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**1 Distribution of available Si in soils in relation with land uses types and soil erosion status in West Sumatra-Indonesia**

2

3

4 Afizar\*\* Edi Syafri Amrial Jamaluddin Trugjiradi Masruqah, Ahmad Fudholi

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10 43600 Bangi, Selangor, Malaysia

11 \*\*Correspondence Author: E-mail:afizar\_melafu@yahoo.com.

12

13 **Abstract**

14 Silicon (Si) is an important element for rice plant and its availability in soil is concerned

15 to be an important factor for sustainable rice production. Distribution of available Si were

16 investigated and discussed with land use types and soil erosion status estimated by

17 universal soil loss equation (USLE) in Sumatra watershed where a main rice producing

18 area in Sumatra, Indonesia. The results showed that available Si levels in savah soil was

19 less than 200 mg SiO<sub>2</sub>/kg in average. Savah is a term meaning a leveled and bounded

20 rice field with an inlet and an outlet for irrigation and drainage, respectively. Available Si

21 content in river sediments was also determined and was higher than those in savah or

22 other land uses. This might indicate that available Si or soil rich in Si availability was

23 redistributed through soil erosion. Soil erosion rate tended to be negatively correlated

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Mirjam Breure; Elise Van Eynde; Bas Kempen; Rob Comans; Ellis Hoffland

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HTM Perera; D.A.L. Leelamanie; Morihiro Maeda; Yasushi Mori

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Title: Geochemical methods for mapping available-Si distribution in soils in West Sumatra, Indonesia

Journal: Geoderma

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Judul: Metode geokimia untuk memetakan distribusi Si-tersedia di tanah di Sumatra Barat, Indonesia

Jurnal: Geoderma

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-

1. Table 2 averages the soil properties of the eight different land types in the basin, what is the significance? What problem do you want to explain? The experiment of exchangeable K, exchangeable Ca, exchangeable Na and other elements appears in Table 2, but it does not explain these research contents in the introduction, which seems a bit abrupt.

2. The subheadings 3.1 and 3.2 are not clear enough.

3. The location of the five catchment areas in the watershed in the 3D map is not clear enough.

## -Reviewer 2

-

I reviewed the paper titled “Geochemical methods for mapping available-Si distribution in soils in West Sumatra, Indonesia” by Aflizar, Edi Syafri and Ahmad Fudholi. Basically, this study is meaningful for the Si management in the rice field in Indonesia. The language is also good except some place need to be improved. However, the paper still has many shortcoming that need to improved.

The major comments see below:

- (1) The introduction section lacks a clear hypothesis. Moreover, the references in many places are also missing. So the introduction should be strengthened in why we conducted this study, which factors affects the distribution of Si, what are the present knowledge gap, what are your hypothesis, what are your research objective?
- (2) Figures in the materials and methods section should be give more explanation in the figure captions, which can allow the reader easily understand the contents of the figure if not read the text.
- (3) Results and discussion section: I suggest split the result and discussion into two section. One section is result, which can clearly demonstrate the findings of the study, and another section is discussion
- (4) Rewrite the conclusion, which should be clearly demonstrate the CONCLUSIONS based on the obtained results and discussion. The present conclusion description is not good because a part of contents are not the conclusions that this paper can make.
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## Attachments

### Geochemical methods for mapping available-Si distribution in soils in West Sumatra, Indonesia

Aflizar<sup>1\*</sup>, Edi Syafri<sup>1</sup>, Jamaluddin<sup>1</sup>, Husnain<sup>2</sup> Ahmad Fudholi<sup>3</sup>

<sup>1</sup>Department of Agricultural Technology, Agricultural Polytechnic, Payakumbuh, West Sumatra 26271, Indonesia

<sup>2</sup>Indonesian Agency for Agricultural Research and Development, Jakarta 12540-Indonesia

<sup>3</sup>Solar Energy Research Institute, Universiti Kebangsaan Malaysia,  
43600 Bangi, Selangor, Malaysia

\*Correspondence Author: aflizar\_melafu@yahoo.com.

