

THE LANCET Planetary Health

Supplementary appendix

This appendix formed part of the original submission and has been peer reviewed. We post it as supplied by the authors.

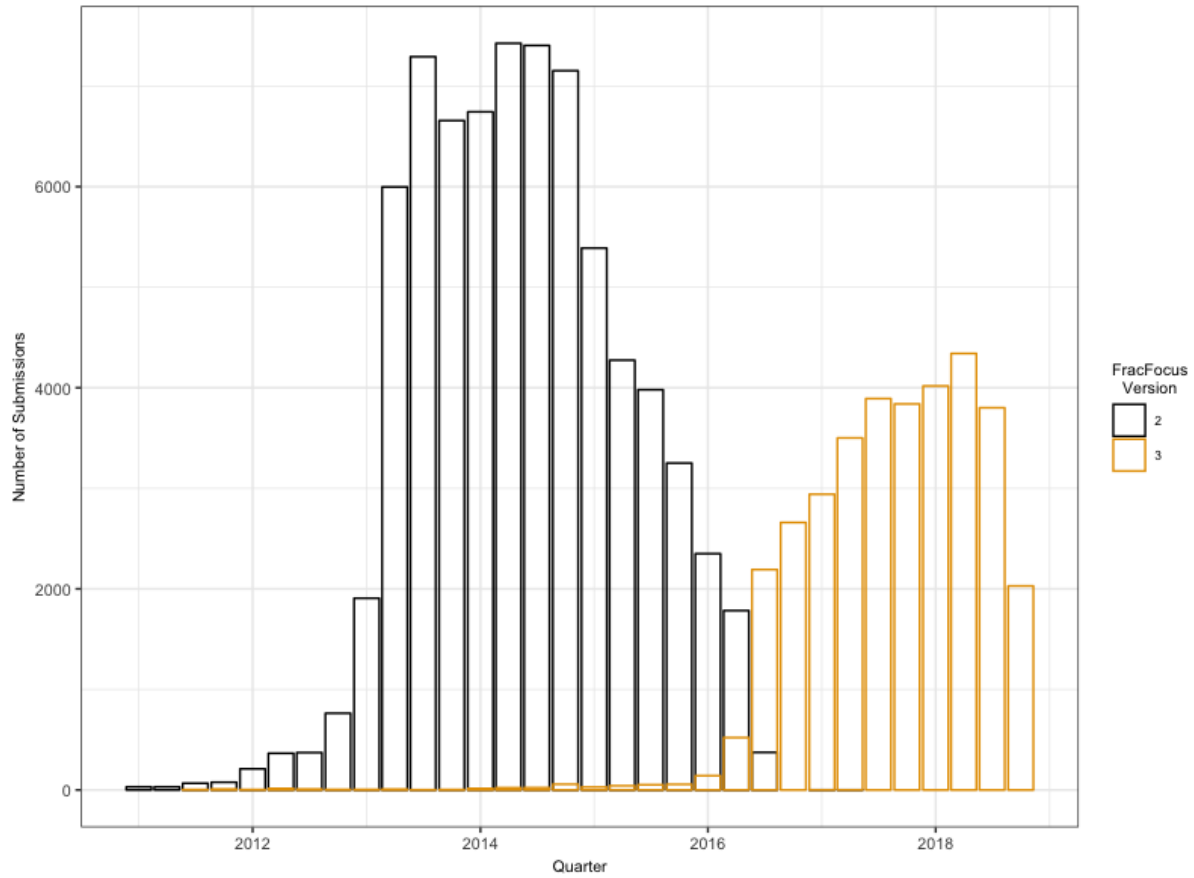
Supplement to: Trickey K, Hadjimichael N, Sanghavi P. Public reporting of hydraulic fracturing chemicals in the USA, 2011–18: a before and after comparison of reporting formats. *Lancet Planet Health* 2020; **4**: e178–85.

