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┼│┘ ┘ │Mouse┘ └Rat┘ └Dog┘ │Human┼│┘ │Cells┘
◀0.837365214877516┘ ◀0.831113406528143┘ ◀0.833936867549646┘
◀0.865379973366997┼│┘

Interstitium┘ ◀0.162509544152501┘ ◀0.168778254523199┘ ◀0.165923680970108┘
◀0.134638116990729┼│┘ │Water┘ ◀0.597168688626341┘
◀0.595635532281574┘ ◀0.625625779939389┘ ◀0.502783069093154┼│┘
│Lipid┘ ◀0.132222452382601┘ ◀0.135051961437037┘
◀0.100541602220814┘ ◀0.268088138409961┼│┘ •Protein┘
◀0.217636272839058┘ ◀0.226822366673169┘ ◀0.227845198651676┘
◀0.162910330864076┼│┘ ♬Neutral Lipidc┘ ◀0.630449308003514┘
◀0.644282900008402┘ ◀0.624757306085099┘ ◀0.671657043410183┼│┘
┴Neutral Phospholipidc┘ ◀0.303063300938789┘ ◀0.291972981755945┘
◀0.307829626249189┘ ◀0.269015629468171┼│┘ ¶Acidic Phospholipidc┘
◀0.066067194407099┘ ◀0.063525457444973┘ ◀0.067153033192387┘
◀0.059732665533059┼│┘ └pHd┘ ◀6.938662867641585┘
◀6.922772581998983┘ ◀6.909534167864491┘ ◀6.940627343277092┘┐ ┘
│names┼
┘ X┘ ├Fraction.of.total.volumea┘ └X.1┘ ↑Fraction.of.cell.volumeb┘ └X.2┘ └X.3┘
┤Fraction.of.total.lipid┘ └X.4┘ └X.5┘ └X.6┘┐ ┘ │class┼ ┘
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data.frameþ┘ ╗ ┘ chem.physical_and_invitro.data└ ‼ ,┼ 0┘
Acetochlor┘ • Ametryn┘ ♂ Bisphenol-A┘ ◘ boscalid┘ ◘ Carbaryl┘
Cyproconazole┘ Fenarimol┘ ♂ Flusilazole┘ ├ Formetanate hydrochloride┘
◘ Imazalil┘ ◘ Isazofos┘ ♂ Propyzamide┘

Pyrimethanil┘ ↕ Pyrithiobac-sodium┘ ♂ Thidiazuron┘

Triflumizole♩ ♬ 2-Phenylphenol♩ Abamectin♩ ◘ Aldicarb♩ Atrazine ♩
♬ Azinphosmethyl♩

Azoxystrobin♩
Bendiocarb♩
Bifenazate♩
Bromoxynil♩ ♬ Cacodylic acid♩ ◘ Carboxin♩ ♂ Chloridazon♩ Clomazone♩

Clothianidin┘ Cyanazine┘ ♂ Cyclanilide┘
Cyromazine┘ • Dazomet┘ ◘ Diazoxon┘ • Dicamba┘ ♂ Dichlorprop┘
Diclosulam┘ ♂ Dicrotophos┘ ◄ Diethyl toluamide┘ ♬ Difenoconazole┘
Dimethoate┘

Dimethomorph┘
Diphenylamine┘ – Diuron┘ ┬ Ethametsulfuron-methyl┘
Fenamidone┘
Fenamiphos┘
Fenhexamid┘
Fenoxycarb┘ Fluazinam┘ ♂ Fludioxonil┘ ♂ Flumetsulam┘ ♂ Fluometuron┘
Fluoxastrobin┘
Fluroxypyr┘
Flutolanil┘ ☼ Forchlorfenuron┘

Hexaconazole
Hexazinone ◘ Icaridin ◘ Imazamox ◘ Imazapyr Imazaquin ♂ Imazethapyr

Imidacloprid┘ → Iodosulfuron-methyl-sodium┘ ◘ Isoxaben┘ • Linuron┘
Mesotrione┘

Methidathion
Methoxyfenozide
Metribuzin
Metsulfuron-methyl
Mono-n-butyl Phthalate (MBP)

Myclobutanil♩ ♂ Norflurazon♩ ◘ Oryzalin♩ ♂ Oxasulfuron♩
Paclobutrazol♩
Penoxsulam♩ Pentadecafluorooctanoic acid♩ ♬ Phenoxyethanol♩
Pirimicarb♩
Prochloraz♩ ├ Propamocarb hydrochloride♩ Propazine♩

Propetamphos┘ ◘ Propoxur┘ ♂ Pymetrozine┘

Pyriproxyfen┘
Sethoxydim┘ ◘ Simazine┘ ♂ Spiroxamine┘
Sulfentrazone┘

Tebufenozide┘ ♂ Tebuthiuron┘

Tepraloxydim┘ ◘ Terbacil┘
THIABENDAZOLE┘ ♂ Thiacloprid┘

Thiamethoxam Thiazopyr Thiophanate Methyl

Triasulfuron Triclopyr ♬ Triflusulfuron
Triticonazole
Bensulide

Chlorpropham	Etoxazole		
Fenbuconazole	◘ Zoxamide	Bentazone	‼ Halosulfuron-methyl
Tetraconazole	◘ Alachlor	Chloroneb	♂ Dichlobenil

Dimethenamid↲ ↕ dimethyl phthalate↲

Diniconazole

Ethofumesate┘ ◘ Ethoprop┘
Flufenacet┘ ♂ Flumioxazin┘ Metalaxyl┘ ♂ Metolachlor┘ ◘ Molinate┘
♂ Oxyfluorfen┘ ◘ Rotenone┘ ♬ S-Bioallethrin┘
Tri-allate┘ ◘ Tribufos┘ 52,2-Bis(4-hydroxyphenyl)-1,1,1-trichloroethane (HPTE)┘
♂ Acifluorfen┘ • Amitraz┘ Anilazine┘ ♂ Benfluralin┘ • Benomyl┘
↕ Bensulfuron-methyl┘
Bifenthrin┘
Buprofezin┘ Butachlor┘ ◘ Butralin┘ ◘ Butylate┘ ♬ Chlorethoxyfos┘
‼ Chlorpyrifos-methyl┘ ♂ Cinmethylin┘

Clofentezine┘
Clorophene┘ Coumaphos┘ ◘ Cycloate┘
Cyprodinil┘ ┬ d-cis,trans- Allethrin┘ ◘ Diazinon┘ Dichloran┘ ☼ Diclofop-methyl┘
• Dicofol┘ ┴ Diethyhexyl phthalate┘
Disulfoton┘ Dithiopyr┘
Endosulfan┘ ┘ EPTC┘
Esfenvalerate┘
Ethalfluralin┘ ♂ Etridiazole┘

Fenitrothion┘ ┼ Fenoxaprop-ethyl┘ ◘ Fenthion┘ ┼ Fentin hydroxide┘ ◘ Fipronil┘
◀ Fluazifop-P-butyl┘ ♂ Flumetralin┘ ◀ Fluroxypyr-meptyl┘ ♂ Hexythiazox┘
Indoxacarb┘ Iprodione┘

Isoxaflutole Lactofen Lindane Malathion Mesosulfuron-methyl

Methoxychlor┘ ┼ Methyl Parathion┘ └ MGK┘ ♂ Napropamide┘
Nitrapyrin┘ Novaluron┘ Oxadiazon┘ Parathion┘
Pendimethalin┘
Permethrin┘ Phosalone┘ ◘ Picloram┘ ↕ Piperonyl butoxide┘ ◄ Pirimiphos-methyl┘
Prodiamine┘ ◘ Prometon┘ Prometryn┘ ◘ Propanil┘ ♂ Prosulfuron┘
♬ Pyraclostrobin┘ pyridaben┘
Quinoxyfen┘
Quintozene┘
Resmethrin┘

Tebufenpyrad

Tebupirimfos
Tefluthrin

Tetramethrin┘ ♂ Thiobencarb┘ ♂ Triadimefon┘ Triclosan┘ ♂ Trifluralin┘
│ 2,4-D┘ #4-(2,4-Dichlorophenoxy)butyric acid┘ ┬ 6-Desisopropylatrazine┘
◘ Acephate┘ ♂ Acetamiprid┘ ◘ Bromacil┘ • Cloprop┘ → Difenzoquat methyl sulfate┘
Foramsulfuron┘ ♂ Fosthiazate┘ ◘ Imazapic┘ ┘ MCPA┘ – Oxamyl┘
├ Oxytetracycline dihydrate┘
Quinclorac┘ ♂ Rimsulfuron┘ ♂ Triadimenol┘ ┤ Trifloxysulfuron-sodium┘ ◘ Warfarin┘
Phenytoin┘
Alprazolam┘ ◘ Bosentan┘
Diclofenac┘ Diltiazem┘
Hexobarbitone┘ Ibuprofen┘
Imipramine┘
Metoprolol┘ Midazolam┘ ♂ Nicardipine┘ ♂ Ondansetron┘ ♂ Tolbutamide┘
♂ Nilvadipine┘
Phenacetin┘
Valproic acid┘ ↕ Diethylstilbestrol┘
Retinoic acid┘
Acetaminophen┘ ◘ Diazepam┘ Diltiazem┘

Troglitazone
Zidovudine – FK1052 | FK480 Perfluorooctane sulfonic acid ◻ Caffeine

Ketoconazole
Antipyrine
Trimethadione

Trimethyltin↵ ↕ Methoxyacetic acid↵ ♂ Cyclosporin↵ ☼ 2,5-Hexanedione↵ ¶ Acetylsalicylic acid↵
Acrylamide↵ ◀ Benz(a)anthracene↵ • Benzene↵ ♂ Carbendazim↵

Chlorpyrifos
Clofibrate

Deltamethrin◀ Dibutyl phthalate◀ Diethylene glycol– Diquat♂ Domoic acid
♂ Fenofibrate Flutamide Genistein♂ Glycidamide
Gossypol◀ Hexachlorobenzene Hexachlorophene

Lead acetate ☐ Nicotine ☐

Ochratoxin A ● Paraben ◘ Paraoxon ◀ Pentachlorophenol

Phenanthrene┘ ◀ Potassium cyanide┘ – Pyrene┘
Rifampicin┘ • Toluene┘ ♂ Vinclozolin┘ ♂ Wyeth-14643┘ ◘ Cotinine┘
Phenobarbital┘ ♂ Quinotolast┘ ├ Mono ethylhexyl phthalate┤ 0┘
34256-82-1┘ ◘ 834-12-8┘ • 80-05-7┘ ♂ 188425-85-6┘ • 63-25-2┘
94361-06-5┘
60168-88-9┘
85509-19-9┘
23422-53-9┘
35554-44-0┘
42509-80-8┘
23950-58-5┘
53112-28-0┘ ♂ 123343-16-8┘
51707-55-2┘
68694-11-1┘ • 90-43-7┘
71751-41-2┘ ◘ 116-06-3┘ 1912-24-9┘ • 86-50-0┘ ♂ 131860-33-8┘
22781-23-3┘ ♂ 149877-41-8┘ 1689-84-5┘ • 75-60-5┘ 5234-68-4┘
1698-60-8┘
81777-89-1┘ ♂ 210880-92-5┘
21725-46-2┘ ♂ 113136-77-9┘
66215-27-8┘ ◘ 533-74-4┘ ◘ 962-58-3┘ 1918-00-9┘ ◘ 120-36-5┘ ♂ 145701-21-9┘
◘ 141-66-2┘ ◘ 134-62-3┘ ♂ 119446-68-3┘ • 60-51-5┘ ♂ 110488-70-5┘
◘ 122-39-4┘ ◘ 330-54-1┘
97780-06-8┘ ♂ 161326-34-7┘
22224-92-6┘ ♂ 126833-17-8┘
72490-01-8┘
79622-59-6┘ ♂ 131341-86-1┘
98967-40-9┘ 2164-17-2┘ ♂ 361377-29-9┘
69377-81-7┘
66332-96-5┘
68157-60-8┘
79983-71-4┘
51235-04-2┘ ♂ 119515-38-7┘ ♂ 114311-32-9┘
81334-34-1┘
81335-37-7┘
81335-77-5┘ ♂ 138261-41-3┘ ♂ 144550-36-7┘
82558-50-7┘ ◘ 330-55-2┘ ♂ 104206-82-8┘ ◘ 950-37-8┘ ♂ 161050-58-4┘
21087-64-9┘
74223-64-6┘ ◘ 131-70-4┘
88671-89-0┘
27314-13-2┘
19044-88-3┘ ♂ 144651-06-9┘
76738-62-0┘ ♂ 219714-96-2┘ ◘ 335-67-1┘ ◘ 122-99-6┘
23103-98-2┘
67747-09-5┘
25606-41-1┘ ◘ 139-40-2┘
31218-83-4┘ ◘ 114-26-1┘ ♂ 123312-89-0┘
95737-68-1┘
74051-80-2┘ ◘ 122-34-9┘ ♂ 118134-30-8┘ ♂ 122836-35-5┘ ♂ 112410-23-8┘
34014-18-1┘ ♂ 149979-41-9┘ 5902-51-2┘ ◘ 148-79-8┘ ♂ 111988-49-9┘
♂ 153719-23-4┘ ♂ 117718-60-2┘
23564-05-8┘
82097-50-5┘
55335-06-3┘ ♂ 126535-15-7┘ ♂ 131983-72-7┘ ◘ 741-58-2┘ ◘ 101-21-3┘
♂ 153233-91-1┘ ♂ 114369-43-6┘ ♂ 156052-68-5┘
25057-89-0┘ ♂ 100784-20-1┘ ♂ 112281-77-3┘
15972-60-8┘ 2675-77-6┘ 1194-65-6┘

