

Hjem Indsæt Tegning Sidelayout Formler Data Gennemse Vis Fortæl mig det

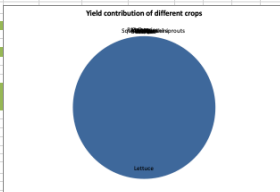
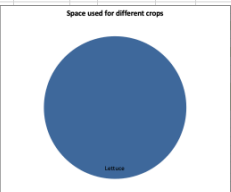
Calibri (Tekst) 11 Standard Betinget formatering Formatér som tabel Indsæt Formatér

F31 kg/m2

Area	Use	Area (m <sup>2</sup> )
17	<b>Your design</b>	
18	Site	1000
19	Plot area (optional)	100
20	Plotland without glass house in the lane	100
21	Plotland without glasshouse on Hothers plots	100
22	Plotland along outer facade	100
23	Paths inside the lane	100
24	Paths on Hothers plots	100
25	Paths along facade	100
26	Total Area available for cropping	600

Expected crop yield and nutrient requirement	Yield, fresh weight	Yield, fresh solids	N requirement	P requirement	K requirement
19	10000 kg/ha	3000 kg/ha	150 kg N/ha	40 kg P/ha	200 kg K/ha
20	10000 kg/ha	3000 kg/ha	150 kg N/ha	40 kg P/ha	200 kg K/ha
21	40000 kg/ha	12000 kg/ha	600 kg N/ha	160 kg P/ha	800 kg K/ha
22	10000 kg/ha	3000 kg/ha	150 kg N/ha	40 kg P/ha	200 kg K/ha
23	10000 kg/ha	3000 kg/ha	150 kg N/ha	40 kg P/ha	200 kg K/ha
24	10000 kg/ha	3000 kg/ha	150 kg N/ha	40 kg P/ha	200 kg K/ha
25	10000 kg/ha	3000 kg/ha	150 kg N/ha	40 kg P/ha	200 kg K/ha
26	10000 kg/ha	3000 kg/ha	150 kg N/ha	40 kg P/ha	200 kg K/ha
27	10000 kg/ha	3000 kg/ha	150 kg N/ha	40 kg P/ha	200 kg K/ha
28	10000 kg/ha	3000 kg/ha	150 kg N/ha	40 kg P/ha	200 kg K/ha
29	10000 kg/ha	3000 kg/ha	150 kg N/ha	40 kg P/ha	200 kg K/ha
30	10000 kg/ha	3000 kg/ha	150 kg N/ha	40 kg P/ha	200 kg K/ha
31	10000 kg/ha	3000 kg/ha	150 kg N/ha	40 kg P/ha	200 kg K/ha
32	10000 kg/ha	3000 kg/ha	150 kg N/ha	40 kg P/ha	200 kg K/ha
33	10000 kg/ha	3000 kg/ha	150 kg N/ha	40 kg P/ha	200 kg K/ha
34	10000 kg/ha	3000 kg/ha	150 kg N/ha	40 kg P/ha	200 kg K/ha
35	10000 kg/ha	3000 kg/ha	150 kg N/ha	40 kg P/ha	200 kg K/ha
36	10000 kg/ha	3000 kg/ha	150 kg N/ha	40 kg P/ha	200 kg K/ha
37	10000 kg/ha	3000 kg/ha	150 kg N/ha	40 kg P/ha	200 kg K/ha
38	10000 kg/ha	3000 kg/ha	150 kg N/ha	40 kg P/ha	200 kg K/ha
39	10000 kg/ha	3000 kg/ha	150 kg N/ha	40 kg P/ha	200 kg K/ha
40	10000 kg/ha	3000 kg/ha	150 kg N/ha	40 kg P/ha	200 kg K/ha
41	10000 kg/ha	3000 kg/ha	150 kg N/ha	40 kg P/ha	200 kg K/ha
42	10000 kg/ha	3000 kg/ha	150 kg N/ha	40 kg P/ha	200 kg K/ha
43	10000 kg/ha	3000 kg/ha	150 kg N/ha	40 kg P/ha	200 kg K/ha
