

IrisBG Coffee Chat

# Recording Propagations

Crowdsourcing Solutions to Tricky Propagation Questions

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# Propagation Stats

- 18,331 plants received (6,059 propagation plants)
- 8,530 plants to garden (4,207 propagation plants)
- 7,398 plants sold (2,025 propagation plants)
- 2,607 propagation plants exchanged (does not include seed)

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# Propagation Definitions

Propagation	PRP	Preparation	● Procedure
Propagation	PRC	Culturing	● Procedure
Propagation	PRS	Success	● Procedure
Propagation	PSS	Seed Sown	● Procedure
Propagation	PST	Cuttings Stuck	● Procedure
Propagation	PGE	Germination	● Procedure
Propagation	PFP	First Potting	● Procedure
Propagation	PRE	Repotted	● Procedure
Propagation	PSS	Seed Stratified	● Procedure
Propagation	RE	Received	● Procedure
Propagation	IN	Inventoried	● Procedure
Propagation	DI	Divided	● Procedure
Propagation	MO	Moved	● Procedure
Propagation	SPO	Spores Sown	● Procedure
Propagation	INS	Inspected	● Procedure
Propagation	ADD	Addition to Mass	● Procedure
Propagation	SP	Split	● Procedure
Propagation	AV	Available	● Procedure
Propagation	RE	Ready	● Procedure
Propagation	GC	Germination Count	● Procedure
Propagation	SST	Seed Stored	● Procedure
Propagation	Ver	Verification	● Procedure
Propagation	TRE	Treatment	● Procedure
Propagation	ACT	Action	● Procedure
Propagation	SP-G	Split- Garden	● Procedure
Propagation	SP-GA	Split- Given Away	● Procedure
Propagation	SP-EX	Split- Exchange	● Procedure

- Treatment
- Environment
- Medium
- Container

# Propagation

## Item Type

Code	Name	Kind	Image
P	Planting	Living	
R	Propagation	Living	
NL	Natural Lands	Living	

Item properties

Item no.	Current	20180309*A	<input checked="" type="checkbox"/>
Type*	Propagation		
References			
Cons. no.~	Cons. no.-2~	6152 (Prop#)	
Storage no.~	External ref.~		
Item ref. <input type="button" value="▼"/>			
Location			
Location code*	COOL• <input type="button" value="▼"/> <input type="button" value="S"/>		
Location name*	Greenhouse Coolers; Located at the back end of the Greenhouse Headhouse near Greenhouse #6 <input type="button" value="▼"/> <input type="button" value="S"/>		
Location ref.~	subref.~	<input type="button" value="▼"/> <input type="button" value="S"/> <input type="button" value="G"/> <input type="button" value="S"/>	
Location comments			
Coord. lat. x	long. y	<input type="button" value="▼"/> <input type="button" value="S"/> <input type="button" value="G"/>	
Coord. precision	Altitude	<input type="button" value="▼"/>	
Status			
Status*	Condition*	Moved <input type="button" value="▼"/>	
No. spec.	Matrilines	2 <input type="button" value="▼"/>	
Date~	Person~	10/28/2021	Rockwell, James <input type="button" value="▼"/>
Label type-1~ no.	status*	<input type="button" value="▼"/> <input type="button" value="..."/> <input type="button" value="S"/>	<input type="button" value="▼"/>
Label type-2~ no.	status*	<input type="button" value="▼"/> <input type="button" value="..."/> <input type="button" value="S"/>	<input type="button" value="▼"/>
Propagation			
Propagule	quantity	Plant <input type="button" value="▼"/> <input type="button" value="S"/>	
Treatment		<input type="button" value="▼"/> <input type="button" value="S"/>	
Environment		Cool/Moist 39F <input type="button" value="▼"/> <input type="button" value="S"/>	
Medium	1:1 Regular seedling mix/super coarse perlite <input type="button" value="▼"/> <input type="button" value="S"/>		
Container	Duration	2 quart pot <input type="button" value="▼"/> <input type="button" value="S"/>	
Failure	Comments	<input type="button" value="▼"/> <input type="button" value="S"/> <input type="button" value="G"/>	
Material			
Comments~		<input type="button" value="▼"/>	
Reg. init.	date	jfr	11/11/2021

