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Subject: RE: Phlox crossing
Date: Thu, 13 Jul 2006 07:56:29 -0400
From: "Wunderlin, Richard" <rwunder@chuma1.cas.usf.edu>
To: "Joanna Booth" <jbooth2301@yahoo.com>

Joanna:

You have technical questions for which I have no answers. I suggest that you contact the following person.

CAROLYN J. FERGUSON

Herbarium & Div of Biology
Ackert Hall
Kansas State University
Manhattan, KS 66506-4901 U.S.A.
Tel: 785-532-3166/6619
Fax: 785-532-6653
Website: www.ksu.edu/fergusonlab
Email: ferg@ksu.edu
Specialty: Systematics & evolution of Phlox (Polemoniaceae).

Richard P. Wunderlin, Ph.D.
Institute for Systematic Botany
Department of Biology
University of South Florida
Tampa, FL 33620-5200
Voice: 813-974-2359; fax: 813-974-3263
rwunder@cas.usf.edu

From: Joanna Booth [<mailto:jbooth2301@yahoo.com>]
Sent: Thu 7/13/2006 7:46 AM
To: Wunderlin, Richard
Subject: Phlox crossing

Dr. Wunderlin: I would like to get your opinion on the cross
pollinating of phlox varieties and the potential for hybridizing of phlox seed.

Will *P. drummundii* cross with *P. pilosa*?
Will *P. pilosa* cross with *P. divaricata* and or *paniculata*?

Is it safe to consider that the annual and perennial will not cross, but
the perennials might?

I think I am safe with the plant propagation through cuttings, per
species, but are there considerations I need to address in seed
collection of several different phlox species?

Which would be the best common name for *Phlox pilosa*: downy phlox or prairie phlox? Whom would you
suggest to visit the farm and look at the *pilosa* production material and advise me on the subspecies
distinctions? Perhaps in the fall or next spring.

Thank you ~Joanna Booth Salter Tree and Herb Farm 850-574-8367

Crosspollenating

YAHOO! MAIL

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From: "Carolyn J. Ferguson" <ferg@ksu.edu>
Subject: Re: Phlox crossing
Date: Fri, 21 Jul 2006 11:01:12 -0500
To: "Joanna Booth" <jbooth2301@yahoo.com>

Oh, well they won't likely cross that easily. Good luck!

Carolyn

On Jul 20, 2006, at 4:13 PM, Joanna Booth wrote:

> Thanks again, Carolyn - I guess I'm being obtuse. I don't want
> crossing to happen. I expect some crossing will happen if they are
> nearby to each other. I'm hoping that it will only be a small
> percentage that will cross and my seed production will not be
> seriously affected. Sounds like it is an unknown.... ~Joanna
>
> "Carolyn J. Ferguson" <ferg@ksu.edu> wrote: Dear Joanna,
>
> To be honest, I really don't know the answers to your breeding
> questions. You may be able to find a horticulturalist who could give
> you suggestions on Phlox. As an evolutionary biologist who focuses on
> Phlox, I can tell you the ones you mention are fairly closely related
> and they have been effectively crossed in experimental studies. For
> your work, I suspect you would have most luck crossing within a
> species
> (if you really want to effect interspecific crosses, yes, it is
> probably possible, but likely not easy--may not work reliably, won't
> yield lots of seed, may not be viable, etc.). You would probably be
> most satisfied with crossing different genetic stocks of Phlox
pilosa,
> e.g.
>
> I do have publications on Phlox (see
> www.ksu.edu/biology/bio/faculty/ferguson/ferguson.htm).
>
> I'm sorry I can't be of more help. Good luck with your
investigations!
>
> Carolyn
>
>
>
> On Thursday, July 20, 2006, at 06:17 AM, Joanna Booth wrote:
>
> > Carol, thank you for responding. It had occurred to me that you
> > may be
> > on vacation. Do you have any reports published on Phlox?
> >
> > In general your information below suggests some crossing is
> > possible.
> > Is that a small percentage of the total seed set? Would you
> > expect the
> > non-viable ones to be eliminated in cleaning? Are we talking

> about an
> > anomaly being created or a bunch of seeds that mix
> characteristics of
> > the two species? Thanks for helping with this. I need to get a
> handle
> > on how to produce seeds from several varieties. ~Joanna
> >
> > "Carolyn J. Ferguson" wrote:
> >
> > Dear Joanna,
> >
> > Sorry to be slow on responding to your message, I have been out of
> > town.
> >
> > I study Phlox extensively, but am not a breeder so I can't give
> you a
> > lot of advice on horticultural aspects. Phlox pilosa and P.
> > drummondii are fairly closely related and have been successfully
> > crossed (to study reproductive biology, not for cultivation
> purposes;
> > and I don't know if seeds produced are viable) with low seed set
> > (around 10%). Phlox pilosa can also be crossed with P. divaricata
> > (perhaps with slightly better seed set); as far as P. paniculata
> > goes, you might expect very low seed set, if any at all. I hope
this
> > helps.
> >
> > As far as common names are concerned, P. pilosa is called both
downy
> > phlox and prairie phlox (and has several other names as well)...one
> > is just as good as another.
> >
> > Good luck with your work!
> >
> > Carolyn Ferguson
> >
> >
> > On Jul 13, 2006, at 10:32 AM, Joanna Booth wrote:
> >
> > >
> > > Ms. Ferguson, Dr. Wunderlin at UF referred me to you for specific
> > > questions I have about Phlox pilosa. The correspondence is
> > > attached. I received a grant to R&D pilosa for growers and
markets
> > > in Florida. I'm sure I can benefit from your knowledge of the
> Phlox
> > > family. Are there any research results or publications that I can
> > > get? Can you help with the questions attached?
> > > Thank you for any time you can give this matter. ~Joanna Booth
> > >
> > > Salter Tree and Herb Farm
> > > PO Box 20066
> > > Tallahassee FL 32316
> > > 850-574-8367
> > >
> > > farm is located at Madison, FL
> > > Note: forwarded message attached.
> > >
> > > Do you Yahoo!?
> > > Next-gen email? Have it all with the all-new Yahoo! Mail Beta.

> > >
 > > > From: "Wunderlin, Richard"
 > > > Date: July 13, 2006 6:56:29 AM CDT
 > > > To: "Joanna Booth"
 > > > Subject: RE: Phlox crossing
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> > > Do you Yahoo!?
> > > Everyone is raving about the all-new Yahoo! Mail Beta.
> >
> > Carolyn J. Ferguson
> > Asst. Professor and
> > Curator of the Herbarium (KSC)
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> > Get on board. You're invited to try the new Yahoo! Mail Beta.
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