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**Data associated with Walter-McNeill et al. (2021) *Oecologia***

**<https://doi.org/10.1007/s00442-021-05038-y>**

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### Recommended Citation

Logan, Barry, "Data associated with Walter-McNeill et al. (2021) *Oecologia* <https://doi.org/10.1007/s00442-021-05038-y>" (2021). *Biology Faculty Publications*. 1.  
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ID_code	priority	genus	species	sub_species	Bowdoin Inventory
abal	O	Abies	alba	'HoldenArboretum'	3
abam	P	Abies	amabilis	'SpreadingStar'	3
abco	P	Abies	concolor		3
akgc	O	Abies	koreana	'GreenCarpet'	3
akhs	O	Abies	koreana	'Horstmanns'sSilberl'	3
abpa	P	Abies	pinsapo	'Aurea'	2
cade	P	Calocedrus	decurrens		3
cagp	P	Cedrus	atlantica	'GlaucaPendula'	3
ceag	P	Cedrus	atlantica	'Glauca'	3
cdss	O	Cedrus	deodara	'SnowSprite'	3
cdcp	O	cedrus	diodara	cream puff'	3
celi	P	Cedrus	libani	'Pendula'	3
cehp	P	Cephalotaxus	harringtonia	'Prostrata'	3
choc	P	Chamaecyparis	obtusata	'Contorta'	3
cunj	P	Cupressus	nootkatensis	'Jubilee'	3
cunp	P	Cupressus	nootkatensis	'Pendula'	3
jcsj	P	Juniperus	chinensis	'SaybrookGold'	3
jswb	P	Juniperus	scopulorum	'WichitaBlue'	3
jccm	O	Juniperus	communis	'CherokeeMaiden'	3
juco	P	Juniperus	communis		3
jscj	O	Juniperus	sabina	'CalgaryCarpet'	3
jsba	O	Juniperus	scopulorum	'BlueArrow'	3
jusb	P	Juniperus	sabina	'Buffalo'	3
jvgc	O	Juniperus	virginiana	'GreenColumn'	3
mgmg	P	Metasequoia	glyptostroboides	'MissGrace'	3
pfvp	P	Pinus	flexilis	'Vanderwolf'sPyrami'	3
pian	P	Picea	abies	'Nidiformis'	3
piap	O	Picea	abies	'Pendula'	3
pars	O	Picea	abies	'RubraSpicata'	3
pasc	O	Picea	abies	'SherwoodCompact'	3
phvl	P	Pinus	heldreichii	var. leucodermis	3
ponc	O	Picea	orientalis	'NigraCompacta'	3
piab	P	Picea	abies		3
piph	O	Picea	pungens	'Hoopsii'	3
pipm	O	Picea	pungens	'Montgomery'	3
pipp	O	Picea	pungens	'Pendula'	3
ppsd	O	Picea	pungens	'SesterDwarf'	3
piar	P	Pinus	aristata		3
piba	P	Pinus	Banksiana	'Schoodic'	3
picc	P	Pinus	cembra	'Chalet'	3
pico	P	Pinus	Contorta		3
pied	P	Pinus	edulis		3
pije	P	Pinus	jeffreyi		3
pile	P	Pinus	leucodermis		3
pini	P	Pinus	nigra		3
piog	P	Picea	orientalis	'Gowdy'	3
plif	O	Pinus	leucodermis	'IseliFastigiate'	3

pizs	O	Pinus	leucodermis	'ZwergSchneverding	3
pipo	P	Pinus	ponderosa		3
pipu	P	Picea	pungens		3
pinh	O	Pinus	nigra	'Hornibrookiana'	3
pisf	P	Pinus	sylvestris		3
pist	P	Pinus	strobiformis		3
piwa	P	Pinus	wallichiana		3
pmup	P	Pinus	mugo	'SlowMound'	3
pisy	O	Pinus	sylvestris	'Fastigiata'	3
psgf	O	Pinus	sylvestris	'GlaucaFastigiata'	3
psgv	O	Pinus	sylvestris	'GlobosaViridis'	3
psip	O	Pinus	sylvestris	'Plumosa'	3
pinp	O	Pinus	sylvestris	'pumila'	3
psmf	P	Pseudotsuga	menziesii	'Fletcheri'	3
pspe	P	Pinus	strobis	'Pendula'	3
pmgg	O	Pseudotsuga	menziesii	'GracefulGrace'	3
psme	P	Pseudotsuga	menziesii	'torquis'	3
scvw	P	Sciadopitys	verticillata	'Wintergreen'	3
segi	P	Sequoiadendro	giganteum		3
sgpb	O	Sequoiadendro	giganteum	'PowderBlue'	3
sgvm	O	Sequoiadendro	giganteum	'VonMartin'	3
tdcf	O	Taxodium	distichum	'CascadeFalls'	3
tabr	P	Taxus	baccata	'Repandens'	3
taca	P	Taxus	cuspidata	'Amersfoort'	3
tadm	P	Taxodium	distichum	'Mickel	3
tamd	O	Taxus	x	xmedia	3
thob	P	Thuja	occidentalis	'Breweri'	3
thod	P	Thuja	occidentalis	'Danica'	3
thpw	P	Thuja	plicata	'Whipcord'	3
tscj	P	Tsuga	canadensis	'Jeddeloh'	3