87674-68-8 ◘ 131-11-3
83657-18-5
26225-79-6
13194-48-4 ♂ 142459-58-3 ♂ 103361-09-7
57837-19-1
51218-45-2 2212-67-1
42874-03-3 • 83-79-4
28434-00-6 2303-17-5 • 78-48-8 2971-36-0
50594-66-6
33089-61-1 ◘ 101-05-3 1861-40-1
17804-35-2
83055-99-6
82657-04-3
69327-76-0
23184-66-9
33629-47-9 2008-41-5
54593-83-8 5598-13-0
87818-31-3
74115-24-5 ◘ 120-32-1 • 56-72-4 1134-23-2 ♂ 121552-61-2 ◘ 584-79-2 ◘ 333-41-5 • 99-30-9
51338-27-3 ◘ 115-32-2 ◘ 117-81-7 ◘ 298-04-4
97886-45-8 ◘ 115-29-7 ◘ 759-94-4
66230-04-4
55283-68-6 2593-15-9 ◘ 122-14-5
66441-23-4 • 55-38-9 • 76-87-9 ♂ 120068-37-3
79241-46-6
62924-70-3
81406-37-3
78587-05-0 ♂ 173584-44-6
36734-19-7 ♂ 141112-29-0
77501-63-4 • 58-89-9 ◘ 121-75-5 ♂ 208465-21-8 • 72-43-5 ◘ 298-00-0 ◘ 113-48-4
15299-99-7 1929-82-4 ♂ 116714-46-6
19666-30-9 • 56-38-2
40487-42-1
52645-53-1 2310-17-0 1918-02-1 • 51-03-6
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• 11.6074	• -3.2673	– 9.2460	– 1.4207	– 8.9220	• -0.6018	
• -8.6644	– 8.6690	– 9.4356	– 3.6216	– 0.3636	– 0.4766	
• 12.2981	• 14.2876	• 10.0244	– 5.6355	– 4.2829	– 0.5997	
– 8.7904	– 3.8752	– 2.6120	• 10.2263	– 6.3777	– 0.5336	
– 1.5048	– 0.0000	• 80.0218	– 2.2074	• -0.0280	– 1.4181	
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– 8.8216	• -1.6944	– 3.7375	– 6.0501	• 16.3786	– 0.2459	
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– 1.5552	– 4.5493	• 19.0113	• 11.4667	– 3.9782	– 6.2847	
– 0.9528	– 3.3017	– 2.2859	– 9.1582	• 17.7465	– 8.6458	
• -4.3582	◘ -13.2004	– 4.9079	– 7.2317	– 3.9006	– 3.0486	
– 1.6161	– 5.8388	– 1.9365	– 0.4633	• 41.3071	– 3.4575	
• 14.3378	– 1.4927	– 8.0232	– 1.0371	• 87.0581	• 27.5439	
• 15.4261	– 2.4527	• 53.4646	• -4.5033	◘ -11.2218	◘ -14.1267	
• 38.7837	– 7.7887	• 18.7179	• 14.3384	• 45.8660	• -1.1481	
• 15.4021	• 16.6354	• 12.3633	– 8.1338	– 1.1471	• 27.5940	
– 9.4379	– 7.8775	• 24.4019	• 12.9780	• 11.4667	• 25.0739	
• 56.8622	– 0.8569	– 0.0000	– 4.9708	• 12.6382	• 72.2852	
– 7.7161	– 4.7635	• 11.5972	• 20.1685	• 13.7939	– 0.0000	
– 0.0000	– 2.1109	• 25.7062	– 7.0897	• 12.9387	• 16.2231	
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– 2.9512	#N/A	– 0.0000	• 10.6628	• -1.1880	– 0.0000	
– 3.0220	– 4.1871	◘ 129.6353	• 10.5793	• 54.2835	• 21.6152	
– 5.3251	– 2.8934	– 0.0000	• 12.2010	◘ 138.1103	– 9.5213	
– 3.7803	– 5.0445	• 26.7226	– 8.9889	– 3.2678	• 74.7427	
– 3.4706	• 29.3388	– 6.7777	• 18.8074	• 13.3780	• 12.8242	
– 6.7138	– 4.3745	• -3.0041	• 12.7794	• 22.5867	• 35.4366	
– 2.9417	• 19.2463	– 0.0000	– 4.9726	– 3.0508	– 6.5607	
• 15.5492	• 11.2252	• 16.0583	• 14.4079	• -1.3121	• 21.6495	
• 38.3482	• 10.7261	• 15.7151	• 24.8674	◘ 230.8681	– 0.0000	
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• -3.7153	• -4.2634	• -3.4036	◘ -10.7513	• -1.7426	• -4.0441	
• -5.6286	• -5.7480	• -0.7006	• -1.0638	• -3.9333	• -1.6627	
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	23.1773	88.5314	2.9558	6.5390	6.7556	1.6733
	2.6921	2.8375	0.4172	4.1052	6.6868	48.0917
	12.3704	21.3679	4.7634	19.7104	83.6025	50.0085
	90.5833	17.5037	42.7326	17.3359	50.5854	31.5522
	98.4015	93.5234	89.1427	32.6939	18.0184	0.8529
	0.6480	84.5731	35.5886	0.4255	96.4918	9.4276
	0.3875	16.1460	1.5662	2.4362	4.1383	5.7194
	0.3270	0.4357	0.3583	1.7267	25.8916	3.6201
	9.1941	1.8819	2.7550	4.1000	61.2982	28.4180
	45.4824	92.3123	15.1273	28.9509	65.5851	0.6681
	4.7126	10.5123	35.4754	26.8484	6.1194	47.8672
	8.5995	20.7711	8.4287	18.4057	0.4802	6.0839
	15.3767	1.0089	0.4779	29.5713	16.3337	2.2370
	84.3484	3.6511	0.9787	21.5949	102.4543	0.0907
	5.4720	28.4499	0.5446	99.3304	3.3785	41.7222
	38.3433	10.2890	13.8160	28.5697	82.8566	1.1392
	42.7007	2.3048	2.2368	32.9235	13.7257	0.6078
	0.0000	0.0000	0.0000	1.0310	2.1472	0.9462
	2.4838	13.3184	57.7389	6.2220	23.1773	65.6031
	1.9468	13.1270	9.3459	13.7473	2.8072	73.0560

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• 45.8844	• 86.8373	• 57.3219	– 8.5195	– 2.2385	• 85.1279
– 6.4899	• 45.9904	• 54.6775	– 1.7971	• 79.2577	• 39.8169
– 2.7994	• 62.7788	• 12.5809	– 0.3760		

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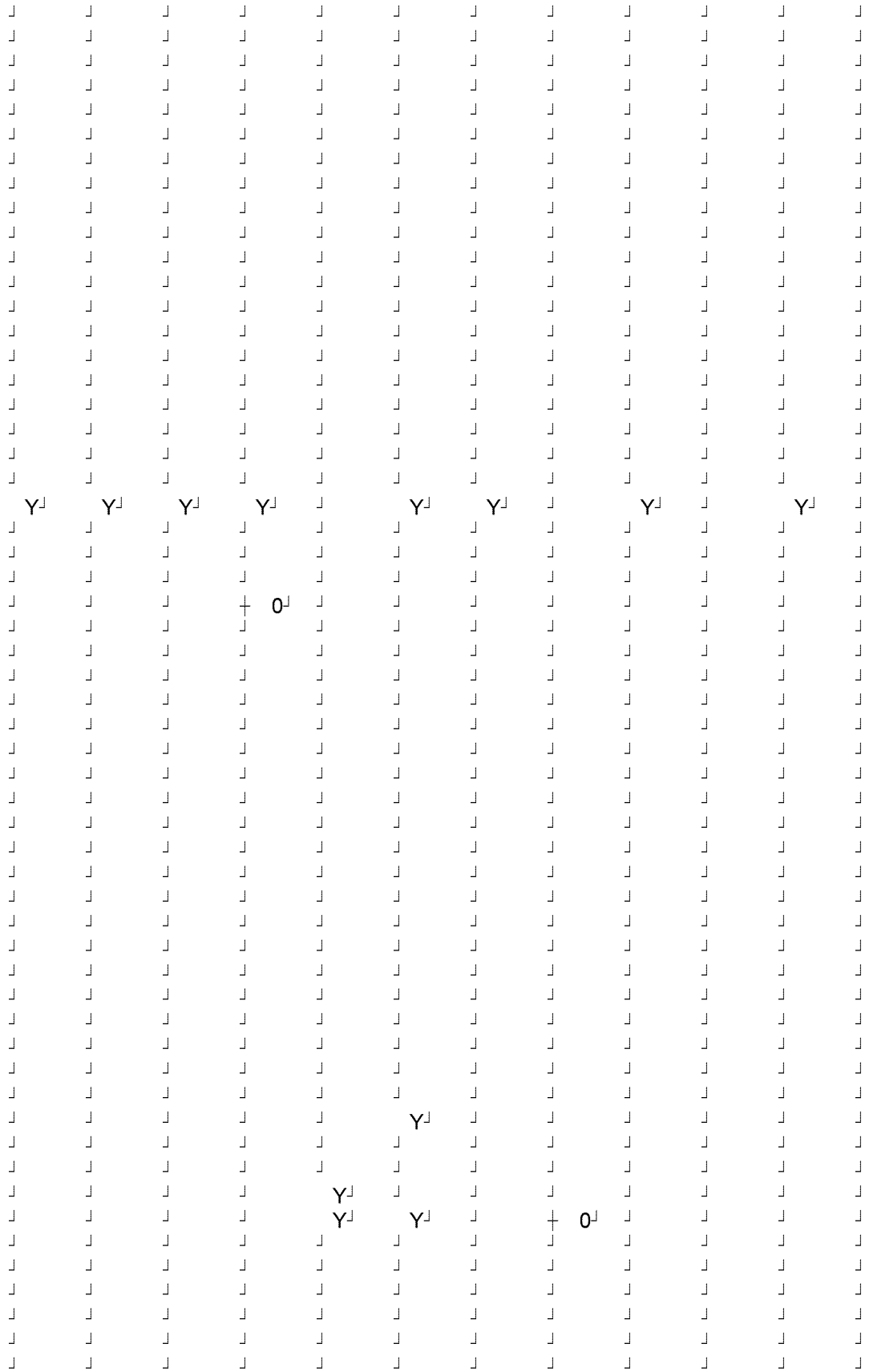
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♂ Reference.1┘ └ pKa┘ ♂ Reference.2┘ ♂ Human.Clint┘
♂ Reference.3┘ Human.Fub┘ ♂ Reference.4┘ Human.Fab┘
♂ Reference.5┘ Human.Rbp┘ ♂ Reference.6┘ Rat.Clint┘
♂ Reference.7┘ • Rat.Fub┘ │ X1.uM┘ – X10.uM┘ • X1.uM.1┘
◘ X10.uM.1┘ ◘ X10.uM.2┘ X┘ • X1.uM.2┘ ◘ X10.uM.3┘ • X1.uM.3┘
◘ X10.uM.4┘ ♂ Reference.8┘ • Rat.Fab┘ ♂ Reference.9┘ • Rat.Rbp┘