## Abstract

Silicon (Si) is an important element for rice plant, and its availability in soil is an important factor affecting sustainable rice production. Herein, the distribution of available Si and its correlation with land-use type and soil-erosion status were investigated and discussed using the universal soil loss equation (USLE) in the Sumani watershed (SW). This watershed is the main rice-production area in Sumatra, Indonesia. Results showed that the available Si levels in sawah soil were less than 300 mg SiO<sub>2</sub> kg<sup>-1</sup> on average. Sawah means a leveled and bounded rice field with an inlet and an outlet for irrigation and drainage, respectively. Available Si content in river sediments was also studied and determined to be higher than those in sawah or other land-use types. This finding may indicate that available Si or soil rich in Si was redistributed through soil erosion. Soil-erosion rate was negatively correlated with the concentration of available Si in soils. Land-use types with smaller values of crop factor in USLE calculation and soil with lower pH showed relatively lower available Si in the soils. Overall, our findings indicated that soil erosion and land-use types affected the distribution of available Si in the watershed.

**Keywords:** Spatial analysis, land-use type, soil-erosion map, sawah, watershed, physicochemical properties

soil solution through an active mechanism (Ma et al. 2001; Ma et al. 2007). According to Wu et al. (2009) that the solubility of Si is influenced by pH and Fe.

For the sustainable land management of agriculture required soil indicators in the form of soil physical properties (texture or clay percentage, silt and sand) and soil chemical properties (pH, TC, TN, Ca, Mg, K and Na) (Hartemink. 1998). Wang et al. (2009) reported that the distribution patterns of TN, TP and other nutrients significantly changed due to changes in land use and distribution maps can be used to develop sustainable agriculture and improve the environment. Aflizar et al. (2018) reported that the distribution of Trace metal Cadmium (Cd) on a watershed scale was influenced by soil properties namely pH, texture, TC, erosion and topographic factors.

The Indonesian government does not believe and does not acknowledge that silica (Si) deficiency has occurred in paddy soils in Indonesia (Husnain et al. 2018; Darmawan et al. 2006) whereas we hypothesize that now there is a silica deficiency in the soil, especially in the Sumani watershed which could be overview for the condition of rice fields in Indonesia. Soil erosion is considered only as a carrier of adverse effects on the environment because it causes soil degradation and disasters for the environment and agriculture (Aflizar et al. 2010) we hypothesize that soil erosion also has a good effect on the environment because it carries nutrient-rich soil sediments and precipitates them in lowland rice fields.

Many farmers and agricultural practitioners in Indonesia assume that soil Si is not necessary for paddy sawah, so it is not important that Si is given in the form of artificial fertilizer (Husnain et al. 2018; Darmawan et al. 2006). Moreover, the soil is sufficient to provide naturally silica, we hypothesize that silica in the soil is no longer sufficient for paddy sawah at the moment but there is a large contribution of silica (Si) from irrigation water, river water (Somura et al. 2016) and sediments which add to sawah naturally to cover the lack of Si from the Soil. But now it is not enough anymore and need to be recommended to add silica (Si) in the form of fertilizer to the sawah soil.

The present study aimed to determine the factors influencing the distribution of available Si in SW where volcanic ash and Si fertilizer of irrigation water can be natural sources. **Our hypothesis**, In sawah soil, pH and total carbon (TC), **total nitrogen (TN)**, **base cation (Ca, K, Na)** and **trace metal iron (Fe)** can be the factors controlling Si availability. Accordingly, we conducted a study on the distribution of available Si in relation to land-

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I look forward to receiving your revised manuscript as soon as possible.

Kind regards,

Professor.Agnelli  
Senior Associate Editor  
Geoderma

### **Comments from the reviewers:**

#### **-Reviewer 1**

-

1. Table 2 averages the soil properties of the eight different land types in the basin, what is the significance? What problem do you want to explain? The experiment of exchangeable K, exchangeable Ca, exchangeable Na and other elements appears in Table 2, but it does not explain these research contents in the introduction, which seems a bit abrupt.
2. The subheadings 3.1 and 3.2 are not clear enough.
3. The location of the five catchment areas in the watershed in the 3D map is not clear enough.

#### **-Reviewer 2**

-

I reviewed the paper titled "Geochemical methods for mapping available-Si distribution in soils in West Sumatra, Indonesia" by Aflizar, Edi Syafri and Ahmad Fudholi. Basically, this study is meaningful for the Si management in the rice field in Indonesia. The language is also good except some place need to be improved. However, the paper still has many shortcoming that need to improved.