ID_code	Priority?	replicate	who dunnit?	tube label	prepped date	run date
abco	P	3	david	O	11/2/2018	11/9/2018
abpa	P	2	david	A	11/2/2018	11/9/2018
cade	P	2	david	E	11/2/2018	11/9/2018
scvw	P	2	david	scvw	11/8/2018	11/9/2018
tabr	P	1	david	tabr	11/8/2018	11/9/2018
taca	P	2	david	taca	11/8/2018	11/9/2018
tadm	P	1	david	tadm	11/8/2018	11/9/2018
thob	P	1	david	thob	11/8/2018	11/9/2018
thpw	P	1	david	thpw	11/8/2018	11/9/2018
abam	P	1	andrew	ABAM1	11/16/2018	11/16/2018
abam	P	1	andrew	ABAM1 RERUN	11/16/2018	11/16/2018
abco	P	1	andrew	ABCO1	11/16/2018	11/16/2018
abpa	P	3	andrew	ABPA3	11/16/2018	11/16/2018
cade	P	1	andrew	CADE1	11/16/2018	11/16/2018
ceag	P	1	andrew	CEAG1	11/16/2018	11/16/2018
cehp	P	2	andrew	CEHP1	11/16/2018	11/16/2018
choc	P	1	david	choc	11/16/2018	11/17/2018
cunj	P	1	david	cunj	11/16/2018	11/17/2018
cunp	P	1	david	cunp	11/16/2018	11/17/2018
jcsj	P	3	david	jcsj	11/16/2018	11/17/2018
juco	P	1	david	juco	11/16/2018	11/17/2018
jusb	P	1	david	jusb	11/16/2018	11/17/2018
tabr	P	3	david	tabr	11/16/2018	11/17/2018
taca	P	1	david	taca	11/16/2018	11/17/2018
tadm	P	2	david	tadm	11/16/2018	11/17/2018
thob	P	2	david	thob	11/16/2018	11/17/2018
thpw	P	2	david	thpw	11/16/2018	11/17/2018
tscj	P	1	david	tscj	11/16/2018	11/17/2018
abam	P	3	david	abam	11/21/2018	11/26/2018
abco	P	2	david	abco	11/21/2018	11/26/2018
cade	P	3	david	cade	11/21/2018	11/26/2018
ceag	P	2	david	ceag	11/21/2018	11/26/2018
cehp	P	3	david	cehp	11/21/2018	11/26/2018
piwa	P	1	david	piwa	11/21/2018	11/26/2018
psmf	P	1	david	psmf	11/21/2018	11/26/2018
scvw	P	1	david	scvw	11/21/2018	11/26/2018
segi	P	1	david	segi	11/21/2018	11/26/2018
thob	P	3	david	thob	11/21/2018	11/26/2018
thpw	P	3	david	thpw	11/21/2018	11/26/2018
tscj	P	2	david	tscj	11/21/2018	11/26/2018
pfvp	P	1	andrew	pfvp1	11/30/2018	12/5/2018
phvl	P	1	andrew	phvl1	11/30/2018	12/5/2018
piar	P	1	andrew	piar1	11/30/2018	12/5/2018
piba	P	1	andrew	piba1	11/30/2018	12/5/2018
picc	P	1	andrew	picc1	11/30/2018	12/5/2018
pico	P	1	andrew	pico1	11/30/2018	12/5/2018
pied	P	1	andrew	pied1	11/30/2018	12/5/2018

pije	P	1	andrew	pije1	11/30/2018	12/5/2018	
pini	P	1	andrew	pini1	11/30/2018	12/5/2018	
piog	P	1	andrew	piog1	11/30/2018	12/5/2018	
pipu	P	1	andrew	pipu1	11/30/2018	12/5/2018	
pmup	P	1	andrew	pmup1	11/30/2018	12/5/2018	
phvl	P	2	andrew	phvl2	1/4/2019	1/7/2019	
piab	P	2	andrew	piab2	1/4/2019	1/7/2019	
piar	P	2	andrew	piar2	1/4/2019	1/7/2019	
piba	P	2	andrew	piba2	1/4/2019	1/7/2019	
pied	P	2	andrew	pied2	1/4/2019	1/7/2019	
pije	P	2	andrew	pije2	1/4/2019	1/7/2019	
pspe	P	2	andrew	pspe2	1/4/2019	1/7/2019	
scvw	P	3	andrew	scvw3	1/4/2019	1/7/2019	
pipo	P	1	andrew	pipo1	1/5/2019	1/7/2019	
pisf	P	1	andrew	pisf1	1/5/2019	1/7/2019	
pist	P	1	andrew	pist1	1/5/2019	1/7/2019	
piwa	P	2	andrew	piwa2	1/5/2019	1/7/2019	
pmup	P	2	andrew	pmup2	1/5/2019	1/7/2019	
psmf	P	2	andrew	psmf2	1/5/2019	1/7/2019	
segi	P	2	andrew	segi2	1/5/2019	1/7/2019	
tabr	P	2	andrew	tabr2	1/5/2019	1/7/2019	
taca	P	3	andrew	taca3	1/5/2019	1/7/2019	
tadm	P	3	andrew	tadm3	1/5/2019	1/7/2019	
tscj	P	3	andrew	tscj3	1/5/2019	1/7/2019	
jswb	P	1	andrew	jswb1	1/7/2019	1/8/2019	
juco	P	2	andrew	juco2	1/7/2019	1/8/2019	
jusb	P	2	andrew	jusb2	1/7/2019	1/8/2019	
mgmg	P	1	andrew	mgmg1	1/7/2019	1/8/2019	
pfvp	P	3	andrew	pfvp3	1/7/2019	1/8/2019	
piab	P	1	andrew	piab1	1/7/2019	1/8/2019	
picc	P	2	andrew	picc2	1/7/2019	1/8/2019	
pini	P	2	andrew	pini2	1/7/2019	1/8/2019	
piog	P	2	andrew	piog2	1/7/2019	1/8/2019	
pipo	P	2	andrew	pipo2	1/7/2019	1/8/2019	
pipu	P	2	andrew	pipu2	1/7/2019	1/8/2019	
pisf	P	2	andrew	pisf2	1/7/2019	1/8/2019	
abam	P	2	andrew	abam2	1/8/2019	1/8/2019	
ceag	P	3	andrew	ceag3	1/8/2019	1/8/2019	
cehp	P	1	andrew	cehp1	1/8/2019	1/8/2019	
choc	P	2	andrew	choc2	1/8/2019	1/8/2019	
cunj	P	2	andrew	cunj2	1/8/2019	1/8/2019	
cunp	P	2	andrew		1	1/8/2019	1/9/2019
jcsf	P	1	andrew		2	1/8/2019	1/9/2019
jswb	P	2	andrew		3	1/8/2019	1/9/2019
juco	P	3	andrew		4	1/8/2019	1/9/2019
mgmg	P	3	andrew		5	1/8/2019	1/9/2019
phvl	P	3	andrew		7	1/8/2019	1/9/2019
piab	P	3	andrew		8	1/8/2019	1/9/2019