Reference.10┘ └ Ito┘ │ Riley┘ • Schmitt┘ ◘ Naritomi┘ │ Jones┘ ┐ └ ÿ┼ ┘
data.frame┘ ┐ ┘ ÿ
┐ €ÿÿþÐþ┘ ┐ ┘ ↕ PK.physiology.data└ ‼ – ┼ ♂ ┘ ┼ Total Body Water┘
Plasma Volume┘ ♬ Cardiac Output┘
Average BW┘ ¶ Total Plasma Protein┘ ♬ Plasma albumin┘ ♬ Plasma a-1-AGP┘
Hematocrit┘ │ Urine┘ ┘ Bile┘ └ GFR┼ ♂ ┘ │ ml/kg┘ │ ml/kg┘
ml/min/kg┘ ┐ kg┘ ┘ g/ml┘ ┘ g/ml┘ ┘ g/ml┘ ◘ fraction┘
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┘ • Adipose┘ ┘ Bone┘ │ Brain┘ └ Gut┘ │ Heart┘ • Kidneys┘
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└ FPc┘ │ Fn_Lc┘ – Fn_PLc┘ – Fa_PLc┘ ┐ pH┘ ┼ Mouse Vol (L/kg)┘
♬ Rat Vol (L/kg)┘ ♬ Dog Vol (L/kg)┘ ┼ Human Vol (L/kg)┘ ┬ Mouse Flow
(mL/min/kg)┘ ¶ Rat Flow (mL/min/kg)┘ ¶ Dog Flow (mL/min/kg)┘ ┬ Human Flow
(mL/min/kg)┘ ┐ ┘ ÿ
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data.frameþ┘ ┐ ┘
tissuelist┐ ‼ ┘ ┼ ┘ │ Liver┼ ┘ • Kidneys┼ ┘ ┘ Lung┼ ┘ ┘ Skin┘ ┐ ┐ ÿ┼ ┘ ┘
│ Liver┘ – Kidney┘ ┘ Lung┘ ┘ Skinþ┘ ┐ ┘

Wetmore.data└ ‼ ¶┼┐ C┘ 52,2-Bis(4-hydroxyphenyl)-1,1,1-trichloroethane (HPTE)┘ 52,2-Bis(4-hydroxyphenyl)-1,1,1-trichloroethane (HPTE)┘ #4-(2,4-Dichlorophenoxy)butyric acid┘ #4-(2,4-Dichlorophenoxy)butyric acid┘ │ 2,4-D┘ │ 2,4-D┘ ♬ 2-Phenylphenol┘ ♬ 2-Phenylphenol┘ ┬ 6-Desisopropylatrazine┘ Abamectin┘ Abamectin┘ ◘ Acephate┘ ◘ Acephate┘ ♂ Acetamiprid┘ ♂ Acetamiprid┘ Acetochlor┘
Acetochlor┘ ♂ Acifluorfen┘ ♂ Acifluorfen┘ ◘ Alachlor┘ ◘ Alachlor┘ ◘ Aldicarb┘ ◘ Aldicarb┘ • Ametryn┘ • Ametryn┘ • Amitraz┘ Anilazine┘ Anilazine┘ Atrazine ┘ Atrazine ┘ ♬ Azinphosmethyl┘ ♬ Azinphosmethyl┘

Azoxystrobin

Azoxystrobin
Bendiocarb
Bendiocarb ♂ Benfluralin ♂ Benfluralin • Benomyl • Benomyl ↕ Bensulfuron-methyl
↕ Bensulfuron-methyl
Bensulide
Bensulide Bentazone Bentazone
Bifenazate
Bifenazate
Bifenthrin
Bifenthrin ♂ Bisphenol-A ♂ Bisphenol-A ◘ Boscalid ◘ Boscalid
◘ Bromacil ◘ Bromacil
Bromoxynil
Bromoxynil
Buprofezin
Buprofezin Butachlor Butachlor ◘ Butralin ◘ Butralin
◘ Butylate ♬ Cacodylic acid ♬ Cacodylic acid ◘ Carbaryl ◘ Carbaryl
◘ Carboxin ◘ Carboxin ♬ Chlorethoxyfos ♂ Chloridazon ♂ Chloridazon
Chloroneb Chloroneb

Chlorpropham

Chlorpropham┘ ‼ Chlorpyrifos-methyl┘ ♂ Cinmethylin┘ ♂ Cinmethylin┘

Clofentezine

Clofentezine
Clorophene
Clorophene

Clomazone

Clomazone

- Cloprop

- Cloprop

Clothianidin

Clothianidin┘ Coumaphos┘ Coumaphos┘ Cyanazine┘
Cyanazine┘ ♂ Cyclanilide┘ ♂ Cyclanilide┘ ◘ Cycloate┘
Cyproconazole┘
Cyproconazole┘
Cyprodinil┘
Cyprodinil┘
Cyromazine┘
Cyromazine┘ • Dazomet┘ ┬ d-cis,trans- Allethrin┘ ┬ d-cis,trans- Allethrin┘ ◘ Diazinon┘
◘ Diazinon┘ ◘ Diazoxon┘ ◘ Diazoxon┘ ◀ Dibutyl Phthalate┘ ◀ Dibutyl Phthalate┘
• Dicamba┘ • Dicamba┘ ♂ Dichlobenil┘ ♂ Dichlobenil┘ Dichloran┘
Dichloran┘ ♂ Dichlorprop┘ ♂ Dichlorprop┘ ☼ Diclofop-methyl┘ ☼ Diclofop-methyl┘
Diclosulam┘
Diclosulam┘ • Dicofol┘ • Dicofol┘ ♂ Dicrotophos┘ ♂ Dicrotophos┘
┴ Diethyhexyl phthalate┘ ┴ Diethyhexyl phthalate┘ ◀ Diethyl toluamide┘
◀ Diethyl toluamide┘ ♫ Difenoconazole┘ ♫ Difenoconazole┘ → Difenzoquat methyl sulfate┘ → Difenzoquat methyl sulfate┘

Dimethenamid

Dimethenamid
Dimethoate
Dimethoate

Dimethomorph

Dimethomorph↵ ↕ dimethyl phthalate↵

Diniconazole

Diniconazole┘
Diphenylamine┘
Diphenylamine┘
Disulfoton┘ Dithiopyr┘ Dithiopyr┘ – Diuron┘ – Diuron┘
↕ Emamectin benzoate┘ ↕ Emamectin benzoate┘
Endosulfan┘
Endosulfan┘ ┘ EPTC┘
Esfenvalerate┘
Esfenvalerate┘
Ethalfluralin┘
Ethalfluralin┘ ┬ Ethametsulfuron-methyl┘ ┬ Ethametsulfuron-methyl┘

Ethofumesate

Ethofumesate┘ ♀ Ethoprop┘ ♀ Ethoprop┘ Etoxazole┘ Etoxazole┘
♂ Etridiazole┘ ♂ Etridiazole┘
Fenamidone┘
Fenamidone┘
Fenamiphos┘
Fenamiphos┘ Fenarimol┘ Fenarimol┘
Fenbuconazole┘
Fenbuconazole┘
Fenhexamid┘
Fenhexamid┘

Fenitrothion

Fenitrothion┘ ┼ Fenoxaprop-ethyl┘ ┼ Fenoxaprop-ethyl┘
Fenoxycarb┘
Fenoxycarb┘ ◘ Fenthion┘ ◘ Fenthion┘ ┼ Fentin hydroxide┘ ┼ Fentin hydroxide┘
◘ Fipronil┘ ◘ Fipronil┘ ◀ Fluazifop-P-butyl┘ Fluazinam┘
Fluazinam┘ ♂ Fludioxonil┘ ♂ Fludioxonil┘
Flufenacet┘
Flufenacet┘ ♂ Flumetralin┘ ♂ Flumetralin┘ ♂ Flumetsulam┘ ♂ Flumetsulam┘
♂ Flumioxazin┘ ♂ Flumioxazin┘ ♂ Fluometuron┘ ♂ Fluometuron┘
Fluoxastrobin┘
Fluoxastrobin┘
Fluroxypyr┘
Fluroxypyr┘ ◀ Fluroxypyr-meptyl┘ ◀ Fluroxypyr-meptyl┘ ♂ Flusilazole┘ ♂ Flusilazole┘
Flutolanil┘
Flutolanil┘
Foramsulfuron┘ ☼ Forchlorfenuron┘ ☼ Forchlorfenuron┘ ├ Formetanate hydrochloride┘
├ Formetanate hydrochloride┘ ♂ Fosthiazate┘ ♂ Fosthiazate┘ ‼ Halosulfuron-methyl┘
‼ Halosulfuron-methyl┘

Hexaconazole

Hexaconazole
Hexazinone
Hexazinone ♂ Hexythiazox ♂ Hexythiazox ◘ Icaridin ◘ Icaridin
◘ Imazalil ◘ Imazalil ◘ Imazamox ◘ Imazamox ◘ Imazapic ◘ Imazapic
◘ Imazapyr ◘ Imazapyr Imazaquin Imazaquin ♂ Imazethapyr
♂ Imazethapyr

Imidacloprid

Imidacloprid
Indoxacarb
Indoxacarb → Iodosulfuron-methyl-sodium → Iodosulfuron-methyl-sodium Iprodione
Iprodione ◘ Isazofos ◘ Isazofos ◘ Isoxaben ◘ Isoxaben

Isoxaflutole

Isoxaflutole Lactofen Lactofen Lindane Lindane Linuron
Linuron Malathion Malathion MCPA MCPA
Mesosulfuron-methyl
Mesotrione Metalaxyl Metalaxyl

Methidathion

Methidathion

Methoxychlor

Methoxychlor┘ ☼ Methoxyfenozide┘ ☼ Methoxyfenozide┘ ┼ Methyl Parathion┘ ┼ Methyl Parathion┘ ♂ Metolachlor┘ ♂ Metolachlor┘
Metribuzin┘
Metribuzin┘ ↕ Metsulfuron-methyl┘ ↕ Metsulfuron-methyl┘ └ MGK┘ └ MGK┘
DMilbemectin (A mixture of >=70% Milbemcin A4, & <=30% Milbemycin A3)┘ DMilbemectin (A mixture of >=70% Milbemcin A4, & <=30% Milbemycin A3)┘ ◘ Molinate┘ ◘ Molinate┘ Mono-n-butyl Phthalate (MBP)┘ Mono-n-butyl Phthalate (MBP)┘

Myclobutanil

Myclobutanil┘ ♂ Napropamide┘ ♂ Napropamide┘ ♂ Niclosamide┘ ♂ Niclosamide┘

Nitrapyrin┘
Nitrapyrin┘ ♂ Norflurazon┘ ♂ Norflurazon┘ Novaluron┘ Novaluron┘
◘ Oryzalin┘ ◘ Oryzalin┘ Oxadiazon┘ Oxadiazon┘ – Oxamyl┘
– Oxamyl┘ ♂ Oxasulfuron┘ ♂ Oxasulfuron┘ ♂ Oxyfluorfen┘ ♂ Oxyfluorfen┘
├ Oxytetracycline dihydrate┘ ├ Oxytetracycline dihydrate┘
Paclobutrazol┘
Paclobutrazol┘ Parathion┘ Parathion┘
Pendimethalin┘
Pendimethalin┘
Penoxsulam┘
Penoxsulam┘ Pentadecafluorooctanoic acid┘ Pentadecafluorooctanoic acid┘
Perfluorooctane sulfonic acid┘ Perfluorooctane sulfonic acid┘
Permethrin┘
Permethrin┘ ♬ Phenoxyethanol┘ ♬ Phenoxyethanol┘ Phosalone┘
Phosalone┘ ◘ Picloram┘ ◘ Picloram┘ ↕ Piperonyl butoxide┘ ↕ Piperonyl butoxide┘
Pirimicarb┘
Pirimicarb┘ ◀ Pirimiphos-methyl┘ ◀ Pirimiphos-methyl┘
Prochloraz┘
Prochloraz┘
Prodiamine┘
Prodiamine┘ ◘ Prometon┘ ◘ Prometon┘ Prometryn┘ Prometryn┘
├ Propamocarb hydrochloride┘ ├ Propamocarb hydrochloride┘ ◘ Propanil┘ ◘ Propanil┘
Propazine┘ Propazine┘

Propetamphos

Propetamphos♩ ♂ Prosulfuron♩ ♬ Pyraclostrobin♩

◘ Propoxur♩ ♂ Prosulfuron♩

◘ Propoxur♩ ♂ Pymetrozine♩ Pyridaben♩

♂ Propyzamide♩ ♬ Pyraclostrobin♩ Pyridaben♩

♂ Propyzamide♩

Pyrimethanil

Pyrimethanil

Pyriproxyfen

Pyriproxyfen♩ ↕ Pyrithiobac-sodium♩ ↕ Pyrithiobac-sodium♩
Quinclorac♩
Quinclorac♩
Quinoxyfen♩
Quinoxyfen♩
Quintozene♩
Quintozene♩
Resmethrin♩
Resmethrin♩ ♂ Rimsulfuron♩ ♂ Rimsulfuron♩ ◘ Rotenone♩ ◘ Rotenone♩ ♬ S-Bioallethrin♩ ♬ S-Bioallethrin♩
Sethoxydim♩
Sethoxydim♩ ◘ Simazine♩ ◘ Simazine♩ ♂ Spiroxamine♩ ♂ Spiroxamine♩
Sulfentrazone♩
Sulfentrazone♩