The major comments see below:

- (1) The introduction section lacks a clear hypothesis. Moreover, the references in many places are also missing. So the introduction should be strengthened in why we conducted this study, which factors affects the distribution of Si, what are the present knowledge gap, what are your hypothesis, what are your research objective?
- (2) Figures in the materials and methods section should be give more explanation in the figure captions, which can allow the reader easily understand the contents of the figure if not read the text.
- (3) Results and discussion section: I suggest split the result and discussion into two section. One section is result, which can clearly demonstrate the findings of the study, and another section is discussion

(4) Rewrite the conclusion, which should be clearly demonstrate the CONCLUSIONS based on the obtained results and discussion. The present conclusion description is not good because a part of contents are not the conclusions that this paper can make.

(5) Highlights should be rewritten, which need to deliver the key points of this study achieved.

The specific comments see the attached word file.

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### **Attachments**

Dear Editor Geoderma,

We cordially apologize for your any inconvenience.

Sir/Madam, we are very pleased to be able to communicate you.

We have revised our manuscript according your suggestion.

We would be happy to provide any additional information you may need regarding our manuscript.

Thank you again for your valuable time and kind consideration.

We will look forward your amiable reply

Sincerely yours

Aflizar Ph.D of Agriculture

Staf Pengajar

Politeknik Pertanian Negeri Payakumbuh

Jl. Raya Tanjung Pati KM 7, Kec. Harau

Sumatera Barat-Indonesia PO.BOX 107

Answer to

-Reviewer 1

Pertanyaan No. 1

1. Table 2 averages the soil properties of the eight different land types in the basin, what is the significance? What problem do you want to explain? The experiment of exchangeable K, exchangeable Ca, exchangeable Na and other elements appears in Table 2, but it does not explain these research contents in the introduction, which

Before

Table 2. General soil physicochemical properties in the Sumani watershed

	Mean	(Range)	SD	r <sub>a</sub>
Sand (%)	9.0	(0.4-58.0)	11	0.08
Very fine sand (%)	2.0	(0.4-9.0)	2	0.01
Silt (%)	55.0	(0.0-85.0)	20	0.02
Clay (%)	33.0	(9.0-95.0)	20	-0.05
Organic matter (g kg <sup>-1</sup> )	54.0	(21.0-111.0)	24	0.01
Soil permeability (cm h <sup>-1</sup> )	93.0	(0.0-1506.0)	286	0.01
Soil erodibility (K)	0.22	(0.0-0.5)	0.1	0.17*
Bulk density (g cm <sup>-3</sup> )	0.9	(0.5-1.3)	0.2	0.01
Soil pH H <sub>2</sub> O 1:2.5	5.5	(4.2-7.2)	0.5	0.32**
Total Carbon (g kg <sup>-1</sup> )	34.6	(7.2-151.4)	27.6	0.01
Total Nitrogen (g kg <sup>-1</sup> )	3	(0.4-9)	0.17	0.01
Exchangeable Ca (cmolc(+) kg <sup>-1</sup> )	10.6	(0.023-29.7)	6.1	0.45**
Exchangeable K (cmolc(+) kg <sup>-1</sup> )	0.4	(0.1-1.9)	0.4	0.38**
Exchangeable Na (cmolc(+) kg <sup>-1</sup> )	0.9	(0.002-3.7)	0.7	-0.28**
Extractable Fe (mg kg <sup>-1</sup> )	204.2	(0.02-1500.6)	289	-0.17*
Available Si 0-20 cm (mg SiO <sub>2</sub> kg <sup>-1</sup> )	300.0	(89.4-1115.4)	177	

Tables 1 and 2 show general soil physicochemical properties in the SW. The soil had

high silt and clay contents and organic matter content of about 5%. Soil permeability and erodibility were high. According to Wischmeier and Smith (1978), soils with K-factor > 0.04 are generally susceptible to soil erosion. Soil susceptibility to erosion is highly influenced by different climatic, physical, hydrological, chemical, mineralogical, and biological properties (Veihe 2002). Total nitrogen and available Si are low, whereas TC, extractable Fe and Zn are high. Exchangeable base cations (Ca, Mg, K, and Na) were relatively high. Soil physicochemical properties had some correlation with available Si in the SW (Table 2).