44	10000 kg/ha	3000 kg/ha	150 kg N/ha	40 kg P/ha	200 kg K/ha
45	10000 kg/ha	3000 kg/ha	150 kg N/ha	40 kg P/ha	200 kg K/ha
46	10000 kg/ha	3000 kg/ha	150 kg N/ha	40 kg P/ha	200 kg K/ha
47	10000 kg/ha	3000 kg/ha	150 kg N/ha	40 kg P/ha	200 kg K/ha
48	10000 kg/ha	3000 kg/ha	150 kg N/ha	40 kg P/ha	200 kg K/ha
49	10000 kg/ha	3000 kg/ha	150 kg N/ha	40 kg P/ha	200 kg K/ha
50	10000 kg/ha	3000 kg/ha	150 kg N/ha	40 kg P/ha	200 kg K/ha
51	10000 kg/ha	3000 kg/ha	150 kg N/ha	40 kg P/ha	200 kg K/ha
52	10000 kg/ha	3000 kg/ha	150 kg N/ha	40 kg P/ha	200 kg K/ha
53	10000 kg/ha	3000 kg/ha	150 kg N/ha	40 kg P/ha	200 kg K/ha
54	10000 kg/ha	3000 kg/ha	150 kg N/ha	40 kg P/ha	200 kg K/ha
55	10000 kg/ha	3000 kg/ha	150 kg N/ha	40 kg P/ha	200 kg K/ha
56	10000 kg/ha	3000 kg/ha	150 kg N/ha	40 kg P/ha	200 kg K/ha
57	10000 kg/ha	3000 kg/ha	150 kg N/ha	40 kg P/ha	200 kg K/ha
58	10000 kg/ha	3000 kg/ha	150 kg N/ha	40 kg P/ha	200 kg K/ha
59	10000 kg/ha	3000 kg/ha	150 kg N/ha	40 kg P/ha	200 kg K/ha
60	10000 kg/ha	3000 kg/ha	150 kg N/ha	40 kg P/ha	200 kg K/ha
61	10000 kg/ha	3000 kg/ha	150 kg N/ha	40 kg P/ha	200 kg K/ha
62	10000 kg/ha	3000 kg/ha	150 kg N/ha	40 kg P/ha	200 kg K/ha
63	10000 kg/ha	3000 kg/ha	150 kg N/ha	40 kg P/ha	200 kg K/ha
64	10000 kg/ha	3000 kg/ha	150 kg N/ha	40 kg P/ha	200 kg K/ha
65	10000 kg/ha	3000 kg/ha	150 kg N/ha	40 kg P/ha	200 kg K/ha
66	10000 kg/ha	3000 kg/ha	150 kg N/ha	40 kg P/ha	200 kg K/ha
67	10000 kg/ha	3000 kg/ha	150 kg N/ha	40 kg P/ha	200 kg K/ha
68	10000 kg/ha	3000 kg/ha	150 kg N/ha	40 kg P/ha	200 kg K/ha
69	10000 kg/ha	3000 kg/ha	150 kg N/ha	40 kg P/ha	200 kg K/ha
70	10000 kg/ha	3000 kg/ha	150 kg N/ha	40 kg P/ha	200 kg K/ha
71	10000 kg/ha	3000 kg/ha	150 kg N/ha	40 kg P/ha	200 kg K/ha
72	10000 kg/ha	3000 kg/ha	150 kg N/ha	40 kg P/ha	200 kg K/ha
73	10000 kg/ha	3000 kg/ha	150 kg N/ha	40 kg P/ha	200 kg K/ha
74	10000 kg/ha	3000 kg/ha	150 kg N/ha	40 kg P/ha	200 kg K/ha
75	10000 kg/ha	3000 kg/ha	150 kg N/ha	40 kg P/ha	200 kg K/ha
76	10000 kg/ha	3000 kg/ha	150 kg N/ha	40 kg P/ha	200 kg K/ha
77	10000 kg/ha	3000 kg/ha	150 kg N/ha	40 kg P/ha	200 kg K/ha
78	10000 kg/ha	3000 kg/ha	150 kg N/ha	40 kg P/ha	200 kg K/ha
79	10000 kg/ha	3000 kg/ha	150 kg N/ha	40 kg P/ha	200 kg K/ha
80	10000 kg/ha	3000 kg/ha	150 kg N/ha	40 kg P/ha	200 kg K/ha