Tebufenozide

Tebufenozide

Tebufenpyrad

Tebufenpyrad

Tebupirimfos

Tebupirimfos┘ ♂ Tebuthiuron┘ ♂ Tebuthiuron┘
Tefluthrin┘
Tefluthrin┘

Tepraloxydim

Tepraloxydim ◘ Terbacil ◘ Terbacil
Tetraconazole
Tetraconazole

Tetramethrin

Tetramethrin┘
Thiabendazole┘
Thiabendazole┘ ♂ Thiacloprid┘ ♂ Thiacloprid┘

Thiamethoxam

Thiamethoxam┘ Thiazopyr┘ Thiazopyr┘ ♂ Thidiazuron┘ ♂ Thidiazuron┘
♂ Thiobencarb┘ ↕ Thiophanate Methyl┘ ↕ Thiophanate Methyl┘ ♂ Triadimefon┘
♂ Triadimefon┘ ♂ Triadimenol┘ ♂ Triadimenol┘
Tri-allate┘

Triasulfuron

Triasulfuron┘ ◘ Tribufos┘ ◘ Tribufos┘ Triclopyr┘ Triclopyr┘
Triclosan┘ Triclosan┘ ┤ Trifloxysulfuron-sodium┘ ┤ Trifloxysulfuron-
sodium┘

Triflumizole

Triflumizole♩ ♂ Trifluralin♩ ♂ Trifluralin♩ ♬ Triflusulfuron♩ ♬ Triflusulfuron♩
Triticonazole♩
Triticonazole♩ ♂ Vinclozolin♩ ♂ Vinclozolin♩ ◘ Zoxamide♩ ◘ Zoxamide♩ | 2,4-D♩ | 2,4-D♩
Acetochlor♩
Acetochlor♩ ♂ Acifluorfen♩ ♂ Acifluorfen♩ ◘ Alachlor♩ ◘ Alachlor♩ • Ametryn♩ • Ametryn♩
Bensulide ♩
Bensulide ♩ Bentazone♩ Bentazone♩ ♂ Bisphenol-A♩ ♂ Bisphenol-A♩ ◘ Boscalid♩ ◘ Boscalid♩ ◘ Carbaryl♩ ◘ Carbaryl♩ ♂ Chloridazon♩ ♂ Chloridazon♩

Chlorpropham

Chlorpropham┘ ♂ Cyclanilide┘ ♂ Cyclanilide┘
Cyproconazole┘
Cyproconazole┘
Cyprodinil┘
Cyprodinil┘ ◘ Diazoxon┘ ◘ Diazoxon┘ ♂ Dichlobenil┘ ♂ Dichlobenil┘ ┴ Diethyhexyl phthalate┘ ┴ Diethyhexyl phthalate┘

Dimethenamid

Dimethenamid
Diphenylamine
Diphenylamine Dithiopyr Dithiopyr – Diuron – Diuron

Ethofumesate

Ethofumesate┘ ◘ Ethoprop┘ ◘ Ethoprop┘ Etoxazole┘ Etoxazole┘
Fenarimol┘ Fenarimol┘
Fenbuconazole┘
Fenbuconazole┘ ♂ Fludioxonil┘ ♂ Fludioxonil┘
Flufenacet┘
Flufenacet┘ ♂ Flusilazole┘ ♂ Flusilazole┘ ├ Formetanate hydrochloride┘ ├ Formetanate
hydrochloride┘ ‼ Halosulfuron-methyl┘ ‼ Halosulfuron-methyl┘

Hexaconazole

Hexaconazole ☐ Imazalil ☐ Imazalil ☐

Imidacloprid

Imidacloprid ☐ Isazofos ☐ Isazofos ☐

Isoxaflutole

Isoxaflutole┘ • Lindane┘ • Lindane┘ ┘ MCPA┘ ┘ MCPA┘ Novaluron┘ Novaluron┘ Oxadiazon┘ Oxadiazon┘ Pentadecafluorooctanoic acid┘ Pentadecafluorooctanoic acid┘ Perfluorooctane sulfonic acid┘ Perfluorooctane sulfonic acid┘
Permethrin┘
Permethrin┘ ├ Propamocarb hydrochloride┘ ├ Propamocarb hydrochloride┘ ♂ Propyzamide┘ ♂ Propyzamide┘

Pyrimethanil

Pyrimethanil┘ ↕ Pyrithiobac-sodium┘ ↕ Pyrithiobac-sodium┘
Resmethrin┘
Resmethrin┘ ♂ Rimsulfuron┘ ♂ Rimsulfuron┘ ♬ S-Bioallethrin┘ ♬ S-
Bioallethrin┘ ◘ Simazine┘ ◘ Simazine┘
Tetraconazole┘
Tetraconazole┘ ♂ Thidiazuron┘ ♂ Thidiazuron┘ ♂ Triadimefon┘ ♂ Triadimefon┘
Triclosan┘ Triclosan┘

Triflumizole

Triflumizole┘
Triticonazole┘
Triticonazole┘ ◘ Zoxamide┘ ◘ Zoxamide┼┐C┘ 2971-36-0┘ 2971-36-0┘
• 94-82-6┘ • 94-82-6┘ • 94-75-7┘ • 94-75-7┘ • 90-43-7┘ • 90-43-7┘
1007-28-9┘
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71751-41-2┘
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68694-11-1⌟ 1582-09-8⌟ 1582-09-8⌟ ♂ 126535-15-7⌟ ♂ 126535-15-7⌟ ♂ 131983-72-7⌟ ♂ 131983-72-7⌟
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50471-44-8⌟ ♂ 156052-68-5⌟ ♂ 156052-68-5⌟ • 94-75-7⌟ • 94-75-7⌟
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50594-66-6⌟
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15972-60-8⌟ ◘ 834-12-8⌟ ◘ 834-12-8⌟ ◘ 741-58-2⌟ ◘ 741-58-2⌟
25057-89-0⌟
25057-89-0⌟ • 80-05-7⌟ • 80-05-7⌟ ♂ 188425-85-6⌟ ♂ 188425-85-6⌟ • 63-25-2⌟ • 63-25-2⌟ 1698-60-8⌟ 1698-60-8⌟ ◘ 101-21-3⌟ ◘ 101-21-3⌟ ♂ 113136-77-9⌟ ♂ 113136-77-9⌟
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94361-06-5⌟ ♂ 121552-61-2⌟ ♂ 121552-61-2⌟ ◘ 962-58-3⌟ ◘ 962-58-3⌟ 1194-65-6⌟ 1194-65-6⌟ ◘ 117-81-7⌟ ◘ 117-81-7⌟
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=q@uä´9X┼b@uä´9X┼b@l)Oß;dZ@l)Oß;dZ@n+t¼j~ú@n+t¼j~ú@gˆ‹C•• – @gˆ‹C•• – @kB‡+┐

J@kB‡+┐

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?}@z+º^5?}@u]G®¶ zá@u]G®¶ zá@k┴ ?|í'h@k┴ ?|í'h@wBQë… ¸@wBQë… ¸@t¶~ùÛ"Ñ@t¶~ùÛ"Ñ@i'
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I°^@sÝ┐

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Ä›¦@jµC•• – %@jµC•• – %@q!©“♂ àß@q!©“♂ àß@r<• – $Ý/@r<• – $Ý/@l)G®¶ zá@l)G®¶ zá@r┘ zxl"h@r
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5sê³g¡?ïKÆ§ï ²?ïKÆ§ï ²@5˜K]Ìcñ@5˜K]Ìcñ@← │ ¼ £n/@← │ ¼ £n/@XÝ‰7KÆ¨?Ä9X┼ bMÓ?Ä9X┼ b MÓ?úÅÖ8┼YK?úÅÖ8┼YK?·8 }¿H€?·8 }¿H€@│ … ¸Që…@│ … ¸Që…@– e+ÓÃa‼ @– e+ÓÃa‼ @Oc ¯·é¤ ù@Oc ¯·é¤ ù?ûp£×
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$@9´É…ðoi@┴¼← ÚQ├Î@ [ÚQ├Î• @◘MÒñ©ûç@┘å`A‰7L¿î7´¢3œ☼À%€ªdÂø8@¶ – $Ý/← @)à IQ,
ª@%tDjh(³@$sÜýF’6@;â:)Çy§@09 ¶ã¼Ó@ C•• – $Ý@├,ÃÉîËû?Õ‡“Ý—
ö+?á‼ @N¤¨Á@A=µsê³h?ø›¥ãS÷Ï?ùfffffff@Bã
\Ÿh;?êØ↑┤×j¾¿ìÂø7´¢4?ø‼ ©*0U2@(Ö=Ä†-.@┘´9X┼bN@1³/‡-◘♂ @J"»/ìW@3▪ ‼ @N¤©@AO²p«
à@T dÕañ¸@(Që… ¸R?ä¾ß¤?åÉ@ ¨ÁTÉ…ð@ $÷eýŠÛ@2·ÈK]Ìd@◄¼j~ùÛ#@
€éÕ← Oè@ ×
=p£×¿œ¬◘1&éy@├Ë[-M@%@┬ õ”¯O
„@♂ ‰ 'RTa?ö°‰ 'RT@‼ ®±Ä2ÊX@• œ♬ ¾ß¤@?þ0SÛ
F(¿ý¢‼ ý§¤ä@│*™0¾
í@┘™™™™™š@♬_¤?åÉ @┤ùÀëíúD@85ÜÆ?¶↨ @#XQë… ¸¿¾ùÛ"Ðå`¿ûíúCþ\'@3ëÆ§ï ²@,-BÃÉ
îÌ@
t‡ü¹#£?Ú?¶↨│¼¬ @4Mp£×
=@┤áG®¶zá@FîÙ┬‡+¬ @┘²-
♬V┘├¿ò^ž←◘š¬ @P$Ä›¥ãT@5▯ b¶®}V@M¬┬ Ov`@*▯ |í‘hs@%SZ…‡“Þ@(N=ƒn4┤À–
tÆ%“¸À┤+1¸£ŽÕÀ37G ú← e@‼ ïxþï^È¿ó ìÔª┤à@T┤¬

l°^@‼ ï†→ `ÔV@◘ -♬ V┘ ↑ “@◘ 4ÆæÙ¾M@┼ ¿œb¡µÈ?ñB• ♂ ŒûüÀ┴ ‹Æ§ï ²@1¤·,Q—¢@.Íà
← qv@4òÃÉîËû@0¢©“♂ àß@2{¥³ƒO«@.Ú. ›
³@_¿¥ãS÷Ï@`4T`ªdÃ@1¼‹C•• − @$┬ ý!ÿ.l@O♬ = ◀ ƒ
@>B← ÑÂªà@♬ N• _oÒ ? }¿H▯ Ë’@&b@·€4n@└ Ÿ!-
w1 @A¢&€ lR@B••ÈK]Ì@$♂ … ¸Qì@%(š┐ u%F@KvÙ┬ ‡+┐ @K$l°^5?@7↑ ïïç„◘ @◀ ²@9½!D@UÌÂø7
´¢@5 }¿H▯ Ì@ þ ÿ—$t@┴ Lç└ ¯·é?õàÞÒˆÎp@• %®æ1ø¡@mMzxl"h@8Â•éá°Š@5Õ‡“Ý—ö@B†
¦L/ƒ@↨ ñÄ2ÊW˙@<þéxÔýô@(¹üB│ ^♬ ¿û.Hè§ ç@(féxÔýô@ ┴ 2a|← Ú@☼ <ÃŸý`é@ ¬"h Ô•@
D ohÜ@$ ¥◀ œàv@ u%F
¦L@0XªdÂø8À!]cˆe•?ü©“♂ àÞÓ?÷”¯O
„M@#Ô¢3œ♬ ¿@aC‡Jw —@← ÖR½<6◀ @¶ ®¶ záG®@,U↑ *™0¾@!¤¨ÁTÉ†À┼ -(Œç└ °@:Þ2
<”±¿û ↑ †◘ Ã @+np:û~‘@'6ð− ▯ ¸»À├ …‡“Ý—öÀ┬ ƒ¯·é☼ ùÀ┤ û/ìVÕÐÀ&q Â┘ ▯ o@08Që… ¸@
æfffff@├ r↨ ×s↑ ü@↑ 3Mj┬ O@[œ-à
← q@#
çÕfÏB@) ƒ↨ n— @0`ëíúCþ?ðdÂø7´¢À
#n.±Ä3À┘ W§†Â& ?Ïy¦µ♂☼ (¿ðšÔ,<žíÀ┬ ýó¶E¡Ë?ØË)^ž←
?ù©*0U2a@└ ¨ÁTÉ…ð?è(õÂ \)@┐ Î• _oÒ @└ ì¿±[W?@− uŽ!–R½@