After

Table 2. General soil physico-chemical properties in Sumani watershed

	Mean	Cri- teria (Range)	SD	r <sub>a</sub>
Sand (%)	9.0	(0.4-58.0)	11	0.08

Very fine sand(%)	2.0		(0.4-9.0)	2	0.01
Silt(%)	55.0		(0.0-85.0)	20	0.02
Clay (%)	33.0		(9.0-95.0)	20	-0.05
Organic matter (g kg-1)	54.0	<b>h</b>	(21.0-111.0)	24	0.01
Soil permeability (cm h-1)	93.0		(0.0-1506.0)	286	0.01
Soil erodibility (K)	0.22	<b>h</b>	(0.0-0.5)	0.1	0.17*
Bulk density (g cm-3)	0.9		(0.5-1.3)	0.2	0.01
Soil pH H2O 1:2.5	5.5	<b>a</b>	(4.2-7.2)	0.5	0.32**
Total Carbon (g kg-1)	34.6	<b>h</b>	(7.2-151.4)	27.6	0.01
Total Nitrogen (g kg-1)	3	<b>m</b>	(0.4-9)	0.17	0.01
Exchangeable Ca (cmolc(+) kg-1)	10.6	<b>m</b>	(0.023-29.7)	6.1	0.45**
Exchangeable K (cmolc(+) kg-1)	0.4	<b>m</b>	(0.1-1.9)	0.4	0.38**
Exchangeable Na (cmolc(+) kg-1)	0.9	<b>h</b>	(0.002-3.7)	0.7	-0.28**
Extractable Fe (mg kg-1)	204.2	<b>h</b>	(0.02-1500.6)	289	-0.17*
Available Si 0-20 cm (mg SiO <sub>2</sub> kg-1)	300.0	<b>l</b>	(89.4-1115.4)	177	

\*\* , P Value <0.01 and \* , P value < 0,05; SD=standar deviation; r=correlation; h=high; m=medium; l=low; a=acid

Answer to

-Reviewer 1

2. The subheadings 3.1 and 3.2 are not clear enough.

Before

Table 1. Available SiO<sub>2</sub> (mg/kg) and erosion-factor analyses in sampling sites in the Sumani watershed