piar	P	3	andrew		9	1/8/2019	1/9/2019
piba	P	3	andrew		10	1/8/2019	1/9/2019
picc	P	3	andrew		11	1/8/2019	1/9/2019
pico	P	2	andrew		12	1/8/2019	1/9/2019
pied	P	3	andrew		6	1/8/2019	1/9/2019
choc	P	3	andrew		1	2/1/2019	2/1/2019
cunj	P	3	andrew		2	2/1/2019	2/1/2019
cunp	P	3	andrew		3	2/1/2019	2/1/2019
jusb	P	3	andrew		6	2/1/2019	2/1/2019
abal	O	1	david	abal1		2/15/2019	2/16/2019
akgc	O	1	david	akgc1		2/15/2019	2/16/2019
jcsq	P	2	andrew	jcsq2		2/15/2019	2/18/2019
mgmg	P	2	andrew	mgmg2		2/15/2019	2/18/2019
pfvp	P	2	andrew	pfvp2		2/15/2019	2/18/2019
pico	P	3	andrew	pico3		2/15/2019	2/18/2019
pije	P	3	andrew	pije3		2/15/2019	2/18/2019
pini	P	3	andrew	pini3		2/15/2019	2/18/2019
piog	P	3	andrew	piog3		2/15/2019	2/18/2019
pipo	P	3	andrew	pipo3		2/15/2019	2/18/2019
pipu	P	3	andrew	pipu3		2/15/2019	2/18/2019
pisf	P	3	david	pisf3		2/15/2019	2/18/2019
pist	P	2	david	pist2		2/15/2019	2/18/2019
piwa	P	3	david	piwa3		2/15/2019	2/18/2019
pmup	P	3	andrew	pmup3		2/15/2019	2/18/2019
psmf	P	3	andrew	psmf3		2/15/2019	2/18/2019
pspe	P	1	david	pspe1		2/15/2019	2/18/2019
segi	P	3	andrew	segi3		2/15/2019	2/18/2019
akhs	O	1	andrew			3/1/2019	
cagp	P	1	andrew	cagp		3/1/2019	3/6/2019
cdcp	O	1	andrew			3/1/2019	
cdss	O	1	andrew			3/1/2019	
celi	P	1	andrew	celi		3/1/2019	3/6/2019
jccm	O	1	andrew			3/1/2019	
jsba	O	1	andrew			3/1/2019	
jscq	O	1	andrew			3/1/2019	
jvgc	O	1	andrew			3/1/2019	
pars	O	1	andrew			3/1/2019	
pasc	O	1	andrew			3/1/2019	
pian	P	1	andrew	pian		3/1/2019	3/6/2019
piap	O	1	david	piap1		3/1/2019	
pinh	O	1	david	pinh1		3/1/2019	
pinp	O	1	david	pinp1		3/1/2019	
piph	O	1	david	piph1		3/1/2019	
pipm	O	1	david	pipm1		3/1/2019	
pipp	O	1	david	pipp1		3/1/2019	
cagp	P	2	andrew	cagp2		3/30/2019	4/3/2019
cagp	P	3	andrew	cagp3		3/30/2019	4/3/2019
celi	P	2	andrew	celi2		3/30/2019	4/3/2019

celi	P	3	andrew	celi3	3/30/2019	4/3/2019
pian	P	2	andrew	pian2	3/30/2019	4/3/2019
pian	P	3	andrew	pian3	3/30/2019	4/3/2019
psme	P	1	andrew	PSME1	3/30/2019	4/3/2019
psme	P	2	andrew	PSME2	3/30/2019	4/3/2019
psme	P	3	andrew	PSME3	3/30/2019	4/3/2019
thod	P	1	andrew	thod1	3/30/2019	4/3/2019
thod	P	2	andrew	thod3	3/30/2019	4/3/2019
thod	P	3	andrew	thod3	3/30/2019	4/3/2019
abal	O	2				
abal	O	3				
abpa	P	1				
akgc	O	2				
akgc	O	3				
akhs	O	2				
akhs	O	3				
cdcp	O	2				
cdcp	O	3				
cdss	O	2				
cdss	O	3				
jccm	O	2				
jccm	O	3				
jsba	O	2				
jsba	O	3				
jsc	O	2				
jsc	O	3				
jswb	P	3	andrew			
jvgc	O	2				
jvgc	O	3				
pars	O	2				
pars	O	3				
pasc	O	2				
pasc	O	3				
piap	O	2				
piap	O	3				
pinh	O	2				
pinh	O	3				
pinp	O	2				
pinp	O	3				
piph	O	2				
piph	O	3				
pipm	O	2				
pipm	O	3				
pipp	O	2				
pipp	O	3				
pisp	O	1				
pisp	O	2				
pisp	O	3				

pist	P	3
pisy	O	1
pisy	O	2
pisy	O	3
pizs	O	1
pizs	O	2
pizs	O	3
plif	O	1
plif	O	2
plif	O	3
pmgg	O	1
pmgg	O	2
pmgg	O	3
ponc	O	1
ponc	O	2
ponc	O	3
ppsd	O	1
ppsd	O	2
ppsd	O	3
psgf	O	1
psgf	O	2
psgf	O	3
psgv	O	1
psgv	O	2
psgv	O	3
pspe	P	3
sgpb	O	1
sgpb	O	2
sgpb	O	3
sgvm	O	1
sgvm	O	2
sgvm	O	3
tamd	O	1
tamd	O	2
tamd	O	3
tdcf	O	1
tdcf	O	2
tdcf	O	3



