```
plants overall [600, 242, 243, 242, 242, 242, 241, 241, 243, 242, 242, 243, 243, 242, 242, 243,
244, 245, 245, 245, 249, 245, 246, 245, 245, 244, 244, 244, 245, 248, 245, 245, 245, 245, 245, 244,
245, 244, 244, 248, 245, 245, 245, 246, 245, 246, 244, 244, 244, 246, 246, 247, 247, 245, 245,
247, 245, 246, 246, 251, 246, 254, 254, 248, 248, 254, 255, 251, 249, 249, 251, 248, 252, 252,
252, 253, 253, 254, 251, 255, 255, 252, 252, 255, 255, 252, 254, 252, 254, 252, 254, 258,
254, 252, 255, 254, 252, 252, 252, 256, 253, 253, 254, 252, 260, 254, 252, 255, 251, 257, 251,
251, 252, 254, 250, 252, 252, 252, 253, 251, 253, 253, 253, 253, 253, 254, 254, 254, 255, 255,
91
```

Parameters:

Runtime = 200 days my_creatures.append(species(map,80,10,150,20,2,27,3,[], ["P"],5,100,100,100,100,100,100,100,10, True, False, name, 8, False)) yes = habitat(1000,10,20, [True,50,10], 100,100,80,40,20,10) my_plants.append(plant(6,10,2,6,90,0.5,12,30,8,True)) weather1 = weather(80, 4, 90)

```
226, 226, 227, 229, 225, 228, 229, 227, 231, 231, 229, 234, 231, 239, 247, 256, 263, 270, 276,
281, 287, 293, 300, 307, 314, 321, 327, 335, 340, 346, 352, 358, 365, 370, 377, 381, 386, 390,
394, 397, 401, 403, 406, 407, 411, 413, 416, 417, 419, 419, 420, 421, 423, 424, 426, 426, 427,
428, 430, 431, 433, 433, 435, 436, 438, 440, 441, 443, 445, 446, 447, 449, 450, 452, 452, 454,
456, 457, 459, 461, 463, 464, 466, 466, 467, 469, 471, 472, 474, 475, 476, 476, 477, 478, 479,
486, 486, 486, 486, 486, 486, 486, 487, 487, 488, 488, 489, 489, 490]
```

my_creatures.append(species(map,90,0.5,5,2,2,27,3,[], ["P"],5,300,100,100,100,100,100,100,10, True, False, name, 8, False))

yes = habitat(1000,10,20, [True,50,10], 100,100,80,40,20,10)

weather1 = weather(80, 4, 90)

my_plants.append(plant(6,10,2,6,90,0.5,12,30,8,True))

But only 2 rabbits

Same as above

plants overall [600, 395, 409, 424, 435, 446, 454, 465, 472, 481, 488, 497, 503, 510, 516, 524, 529, 535, 538, 544, 547, 553, 556, 560, 563, 566, 569, 571, 573, 574, 576, 578, 580, 582, 584,