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WC Seed

Accession: ° Taxon name: ° Family: °  
**20160457** **Lobelia siphilitica** **Campanulaceae**

Locality/origin: USA: Delaware, New Castle County, Mt. Cuba Center Natural Lands. (LO: Mt. Cuba Center), 39.777853 N | 75.638905 W

Save  
Delete...

Details Items (7) Parentage Images References Events (4)

Item no. °	Type °	Location °	Loc. ref. ~	Status °	Date ~	No. sp.	...
A	Propagation	COMPLETE•		Complete...	8/30/2021	0	
B	Propagation	COMPLETE•		Complete- T...	9/25/2017	108	
B	Propagation	GH•GH5•		Repotted	8/30/2017	108	
B	Propagation	GH•GH5•		Repotted	8/29/2017	108	
B	Propagation	GH•GH7•		First Potting	8/2/2017	108	
B	Propagation	GH•GH7•		Repotted	8/2/2017	108	
B	Propagation	GH•GH7•		Repotted	7/24/2017	1	
B	Propagation	GH•GH7•		Culturing	7/24/2017	1	
B	Propagation	GH•GH2•		Germination	7/5/2017	1	
B	Propagation	GH•GH2•		Repotted	6/24/2017	1	
B	Propagation	GH•GH2•		Preparation	6/24/2017	500	
B	Propagation	COOL•		Repotted	3/1/2017	1	
B	Propagation	GH•		Repotted	11/3/2016	1	
B	Propagation	GH•		Requested	9/12/2016	100	
C	Natural Lands	NATURAL LANDS•		Removed- ...	9/25/2017	108	
D	Planting	260-C•		Planted	7/22/2021	50	
E	Planting	210•		Mapped	9/2/2021	20	
F	Planting	235•		Planted	8/23/2021	mass	
G	Planting	235•		Planted	8/23/2021	mass	

Item properties

Item no.	Current	<b>20160457*A</b>	<input checked="" type="checkbox"/>
Type °		Propagation	
References			
Cons. no. ~	Cons. no.-2~		
Storage no. °	External ref. ~		
Item ref.			
Location			
Location code °	COMPLETE•		
Location name °	Complete		
Location ref. ~	subref. ~		
Location comments			
Coord. lat.  x	long.  y		
Coord. precision	Altitude		
Status			
Status °	Condition °	Complete- To Garden	
No. spec.	Matriline	0	
Date °	Person °	8/30/2021	Freedman, Scott
Label type-1 °	no. status °	MC4	1 OK
Label type-2 °	no. status °		
Propagation			
Propagule	quantity	Plant	
Treatment			
Environment			
Medium			
Container	Duration	50 deep plug tray 2" x 5"	
Failure	Comments		Remainder of plug...
Material			
Comments °	20 remaining plants removed from GH and planted in bed 21...		
Reg. init.	date	jfr	8/31/2021

Planted in NL

Planted in Garden

# Germination Data

Item Statuses:

Seed Sown  
Germination  
Germination Count

Items							
Item no. <sup>°</sup>	Type <sup>°</sup>	Location <sup>°</sup>	Loc. ref. <sup>~</sup>	Status <sup>°</sup>	Date <sup>~</sup>	No. sp.	...
A	Propagation	COMPLETE•		Removed- Exchange	6/10/2021	0	
A	Propagation	GH•GH8•		Split- Exchange	6/9/2021	6	
A	Propagation	318•		Moved	12/9/2020	8	
A	Propagation	316•		Split- Garden	9/28/2020	8	
A	Propagation	316•		Moved	8/19/2020	12	
A	Propagation	GH•GH5•		Repotted	7/28/2020	12	
A	Propagation	GH•GH5•		First Potting	7/6/2020	30	
A	Propagation	GH•GH1•		Germination Count	6/29/2020	2	
A	Propagation	GH•GH2•		Germination	6/6/2020	2	
A	Propagation	GH•GH2•		Seed Sown	6/3/2020	2	
A	Propagation	COOL•		Seed Stratified	3/11/2020	1	
A	Propagation	GH•		Received	1/27/2020	mass	
A	Propagation	GH•		Requested	1/1/2020	10	
B	Planting	173•		Mapped	3/17/2021	4	
B	Planting	173•		Planted	9/28/2020	4	

# Germination Data

It's a jumble!



5000

Family: ~		Save
Campanulaceae		Delete...
Item properties		
Item no.	Current	20160457*A
Type*	Propagation	
References		
Cons. no.*	Cons. no.-2~	
Storage no.*	External ref.*	
Item ref.		
Location		
Location code*	GH•GH1•	
Location name*	Greenhouse #1	
Location ref.*	subref.*	
Location comments		
Coord. lat. x	long. y	
Coord. precision	Altitude	
Status		
Status*	Condition*	Germination Count
No. spec.	Matrilines	
Date*	Person*	
Label type-1*	no.	st
Label type-2*	no.	se
Propagation		
Propagule	quantity	
Treatment		
Environment		
Medium		
Container	Duration	
Failure	Comments	
Material		
Comments~		
Reg. int.	date	plw
		7/6/2021

2 penpaks Germ. Mix: 04/03/21 Germ count - 800 germ of 600 seed = 133% (date in warm 03/01/21); Days to Germ count = 33; First Germ date was 03/12/21; Days to First Germ = 11  
Seed oversown and may not have been distributed evenly from Ziploc when sowing.  
Procedure repeated 2 penpaks 2:1 Germination mix/super coarse vermiculite: 04/03/21 Germ count - 475/600 = 79% (date in warm 03/01/21); Germ count = 33; First Germ date 03/12/21

# Questions to Consider

- What information is important to capture to track germination?
- How can we use IrisBG to best (or better) store this information? How do you use IrisBG differently?
- How can reports be used to pull out this information in a more usable format?