Production Systems Design	Area used for crop	Expected Yield	Yield % of total
19	10000 kg/ha	3000 kg/ha	0.04
20	10000 kg/ha	3000 kg/ha	0.04
21	40000 kg/ha	12000 kg/ha	0.04
22	10000 kg/ha	3000 kg/ha	0.04
23	10000 kg/ha	3000 kg/ha	0.04
24	10000 kg/ha	3000 kg/ha	0.04
25	10000 kg/ha	3000 kg/ha	0.04
26	10000 kg/ha	3000 kg/ha	0.04
27	10000 kg/ha	3000 kg/ha	0.04
28	10000 kg/ha	3000 kg/ha	0.04
29	10000 kg/ha	3000 kg/ha	0.04
30	10000 kg/ha	3000 kg/ha	0.04
31	10000 kg/ha	3000 kg/ha	0.04
32	10000 kg/ha	3000 kg/ha	0.04
33	10000 kg/ha	3000 kg/ha	0.04
34	10000 kg/ha	3000 kg/ha	0.04
35	10000 kg/ha	3000 kg/ha	0.04
36	10000 kg/ha	3000 kg/ha	0.04
37	10000 kg/ha	3000 kg/ha	0.04
38	10000 kg/ha	3000 kg/ha	0.04
39	10000 kg/ha	3000 kg/ha	0.04
40	10000 kg/ha	3000 kg/ha	0.04
41	10000 kg/ha	3000 kg/ha	0.04
42	10000 kg/ha	3000 kg/ha	0.04
43	10000 kg/ha	3000 kg/ha	0.04
44	10000 kg/ha	3000 kg/ha	0.04
45	10000 kg/ha	3000 kg/ha	0.04
46	10000 kg/ha	3000 kg/ha	0.04
47	10000 kg/ha	3000 kg/ha	0.04
48	10000 kg/ha	3000 kg/ha	0.04
49	10000 kg/ha	3000 kg/ha	0.04
50	10000 kg/ha	3000 kg/ha	0.04
51	10000 kg/ha	3000 kg/ha	0.04
52	10000 kg/ha	3000 kg/ha	0.04
53	10000 kg/ha	3000 kg/ha	0.04
54	10000 kg/ha	3000 kg/ha	0.04
55	10000 kg/ha	3000 kg/ha	0.04
56	10000 kg/ha	3000 kg/ha	0.04
57	10000 kg/ha	3000 kg/ha	0.04
58	10000 kg/ha	3000 kg/ha	0.04
59	10000 kg/ha	3000 kg/ha	0.04
60	10000 kg/ha	3000 kg/ha	0.04
61	10000 kg/ha	3000 kg/ha	0.04
62	10000 kg/ha	3000 kg/ha	0.04
63	10000 kg/ha	3000 kg/ha	0.04
64	10000 kg/ha	3000 kg/ha	0.04
65	10000 kg/ha	3000 kg/ha	0.04
66	10000 kg/ha	3000 kg/ha	0.04
67	10000 kg/ha	3000 kg/ha	0.04
68	10000 kg/ha	3000 kg/ha	0.04
69	10000 kg/ha	3000 kg/ha	0.04
70	10000 kg/ha	3000 kg/ha	0.04
71	10000 kg/ha	3000 kg/ha	0.04
72	10000 kg/ha	3000 kg/ha	0.04
73	10000 kg/ha	3000 kg/ha	0.04
74	10000 kg/ha	3000 kg/ha	0.04
75	10000 kg/ha	3000 kg/ha	0.04
76	10000 kg/ha	3000 kg/ha	0.04
77	10000 kg/ha	3000 kg/ha	0.04
78	10000 kg/ha	3000 kg/ha	0.04
79	10000 kg/ha	3000 kg/ha	0.04
80	10000 kg/ha	3000 kg/ha	0.04