Changed: height_eaten = random.randint(plant1.height/5, int(plant1.height))/plant1.height Same parameters

```
plants overall [600, 477, 473, 479, 482, 479, 479, 473, 473, 478, 480, 475, 484, 475, 476, 476,
476, 479, 476, 476, 477, 475, 475, 477, 476, 475, 475, 477, 475, 476, 477, 477, 477, 477, 477,
476, 477, 476, 477, 476, 477, 476, 478, 475, 475, 477, 478, 475, 475, 475, 476, 479, 477, 477,
478, 482, 478, 479, 479, 479, 479, 482, 479, 480, 480, 479, 482, 480, 483, 485, 487, 489, 491,
493, 495, 496, 498, 498, 500, 502, 504, 505, 506, 508, 508, 510, 512, 514, 515, 516, 517, 518,
519, 519, 519, 519, 519, 520, 521, 522, 522, 522, 523, 524, 525, 525, 525, 525, 525, 526,
0, 0, 0, 0, 0, 0, 0, 0, 0, 0
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plants overall [600, 214, 216, 216, 216, 214, 216, 215, 216, 216, 214, 216, 214, 214, 215, 215, 216, 217, 217, 215, 215, 215, 215, 216, 215, 215, 216, 216, 215, 215, 215, 216, 215, 215, 215, 215, 216, 215, 215, 215, 216, 215, 216, 217, 215, 215, 217, 215, 217, 215, 217, 215, 215, 215, 218, 219, 221, 221, 221, 216, 222, 225, 223, 224, 236, 249, 258, 271, 281, 295, 306, 318, 328, 342, 351, 364, 372, 384, 391, 403, 410, 421, 429, 440, 447, 455, 462, 470, 477, 483, 489, 496, 501, 506, 510, 514, 518, 523, 527, 532, 537, 543, 547, 552, 556, 560, 564, 567, 571, 573, 576, 577, 579, 581, 583, 584, 585, 585, 586, 587, 587, 588, 589, 590, 591, 591, 592, 593, 594, 594, 595, 596, 597, 598, 599, 600, 600, 601, 602, 602, 602, 603, 603, 604, 605, 605, 605, 605, 606,

266, 267, 263, 266, 267, 266, 266, 266, 266, 264, 264, 267, 266, 265, 266, 268, 266, 267, 266, 267, 267, 266, 267, 263, 266, 266, 267, 266, 268, 268, 266, 267, 268, 278, 287, 297, 304, 314, 321, 330, 338, 347, 353, 361, 367, 375, 381, 390, 395, 402, 406, 413, 417, 423, 426, 432, 435, 441, 444, 450, 453, 458, 460, 464, 468, 472, 476, 480, 484, 488, 491, 495, 498, 502, 504, 508, 510, 513, 517, 520, 524, 526, 530, 531, 532, 533, 536, 537, 540, 541, 544, 547, 549, 552, 554, 557, 559, 562, 563, 566, 566, 568, 570, 571, 572, 574, 574, 576, 578, 580, 581, 583, 583, 585, 600, 602, 604, 606, 607, 608, 609, 610, 611, 612, 612, 612, 613, 613, 614, 615, 615, 615, 615,

Range increased to 600. Food needs only 1

plants overall [600, 226, 227, 227, 227, 224, 226, 226, 226, 224, 227, 227, 227, 226, 227, 226, 227, 227, 227, 224, 227, 226, 226, 227, 224, 226, 227, 227, 227, 224, 224, 227, 224, 227, 226, 224, 227, 227, 225, 227, 226, 227, 226, 227, 226, 227, 226, 227, 226, 224, 224, 226, 226, 227, 225, 231, 231, 231, 228, 228, 231, 227, 231, 227, 228, 228, 231, 227, 231, 228, 231, 228, 231, 228, 225, 228, 228, 228, 228, 229, 231, 231, 230, 234, 234, 230, 230, 230, 230, 228, 241, 252, 262, 272, 283, 293, 305, 316, 328, 338, 352, 359, 369, 376, 387, 395, 405, 414, 424, 432, 442, 449, 458, 463, 469, 474, 479, 483, 487, 490, 494, 497, 500, 502, 505, 506, 509, 509, 510, 512, 513, 515, 515, 517, 519, 521, 522, 523, 524, 525, 526, 527, 527, 528, 528, 529, 530, 531, 532, 538, 539, 540, 541, 541, 542, 543, 544, 545, 545, 545, 546, 547, 547] animals [60, 24, 21, 11, 28, 28, 12, 12, 21, 21, 13, 13, 13, 13, 13, 13, 13, 13, 12, 12, 12, 12, 12,

220, 217, 217, 218, 219, 218, 219, 220, 218, 220, 220, 220, 219, 217, 219, 219, 217, 220, 219, 216, 217, 217, 220, 220, 219, 216, 216, 220, 217, 217, 218, 219, 217, 217, 217, 220, 219, 217, 217, 220, 217, 217, 219, 217, 217, 217, 217, 218, 217, 217, 217, 219, 217, 217, 217, 220, 219, 217, 220, 220, 218, 217, 217, 220, 218, 217, 217, 220, 217, 217, 217, 219, 217, 220, 219, 217, 217, 217, 217, 216, 218, 221, 218, 217, 218, 218, 218, 218, 219, 228, 235, 242, 250, 258, 267, 275, 285, 292, 301, 309, 316, 323, 330, 336, 344, 348, 355, 358, 365, 367, 374, 381, 388, 393, 399, 403, 409, 412, 419, 421, 427, 433, 439, 445, 449, 454, 457, 462, 464, 469, 470, 474, 478, 481, 484, 487, 489, 491, 492, 494, 495, 495, 496, 497, 498, 498, 498, 498, 499, 499, 499, 500, 26, 25, 25, 24, 24, 24, 24, 23, 22, 22, 21, 21, 20, 20, 20, 20, 20, 20, 20, 20, 19, 19, 18, 18, 0, 0, 0, 0, 0, 0, 0, 0, 0

Fixed the auto delete babies and the if they have ever been hungry they die