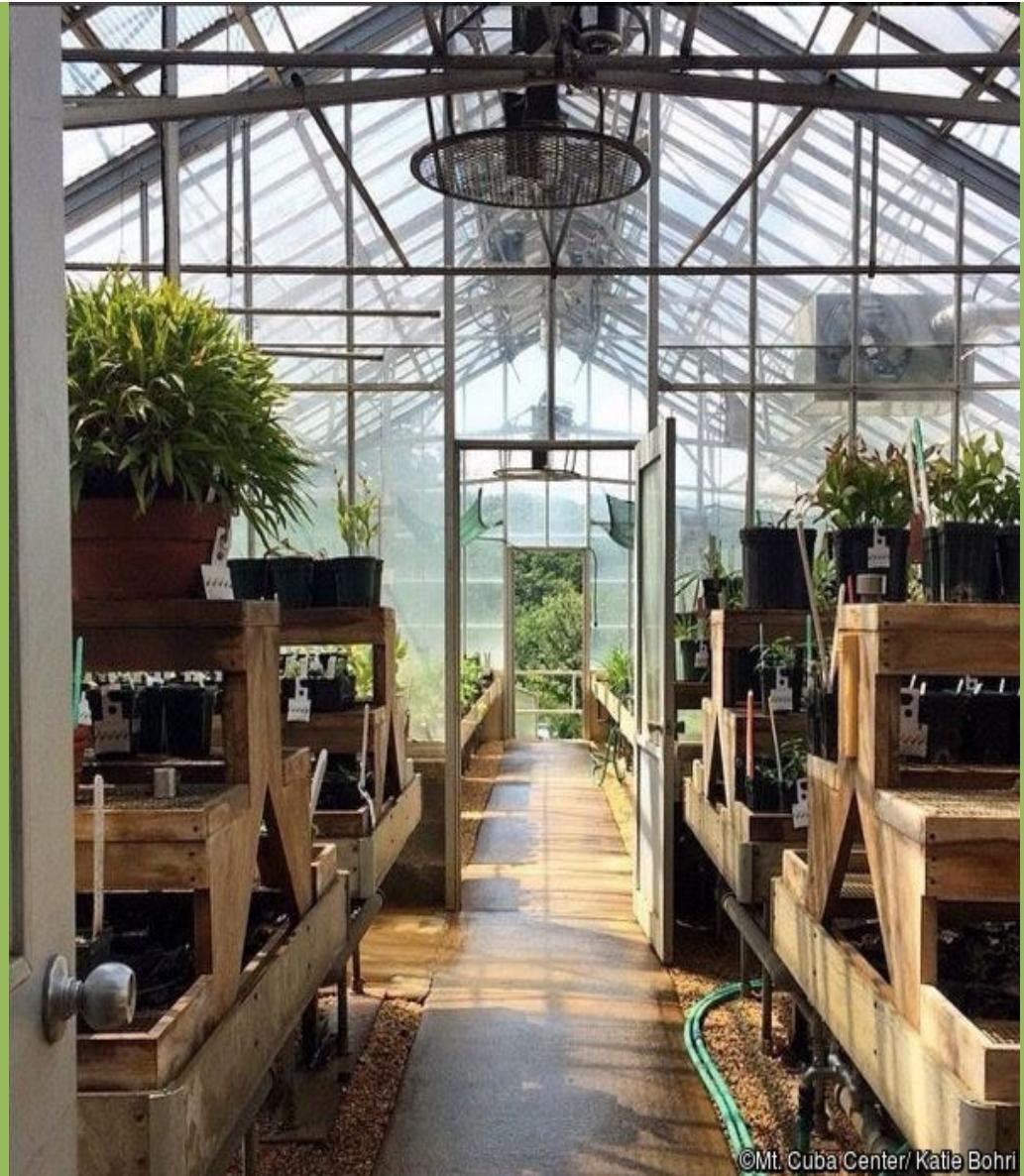
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# From Greenhouse to Garden

Item Statuses:

- Available
- Signed Out
- Split-Garden
- Complete-To Garden

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# Planting: Signed Out

Search result - group by **None**

Accession	Acc. y... /	Acc.... /	Type	Taxon name	Det.	Country	Project	Coll. no	Pop. no	Pop. sp.	Provenance	Material	A	T
20140363	2014	363		<i>Asplenium platyneuron</i>		USA					Wild	Spore (prop. mat.)		
20180373	2018	373		<i>Viola walteri 'Silver Gem'</i>							Garden - wild origin	Cutting (prop. mat.)		
U20190496	2019	496		<i>Sisyrinchium angustifolium</i>							Unrecorded	Plant (plant)		
20200050	2020	50		<i>Phlox subulata</i> ( <i>Phlox Trot™ Group</i> ) <i>Phlox Trot™ Pink</i>							Garden	Plant (plant)		
20200135	2020	135		<i>Carex pensylvanica</i>							Garden	Plant (plant)		
20200173	2020	173		<i>Gaylussacia baccata</i>							Garden	Plant (plant)		
20200200	2020	200		<i>Solidago 'Barseven'</i>							Garden	Plant (plant)		
20210030	2021	30		<i>Rhododendron austrinum "light yellow"</i>							Garden	Plant (plant)		
20210044	2021	44		<i>Physostegia virginiana 'Miss Manners'</i>							Garden	Plant (plant)		
20210090	2021	90		<i>Pinus taeda</i>							Garden	Plant (plant)		
20210096	2021	96		<i>Hydrangea arborescens</i> ( <i>Incrediball® Group</i> ) <i>'NCHA4'</i>							Garden	Plant (plant)		
20210228	2021	228		<i>Dryopteris marginalis</i>							Garden	Plant (plant)		
► 20210250	2021	250		<i>Dryopteris marginalis</i>							Garden	Plant (plant)		