mass (g)	volume (ml)	viola	neo	6.3 peak	anthera	lutein
0.0263	0.67	77.056	79.815		28.226	398.179
0.0284	0.70	136.83	187.348		19.673	821.046
0.0284	0.71	73.934	74.187		11.947	364.466
0.0284	0.71	96.501	73.296		46.816	464.384
0.0281	0.70	251.0876	273.862		10.513	1572.841
0.0252	0.69	186.954	152.531		70.271	1021.101
0.0286	0.68	101.988	137.913		23.626	784.525
0.0265	0.73	110.21	132.16		77.817	682.73
0.0282	0.72	167.523	156.069		24.707	778.292
0.0266	0.83	90.242	36.381		11.946	465.612
0.0266	0.83	119.907	32.873		12.9	475.054
0.0285	0.85	69.672	13.088		20.682	230.28
0.0253	0.83	109.508	25.588		20.635	449.472
0.0271	0.81	141.022	27.919		11.529	535.371
0.0281	0.81	88.716	42.957		31.199	592.465
0.0280	0.89	203.01	35.219		52.65	709.265
0.0280	0.74	94.42	69.225		50.82	746.17
0.0274	0.73	77.253	62.58		50.034	493.346
0.0278	0.71	44.522	58.285		19.457	375.163
0.0260	0.65	18.543	28.493		15.711	357.388
0.0273	0.67	50.564	92.523		23.954	731.195
0.0292	0.71	26.287	47.711		35.351	528.237
0.0267	0.71	287.238	116.827		14.766	1269.74
0.0271	0.72	29.572	95.497		16.334	1008.223
0.0283	0.70	126.913	69.303		30.931	694.706
0.0288	0.71	183.76	73.137		54.37	689.992
0.0285	0.70	247.246	98.137		25.0211	672.132
0.0273	0.73	58.906	31.243		19.747	363.077
0.0264	0.74	123.907	73.825		16.64	528.266
0.0276	0.73	121.055	41.617		30.4	336.147
0.0282	0.72	157.654	55.312		1.997	489.073
0.0274	0.72	142.109	69.024		44.075	532.488
0.0264	0.73	339.884	90.102		133.026	982.783
0.0255	0.69	234.678	86.822		36.927	652.931
0.0272	0.67	268.696	164.427		23.853	1204.243
0.0263	0.69	131.12	47.339		27.621	419.096
0.0272	0.69	152.626	50.244		7.794	557.956
0.0276	0.71	215.693	70.98		91.18	641.849
0.0284	0.72	247.836	96.883		19.668	709.621
0.0260	0.71	71.6	38.101		21.163	382.377
0.0264	0.66	243.611	135.508	25.718	25.974	759.447
0.0281	0.64	140.687	113.582	43.968	10.733	639.84
0.0289	0.63	213.441	187.563	55.305	24.179	1025.071
0.0290	0.63	139.586	115.441	59.707	16.318	632.203
0.0292	0.63	412.658	366.322	24.716	49.566	1610.842
0.0294	0.64	168.209	147.495	26.285	107.274	774.356
0.0267	0.62	176.084	120.721	33.892	23.453	735.605

0.0262	0.64	35.868	37.461	29.393	11.173	303.094
0.0255	0.61	221.697	146.909	21.344	34.983	859.509
0.0282	0.67	159.042	151.929	69.39	23.261	901.568
0.0294	0.65	270.996	143.465	47.434	25.393	745.631
0.0277	0.63	284.487	166.624	6.472	42.648	902.268
0.0304	0.88	158.4256	129.576	20.309	23.156	615.988
0.0280	0.86	205.808	118.953	25.536	26.642	634.689
0.0260	0.88	169.83	159.452	26.7433	20.317	720.937
0.0280	0.85	115.691	88.981	28.797	12.291	402.819
0.0270	0.84	165.307	136.9	18.411	19.237	681.64
0.0270	0.86	41.4127	30.132	24.739	12.231	258.6646
0.0270	0.91	261.884	184.953	22.047	15.984	692.268
0.0280	0.92	143.599	73.352	8.705	28.336	451.605
0.0260	0.91	128.1937	122.135		75.234	591.061
0.0260	0.89	185.386	187.476		8.575	746.291
0.0260	0.91	213.3143	157.807		69.709	749.773
0.0260	0.85	169.9745	114.526		31.882	505.203
0.0260	0.89	213.721	163.142		29.876	631.909
0.0300	0.92	244.234	289.015		23.171	1122.62
0.0290	0.92	168.277	147.051		6.525	754.839
0.0290	0.94	203.049	250.783		13.597	1366.42
0.0280	0.92	188.357	169.051	30.301	61.425	985.987
0.0260	0.92	108.253	115.274		16.164	619.121
0.0260	0.91	93.134	66.845		11.264	400.584
0.0270	0.91	207.603	174.345	24.704	11.917	775.981
0.0290	0.87	140.83	144.143	11.412	14.724	702.108
0.0300	0.91	223.891	138.138	24.804	34.201	767.777
0.0270	0.91	249.55	189.92	30.06	17.559	929.576
0.0290	0.87	167.031	139.493	29.283	11.762	580.282
0.0280	0.89	151.556	116.699	24.256	19.424	581.256
0.0260	0.92	234.533	293.043	36.71	20.365	1056.631
0.0300	0.87	239.936	213.656	33.88	27.701	928.192
0.0270	0.91	116.53	125.121	50.488	20.825	698.768
0.0270	0.89	111.106	116.064	28.299	52.536	586.749
0.0280	0.87	158.791	133.366	37.988	15.237	610.637
0.0250	0.90	142.889	139.182	41.069	19.64	634.9
0.0270	0.91	84.746	119.748	39.279	16.493	508.681
0.0250	0.89	97.572	92.545	30.763	33.554	543.643
0.0280	0.91	276.211	192.284	70.34	50.702	1061.104
0.0280	0.87	76.945	172.18	23.038	54.339	828.616
0.0300	0.90	104.66	115.881	37.355	36.017	561.281
0.0290	0.90	37.876	79.141	20.947	33.362	443.1572
0.0270	0.95	13.286	18.939	7.608	9.914	145.132
0.0260	0.94	70.358	156.635	43.231	8.993	708.84
0.0290	0.90	56.348	141.936	24.861	10.587	667.521
0.0260	0.94	81.899	141.838	36.17	19.746	656.307
0.0260	0.91	64.886	116.441	24.806	10.199	490.106
0.0280	0.95	106.278	130.668	34.343	16.688	589.694