Nutrient requirements at designed site	N requirement	P requirement	K requirement
19	0.00 kg	0.00 kg	0.00 kg
20	0.00 kg	0.00 kg	0.00 kg
21	0.00 kg	0.00 kg	0.00 kg
22	0.00 kg	0.00 kg	0.00 kg
23	0.00 kg	0.00 kg	0.00 kg
24	0.00 kg	0.00 kg	0.00 kg
25	0.00 kg	0.00 kg	0.00 kg
26	0.00 kg	0.00 kg	0.00 kg
27	0.00 kg	0.00 kg	0.00 kg
28	0.00 kg	0.00 kg	0.00 kg
29	0.00 kg	0.00 kg	0.00 kg
30	0.00 kg	0.00 kg	0.00 kg
31	0.00 kg	0.00 kg	0.00 kg
32	0.00 kg	0.00 kg	0.00 kg
33	0.00 kg	0.00 kg	0.00 kg
34	0.00 kg	0.00 kg	0.00 kg
35	0.00 kg	0.00 kg	0.00 kg
36	0.00 kg	0.00 kg	0.00 kg
37	0.00 kg	0.00 kg	0.00 kg
38	0.00 kg	0.00 kg	0.00 kg
39	0.00 kg	0.00 kg	0.00 kg
40	0.00 kg	0.00 kg	0.00 kg
41	0.00 kg	0.00 kg	0.00 kg
42	0.00 kg	0.00 kg	0.00 kg
43	0.00 kg	0.00 kg	0.00 kg
44	0.00 kg	0.00 kg	0.00 kg
45	0.00 kg	0.00 kg	0.00 kg
46	0.00 kg	0.00 kg	0.00 kg
47	0.00 kg	0.00 kg	0.00 kg
48	0.00 kg	0.00 kg	0.00 kg
49	0.00 kg	0.00 kg	0.00 kg
50	0.00 kg	0.00 kg	0.00 kg
51	0.00 kg	0.00 kg	0.00 kg
52	0.00 kg	0.00 kg	0.00 kg
53	0.00 kg	0.00 kg	0.00 kg
54	0.00 kg	0.00 kg	0.00 kg
55	0.00 kg	0.00 kg	0.00 kg
56	0.00 kg	0.00 kg	0.00 kg
57	0.00 kg	0.00 kg	0.00 kg
58	0.00 kg	0.00 kg	0.00 kg
59	0.00 kg	0.00 kg	0.00 kg
60	0.00 kg	0.00 kg	0.00 kg
61	0.00 kg	0.00 kg	0.00 kg
62	0.00 kg	0.00 kg	0.00 kg
63	0.00 kg	0.00 kg	0.00 kg
64	0.00 kg	0.00 kg	0.00 kg
65	0.00 kg	0.00 kg	0.00 kg
66	0.00 kg	0.00 kg	0.00 kg
67	0.00 kg	0.00 kg	0.00 kg
68	0.00 kg	0.00 kg	0.00 kg
69	0.00 kg	0.00 kg	0.00 kg
70	0.00 kg	0.00 kg	0.00 kg
71	0.00 kg	0.00 kg	0.00 kg
72	0.00 kg	0.00 kg	0.00 kg
73	0.00 kg	0.00 kg	0.00 kg
74	0.00 kg	0.00 kg	0.00 kg
75	0.00 kg	0.00 kg	0.00 kg
76	0.00 kg	0.00 kg	0.00 kg
77	0.00 kg	0.00 kg	0.00 kg
78	0.00 kg	0.00 kg	0.00 kg
79	0.00 kg	0.00 kg	0.00 kg
80	0.00 kg	0.00 kg	0.00 kg

Excel-file-for-exercise-hothers-plads-and-karré-2020-2

Automatisk lagring FRA

Hjem Indsæt Tegning Sidelayout Formler Data Gennemse Vis Fortæl mig det

Sæt ind Calibri (Tekst) 11

Betinget formatering Formater som tabel Celletypografier

Indsæt Slet Formater

Sortér og filtrer Søg og vælg Følsomhed

D16

Household waste produced pr. person						
unit	Toilet		Kitchen		bathing and washing	total
	faeces	urine	water	solid		
Volume of resource ect water usage l/(pers. year)	75	430	150	130	7.5	793
Water usage l/(pers. year)	7300	10950	18250	0	18250.0	54750
Total volume l/(pers. year)	7375	11380	18400	130	18257.5	55543
Total Dry weight kg/(pers. year)	13	22	15	29	7.3	86
COD kg/(pers. year)	22	5.5	16	33	3.7	80
BOD kg/(pers. year)	7.3	1.8	11.0	11.0	1.8	32.9
Nitrogen (N) kg/(pers. year)	0.37	4.00	0.37	0.62	0.37	5.73
Phosphorus (P) kg/(pers. year)	0.18	0.55	0.07	0.11	0.11	1.02
Potassium (K) kg/(pers. year)	0.37	0.91	0.15	0.15	0.15	1.73

Inhabitants 1200 persons

Household waste produced at site						
unit	Toilet		Kitchen		bathing and washing	total
	faeces	urine	water	solid		
Volume of resource ect water usage l/year						0
Water usage l/year						0
Total volume l/year						0
Total Dry weight kg/year						0
COD kg/year						0
BOD kg/year						0
Nitrogen (N) kg/year						0
Phosphorus (P) kg/year						0
Potassium (K) kg/year						0

Urine collectable at site per year	
	urine-water
Total available Volume	13,654,000 L
Nitrogen (N)	0 kg N
Phosphorus (P)	0 kg P
Potassium (K)	0 kg K

Kitchen solids collectable at site per year	
	amount available
Total available	kg dry weight
Nitrogen (N)	0 kg N
Phosphorus (P)	0 kg P
Potassium (K)	0 kg K

Design requirements			
	Total amounts	Urine requirement*	Kitchen solids requirement*
Nitrogen (N)	kg N	persons	persons
Phosphorus (P)	kg P	persons	persons
Potassium (K)	kg K	persons	persons

\* Amount of people who need to have their household wastes collected to meet the demands of the production system design.

Sheet1 Sheet2 Ark1 +

Klar

80 %