```
plants overall [600, 367, 368, 367, 367, 367, 367, 363, 367, 363, 368, 367, 368, 367, 368, 367, 368,
367, 367, 368, 368, 363, 368, 367, 368, 368, 367, 367, 367, 368, 367, 368, 367, 368, 367, 368,
367, 363, 367, 363, 368, 368, 367, 367, 367, 368, 368, 363, 367, 367, 368, 367, 367, 367, 363,
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363, 368, 368, 367, 367, 368, 368, 369, 373, 369, 374, 368, 374, 367, 368, 367, 367, 377, 385,
397, 406, 420, 430, 447, 458, 475, 484, 500, 509, 522, 530, 540, 546, 554, 559, 565, 569, 574,
579, 584, 589, 594, 598, 602, 606, 609, 613, 616, 620, 623, 626, 629, 632, 635, 638, 640, 643,
645, 648, 650, 652, 653, 655, 655, 657, 659, 661, 662, 663, 664, 665, 666, 666, 666, 667, 667,
667, 668, 669, 669, 669, 670, 671, 672, 672, 673, 673, 673, 673, 673, 673, 674, 674, 674,
animals [60, 59, 29, 241, 28, 28, 28, 28, 28, 27, 27, 27, 27, 26, 26, 25, 25, 24, 24, 24, 23,
23, 22, 22, 21, 20, 20, 20, 20, 20, 20, 20, 19, 18, 16, 16, 16, 16, 16, 16, 15, 15, 15, 15, 15, 15, 15,
0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0
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Same but need 5 food plants overall [600, 348, 350, 348, 351, 348, 348, 350, 348, 349, 349] animals [10, 10, 10, 44, 28, 50, 15, 12, 12, 12]

Same parameters but they don't eat if they've already had enough!! plants overall [600, 609, 619, 618, 619, 619, 618, 619, 619, 616, 618, 618, 618, 618, 618] animals [8, 8, 8, 60, 21, 106, 28, 93, 39, 115, 49, 100, 61, 136, 67, 106]

267, 266, 267, 268, 268, 269, 268, 272, 270, 270, 271, 271, 273, 272, 273, 275, 277, 275, 280, 280, 284, 284, 288, 289, 292, 293, 296, 299, 302, 304, 307, 309, 311, 312, 313, 314, 315, 316, 317, 318, 318, 319, 320, 321, 322, 323, 324, 325, 326, 326, 327, 327, 327, 328, 328, 328, 328, 328, 328]

New day

yes = habitat(5000,10,20, [*True*,80,20], 100,100,80,40,20,10)

weather 1 = weather(80, 4, 90)

my plants.append(plant(6,10,2,6,90,0.5,12,30,8,*True*))

rabbits = create creatures(20, map, "rabbit") # making 20 creatures using the map #FIXME make this easier to set up different creatures

All the same but no bunnies

No plants same otherwise

Same 5 and 5

plants overall [5, 14, 21, 31, 38, 49, 56, 65, 71, 79, 84, 91, 95, 101, 105, 110, 113, 118, 120, 125, 126, 129, 132, 134, 136, 138, 140, 142, 143, 145, 146, 148, 147, 148, 150, 146, 147, 148, 147, 147, 146, 146, 146, 147, 147, 147, 147, 147, 147, 148, 146, 146]

Same

plants overall [50, 62, 74, 86, 100, 107, 118, 129, 138, 148, 154, 162, 169, 178, 179, 186, 190, 190, 198, 201, 205, 211, 212, 216, 220, 223, 228, 234, 236, 239, 244, 246, 252, 253, 262, 261, 264, 268, 273, 276, 282, 282, 285, 292, 291, 296, 293, 296, 296, 298, 299, 301, 302] animals [5, 5, 5, 5, 5, 8, 8, 8, 14, 14, 46, 27, 50, 140, 111, 95, 99, 70, 48, 101, 62, 128, 70, 128, 80, 111, 100, 217, 109, 170, 121, 193, 130, 142, 142, 237, 154, 197, 169, 250, 183, 266, 191, 236, 210, 283, 220, 302, 228, 298, 241, 304, 256]

plants overall [5, 14, 20, 24, 25, 26, 21, 28, 25, 31, 30, 32, 32, 36, 35, 40, 42, 45, 51, 50, 57, 58, 58, 60, 66, 67, 71, 76, 81, 84, 87, 88, 94, 94, 97, 99, 102, 101, 105, 106, 112, 110, 116, 119, 127, 123, 130, 133, 141, 144, 148, 156, 163] animals [50, 49, 2, 10, 9, 41, 26, 114, 47, 64, 50, 72, 57, 97, 74, 157, 82, 148, 85, 108, 98, 164, 104, 134, 111, 132, 123, 166, 136, 176, 148, 196, 156, 184, 178, 353, 185, 234, 200, 257, 207, 247, 226, 287, 237, 331, 246, 303, 257, 301, 271, 336, 279]