0.0250	0.89	100.018	166.003	26.877	7.417	655.089
0.0280	0.92	65.354	72.292	22.329	6.943	331.796
0.0260	0.90	177.087	260.759	26.787	24.143	959.849
0.0260	0.91	80.469	125.898	18.513	86.725	556.893
0.0280	0.85	41.466	85.126	14.052	9.646	436.358
0.0273	0.92	94.999	157.903	32.835	23.501	729.131
0.0268	0.96	85.813	80.494	19.502	30.691	433.116
0.0283	0.94	78.858	75.573	18.875	24.69	467.475
0.0254	0.95	119.03	105.525	25.705	27.347	673.371
0.0264	0.64					
0.0274	0.68					
0.0280	0.94	47.505	20.718	7.032	10.213	207.242
0.0270	0.93					
0.0260	0.96	108.914	51.304	16.578	18.133	465.182
0.0270	0.86	47.994	137.754	0	31.588	918.341
0.0260	0.87	0	42.512	0	0	294.52
0.0260	0.87	190.268	67.416	14.906	17.521	643.707
0.0270	0.92	107.149	46.485	19.108	14.375	535.039
0.0285	0.90	140.356	59.033	18.803	63.096	569.029
0.0260	0.93	141.943	39.56	13.133	21.308	431.898
0.0272	0.65	177.999	88.695	31.343	26.355	842.686
0.0270	0.68	210.935	80.48	37.803	83.026	812.401
0.0272	0.66	143.751	69.278	28.675	31.055	639.726
0.0283	0.90	159.718	61.343	27.128	28.657	572.217
0.0263	0.87	141.926	91.583	14.013	17.118	811.34
0.0276	0.72	211.188	109.727	30.696	46.941	870.896
0.0293	0.91	101.994	33.556	15.829	20.432	488.955
0.0251	0.88	27.588	103.883	14.445	10.927	509.479
0.0288	0.94	73.751	186.845	8.19	20.13	813.341
0.0288	0.90	67.301	107.132	25.195	21.911	706.953
0.0270	0.71					
0.0259	0.68					
0.0256	0.65					
0.0273	0.78					
0.0283	0.67					
0.0273	0.64					
0.0296	0.88	112.17	119.959	23.069	16.329	565.375
0.0284	0.93	102.788	99.269	0	14.212	507.015
0.0271	0.87	145.82	124.292	22.492	23.839	568.048

0.0262	0.93	150.864	118.511	22.748	22.82	541.963
0.0271	0.88	91.846	93.659	22.617	26.178	643.081
0.0272	0.87	103.551	113.914	22.815	20.299	688.413
0.0269	0.92	95.524	116.087	27.282	31.502	852.093
0.0290	0.89	134.852	135.225	34.046	38.003	925.43
0.0272	0.93	137.495	125.27	32.476	28.593	833.266
0.0280	0.89	151.621	89.29	13.919	9.969	619.12
0.0273	0.92	130.101	60.671	12.368	9.813	459.573
0.0250	0.92	106.348	44.128	10.081	7.009	375.004



zea	chlb	chla	a car	b car
12.52	290.458	656.105	103.347	94.44
19.982	683.455	1344.239	175.803	220.506
11.681	246.137	600.36	101.672	62.214
31.9	306.854	529.166	17.79	112.307
39.759	1670.897	3079.085	338.753	377.467
50.929	612.694	1287.415	94.178	258.318
39.812	695.585	1280.563	138.777	331.266
55.052	729.998	1543.954	111.222	298.778
37.672	705.36	1304.32	34.27	240.803
42.9261	565.797	837.134	66.822	141.979
44.398	568.172	840.755	70.111	151.125
26.727	246.21	460.392	65.642	70.008
51.793	541.707	868.973	101.081	169.721
53.122	646.428	1212.654	161.217	122.105
68.106	435.392	463.791	82.719	188.142
84.268	836.5	1443.635	107.106	254.754
99.326	980.713	1631.393	203.335	149.472
66.731	505.345	973.567	69.968	146.047
36.781	297.874	612.233	54.271	84.477
31.377	384.861	826.248	35.863	115.315
59.605	989.458	1791.935	181.563	152.444
51.779	487.879	929.919	36.373	153.515
92.504	1635.069	2894.939	268.245	346.905
64.559	983.649	1828.109	179.344	193.927
63.434	710.303	1150.081	92.087	313.935
60.34	874.689	1717.648	149.091	273.976
57.051	684.08	1244.253	23.63	227.074
31.243	252.146	348.48	54.988	65.306
30.826	530.16	811.14	44.882	147.272
24.816	288.267	600.445	69.642	76.911
31.606	469.642	979.103	146.459	88.855
34.947	338.847	535.273	51.471	112.174
98.574	820.422	1538.205	109.541	268.904
43.154	650.421	1079.478	139.364	180.632
140.219	1105.335	2137.991	217.97	240.32
29.028	286.582	492.323	14.539	110.9
39.481	729.53	1150.102	87.972	181.45
67.061	767.246	1548.814	104.607	283.308
49.501	787.891	1369.372	44.416	220.749
29.94	264.812	353.405	63.232	67.511
26.61	610.666	1081.779	112.63	185.105
26.983	639.961	824.426	146.746	185.449
34.943	666.541	1020.79	161.516	259.097
17.932	606.922	835.251	115.938	221.128
34.54	1407.487	2717.396	353.406	370.797
58.348	651.738	1164.92	39.654	200.4076
24.147	598.66	936.038	114.978	235.347

12.019	109.514	138.7	0	79.239
30.341	739.411	1300.779	110.332	154.599
34.804	600.438	764.289	181.913	262.742
28.591	727.988	1326.979	299.892	200.74
81.3829	917.1742	1650.254	0	161.461
15.188	560.125	1016.143	133.454	215.711
25.36	429.224	917.877	122.842	221.378
14.711	504.693	923.673	146.7	217.952
0	371.68	627.427	105.123	164.759
9.995	557.444	979.127	112.655	227.069
7.143	94.594	155.058	0	72.181
7.443	635.217	1169.758	196.29	168.435
15.178	263.441	518.102	18.396	131.963
29.065	410.887	799.607	90.425	240.62
0	628.215	1191.93	214.385	183.297
37.432	547.712	1274.226	142.212	366.032
11.609	369.236	697.273	96	150.274
9.344	590.162	1210.698	128.778	312.549
0	914.601	1784.623	186.115	217.451
0	678.43	1307.64	133.959	242.0433
10.741	1347.201	2523.003	280.888	272.349
39.671	668.048	1413.103	131.985	256.271
19.5282	542.103	944.19	145.83	246.505
7.139	227.936	412.932	86.182	66.737
7.898	772.675	1491.89	168.049	155.483
8.137	661.878	1378.477	204.506	156.05
31.939	516.753	1143.807	81.893	278.106
15.776	818.202	1609.642	129.105	273.979
6.407	475.264	919.378	136.148	160.732
17.54	449.662	967.927	153.342	209.189
6.582	942.145	1850.162	277.049	289.81
9.734	799.449	1515.066	182.26	253.626
17.832	452.073	745.012	150.876	222.302
21.82	476.409	995.449	122.024	236.465
9.68	547.245	1099.039	258.672	163.921
12.416	481.55	1012.971	149.215	183.816
12.371	408.123	710.516	55.446	175.075
23.121	305.441	589.005	61.222	151.12
35.149	748.407	1536.736	156.378	323.27
48.302	758.9	1369.113	213.809	165.188
32.776	486.432	1012.279	111.245	176.429
26.56	271.472	646.392	70.526	108.668
7.909	87.708	238.905	23.409	49.974
0	658.992	1301.941	127.399	169.301
6.902	648.402	1304.408	184.52	134.078
11.845	595.32	1185.109	85.139	207.597
6.63	432.516	721.274	116.368	153.293
16.963	425.237	931.923	121.848	215.83