Accession	Acc. y... /	Acc.... /	Type	Taxon name	Det.	Country	Project	Coll. no	Pop. no	Pop. sp.	Provenance	Material	A	T
D					Planting		260-B•				Planted	4/17/2019	15	
E					Planting		205*				Removed- Ind...	8/24/2020	3	
E					Planting		GH•				Signed Out	5/6/2020	3	
E					Planting		GH•				Moved	11/11/2019	3	
E					Planting		205				Planted	5/24/2019	9	
F					Planting		205*				Planted	5/24/2019	14	

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- For Planting Items
- Should not find any when searching!!

# Planting: Split

Accession: ~ <b>20200232</b>	Taxon name: ~ <b>Solidago nitida</b>	Family: ~ <b>Asteraceae</b>	<input type="button" value="Save"/> <input type="button" value="Delete..."/>																																																																																																																																																																																																									
Locality/origin: Almost Eden																																																																																																																																																																																																												
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# Propagation: Split-Garden

**Accessions**  
Manage collection accessions and items

Accession: **20200023** Taxon name: ***Collomia canadensis*** Family: **Lamiaceae**

Locality/origin: Toadshade

**Items (2)** Parentage (1) Images References Events (2)

Item no.	Type	Location	Loc. ref.	Status	Date	No. sp.
A	Propagation	COMPLETE•		Removed- Exc...	12/20/2021	0
A	Propagation	316•		Inventoried	11/22/2021	18
A	Propagation	316•		Split- Garden	11/9/2021	18
A	Propagation	316•		Reported	7/15/2021	48
A	Propagation	316•		Moved	5/11/2021	48
A	Propagation	GH•GH7•		Reported	4/30/2021	48
A	Propagation	318•		Moved	8/5/2020	49
A	Propagation	GH•GH4•		First Potting	7/13/2020	50
A	Propagation	GH•GH1•		Germination C...	7/6/2020	2
A	Propagation	GH•GH2•		Germination	6/12/2020	2
A	Propagation	GH•GH2•		Seed Sown	6/2/2020	2
A	Propagation	COOL•		Seed Stratified	3/23/2020	1
A	Propagation	COOL•		Received	3/17/2020	mass
A	Propagation	GH•		Requested	3/11/2020	76
B	Planting	191•		Addition to Mass	11/9/2021	121

**Item properties**

Type: Propagation

References

Location: Location code: 316•  
Location name: Lower Lath House that is across the drive from Greenhouse #2 and #3  
Location ref.: subref.  
Location comments:  
Coord. lat.|x| long.|y|  
Coord. precision|Altitude|

Status: Status: Split- Garden  
No. spec.: Matrilines 18  
Date: 11/9/2021 Person: Boss, Susan  
Label type-1: no. status: MC4  
Label type-2: no. status:  
Propagation: Propagule quantity Plant  
Treatment Environment Outside Ambient Temperature  
Medium Regular mix  
Container Duration 3 gallon pot  
Failure Comments:  
Material: Comments: 30 plants removed from GH and planted in bed 191, creating planting \*B  
Reg. init. date: jfr 9/7/2021

- For Propagation Items
- Remains in Item History

# Propagation: Complete- To Garden

Accession: ° Taxon name: ° Family: °  
**20200283** ***Clematis reticulata "subreticulata"*** **Ranunculaceae**

Locality/origin:  
 USA: Alabama, Bibb County, West banks of Cahaba River, along River Trace Road, west of road., 33.0833298 | -87.0648909

Save  
Delete...