-w1 Å│ @?\j~ùÛ#@♬ >
í(Œç@┬ Ã{J#9Á@┼ @ƒ↨ n— @'h´9X┼ b@¶ -
w1 Å│ @3‡ Oß;d@"}ó¶E¡Ë@┼ pþU}Wf¿óÇ˜ê¥®X@4jÜ©Ž¯0@:¸ÿ‹æÓ‰?ô|$=Ìê)@!úM++ýµ@*z¹õY³Ð
@
$tSŽóM@@†ì¿±[W@→ ¶ •↑ *™1@UÞ¿]x• ← @R¯ˆe”¯O¿ð│ S&┤ Á¾¿ækP°ò{³@♂ ÃÉîËû┬ À– Àƒ↨ n—
?ùGE8ï4×?òZ…‡“Ý˜@¤ fšÔ,<Ÿ@├ ²þÅm\û@eL-«ŸU›@=V»˜Çâ,@02§›ºÜ
À┬ åãS÷ÎÙ@,b4|3,8@← a1└ ”E@A¯ö+jçÕ@;˜┼ bMÒò?ñ◄ —
àÔ8 À┐ 9.└ •Ù↑ @┐ Œ~($♂ x?èŒç└ ¯·é@`Êu³áC|@2Î°ƒ@┼ ç@0← Í5¨Xy@/"ÃÉîËû@'4¼j~ùÛ@"à4mÅÖ9
?çŒ*EMçê?ßü¹#¢œx@0f
¦L/ƒ@↨↨ n— Oß@.Lq

²•ê@*Á‰7KÆ¨@(@#Š=p£×
@BjçÕfÏB@)¥ýŠÚ¹õ@&-¸ºÇ┼ ËÀ]ÌcñA @─ û²þÅm]@→ Úîc Š @44♂ x└ FÜ@+─ $Ý/→ @,
ôðØDÐ@◄ |í'hs¿ú¨Xy=Ù▯ ¿ñ│ S&┤ Á¾@◘ Úþ §°´¿ñÞ"ž-Õ'¿Ôš┐ u%F♂ @ , \(õÃÀ◄ èëørSÀ☼ wc!§3z
@ ?Rü&W@↑ Ò½<6◄ 4@→ š┬ àc¤âÀ◘ ◘ zÉí┴ å@ Ût¶ ¤Ò³@)
„M ;¿÷1ø -
à?øâ├ e+ÓÃ?úOß;dZ @↕ 2{²þÅmÀ p─▯ ¸ºÇÀ#É-BÃÉï@G→ Ú¹õY´@6–1ø .@1ä÷eýŠÛ@3┐ äŽŠqÞ@L
┐ ÃÉîËû@A7â,@·€@◘ Þž← ◘ š┐ @• ˆš┐ u%F@SXy=Ù▯ @3?
„M ;@6ˆºÇ┼ Ë)@&îóMj┬ @=È"t¼j▯ @)1 Å┘ ▯ o@0fE¡ÊÀƒ@☼ ÓZ…‡"Þ@ Ü¬◘ 1&é@‼ ãñA
[À@,6z☼▯ –¼@◘ h Ô•↑ +@Aãþ\'ÑN@→ >($♂ x└ @┤ B \(õÃ@├ #ˆe"¯O@CrôðØDÐ@/├ 0¾
í)@-5Y³Ð|…?î}Vlô !@0>¥´/ "@
iÉ,?Š@@← ˜Çâ,@¸@┐ I…ðoiD@┴ ™JôðØE?ö»/ìVÕÐ@$½!ÿ.Hé@&sMj┬ O@"Pÿ—
$tT@J÷\r─ W³@0♬ î← Ñíž@O÷RT`ªe@,ÐØDÐ‼ ©@Eñ·┤ Xâ├ @!Ø┼ bMÒò@0Ý• ÈK]Ì@1¿→ Ÿ¾vÉ@☼ á┼ I
+ö‡¿ãA¶¯»*I¿á æšÔ,=¿úškP°ò|¿ûIVÕÏªÎ¿úškP°ò|@5Ñä÷eý‹@5¦E¡ÊÀƒ@X½2a|← Ú@C,')^ †¿úxÔýó¶F
À└ ‼ ♂ àÞÒ‰@4ì‡‰ìœü@8fâM'„ý¿òœX%[└ \@)ô¼j~ùÛ@'¾ƒä%®æ@!J¦L/ƒ{@├ Mâ¬2"'À◄ nÛµ Ü @

7┤ Xâ├ eÀ*fšÔ,<Ÿ@┬ Û¥ãS÷Ï@‼ ¡°‰ 'R@6f‡+┐

J@ íBÃÉîÌ@/ß;dZ ¬@%sÃa‼ @O@6¤9X┼ bN@/n!–R½<@┴ !‼ @N¤©@☼ 4mÅÖ8†@8ÏùrGE9@8Þ
í(Œç@
Ë)^ž← @◘ cˆe”¯O@┐ ,◘ 1&éy?ùÛ‹¬q

³À*{"Ðå`BÀ,@ÞÒˆÎp@BÍL˜_– ÷@lÛÇy¦µ♂ À┼ îæ1ø @┤ Zîc Š @┘ –‡+┐

J?þûçk‹C–?ã‘hr° Å?Ý¦µ♂☼'»@D¿÷€•┼É@D§OG┼ ã@‼®c Š
└À!T,<žìÀ@2FÂ&€ l@└¿àŠï²«@♂¨õÂ \)@--A›Öµ¯@2– .ä™ó– À│ÿ.Hè§ À*ƒ*{J#9Á@•
[À→ 6ã@-&éxÔýô@,¬ô !-w@_E‡“Ý—ö@9↨ ë C,¥¿À†YJôðØ?÷â├e+ÓÃ@]µ;>/☼¸@Hba|qÀ ¿µ‡“Ý—
ö+À‼ oO
„M @,~*ƒ*ä%®æ@!V‡+┐

J@!ø└FÜ]d@+î¶záG®@,îóMj┬ @♂àÞÒˆÎ@↑xQë… ¸?ð—ö+jçÕ@2W
=p£×@!#×
=p¤@┼¾← á¹æ@J»y=ƒ™'¿ô–»˜Çâ,À +┐

lº^@M£×
=p¤@lÜ(õÂ \¿ÿº^5?|îÀ┬ X┼ bMÒò@DÔzáG®¶ @B=p£×
=@E• ®¶ záH@<.¶ záG®@BÂ \(õÃ@4 \(õÂ À
▪ – $Ý/← ?ÖÜ]cˆe•@┐ ›¥ãS÷Ï@┐ ›¥ãS÷Ï@(‼ t¼j~ú@!♂ C•▪ – %@-î— Oß;?ó¹Œ~($♂ À‼ ï ²-
♬ VÀ┘ bMÒñ©ü@8Ç®¶ záH@&úáG®¶ {À‼ ¬◘ 1&éyÀ ï ²-
♬ V@┐ ~ùÛ"Ðå@┐ ~ùÛ"Ðå@!ž¸Që… @!ž¸Që… @M, \(õÃ@RN¶ záG®@#¤Ý/→ Ÿ¾@#¤Ý/→ Ÿ¾@%uÂ
\(ö?ö ┐ ÞÑ·@YtzáG®¶ @GŒÌÌÌÍ@CJ=p£×
@/$Ý/→ Ÿ¾@1ƒ↕ n— P@/B \(õÃ@│ ï ²-
♬ V¿ð~ùÛ"Ðå@L333333@l├ ™™™™š@E¡G®¶ zá@B«… ¸Qì@E#×
=p¤@?Që… ¸R?ù ¶ ã¼Ó[?ñ±[W>«6@☼┬ ‡+┐

J@☼┬‡+┐

J@B¸Që… ¸@,>vÈ´9X@DuÂ \(ö@#áG®¶zá@¶┐

I°^5@└Â \(õÃ@&["Ðå`B@ ËÆ§ï ²@#å`A‰7L?ðÀƒ↨ n— @G¶ záG®¶ @@p£×
=q@G8Që… ¸@┤ p£×
=qÀ ¸Që… À◘Ðå`A‰7@TxQë… ¸@@ffffffÀ ¾vÈ´9X¿ø !-
w1 @┴ &éxÔýô@┤ ◘ 1&éxÕÀ│ "Ðå`A‰À
¸Që… ¸¿" Ž†@ ¿÷E8ï4Ö¡@ ♬V┘ ↑ "u@← ?|í'hsÀ
À(Å¡ÊÀƒ↨ À •• – $Ý/À┘ ~ùÛ"Ðå@KY™™™™š@.çl‹C• À=¶ záG®¶ À=¶ záG®¶ ?ûZ…‡"Ý˜?õ← quŽ!–@&
Òñ©ûçm@┬ éxÔýó¶?ÿ.Hè§ ç¿¼ÈÞ*Ã")@X ¸Që… @E°£×
=qÀ┴ Ÿ¾vÈ´9À‼ ×
=p£×@`Ë… ¸Qì@HÏ\(õÂ @‼ S÷ÎÙ┬ ‡À– Àƒ↨ n— ?ª'£│ S&↑ ?âV┘ ↑ "t¼@ "Ðå`A‰?øl"h
Ô•@&âMÒñ©ü@&âMÒñ©ü@ATzáG®¶ @EèõÂ \)@4ž¸Që… ?íQ,©"♂ á@1ûçl‹C–@1ûçl‹C–@
D¡G®¶ zá@9×
=p£×♬┐ C@a┼ • _oÒ @Ln\'ÑN<@"ß– ö"Ft@¶ ö+jçÕg@

ù k¹Œ~@U-«Ò¡x
@Gší²‹¬ '?ülQ¸©“

?ëk¹Œ~($@Os Fq©f@CdQ5è├Y@?ƒ¶E¡ÊÁ@│▪←quŽ"@3MEbàŸè@6 @¢‡~å@‼ â├e+ÓÃ@↑ ÖfNØ
D‼ @@Q(Œç└°@(˜¡ß¹8›@@2n— Oß@,“@N¤¨Á@5©JôðØE@$

~($♂ x@1V?¶↨ | ¼@)FÂ&€ I@LWË':)Ç@R↨ @·€4n@$,©“♂ àß@ ÝIQ,©“@oI³„\→ ³@UÃ·ë^^L@D“J#9Àì
@┬ ŠÀƒ↨ n˜@→ ú1¤½º
@‼
Õ À-┘ @3K↑ X*Ž@9
›„*q™@1H1&éxÕ@┤ DêJŒ┴ M@ w┤ Xâ├ e@◄ !°‰ 'R@2xJÏ‡◄ W@'1ÁÔv9m@Y3s↑ üPH@4+"
Ðå`B@?ZÍ9Ú┬ a@+–z☼▯ –¼@JA=Ù▯ b·@;F♂ ðÏ
•@#9Œ_õ3 @8h§ æšÔ@!”¯O
„M@☼ hÛ‹¬q@├ <PH┬ ð• @ ' ù kº@;‹=• ÈK^@<+~ ÿ—
$@9´É…ðoi@┴ ¸Që… ¸@ \(õÂ \@◘ MÒñ©ûç@┘ å`A‰7L@¶ – $Ý/← @)à IQ,ª@%tDjh(³@;â:)Çy§@0
9 ¶ã¼Ó@ C•▪ – $Ý@├ ¸ÃÉîËû?á‼ @N¤¨Á@A=µsê³h?ø›¥ãS÷Ï?ùfffffff@Bã
\Ÿh;?ø‼ ©*0U2@(Ö=Ä†-.@┘ ´9X┼ bN@1³/‡-◘♂ @J"»/iW@3▪ ‼ @N¤©@AO²p«
à@T dÕañ¸@(Që… ¸R@ ¨ÁTÉ…ð@2·ÈK]Ìd@
€éÕ← Oè@ ×
=p£×@♂ ‰ 'RTa?ö°‰ 'RT@‼ ®±Ä2ÊX@• œ♬ ¾ß¤@?þ0SÛ
F(@♬ _¤?åÉ @┼ ùÀëíúD@85ÜÆ?¶↨ @#XQë… ¸@3ëÆ§ï ²@,-BÃÉîÌ@
t‡ü¹#£@4Mp£×
=@┤ áG®¶ zá@FîÙ┬ ‡+┐ @┘ ²-
♬ V┘ ├ @P$Ä›¥ãT@5▯ b¶®}V@M┐ ┬ Ov`@*▯ |í‘hs@%SZ…‡“Þ@(N=ƒn4┼ @T┤ ┐