9.284	522.712	947.999	207.377	190.802
0	298.546	532.426	93.284	144.556
13.068	815.061	1600.822	233.278	271.39
39.853	466.78	901.35	37	220.435
7.068	341.417	571.682	102.158	136.854
10.825	674.36	1257.375	228.456	39.352
16.143	368.348	792.681	94.553	70.326
15.012	291.459	687.598	85.579	66.285
10.058	467.264	1069.973	85.726	133.295

0	186.883	429.167		
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27.032	371.825	667.403	70.366	132.796
86.868	858.973	874.999	57.362	319.981
21.458	109.636	66.693	0	87.645
43.188	697.177	1995.106	121.616	182.047
41.338	487.735	668.895	130.339	170.246
47.128	511.858	920.467	79.923	246.011
39.838	487.218	855.819	166.907	148.823
55.661	824.831	1499.153	179.799	211.041
73.158	658.648	1425.827	84.162	381.451
40.355	600.837	950.691	102.033	157.404
41.492	688.145	1244.772	125.144	283.543
48.756	812.082	1347.314	94.483	139.778
54.688	944.565	1551.15	201.645	202.524
41.785	659.927	1062.401	70.808	168.697

20.002	429.515	583.956	128.034	134.358
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39.181	928.002	1232.547	350.913	239.101
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41.826	653.432	886.591	195.838	156.987
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22.701	349.207	438.78	149.651	174.692
24.284	421.699	459.884	161.754	156.41
24.18	621.348	785.319	248.578	199.882



21.785	624.624	808.706	240.079	176.657
42.424	601.291	765.482	179.325	156.191
28.907	628.554	846.815	175.036	150.224
44.82	794.298	1335.58	68.804	314.983
49.275	848.939	1432.266	60.428	319.014
43.286	792.878	1252.517	79.181	301.793
29.379	655.06	1283.274	84.68	256.438
30.128	515.579	1003.728	54.248	210.413
21.881	442.071	871.321	48.814	168.307

























ID_code	Priority?	replicate	who dunnit?	tube label	prepped date
abam		P	1 andrew	abam1w	3/31/2019
abco		P	1 andrew	abco1w	3/31/2019
abpa		P	1 andrew	abpa1w	3/31/2019
jcsG		P	1 andrew	jcsG1w	3/31/2019
jswb		P	1 andrew	jswb1w	3/31/2019
juco		P	1 andrew	juco1w	3/31/2019
phvl		P	2 andrew	phvl2w	3/31/2019
piab		P	2 andrew	piab2w	3/31/2019
piar		P	2 andrew	piar2w	3/31/2019
piba		P	1 andrew	piba1w	3/31/2019
picc		P	1 andrew	picc1w	3/31/2019
pico		P	1 andrew	pico1w	3/31/2019
abco		P	2 andrew	abco2w	4/2/2019
abpa		P	2 andrew	abpa2w	4/2/2019
jcsG		P	2 andrew	jcsG2w	4/2/2019
jswb		P	2 andrew	jswb2w	4/2/2019
juco		P	2 andrew	juco2w	4/2/2019
pini		P	1 andrew	pini1w	4/2/2019
piog		P	1 andrew	piog1w	4/2/2019
pipo		P	1 andrew	pipo1w	4/2/2019
pspe		P	1 andrew	pspe1w	4/2/2019
scvw		P	1 andrew	scvw1w	4/2/2019
segi		P	1 andrew	segi1w	4/2/2019
abam		P	3 andrew	abam3w	4/3/2019
abco		P	3 andrew	abco3w	4/3/2019
abpa		P	3 andrew	abpa3w	4/3/2019
jcsG		P	3 andrew	jcsG3w	4/3/2019
jswb		P	3 andrew	jswb3w	4/3/2019
juco		P	3 andrew	juco3w	4/3/2019
piba		P	2 andrew	piba2w	4/3/2019
picc		P	2 andrew	picc2w	4/3/2019
pico		P	2 andrew	pico2w	4/3/2019
pini		P	2 andrew	pini2w	4/3/2019
piog		P	2 andrew	piog2w	4/3/2019
pipo		P	2 andrew	pipo2w	4/3/2019
cade		P	1 andrew	cade1w	4/4/2019
ceag		P	1 andrew	ceag1w	4/4/2019
choc		P	1 andrew	choc1w	4/4/2019
cunj		P	1 andrew	cunj1w	4/4/2019
cunp		P	1 andrew	cunp1w	4/4/2019
jusb		P	1 andrew	jusb1w	4/4/2019
phvl		P	1 andrew	phvl1w	4/4/2019
piab		P	1 andrew	piab1w	4/4/2019
piar		P	1	piar1w	4/4/19
pied		P	1 andrew	pied1w	4/4/2019
pije		P	1 andrew	pije1w	4/4/2019
pini		P	3 andrew	pini3w	4/4/2019

