	14% ± 4%	8% ± 2%	6% ± 2%	68% ± 9%	40% ± 4%	28% ± 5%	6% ± 5%	12% ± 2%	3% ± 1%	2% ± 0%	2% ± 1%	2% ± 1%	6% ± 0%	0% ± 0%
fluensulfone	87% ± 3%	18% ± 6%	11% ± 2%	7% ± 4%	63% ± 4%	37% ± 5%	26% ± 2%	6% ± 5%	13% ± 3%	3% ± 1%	2% ± 0%	1% ± 1%	3% ± 1%	6% ± 3%	1% ± 0%
fosthizate	89% ± 1%	18% ± 3%	11% ± 4%	6% ± 1%	67% ± 3%	36% ± 3%	30% ± 6%	5% ± 3%	11% ± 1%	3% ± 1%	1% ± 1%	1% ± 1%	3% ± 2%	5% ± 1%	1% ± 0%
1-month after planting															
control	80% ± 7%	22% ± 2%	4% ± 3%	18% ± 2%	53% ± 6%	32% ± 5%	21% ± 5%	5% ± 2%	20% ± 7%	2% ± 1%	1% ± 0%	1% ± 1%	2% ± 0%	16% ± 6%	0% ± 0%
fluensulfone	80% ± 7%	22% ± 2%	6% ± 1%	16% ± 3%	52% ± 10%	31% ± 2%	20% ± 9%	6% ± 2%	20% ± 7%	1% ± 0%	1% ± 1%	0% ± 0%	6% ± 2%	12% ± 5%	1% ± 1%
fosthizate	96% ± 1%	36% ± 11%	17% ± 6%	19% ± 7%	52% ± 8%	31% ± 3%	21% ± 7%	8% ± 3%	4% ± 1%	1% ± 1%	1% ± 1%	1% ± 1%	1% ± 1%	2% ± 1%	0% ± 0%
2-month after planting															
control	67% ± 13%	20% ± 3%	7% ± 2%	13% ± 2%	35% ± 17%	9% ± 4%	26% ± 14%	13% ± 1%	33% ± 13%	0% ± 0%	0% ± 0%	0% ± 0%	11% ± 7%	21% ± 8%	1% ± 1%
fluensulfone	81% ± 2%	30% ± 3%	12% ± 1%	18% ± 3%	42% ± 4%	7% ± 3%	35% ± 2%	9% ± 1%	19% ± 2%	2% ± 1%	1% ± 0%	1% ± 1%	10% ± 5%	6% ± 3%	0% ± 0%
fosthizate	89% ± 8%	50% ± 11%	24% ± 5%	25% ± 7%	32% ± 6%	6% ± 4%	26% ± 3%	7% ± 1%	11% ± 8%	1% ± 0%	1% ± 0%	0% ± 0%	4% ± 2%	5% ± 7%	0% ± 0%

Chiba

	bacterivore								fungivore & omnivore						
		Cephalobidae			Rhabditidae			other bacterivore		Aphelenchidae			Filenchus	Dorylaimida	Others
		Acrobolooides	others		Rhabditis	others	Aphelenchus			Aphelenchoides					
at planting															
control	84% ± 2%	53% ± 4%	41% ± 4%	13% ± 1%	18% ± 4%	11% ± 3%	8% ± 3%	12% ± 2%	16% ± 2%	6% ± 2%	3% ± 1%	3% ± 1%	5% ± 2%	5% ± 1%	0% ± 0%
fluensulfone	79% ± 5%	52% ± 3%	42% ± 4%	10% ± 2%	18% ± 4%	12% ± 3%	7% ± 2%	9% ± 2%	21% ± 5%	14% ± 3%	7% ± 3%	7% ± 1%	3% ± 1%	5% ± 2%	0% ± 0%
fosthizate	85% ± 5%	51% ± 5%	36% ± 6%	15% ± 2%	20% ± 7%	13% ± 4%	7% ± 3%	14% ± 3%	15% ± 5%	7% ± 2%	4% ± 1%	3% ± 1%	4% ± 3%	4% ± 2%	0% ± 0%
1-month after planting															
control	89% ± 2%	74% ± 4%	48% ± 3%	26% ± 4%	7% ± 1%	4% ± 2%	3% ± 0%	8% ± 4%	11% ± 2%	4% ± 1%	1% ± 0%	3% ± 1%	3% ± 2%	4% ± 0%	0% ± 0%
fluensulfone	90% ± 3%	70% ± 6%	49% ± 6%	21% ± 5%	15% ± 6%	9% ± 3%	6% ± 3%	6% ± 1%	10% ± 3%	4% ± 2%	1% ± 0%	3% ± 1%	3% ± 1%	3% ± 1%	0% ± 0%
fosthizate	94% ± 0%	81% ± 4%	66% ± 5%	15% ± 4%	7% ± 4%	5% ± 3%	3% ± 0%	5% ± 2%	6% ± 0%	4% ± 0%	0% ± 0%	4% ± 0%	1% ± 1%	2% ± 1%	0% ± 0%
2-month after planting															
control	88% ± 3%	73% ± 6%	36% ± 4%	37% ± 9%	11% ± 4%	5% ± 5%	6% ± 4%	4% ± 0%	12% ± 3%	4% ± 1%	1% ± 1%	2% ± 1%	5% ± 2%	4% ± 1%	0% ± 0%
fluensulfone	88% ± 1%	70% ± 3%	43% ± 1%	27% ± 4%	14% ± 4%	6% ± 3%	8% ± 2%	4% ± 2%	12% ± 1%	5% ± 1%	2% ± 0%	3% ± 1%	6% ± 2%	1% ± 0%	0% ± 0%
fosthizate	90% ± 5%	78% ± 6%	61% ± 7%	17% ± 2%	7% ± 2%	2% ± 0%	5% ± 2%	5% ± 3%	10% ± 5%	0% ± 0%	0% ± 0%	0% ± 0%	6% ± 2%	2% ± 3%	0% ± 0%

Mean ± standard deviation.