I°^@◘ -♬ V┘ ↑ “@1¤·,Q—¢@.Íà
← qv@4òÃÉîËû@0¢©“♂ àß@2{¥³ƒO«@_¿¥ãS÷Ï@`4T`ªdÃ@1¼‹C•• – @$┬ ý!ÿ.I@O♬ = ◄ƒ
@>B← ÑÂªà@♬ N• _oÒ @&b@·€4n@└ Ÿ!-
w1 @A¢&€ IR@B••È K]Ì@$♂ … ¸Qì@%(š┐ u%F@KvÙ┬ ‡+┐ @K$I°^5?@7↑ ïïç„◘ @UÌÂø7´¢@5 }¿H
▯ Ì@• %®æ1ø¡@mMxÔýó¶@8Â•éá°Š@5Õ‡“Ý—ö@B†
¦L/ƒ@↕ ñÄ2ÊW˙@<þéxÔýô@(¹üB│ ^♬ @(féxÔýô@ ┴ 2a|← Ú@☼ <ÃŸý`é@ ¬"h Ô•@
D ohÜ@$ ¥◄ œàv@0XªdÂø8?ü©“♂ àÞÓ?÷”¯O
„M@aC‡Jw —@← ÖR½<6◄ @¶ ®¶ záG®@,U↑ *™0¾@!¤¨ÁTÉ†@:Þ2
<”±@+np:û~‘@'6ð– ▯ ¸»@08Që… ¸@
æfffff@├ r↕ ×s↑ ü@↑ 3Mj┬ O@[œ-à
← q@#
çÕfÍB@) ƒ↕ n— @0`ëíúCþ?ØË)^ž← @└ ¨ÁTÉ…ð@┐ Î• _oÒ @└ ì¿±[W?@– uŽ!–R½@

-w1 Å│ @?\j~ùÛ#@♬ >
í(Œç@┬ Ã{J#9Á@┼ @ƒ↨ n—
@'h´9X┼ b@3‡ Oß;d@"}ó¶E¡Ë@4jÜ©Ž¯0@:¸ÿ‹æÓ‰@!úM++ýµ@*z¹õY³Ð@@†ì¿±[W@→ ¶•↑ *™1@
UÞ¿]x▪ ←@R¯ˆe”¯O@♂ ÃÉîËû┬ ?òZ…‡“Ý˜@☼ fšÔ,<Ÿ@├ ²þÅm\û@eL-«ŸU›@=V»˜Çâ,@02§›ºÜ
@,b4|3,8@← a1└ "E@A¯ö+jçÕ@;˜┼ bMÒò?ñ◄—
àÔ8 @┐ Œ~($♂ x@`AûV¸sy@2Î°ƒ@┼ ç@0← Í5¨Xy@/"ÃÉîËû@'4¼j~ùÛ@"à4mÅÖ9@0f
¦L/ƒ@↨↨ n— Oß@.Lq

²•ê@*Á‰7KÆ¨@(@#Š=p£×
@BjçÕfÏB@)¥ýŠÚ¹õ@&-¸ºÇ┤Ë@─ û²þÅm]@→ Úîc Š @44♂ x└ FÜ@+─ $Ý/→ @,
ôðØDÐ@◄ |í‘hs@◘ Úþ §°´@ , \(õÃ@ ?Rü&W@↑ Ò½<6◄4@→ š┬ àc¤â@ Ût¶ ¤Ò³@)
„M ;?øâ├ e+ÓÃ?úOß;dZ @↨ 2{²þÅm@G→ Ú¹õY´@6–1ø .@3┐ äŽŠqÞ@L┐ ÃÉîËû@A7â,@·€@◘ Þž←◘
š┐ @• ˆš┐ u%F@SXy=Ù▯ @3?
„M ;@6ˆºÇ┤Ë)@&îóMj┬ @=È“t¼j▯ @)1 Å┘ ▯ o@0fE¡ÊÀƒ@☼ ÓZ…‡“Þ@ Ü¬◘ 1&é@‼ ãñA
[À@,6z☼▯ –¼@◘ h Ô•↑ +@Aãþ\‘ÑN@→ >($♂ x└ @┤ B \(õÃ@├ #ˆe”¯O@CrôðØDÐ@/├ 0¾
í)@-5Y³Ð|…@0>¥´/ "@← ˜Çâ,@¸@┐ I…ðoiD@┴ ™JôðØE@$½!ÿ.Hé@&sMj┬ O@"Pÿ—
$tT@J÷\r─ W³@0♬ î← Ñíž@O÷RT`ªe@,ÐØDÐ‼ ©@Eñ·┤ Xâ├ @!Ø┼ bMÒò@0Ý• ÈK]Ì@1¿→ Ÿ¾vÉ@5Ñä÷
eý‹@5¦E¡ÊÀƒ@X½2a|← Ú@C,‘)ˆ †@4ì‡‰ìœü@8fâM’„ý@)ô¼j~ùÛ@'¾ƒä%®æ@!J¦L/ƒ{@├ Mâ¬2"'@

7┤ Xâ├ e@┬ Û¥ãS÷Ï@‼ ¡°‰ 'R@6f‡+┐

J@ íBÃÉîÌ@/ß;dZ ¬@%sÃa‼ @O@6¤9X┼ bN@/n!–R½<@┴ !‼ @N¤©@☼ 4mÅÖ8†@8ÏùrGE9@8Þ
í(Œç@
Ë)^ž← @◘ cˆe”¯O@┐ ,◘ 1&éy?ùÛ‹¬q

³@BÍL˜_– ÷@lÛÇy¦µ♂ @┤ Zîc Š @┘ –‡+┐

J?þûçk‹C–@D¿÷€•┼ É@D§OG┼ ã@2FÂ&€ l@└ ¿àŠï²«@♂ ¨õÂ \)@--A›Öµ¯@2– .ä™ó– @-
&éxÔýô@,¬ô !-w@_E‡“Ý—ö@9↨ ë C,¥?÷â├ e+ÓÃ@]µ;>/☼ ¸@Hba|qÀ @,~ƒä%®æ@!V‡+┐

J@!ø└ FÜ]d@+î¶ záG®@,îóMj┬ @♂ àÞÒˆÎ@↑ xQë… ¸@2W
=p£×@!#×
=p¤@J»y=ƒ™'@M£×
=p¤@lÜ(õÂ \@DÔzáG®¶ @B=p£×
=@E• ®¶ záH@<.¶ záG®@BÂ \(õÃ@4 \(õÂ @┐ ›¥ãS÷Ï@┐ ›¥ãS÷Ï@(‼ t¼j~ú@!♂ C•• – %@-î—
Oß;@8Ç®¶ záH@&úáG®¶ {@┐ ~ùÛ"Ðå@┐ ~ùÛ"Ðå@!ž¸Që… @!ž¸Që… @M, \(õÃ@RN¶ záG®@#
¤Ý/→ Ÿ¾@#¤Ý/→ Ÿ¾?ö ┐ ÞÑ·@YtzáG®¶ @GŒÌÌÌÍ@CJ=p£×
@/$Ý/→ Ÿ¾@1ƒ↕ n— P@/B \(õÃ@│ï ²-♬ V@L333333@l├ ™™™™š@E¡G®¶ zá@B«… ¸Qì@E#×
=p¤@?Që… ¸R?ù ¶ã¼Ó[@☼┬ ‡+┐

J@☼┬‡+┐

J@B¸Që… ¸@,>vÈ´9X@DuÂ \(ö@#áG®¶zá@¶┐

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♂ 0.072190717┘ ♂ 0.042067797┘ ♂ 0.023106402┘ ◘ 1.28e-06┘
♂ 0.002946893┘ ◘ 2.54e-06┘ ◘ 1.68e-05┘ ♂ 0.030917549┘
♂ 0.256263376┘ ◘ 2.47e-13┘ ◘ 4.41e-11┘ ♂ 0.476209695┘
♂ 0.915817827┘ ♂ 0.002424397┘ ◘ 0.000705┘
0.46481929┘ ♂ 0.020730908┘ ◘ 8.31e-05┘ ♂ 0.196913344┘ ◘ 5.27e-05┘ ◘ 2.02e-
08┘ ♂ 0.021088994┘ ◘ 2.19e-06┘ ♂ 0.042652962┘ ♂ 0.007401753┘
♂ 0.001579019┘ ♂ 0.033551977┘ ♂ 0.131812244┘ ♂ 0.027989253┘
♂ 0.009900155┘ ♂ 0.006247536┘ ♂ 0.009571392┘ ◘ 3.13e-12┘ ◘ 8.08e-
09┘ ♂ 0.002761065┘ │ 2e-05┘ ♂ 0.001699787┘ ◘ 1.27e-08┘ 0┘
♂ 0.037029903┘ ♂ 0.394202656┘ ♂ 0.018430521┘ ♂ 0.480626495┘
◘ 1.57e-10┘ ◘ 7.49e-08┘
0.02640189┘ ◘ 4.02e-14┘ ♂ 0.056094695┘ ♂ 0.062892732┘ ♂ 0.165675874┘
♂ 0.229825607┘ ◘ 9.69e-07┘ ◘ 2.95e-06┘ ♂ 0.003516368┘ ◘ 8.99e-10┘
• 1.1e-06┘ ◘ 2.66e-06┘ ♂ 0.015732612┘ ♂ 0.022884373┘ ◘ 2.24e-05┘
♂ 0.199562995┘ ♂ 0.014264244┘ ♂ 0.002678115┘ ◘ 2.85e-11┘ • 1.9e-
08┘ • 0.00031┘ ◘ 0.000131┘ ♂ 0.330818962┘ ♂ 0.460909623┘
0.00530897┘ ♂ 0.228600477┘ ♂ 0.624605332┘ ◘ 9.74e-06┘ 0.5951556┘
♂ 0.350758894┘ ♂ 0.041083636┘ ♂ 0.002360371┘ ♂ 0.007546871┘
♂ 0.215857808┘ ♂ 0.014154023┘ ◘ 3.51e-05┘ ♂ 0.182426277┘
♂ 0.041277637┘ ♂ 0.063584741┘ ◘ 0.000236┘ ♂ 0.017460331┘ • 2.3e-
05┘ ♂ 0.079602012┘ ◘ 1.19e-13┘ ♂ 0.219317454┘ ◘ 0.000334┘ ◘ 2.21e-05┘
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◘ 4.38e-08┘ ◘ 7.92e-05┘ ◘ 6.65e-07┘ ◘ 2.53e-09┘ ♂ 0.026937216┘
◘ 0.000124┘ ◘ 0.000257┘ • 9.9e-13┘ ◘ 5.32e-07┘ ◘ 4.92e-10┘
♂ 0.001780318┘ ◘ 1.43e-05┘ ◘ 0.000225┘ ◘ 3.58e-08┘ ◘ 1.18e-06┘ • 1.9e-
11┘ ♂ 0.568470317┘ ♂ 0.001834017┘ ♂ 0.446204392┘ ◘ 1.73e-05┘
♂ 0.096828375┘ ◘ 0.000991┘ ♂ 0.231054739┘ ◘ 1.78e-07┘
♂ 0.005731684┘ ◘ 1.57e-05┘ ◘ 5.06e-07┘
0.03172282┘ ◘ 0.000527┘ ◘ 5.81e-08┘ ◘ 4.97e-11┘ ◘ 7.69e-11┘ • 7.8e-08┘ ◘ 6.49e-
11┘
0.38112363┘ ♂ 0.875740638┘ ♂ 0.302397398┘ ♂ 0.205105592┘
♂ 0.485976259┘ ♂ 0.370519929┘ ◘ 0.000284┘ ◘ 6.25e-06┘
♂ 0.099577432┘ ◘ 8.63e-10┘ ♂ 0.060662082┘ ♂ 0.051345971┘
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07┘ ◘ 0.000474┘ ♂ 0.001465439┘ ♂ 0.010799115┘ ◘ 9.21e-09┘ ◘ 0.000635┘
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◘ 2.06e-05┘ ◘ 0.000481┘ ♂ 0.001585634┘ ◘ 3.04e-06┘ 0┘
♂ 0.002847589┘ ♂ 0.027585383┘ ♂ 0.003718276┘
0.00538622┘ ♂ 0.064115963┘ ◘ 2.13e-06┘ ◘ 8.59e-05┘ ◘ 0.000291┘
♂ 0.002210663┘ ◘ 6.89e-07┘ ♂ 0.003721885┘ ♂ 0.006531622┘
♂ 0.576738931┘ ♂ 0.777673253┘ ◘ 3.42e-05┘ ◘ 6.31e-06┘
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0.95043185┘ ♂ 0.087205353┘ ◘ 1.47e-11┘ ◘ 2.08e-14┘ ♂ 0.086245824┘
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− 0.1413┘ − 0.0835┘ − 0.0835┘ ◘ < 0.0001┘ ◘ < 0.0001┘ ◘ < 0.0001┘