cade	P	2 David	cade2w	4/5/2019
ceag	P	2 David	ceag2w	4/5/2019
choc	P	2 David	choc2w	4/5/2019
cunj	P	2 David	cunj2w	4/5/2019
cunp	P	2 David	cunp2w	4/5/2019
jusb	P	2 David	jusb2w	4/5/2019
phvl	P	3 andrew	phvl3w	4/5/2019
piab	P	3 andrew	piab3w	4/5/2019
piar	P	3 andrew	piar3w	4/5/2019
piba	P	3 andrew	piba3w	4/5/2019
picc	P	3 andrew	picc3w	4/5/2019
pico	P	3 andrew	pico3w	4/5/2019
pipu	P	1 andrew	pipu1w	4/5/2019
pipu	P	2 David	pipu2w	4/5/2019
pisf	P	1 andrew	pisf1w	4/5/2019
pisf	P	2 David	pisf2w	4/5/2019
pist	P	1 andrew	pist1w	4/5/2019
pist	P	2 David	pist2w	4/5/2019
piwa	P	1 andrew	piwa1w	4/5/2019
piwa	P	2 David	piwa2w	4/5/2019
pmup	P	1 andrew	pmup1w	4/5/2019
pmup	P	2 David	pmup2w	4/5/2019
psme	P	1 andrew	psme1w	4/5/2019
psmf	P	1 andrew	psmf1w	4/5/2019
psmf	P	2 David	psmf2w	4/5/2019
pspe	P	2 andrew	pspe2w	4/5/2019
scvw	P	2 andrew	scvw2w	4/5/2019
segi	P	2 andrew	segi2w	4/5/2019
tabr	P	1 andrew	tabr1w	4/5/2019
taca	P	1 andrew	taca1w	4/5/2019
thob	P	1 andrew	thob1w	4/5/2019
thod	P	1 andrew	thod1w	4/5/2019
pspe	P	3 David	pspe3w	4/7/2019
scvw	P	3 David	scvw3w	4/7/2019
tabr	P	2 David	tabr2w	4/7/2019
taca	P	2 David	taca2w	4/7/2019
thob	P	2 David	thob2w	4/7/2019
thpw	P	1 David	thpw1w	4/7/2019
cade	P	3 andrew	cade3w	4/13/2019
ceag	P	3 andrew	ceag3w	4/13/2019
choc	P	3 andrew	choc3w	4/13/2019
cunj	P	3 andrew	cunj3w	4/13/2019
cunp	P	3 andrew	cunp3w	4/13/2019
jusb	P	3 andrew	jusb3w	4/13/2019
pied	P	3 andrew	pied3w	4/13/2019
pije	P	3 andrew	pije3w	4/13/2019
pipu	P	3 andrew	pipu3w	4/13/2019
pisf	P	3 andrew	pisf3w	4/13/2019

psme	P	2 andrew	psme2w	4/13/2019
thod	P	2 andrew	thod2w	4/13/2019
pied	P	2 andrew	pied2w	4/17/2019
pije	P	2 andrew	pije2w	4/17/2019
piog	P	3 andrew	piog3w	4/17/2019
pipo	P	3 andrew	pipo3w	4/17/2019
pist	P	3 andrew	pist3w	4/17/2019
piwa	P	3 andrew	piwa3w	4/17/2019
pmup	P	3 andrew	pmup3w	4/17/2019
psme	P	3 andrew	psme3w	4/17/2019
psmf	P	3 andrew	psmf3w	4/17/2019
segi	P	3 andrew	segi3w	4/17/2019
tabr	P	3 andrew	tabr3w	4/17/2019
taca	P	3 andrew	taca3w	4/17/2019
thob	P	3 andrew	thob3w	4/17/2019
thod	P	3 andrew	thod3w	4/17/2019
thpw	P	2 andrew	thpw2w	4/17/2019
thpw	P	3 andrew	thpw3w	4/17/2019
cagp	P	1 david	cagp1w	4/19/2019
cagp	P	2 david	cagp2w	4/19/2019
cagp	P	3 david	cagp3w	4/19/2019
celi	P	1 david	celi1w	4/19/2019
celi	P	2 david	celi2w	4/19/2019
celi	P	3 david	celi3w	4/19/2019
pian	P	1 david	pian1w	4/19/2019
pian	P	2 david	pian2w	4/19/2019
pian	P	3 david	pian3w	4/19/2019
abam	P	2	abam2w	
abal	O	1		
abal	O	2		
abal	O	3		
akgc	O	1		
akgc	O	2		
akgc	O	3		
akhs	O	1		
akhs	O	2		
akhs	O	3		
cdcp	O	1		
cdcp	O	2		
cdcp	O	3		
cdss	O	1		
cdss	O	2		
cdss	O	3		
cehp	P	1		
cehp	P	2		
cehp	P	3		
jccm	O	1		
jccm	O	2		

jccm	O	3
jsba	O	1
jsba	O	2
jsba	O	3
jsc	O	1
jsc	O	2
jsc	O	3
jvgc	O	1
jvgc	O	2
jvgc	O	3
mgmg	P	1
mgmg	P	2
mgmg	P	3
pars	O	1
pars	O	2
pars	O	3
pasc	O	1
pasc	O	2
pasc	O	3
pfvp	P	1
pfvp	P	2
pfvp	P	3
piap	O	1
piap	O	2
piap	O	3
pinh	O	1
pinh	O	2
pinh	O	3
pinp	O	1
pinp	O	2
pinp	O	3
pip	O	1
pip	O	2
pip	O	3
pipm	O	1
pipm	O	2
pipm	O	3
pipp	O	1
pipp	O	2
pipp	O	3
pisp	O	1
pisp	O	2
pisp	O	3
pisy	O	1
pisy	O	2
pisy	O	3
pizs	O	1
pizs	O	2



pizs	O	3
plif	O	1
plif	O	2
plif	O	3
pmgg	O	1
pmgg	O	2
pmgg	O	3
ponc	O	1
ponc	O	2
ponc	O	3
ppsd	O	1
ppsd	O	2
ppsd	O	3
psgf	O	1
psgf	O	2
psgf	O	3
psgv	O	1
psgv	O	2
psgv	O	3
sgpb	O	1
sgpb	O	2
sgpb	O	3
sgvm	O	1
sgvm	O	2
sgvm	O	3
tadm	P	1
tadm	P	2
tadm	P	3
tamd	O	1
tamd	O	2
tamd	O	3
tdcf	O	1
tdcf	O	2
tdcf	O	3
tscj	P	1
tscj	P	2
tscj	P	3