^^ how

This should not be possible. Fixing

Added clearing food needs

plants overall [1, 13, 7, 18, 25, 21, 23, 22, 25, 28, 32, 33, 34, 39, 41, 41, 43, 41, 44, 48, 50, 56, 57, 61, 65, 71, 75, 81, 85, 91, 92, 100, 100, 106, 104, 112, 118, 121, 125, 127, 130, 132, 135, 136, 138, 140, 143, 145, 147, 150, 152, 156, 157] animals [50, 50, 1, 2, 2, 23, 11, 54, 6, 27, 6, 21, 6, 20, 9, 38, 13, 39, 13, 24, 6, 6, 21, 6, 6, 6, 11, 10, 17, 9, 9, 17, 10, 27, 7, 20, 22, 18, 10, 30, 6, 10, 10, 68, 6, 19, 19, 25, 6, 8, 8, 20, 11]

Should never be able to bounce back from 1.. Maybe it was already pregant Logic works. .

plants overall [200, 194, 192, 192, 192, 193, 195, 196, 196, 197, 197, 197, 197, 197, 198, 197, 199, 196, 198, 196, 199, 199, 199, 199, 197, 199, 197, 199, 197, 199, 197, 199, 198, 200, 198, 200, 200, 202, 202, 200, 200, 202, 200, 202, 202, 202, 202, 200, 200, 202, 20 203, 204, 203, 201, 201, 204, 204, 206, 205, 207, 208, 208, 205, 205, 206, 206, 207, 208, 205, 209, 209, 204, 204, 204, 206, 206, 204, 209, 209, 206, 204, 204, 207, 204, 204, 204, 208, 207, 206, 209, 208, 204, 208, 204, 209, 204, 204, 204, 206, 206, 209, 208, 204, 206, 206, 208, 205, 208, 205, 207, 208, 208, 208, 205, 205, 205, 208, 208, 208, 208, 208, 208, 208, 210, 208, 208, 205, 207, 208, 209, 209, 205, 208, 205, 205, 208, 206, 209, 207, 207 animals [50, 49, 47, 268, 21, 24, 29, 28, 39, 30, 52, 31, 61, 34, 58, 41, 33, 64, 50, 35, 37, 72, 27, 35, 31, 69, 22, 58, 28, 42, 25, 52, 33, 29, 60, 43, 46, 50, 29, 47, 45, 53, 47, 57, 39, 91, 62, 30, 50, 28, 30, 30, 91, 47, 24, 32, 34, 59, 70, 59, 30, 41, 42, 68, 53, 25, 39, 37, 37, 48, 54, 57, 29, 48, 33, 75, 37, 44, 40, 83, 43, 26, 51, 29, 71, 30, 50, 35, 64, 50, 33, 44, 44, 32, 72, 37, 30, 69, 32, 36, 34, 81, 36, 44, 34, 56, 44, 49, 41, 101, 44, 37, 29, 86, 28, 27, 25, 25, 27, 38, 44, 81, 68, 26, 48, 45, 41, 39, 78, 29, 47, 66, 68, 47, 28, 55, 46, 51, 60, 67, 30, 36, 87, 43, 54, 44, 59, 45, 50, 47, 50, 33, 60, 65, 52, 54, 36, 45, 44, 44, 50, 51, 44, 54, 44, 52, 26, 42, 41, 42, 32, 57, 44, 41, 69, 26, 40, 36, 67, 62, 52, 37, 27, 31, 55, 43, 48, 44, 61, 61, 68, 27, 50, 66, 47, 29, 29, 47, 31, 67, 46] Plant seeds 10 not 30 plants overall [200, 196, 196, 196, 196, 198, 198, 204, 202, 209, 206, 212, 212, 216, 220, 224, 223, 229, 232, 234, 236] Plant seeds 0...

203, 204, 210, 206, 205]

animals [50, 46, 46, 278, 20, 22, 32, 23, 20, 31, 22, 28, 18, 18, 17, 17, 17, 17, 17, 17, 17] Fix ^^^

Nvm that was seed distribution

No plant replication ^

All the same

Replication 10

plants overall [200, 198, 199, 196, 197, 196, 196, 196, 196, 198, 195, 195, 200, 195, 197, 197, 195, 195, 197, 197, 197] animals [50, 49, 49, 335, 41, 74, 85, 70, 38, 41, 40, 60, 42, 86, 37, 63, 41, 65, 37, 69, 37]

animals [20, 20, 19, 66, 82, 297, 328, 630, 597, 410, 311, 344, 371, 402, 501, 466, 516, 525, 524, 514, 539, 683, 694, 658, 683, 676, 702, 759, 698, 807, 802, 822, 869, 949, 939, 945, 924, 1012, 1034, 1026, 994, 1052, 1143, 1090, 1010, 1192, 1138, 1181, 1163, 1275, 1115, 1295, 1369]