− 0.1516	− 0.0292	− 0.0002	◘ < 0.0001	◘ < 0.0001	− 0.0676
− 0.0003	◘ < 0.0001	◘ < 0.0001	◘ < 0.0001	◘ < 0.0001	◘ < 0.0001
◘ < 0.0001	◘ < 0.0001	◘ < 0.0001	− 0.2579	− 0.0268	− 0.0006
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▏0.121	◘ < 0.0001	◘ < 0.0001	◘ < 0.0001	◘ < 0.0001	◘ < 0.0001
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− 0.0313	◘ < 0.0001	− 0.0003	◘ < 0.0001	◘ < 0.0001	− 0.9757
− 0.5743	− 0.0006	◘ < 0.0001	− 0.0374	◘ < 0.0001	− 0.0007
− 0.0006	◘ < 0.0001	◘ < 0.0001	◘ < 0.0001	◘ < 0.0001	− 0.0013
− 0.1336	◘ < 0.0001	◘ < 0.0001	◘ < 0.0001	− 0.8161	◘ < 0.0001
◘ < 0.0001	− 0.0383	− 0.0085	◘ < 0.0001	◘ < 0.0001	◘ < 0.0001
− 0.0161	− 0.8297	− 0.6129	▏0.007	▏0.027	◘ < 0.0001
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@┘ ä² ï«ì@┘ ä² ï«ì?ï²š.iõ½?ú↑ .œ9uÜ?ûÚ¯ƒ2Fq@ ³Çµ-
@L?ð3ô£¢ÔM?î÷ÕQU³┼ ?ÛÉkr® ♂ ?×Gäg•‡Þ@→ ‰U┤ £O@G☼ ↨ ò5’◘ @(Ûj┬ Ê← í@0•$Jâý;@*…Q©•æ
– @mÈóP dŒ?ä´u┐
œ;?ôõ»Ï,+5@8v♬ Éf└ õ@8v♬ Éf└ õ@ ‼ é³†À&?úTË NëD@eKÏÃÂb┼ @(A7Õ└ }
@*É¹W$)*@pè(–ÂNÅ?ÓE↑ ç
CX?öZd‘O J?ý¦Þ-È:A@ T:ÐF»

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ïfö@↨ á5?ýªk?Â~
Å´]H?Çt&£,ëF?÷┬ —„2bÓ@
âw– š¢Õ@│┴◘ ÊBÈ–@'üÎ└ ƒ˜%?÷ò+¸LPÿ@#ù«ÙÓfÆ@┤ Éý◀ ýÈ1@↑ —(-Vát?òöÃÆ
]H?öú“F▯ |s@!♂ |_:çÌ@!♂ |_:çÌ?ä€├ ‡ÝÑÏ@¦NÚ®ŒÆ@)@~Nd‘û@,IíÍÑ¹ñ@*#╗ ♬ øì:@/°ÉÈ` u@↑ çç– ½g•
@1d•n‘®‼ ?Ù¶^Aºñ”@ &5 p¾ @=ý_I;³4@-Œ▯ “‰
T@ §4eYCr@%ÁçvGÁ0@%_¢PLs¡@>‰7J├ (Æ@╗ ↑ Ô=À‘┼ @╗ ↑ Ô=À‘┼ @– MhÜ•ö*@/ÑÜr– W
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ø ?æb↑ Å¸uA?ÿ└ ™!ï¼û?ÿ└ ™!ï¼û?ç¾¤┐ Ü±Ð?êçDeñ²œ@8¢¦J¼+™@pqÎ=‹÷÷@8GÉ┘ kl¥@,£F £N#@T
*Gq£Ü>@7¾è^•☼q@J^ â$§¿@8@½,ó%@c'Q?ì s@c'Q?ì s@• †‡Û→ – U@┤ ·ëNÔ4±@#@¢²`Ô›?ÔØD
]/'Š@┘ ³-a¦Ò×@┼ ³ô½#-ú@L°È²v_X@N└ ¨¶íèP@¢§å¯‼ K@ ◘ ÞOè0è?ÒÍ
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i_@>Ç‘¥.x8?ÏFTØÊ\┘ ?Í<-
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³ @%³,ŸÆ.x?¾¤◘ »îá¨@┘ S¹7Á]'@ ▯ <±Ix~@┐ OvÇ☼ Q4@#²·┴ !ò ?üý◘ à ☼¨@ Üò┘ %♬ é@#-6È♬ 5@"↑ —
¬»„e@Dh↑ ^¨▯ '@Dh↑ ^¨▯ '@M– ®'"|-@M– ®'"|-@oê%C¼┤ s@oê%C¼┤ s@ A]Î→ • q@
a]$¶ Ô›?ùœG»DS│ @┼ UëÒ÷^F?÷@…¿5ú'?÷@…¿5ú'?ýRŸôENf?ùF¾Ÿ3*â@┴ î>5ßy¼?Ñ$t Âý¸?ó
î¾ÌÀP?ù nÄj
÷?äÉ«ƒ└ ³œ@← nÆ»▯ ŒA@C^1è┘ ‹«@nYËêïÍƒ?¹¸ ,|+Â?½‡$È‰ ã?ïRbqut]@– ¸;çÚ┼ Ï@#‰'→ ˜▯
@,rÞ1#8”@ ┬ \AÒæË@$Ã©û; ¶ ?Ý'☼ YË^Ÿ?âëÐ L, @¶ 7r®âð¿@¶ +/ùJŒÊ?ßDZad7Ò?àÙ¹#š│ r@☼ I└
J¶ ÿŸ@‼ Ø-‹áA›@EG*ÆþÌ@EG*ÆþÌ@◄┐ Fa¹-
‰?æ†D3← ò`@,K┬ @^>û?÷"±ZLôó?ñ‰sp÷ B?õ·#½ÊPq?ú
€ │ e?ú
€ │ e?ö“ZçÓ9¶?ö-ËD±«‡@Ox„_`7Î@Ox„_`7Î@&$?‡▯ e¼?áÙÌ¹phb?ÛJJg“sK?àl0ô^- ?Úë♬ É-
˜ @%%.G‘♬ 0@%%.G‘♬ 0@p#™†¹Ã│ ?þ”• óv–?ÿ♬ çt¦p0?º♂ éº ¬,?ß¾„ÞT<K@Q$qn›´@4¦Kq┤ šP?øéÆ
œ• Y8@♬┼– -7ÄJ@eô └♂ 4&@eô └♂ 4&@$»=Ót)Ä@0_→ 9¬)f@0¶ F ÷@&┴
)´.p?»◘ ▯ ³

Ì│ ?Ç§q|!Â%?ìK→ !¶«p@" 'Ædö← ?´*åXÁ í?Å

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ùö¶ ‰@R%8¢q◘┐ @R%8¢q◘┐ ?°R„-• │ i?±┐ ◘ G;┬ Æ?ÁTâ"§þ??Æ9ÐRµ¦ã?ó û¨àçê@ -ÆYYý;@┬ +
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@Wñ┼☼¢_f@Wñ┼☼¢_f?ô3XoáB┐ ?ô3XoáB┐ @*ÇlzÒ„ @*ÇlzÒ„ ?±8MÏ@Åm?°┐ ³Ž L└ ?ð♂ :z$^Y?ð♂ :
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Þ@ Ãä,(ÂJ?´Ã—b☼ rA?Ë8 Ë Œ÷?ð┐ ÎÖ´¤„?úÒ8ÿÐÛ$?¹ÓÔ#¿^♂ ?½øþTÀ\ã@↑ çµ³"#8@?u¥¿—°
?Çª¶þÀv♬ ?Îè›¦Jh??Ðš2ræHì?øLa¿ ¯û'?ã'Ä·Ä@Ñ?ã'Ä·Ä@Ñ?·¦Â.┘ Â▯ ?ÅŠúÅX 8@┤ ~▯ è\d @┤ ~▯ è\d
@0◘ 4X¢-'@-â ;L– i@C┴ ³ª|•Ó@C┴ ³ª|•Ó@3┴ R¤è,5@3┴ R¤è,5@$-c
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ü¶ EMg@DL→ k¼┼ ½?î$3Ñh½Ú@*¨ãäkz?çÆ)\<8b?çÆ)\<8b?è-0▪ ┼ Ÿ5?ÿÑÑ'Oz<?Í"Þ'◀ Ø◀ ?ð↑ jx!,d@├ !
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BgãéôÑ@• j:A‰& @┐ ·.• òŠ↑ @ ¶ ¯¨Ø.ˆ@6B<ÞØ'ÿ@‼ Ô♂ ÛÍ¾– @‼ Ô♂ ÛÍ¾– ?ÍmGè2?)?ÕÁÀ«<•n♬┐
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äD7½@←▯ ¾ÀD©'@t¬r♂ /Þë@t¬r♂ /Þë@PB f£ßò@PB f£ßò@S†wguZ @
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äè•@\aï. ¤»@d~WUQk-?Î{e°÷Øð?Øq‰Òr^6@┤ Û3¥°♬ Œ@┤ Û3¥°♬ Œ@-
¾}Æ•ÐÜ@_`ô┐ «ª @5♬ _-å€ù@3fl)i°É@R• M│ ♂ -ˆ@
ÕÔË¶ëö@(Cd>´¦┤ ?Îwºª"Ge?Ôâ«ê— ?ïFP'
t•@·¹™¥iB?ã[┘ ìVˆ€?ó/&Ò¸Û:@4\µœ.ŸP@;• :|¨· ↑ @ ,~Åû↑ Ý@┤ ÇãËõj└ @: └ 6Á2:@A┼ ïW;P8?í
]P;¤U£@┘ Õ¨RMÔ¹@[ÞÇk¾◘ ?@[ÞÇk¾◘ ??©ÆÔ☼ aFí?Óõhï¥♂ _@B RWÑ"G@H/£³#┐ Ž?û£┼ [`"?õ"
NÜ½'@◘ Åsu‡Zl@ │ Tì°0Ï@9ÚÐ

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¡ Ë?ÛøÆ ├ ªe?ç¼ÀÓD`,@2kÆ[7öé@<V€¿o├▯ @☼ ã.½òX;@3 ▯ Ã²← ñ@*^Á»ÌŸU@<Xú↨ «(b@%¹ ûÃ
°C@◀ vr┐ ¦Î`@◀ vr┐ ¦Î`?Áq®Ì BÜ?Öª/¿òZ♂ ?âœM'ý?©?÷$,#íV@@tMUULb¯@┤

ô†¶N?òû▯ ËšÑ0?ãŽé– ¿6â?à2£ÁÄ8²@▯ í?¶ b ”@4¢¯¥Ê▯ k@u&W“µT
@/s^â8™Ï@1(UÑ┤ à @NÌw┘ nN½@HÓõâð¥š@
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ÑekrGy@^a&4G/i@^a&4G/i@Vžý õKœ@DH|Ô'è ?Öàbð‰Å-
@↨ 7.9–oç@(– É1♂ æ“@3úÕ˜Mí??ûÕ-¡ ¯T?ïÁ/gC'"@/²4^ñ┬ ?òæE ▯ =‰@0~XÚ6Âµ@← ƒfÆÞvB@←
{ªpV▯ @)5→ Qè$Œ@▯ ïP♬ ârÅ@
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œ#H{l@┐ rÄ▯ BÍ§?Å,‹`→ òË@+h<²¸Ïj@◄ _ft ®é@l~Ö¡aä÷@• |£ƒŽ{•@€y×
xEŒ@`☼ ô+┴ W€@V♬┐ ▯ ÏùR@q└ 0œJN┐ @sþU¬T‡A@sþYjŸ±♂ @HŠ'