run date	mass (g)	volume (ml)	viola	neo	63	anthera
4/3/2019	0.0290	0.93	60.574	54.298		51.637
4/3/2019	0.0265	0.94	19.54	20.207		66.362
4/3/2019	0.0267	0.88	21.88	21.375	0	38.112
4/3/2019	0.0278	0.92	58.558	27.947		31.142
4/3/2019	0.0263	0.92	60.087	78.163		66.04
4/3/2019	0.0263	0.91	94.282	60.299		132.929
4/3/2019	0.0274	0.95	31.873	38.499		35.412
4/3/2019	0.0272	0.92	52.522	34.808		86.661
4/3/2019	0.0286	0.93	52.374	78.142		83.953
4/3/2019	0.0280	0.94	82.817	47.315	31.183	31.183
4/3/2019	0.0280	0.94	59.613	62.725	0	126.763
4/3/2019	0.0269	0.90	81.515	44.556		45.118
4/12/2019	0.0272	0.93	27.481	17.801	0	79.987
4/12/2019	0.0272	0.95	31.339	28.149	0	62.501
4/12/2019	0.0266	0.91	68.438	23.579	6.787	29.295
4/12/2019	0.0278	0.93	89.551	69.993	5.944	73.676
4/12/2019	0.0259	0.90	114.236	59.872	9.583	121.339
4/12/2019	0.0259	0.93	38.389	41.327	5.047	39.305
4/12/2019	0.0288	0.94	47.642	45.999	10.401	64.092
4/12/2019	0.0277	0.88	41.941	39.132	11.761	48.126
4/12/2019	0.0291	0.92	66.595	47.866	15.877	125.748
4/12/2019	0.0247	0.92	21.749	21.671	5.32	52.414
	0.0271	0.91				
4/12/2019	0.0293	0.94	56.24	65.186	0	47.677
4/12/2019	0.0286	0.93	25.241	24	0	74.1
4/12/2019	0.0286	0.92	47.873	46.002	5834	53.429
4/12/2019	0.0283	0.92	70.605	28.268	12.742	30.065
4/12/2019	0.0260	0.93	73.943	71.06	11.986	65.047
4/12/2019	0.0263	0.91	82.782	77.749	20.134	136.63
4/12/2019	0.0291	0.92	47.65	41.067	18.262	30.778
4/12/2019	0.0272	0.89	42.996	54.871	7.067	91.581
4/12/2019	0.0272	0.90	40.722	31.314	11.986	32.418
4/12/2019	0.0295	0.90	43.68	56.494	0	49.729
4/12/2019	0.0290	0.93	30.837	34.885	6.26	65.379
4/12/2019	0.0270	0.90	37.617	35.582	9.82	30.583
4/12/2019	0.0288	0.93	50.725	47.238	10.938	105.328
4/12/2019	0.0270	0.93	43.163	40.697	10.879	60.802
4/12/2019	0.0267	0.95	64.404	46.556	28.117	65.037
4/12/2019	0.0297	0.93	23.995	35.226	6.561	70.156
4/12/2019	0.0256	0.91	20.945	20.084	7.222	58.641
4/12/2019	0.0293	0.89	63.046	38.221	25.107	25.504
4/12/2019	0.0263	0.9	33.138	44.681	0	25.087
4/12/2019	0.0276	0.86	42.992	35.777	13.27	60.379
4/12/2019	0.0254	0.91	41.679	61.051	7.858	48.455
4/12/2019	0.0281	0.90	44.195	39.688	13.167	40.518
4/12/2019	0.0275	0.90	0	10.535	0	31.974
4/12/2019	0.0283	0.87	46.229	54.527	60.24	51.362

4/12/2019	0.0262	0.66	56.594	98.331	13.972	99.587
4/12/2019	0.0265	0.70	32.28	60.423	8.002	47.14
4/12/2019	0.0261	0.68	73.648	88.715	48.599	54.871
4/12/2019	0.026	0.65	26.484	49.767	11.437	78.814
4/12/2019	0.0273	0.65	19.998	42.049	6.6	60.726
4/12/2019	0.0274	0.70	71.528	80.048	36.893	34.317
4/12/2019	0.0262	0.90	26.514	26.685	0	24.145
4/12/2019	0.0275	0.92	27.735	20.952	8.384	45.109
4/12/2019	0.0266	0.90	40.6	39.521	8.096	42.79
4/12/2019	0.0273	0.87	28.475	25.156	12.417	17.901
4/12/2019	0.0273	0.89	31.751	38.143	5.671	60.928
4/12/2019	0.0288	0.90	32.57	24.175	13.906	29.008
4/12/2019	0.0275	0.93	37.497	24.783	12.222	83.777
4/12/2019	0.0261	0.70	46.835	72.634	13.733	109.699
4/12/2019	0.0278	0.89	40.085	43.987	5.324	40.229
4/12/2019	0.0253	0.69	32.196	72.814	0	37.469
4/12/2019	0.0290	0.89	26.001	34.075	0	49.62
4/12/2019	0.0261	0.67	24.453	73.112		59.268
4/12/2019	0.0293	0.88	10.826	14.057	0	14.236
4/12/2019	0.0252	0.68	0	15.034	0	20.73
4/12/2019	0.0281	0.86	39.143	30.032	11.868	40.232
	0.0268	0.66	37.644	72.921	10.424	54.866
4/12/2019	0.0262	0.91	26.792	33.189	0	22.631
4/12/2019	0.0283	0.90	81.029	101.816	23.981	94.741
	0.0269	0.69				
4/12/2019	0.0261	0.89	62.906	34.07	19.534	97.991
4/12/2019	0.0279	0.91	29.193	13.929	9.412	43.463
	0.0263	0.90				
4/12/2019	0.0284	0.91	217.19	73.801	81.024	48.53
4/12/2019	0.0271	0.91	109.769	35.171	37.784	73.052
4/12/2019	0.0287	0.90	141.178	39.834	51.339	67.61
4/12/2019	0.0258	0.91	95.466	22.015	34.034	71.616
	0.0273	0.70				
	0.0260	0.75				
	0.0285	0.72				
	0.0251	0.75				
	0.0262	0.72				
	0.0291	0.70				
	0.0274	0.88				
	0.0277	0.88				
	0.0282	0.86				
	0.0274	0.89				
	0.0287	0.90				
	0.0270	0.91				
	0.0260	0.90				
	0.0296	0.90				
	0.0265	0.90				
	0.0274	0.89				

	0.0260	0.90				
	0.0276	0.89				
	0.0272	0.90				
	0.0282	0.90				
	0.0282	0.92				
	0.0260	0.91				
	0.0275	0.92				
	0.0263	0.94				
	0.0291	0.90				
	0.0256	0.94				
4/12/2019	0.0276	0.90	60.873	41.542	22.623	61.706
	0.0262	0.92				
	0.0281	0.90				
	0.0267	0.90				
	0.0256	0.89				
	0.0255	0.94				
	0.0276	0.92				
	0.0282	0.92				
	0.0276	0.71				
	0.0280	0.70				
	0.0256	0.70				
	0.0270	0.69				
	0.0279	0.71				
	0.0276	0.69				
	0.0272	0.74				
	0.0284	0.69				
	0.0271	0.73				