Details Items (2) Parentage Images References Events (2)

Item no. °	Type °	Location °	Loc. ref. ~	Status °	Date ~	No. sp.	...
A	Propagation	COMPLETE•		Complete- To Garden	4/28/2021	0	
A	Propagation	318•		Moved	10/20/2020	1	
A	Propagation	GH•		Received	10/19/2020	1	
B	Planting	199•		Mapped	6/16/2021	1	
B	Planting	199•		Planted	4/28/2021	1	

Items properties

Item no. Current **20200283\*A**

Type ° Propagation

References

Cons. no. ° Cons. no.-2 °  
 Storage no. ° External ref. °  
 Item ref.

Location

Location code ° COMPLETE•  
 Location name ° Complete  
 Location ref. ° subref. °  
 Location comments    
 Coord. lat.|x long.|y    
 Coord. precision Altitude

Status

Status ° Condition ° Complete- To Garden   
 No. spec. Matriline 0   
 Date ° Person ° 4/28/2021 Hoadley, Sam   
 Label type-1 ° no. status ° MC4  1 OK   
 Label type-2 ° no. status °    
 Propagation

Propagule quantity Plant    
 Treatment    
 Environment Outside Ambient Temperature    
 Medium    
 Container Duration 2 gallon pot    
 Failure Comments

Material

Comments ° 1 plant removed from GH and planted in bed 199, creating planting \*B

- For Propagation Items
- Remains in Item History

# Questions to Consider

- There is a lot going on with our sign-outs. What could we do to limit the number of statuses that are being used or simplify our workflow?
- How often would you recommend running these audits?
- How does your garden manage plant movement into and out of the greenhouse?

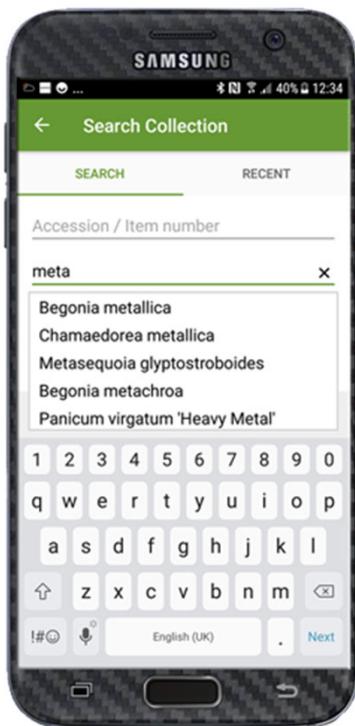


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# Managing a Live Inventory

Accession: ~ 20200025	Taxon name: ~ <b>Phlox paniculata 'Lavelle'</b>	Family: ~ <b>Polemoniaceae</b>	Save																																																																																																																																
Locality/origin: Mt. Cuba			Delete...																																																																																																																																
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# Managing a Live Inventory



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# Questions to Consider

- Do any of you track plant numbers in a rigorous way such as this? If so, how do you limit errors in number that seem to occur quite often for us?
- Does your garden use IrisBG on a tablet to utilize the database in the field? How does this help your efficiency?



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# Discussion Questions

## GERMINATION

- What information is important to capture to track germination?
- How can we use IrisBG to best (or better) store this information? How do you use IrisBG differently?
- How can reports be used to pull out this information in a more usable format?

## AUDITS

- What could we do to limit the number of statuses that are being used, or simplify our workflow?
- How often would you recommend running these audits?
- How does your garden manage plant movement into and out of the greenhouse?

## INVENTORY

- Do any of you track plant numbers in a rigorous way such as this? If so, how do you limit errors in number that seem to occur quite often for us?
- Does your garden use IrisBG on a tablet to utilize the database in the field? How does this help your efficiency?

# Thank You

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Julie Rotramel- Plant Recorder  
[jrotramel@mtcubacenter.org](mailto:jrotramel@mtcubacenter.org)

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