Supplementary Material

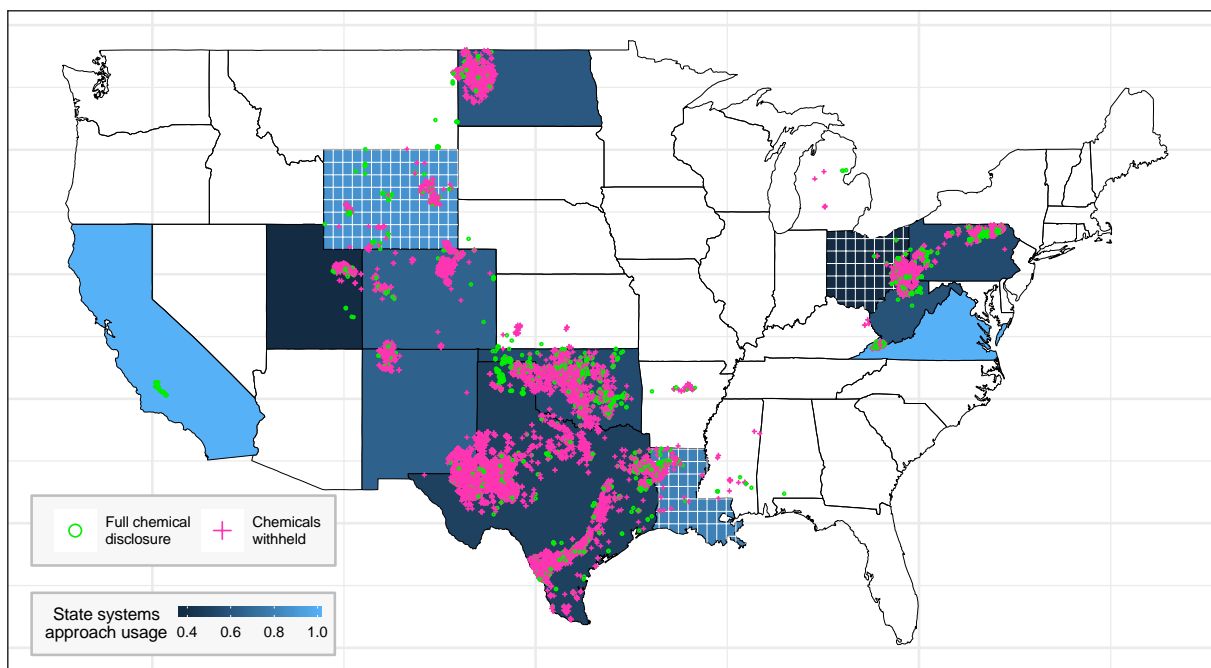
Supplementary Table 1: Summary of State Reporting Requirements to FracFocus.

State in FracFocus	FracFocus Requirement	Law Effective Date	Number of FracFocus version 3.0 Forms	Percent Systems Approach	Percent Withholding
AK	Yes	Jan. 7, 2015	45	97.8	46.7
AL	Yes	Aug. 9, 2013	1	0	0
AR	No	n/a	52	86.5	80.8
CA	Yes	Jul. 1, 2015*	370	100	0
CO	Yes	Apr. 1, 2012	3771	65.3	88.3
IL	No	n/a	0	n/a	n/a
IN	No	n/a	0	n/a	n/a
KS	Allow	Dec. 2, 2013	49	4.1	83.7
KY	Yes	Jun. 24, 2015	4	75	100
LA	Allow	Oct. 20, 2011	822	79.3	75.2
MI	Yes	Mar. 11, 2015	8	25	62.5
MS	Allow	Mar. 4, 2013	27	51.9	70.4
MT	Allow	Aug. 26, 2011	45	75.6	31.1
ND	Yes	Apr. 1, 2012	2792	60.3	91.1
NE	Yes	Jun. 15, 2014	2	50	50
NM	Yes	Feb. 5, 2012	1638	64.3	93.8
NV	Yes	Oct. 24, 2014	0	n/a	n/a
OH	Allow	Sep. 10, 2012	746	37.9	82.4
OK	Yes	Jul. 1, 2012	3931	54.1	82.3
PA	Yes	Apr. 16, 2012	1692	54.1	72.4
SD	Yes	Apr. 22, 2013	1	100	0
TX	Yes	Jan. 2, 2012	15616	48.8	89.1
UT	Yes	Nov. 1, 2012	514	37.5	76.3
VA	Yes	Dec. 28, 2016	281	100	49.4
WV	Yes	Jul. 1, 2013	662	57.6	75.7
WY	No	n/a	1151	87.1	80.4

Supplementary Table 1 Legend: States that appear in our dataset are listed along with a characterization of their representation in FracFocus version 3.0. States that have passed laws requiring disclosure to FracFocus are indicated in the “FracFocus Requirement” column, as well as states that allow FracFocus as one of multiple options for chemical disclosure. Law effective dates are also indicated. *On Jan. 1, 2016, California transitioned away from its FracFocus requirement to its own system.

Supplementary Figure 1: Empirical Transition Date Between FracFocus versions 2.0 and 3.0.

Supplementary Figure 1 Legend: Forms were binned by the “JobStartDate” column and plotted along the time axis. April 2016 was confirmed to be the transition date for the majority of submissions between FracFocus version 2.0 (black) and FracFocus version 3.0 (light orange).

Supplementary Figure 2: FracFocus version 3.0 Wells and Systems Approach Usage

Supplementary Figure 2 Legend: Submissions to FracFocus version 3.0 are plotted in magenta crosses if they withhold chemicals (88.7%), and green circles if they have complete disclosure (11.3%). States are colored by their systems approach usage, with lighter shades of blue indicating greater proportions of systems approach forms. States with fewer than 100 FF 3.0 forms were omitted from blue shading. Crosshatched states (Louisiana, Ohio, and Wyoming) are the only colored states that do not legally require submission to FracFocus.