ð @V└ '"œâú@K¤ÝD"/@Sl…½úL

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FîŠ³@9┬ hQÁqQ@┘ '.Ä¹,î@┘ '.Ä¹,î?ÜŠ÷M\‡É?ã%└ ‡Ãc?à
=(2+Õ@└ À&„ùúW?éT8 Ïß„@┐ Šÿ·┘ äk?·°åæñˆ @8üróèo–@U{|Ž0„Ø@#ë2Ð3u¦@<ÎÑó×♬³@ 5ˆ¦¾Vy@
5¡ »ýœ£@:O¦ÐŽÎ:?ñy®ÛÙu◀ @. –Ð©u[@\…Ýj´XR@\…Ýj´XR@pÃvY=ˆø@pÃvY=ˆø@
m@Ók• Ç@p>Û[ÛÈé@PÔ◀ ßEË;@tx┘ „CÆÿ@txÃª♬\@U9†Ü]cˆ@U9†Ü]cˆ?ë¶þi|ñB?ïg┴ ñ·px?óßqaÓ?ê?
ø~'´?Yª@/IææY ø@tëÄ ÿH@☼ ú-6¼L↑ @☼ W€¥"◘ A@◀ ‹àˆ§•┬ @ _2g
?æ;xÇ»õø?ö` •³ ¾@# :þ┐ Ï¾@Fqf—N:Ì@>•┐ c\›·@Xˆ☼ Æ┼ ðé?ïú ¯Ñ
ìe?îd┼2¨ ì@D ð▯ Y|s@C-
3l┐ ¨Q@↑ ú♬ U`ã"@├ DÊï¹ '@.>9È²ï @wà '*ìJ@¶ žU6#Ž·@3ñª L← b@r•ò┼┐ ¬ƒ@r•î¨õW0@o5,…¶ Æ
@P¶‹ŠØ`ª?óÁ= Ÿ¡o@"Sa'┘ °÷@$¨ 5│ ¹ƒ@'Lñ¸ çQ@RÙ·± D¸?ÚI☼ À◘ æ{?ìŸ»º*Þ¦@p,Éð^¢M@60'd
þ@)g–┐ ‹J¡@4Ä EN↨ Ý@→ -
ÈRŒ♂ ^@→ ¾GžWÌù?ë ìéð┴ Ÿ@"(┤ DPx$@ 5‡ î'ð@@m ³ß@┤ @!┬ "Vš§ @#¶▯ øñ¡v@r"(ãƒÈw@└
Ö ´úPÇ@
¥Y¡Ë±◘ @%)0Ì%²í@→ Åç¨ß÷f@$m ƒCkæ@2•ôÌÆ┬ Ð@• ↨ zŽÅ← Ý@U↨ –æ– Á^?Ç#ÿ_Wd§?Ë0²v→ Ÿ¥@┼
Á´ Fâñ@┼ Á´ Fâñ@`"•SN[®@`"•SN[®@– MµÆÝ┘ ä@"¸O•ƒNB?ÝÎ[← žZã?ß3◘ /úC¨@
Ä┤ Mpîw@@Š├ 8¶)ó?äî‹g8└ ¹?àwcli"J@O┼ S5← Å¦@O┼ S5← À¦@☼ q│ Ä~äP@☼ q│ Ä~äP@
2´w┘]@
2´w┘]?÷"²← NB·@┐ ├ Íw}Ì→ @♂ ‹¿„ Ç3@'-w˜<ø.?þé-*◀ ˜Ñ?ýÀa÷ '?ê©
¯èKÀ?æ§®┤ ³ƒƒ@.1N• ÊÏ @W@» Óê£@:« O¡Rö@@É9îcJ}@=n^éÅV♂ @t©'À£Éž?÷ ù…ð
ù@– òä
±↑ '@B[ÑCü–R@B[ÑCü–R@◀ 3Ì!p•)@
„Ê‰Ç÷@m‹t┘ ´š§@:•±5A«F@=ßä Tg‹@wt"œ_F·?æZd'
e→ @• ý´ÃŽ ,@◀ Püó}ˆ
@¶ 8PÐ¹&¹@bë°‰hÉî@bë°‰hÉî@I~6z¥ã▯ @↨ !YyÃæI@│ dÖIç<˜?òÉ¥WÏ│ ?öG-À0öÝ?íô íÐ┬ r@
÷Jµí@(┐ ŠÂfA}?ùg┘ ;'Áþ@83íý #W@‼ Fv‼ à← œ@"¡®·à(‼ ?ÕI ˜ÂaÂ?Û☼ ÝÏd½Ö@┐ v˜k?S▯ @┬ mÙ%Ÿ³
@¶ Ï8Ñá<N@0£åã Gê@◘ ¢â;u†ñ@4┬ g¿

Ö@*ß™‰~np@+³êØPŽŽ@┘ í¼aUì¸@ (7™§äê@'¤4 k‹>@'¤4 k‹>?÷(ï—
4\@◀ W›Ó8Tc@<bG┬ ?─ ¦@?¶›§☼ ùÈ@=
 ┤│€ ›@ApÚ┬ vää@¸Ü šíV°@C_~¤ Úf?ëÑè¶ ¦Ö↑ @#‡)• ↕ ÷\@MÐ`Ý io@?ûçÚš?Ý@-
Ú¦'²ý1@5ºúØ(Ú @7ä:¸¡ž¡@O\=$M½"@ #…Ë—©¼@ #…Ë—
©¼@┬ Rråi•Š@6↨ 2õu¸i@(Èp-g+Þ?ø2d¥,[♬ @• FÙ®)Ñ@@• FÙ®)Ñ@?ùnÖIøj¤?ü—vÐ
kp@HBP'¸Ö?@x¯ IÚÓ&@J]¡=Qð
@?äìBÞÌÕ@[ù´5ý↨ ☼ @FšÓ†Odí@V»ú` BM@GUí0┴ ¹├ @lÀ→ ¯ÔžD@lÀ→ ¯ÔžD@← V*Ï┐ ÿ[@+7ÎS4°a@*µ
┤ —
K`§?æíäÌ•;Þ@↑ ├ Q"Ô¸¡@#VwÉ\¢:@\-cÝõéý@]ß€‰'»Y@‼ i-¾· ×@2L ¼M£¢?å7ÛóþŒZ?óxï]↨ €@*ËV

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’2Ñ@+L&¹þ‼ ┬ @E+½>¤Ödd@LZiò

!v@B3À è¶ ý@_"œ– ÆÃž@,g┘ ³ÃçK@P£°• 4É?Þ˜GÞÕ§¬?ÜŽ ò
k`@,ý¡¤ÕâË@AA8dJ,Z@↨ ×UqÕ
┬ @PDj▯ $ÎA@'
“òÀyE@j ┼▯ þ{2?ù±WP/(ž@
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ôãŸÖ@┴ eHbšSÿ@?‰þšOL├ @9ÏI
µæ @8 ýé$qN?Î
/ô♬ …)@¶ ´jú`ðÖ@0‰ù‹™♬ û@┴ W8µå:é@6☼ »ø‼ LŽ@┼ ×Î`(g[@2x┴ A…±Z@3◀ HáªvS@2-
eÎÊiÛ@N¡›8ž >@N¡›8ž >@T"3äé¤ @T"3äé¤ @v#V┬ §â2@v#V┬ §â2@2¡ûJŽ™‹@2Åii¦♂ î@
îÁÕ*œê@"ð¯!HØ•@ þ^Gç~@ þ^Gç~@
Œ
¥º1@ ‡ ÆÔ4@ I'\T-™?âŸ´]À$ž@│← ?—ù♬'@♂ òM┤ q ◘ ?õWÚ← Ðý├ @#│ »÷èYp@SŽš*£—Ÿ@u
œ{±QF?É7 K¨_o?¿ è³^s<@ ùÛ—)¨@↑ ©– tìÄ—@6

Ó• #ŠÊ@?s£mØË‰@0°Òz
Ýÿ@7i ß9♂♬?í'☼ZTÎþ?òÇîÐWÆ»@'D#]R@•@'6räÎ÷ ?î´ ð‰¦™?ðyÜØ¢\Ð@ ú•qZ¥ @#◘¹~'U}@M„÷
è.}┬ @M„÷è.}┬ @#·7æ˜ =?úc_ºÙ7ó@3 Ÿ ›
[@◘ †ÞSÄ◘ "@ç`|¨®F@┘ Z®0nK§@┐↕ †ô¦Z @┐↕ †ô¦Z @─ îfÔ=¤@@•
─ ˆîùŒ@UÔ\Ç¡iÈ@UÔ\Ç¡iÈ@98#´åûG?ðê‹
mY}?êê–‰™Ç<?ð Œ¶c┐ >?ëG¨ñ§┬ ñ@-UŽ♬Ëõ·@-
UŽ♬Ëõ·@vcâ¥–ýÞ@◀ !½5¼5·@◀ cÿ#zó*?Î…õé·ÐM?òP`X§®R@WÈ↕ ›┤ óè@Cšlg½~{@
,À↑ £*@ '±¶ÛÄ @pz│ <]z

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@4» ÓÙ’k@@>%çea£@BPòùFÓN@8-f ‼ ±ä?Í_e‰OR+?ØMÍ8 ¤→ ?þ← ↨ ±ø$┐ @)│ `r†…@?ÄÑÏÿ†|·?
ÔÞz

‼ <P@d¶±Á├ô5@• PÛÆ è┘ ð• ¢▯ ð• ¢▯ ð• ¢▯

4747	4764	4766	4865	4867	4981
4940	4997	4995	5068	5069	5076
5077	5093	5094	5114	5111	5200
5201	5216	5211	5275	5260	5355
5349	5384	5394	5388	5493	5464
5510	5509	5530	5532	5580	5540
5628	5625	5643	5634	5700	5701
5722	5712	5834	5833	5840	5839
5846	5852	5853	5857	5864	5867
5872	5871	5887	5883	5957	5960
5970	5964	6013	6006	6050	6046
6087	6092	6110	6105	6172	6168
6222	6199	6261	6244	6286	6285
6291	6292	6303	6296	6327	6312
6374	6358	6437	6438	6463	6462
6524	6525	6576	6573	6601	6603
6628	6617	6684	6681	6799	6800
6812	6816	6820	6822	6875	6873
6931	6938	7010	7008	7025	7021
7066	7062	7096	7088	7161	7159
7231	7225	7251	7252	7265	7266
7328	7326	7401	7397	7493	7461
7534	7525	7591	7585	7608	7607
7637	7630	7729	7724	7773	7774
7779	7776	7872	7873	7889	7885
7952	7951	7966	7965	8029	8027
8149	8150	8220	8222	8240	8241
8278	8279	8288	8289	8343	8345
8369	8371	8431	8429	8454	8452
8487	8483	8512	8517	8522	8623
8622	8720	8714	8767	8756	8814
8813	8829	8831	8845	8838	8926
8913	8985	8972	9043	9044	9064
9067	9161	9159	9242	9243	9254
9255	9279	9275	9343	9342	9367
9362	9401	9403	9506	9498	9576
9579	9589	9583	9627	9631	9638
9634	9679	9659	9762	9757	9824
9826	9848	9847	9864	9862	9912
9870	9939	9940	9981	10027	10015
10072	10071	10118	10115	10188	10245
10246	10271	10260	10335	10336	10352
10351	10440	10437	10454	10450	10578
10568	10628	10631	10646	10647	10686
10687	10707	10706	1	41	23
9	103	99	139	121	213
214	260	245			
374	375	401	398	492	489
529	521	579	578	589	591
631	617	680	6791	726	723
808	805	845	842	865	853
902	897	952	947	979	978
1059	1049	1104	1080	1123	1120
11521	1148	1267	1248	1327	1328
1369	1371	1485	1444	1514	1499
1617	1588	1633	1635	1683	1643
1738	1728	1850	1849	1868	1861

┘ 1901┘ ┘ 1906┘ ┘ 1923┘ ┘ 1919┘ ┘ 1951┘ │ 19501┘
┘ 1960┘ ┘ 1956┘ ┘ 1984┘ ┘ 1982┘ ┘ 2049┘ ┘ 2048┘
┘ 2078┘ ┘ 2071┘ ┘ 2170┘ ┘ 2165┘ ┘ 2214┘ ┘ 2215┘
┘ 2226┘ ┘ 2224┘ ┘ 2261┘ ┘ 2255┘ ┘ 2298┘ ┘ 2297┘
┘ 2326┘ ┘ 2313┘ ┘ 2384┘ │ 23851┘ ┘ 2407┘ ┘ 2405┘
┘ 2488┘ ┘ 2489┘ ┘ 2529┘ ┘ 2509┘ ┘ 2607┘ ┘ 2608┘
┘ 2650┘ ┘ 2649┘ ┘ 2694┘ ┘ 2693┘ ┘ 2783┘ ┘ 2779┘
┘ 2897┘ ┘ 2898┘ ┘ 2938┘ ┘ 2937┘ ┐ └ ÿ┼ ┘
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