No	Location	Sub waershed	Land use	GPS Reading		R	K	LS	C	P	Erosion Mg/ha/yr	SiO2 (0- 20) mg
				East	South							
1	jawi-jawi 1	Sumani	Sawah	681009	9898946	2452.0	0.1	0.0640	0.010	0.4	5.0	204.64
2	jawi-jawi 2	Sumani	Sawah	681007	9898924	2452.0	0.1	0.0640	0.010	0.4	5.0	559.71
3	jawi-jawi 3	Sumani	Sawah	680846	9899016	2452.0	0.1	0.0640	0.010	0.4	10.0	138.86
4	Gantung ciri 1	Sumani	Sawah	679766	9900725	2452.0	0.3	0.0010	0.010	0.4	0.1	258.86
5	Gantung ciri 2	Sumani	Sawah	679906	9900722	2452.0	0.3	0.0010	0.010	0.4	0.1	308.79
6	Gantung ciri 3	Sumani	Sawah	679994	9900676	2452.0	0.30	0.0010	0.010	0.4	5.0	271.93
7	Kelok Duri	Sumani	Sawah	682301	9909213	2452.0	0.10	0.0640	0.010	0.4	2.0	207.86
8	Selayo	Sumani	Sawah	682677	9909496	2452.0	0.10	0.0640	0.010	0.4	2.5	127.07
9	Sawah sudut 1	Sumani	Sawah	682689	9909403	2452.0	0.10	0.0640	0.010	0.4	2.0	201.64
10	Sawah sudut2	Sumani	Sawah	682753	9909451	2452.0	0.10	0.0640	0.010	0.4	2.0	200.79
11	Gawan-sungai 1	Sumani	Sawah	682988	9911695	2452.0	0.30	0.0010	0.010	0.4	15.0	145.50
12	Gawan-sungai 2	Sumani	Sawah	683204	9911613	2452.0	0.30	0.0010	0.010	0.4	10.0	148.29
13	Gawan-sungai 3	Sumani	Sawah	683159	9911560	2452.0	0.30	0.0010	0.010	0.4	15.0	250.71
14	Batu Banyak 1	Lembang	Sawah	690240	9894285	1665.0	0.01	0.6110	0.010	0.4	5.0	157.07
15	Bukik Sileh 2	Lembang	Sawah	690168	9894089	1665.0	0.01	0.6110	0.010	0.4	5.0	168.00
16	Anau kadok 4	Lembang	Sawah	690190	9894077	1665.0	0.01	0.6110	0.010	0.4	5.0	331.07
17	Bukik Sileh 4	Lembang	Sawah	690146	9894586	1665.0	0.01	0.6110	0.010	0.4	7.5	230.14
18	Koto Lawas 1	Lembang	Sawah	690485	9898085	2452.0	0.01	1.7440	0.010	0.4	0.2	148.07
19	Koto Lawas 2	Lembang	Sawah	690385	9898220	2452.0	0.01	1.7440	0.010	0.4	0.2	308.14
20	Koto Lawas 3	Lembang	Sawah	690391	9898224	2452.0	0.01	1.7440	0.010	0.4	10.0	241.71
21	Batu banyak	Lembang	Sawah	689859	9899180	2452.0	0.05	0.0640	0.010	0.4	15.0	203.57
22	Koto Anau	Lembang	Sawah	687948	9902605	2452.0	0.48	0.0640	0.010	0.4	5.0	124.29
23	Sawah Durian 2	Lembang	Sawah	687963	9902709	2452.0	0.48	0.0680	0.010	0.4	5.0	192.64
24	Sawah Durian 3	Lembang	Sawah	688040	9902988	2452.0	0.30	0.0640	0.010	0.4	5.0	165.21
25	Pandan Putih 1	Aripan	Sawah	684981	9909986	2452.0	0.30	0.0640	0.010	0.4	5.0	339.86
26	Pandan Putih 2	Aripan	Sawah	684868	9910153	2452.0	0.30	0.0640	0.010	0.4	5.0	249.64
27	Rawang sari	Aripan	Sawah	684560	9910295	2452.0	0.30	0.0640	0.010	0.4	5.0	427.07
28	Pandan ujung 1	Aripan	Sawah	685806	9912702	2452.0	0.10	0.0010	0.010	0.4	5.0	89.36
29	Pandan ujung 2	Aripan	Sawah	685820	9912612	2452.0	0.10	0.0010	0.010	0.4	5.0	164.79
30	Pandan ujung 3	Aripan	Sawah	685664	9912492	2452.0	0.10	0.0010	0.010	0.4	5.0	192.00
31	Pandan ujung 6	Aripan	Sawah	685437	9912538	2452.0	0.10	0.0010	0.010	0.4	5.0	184.71
32	Parambahan 1	Aripan	Sawah	690900	9902399	2452.0	0.30	0.6110	0.010	0.4	1.8	306.43
33	Parambahan 2	Lembang	Sawah	690786	9902411	2452.0	0.30	0.6110	0.010	0.4	1.8	280.50
34	Parambahan 3	Lembang	Sawah	690734	9902391	2452.0	0.30	0.0640	0.010	0.4	0.2	227.14
35	Sungai janih	Lembang	Sawah	686383	9898559	2452.0	0.05	0.0640	0.010	0.4	15.0	113.36
36	Gunung Talang	Lembang	Sawah	686155	9898931	2452.0	0.05	0.0640	0.010	0.4	10.0	162.64
37	Batu Bajaranjang	Lembang	Sawah	686201	9898830	2452.0	0.05	0.0640	0.010	0.4	10.0	120.86
38	Air angek 1	Lembang	Sawah	684168	9898356	2452.0	0.30	0.0640	0.010	0.4	5.0	500.57
39	Anau Kadok 2	Lembang	Sawah	684089	9898413	2452.0	0.30	0.0640	0.010	0.4	5.0	139.50
40	Anau Kadok 3	Lembang	Sawah	684138	9898260	2452.0	0.30	0.0640	0.010	0.4	10.0	243.21
41	Pasar usang	Lembang	Sawah	684550	9903109	2452.0	0.30	0.0640	0.010	0.4	5.0	374.57
42	Panyalaian Cupak	Lembang	Sawah	684404	9903287	2452.0	0.30	0.0640	0.010	0.4	0.2	364.71
43	Kubu	Gawan	Mixed Garden	679336	9910716	2452.0	0.30	2.5120	0.200	0.5	640.0	534.86
44	Parak gadang	Gawan	Mixed Garden	680767	9911154	2452.0	0.30	0.0640	0.200	0.5	45.0	445.29
45	Gunung Talang	Sumani	Mixed Garden	681796	9902683	2452.0	0.10	0.0640	0.200	0.5	30.0	476.79
46	Gantung Ciri	Sumani	Mixed Garden	679878	9903305	2452.0	0.20	0.0640	0.200	0.5	5.0	211.71
47	Curang gadang sasak	Sumani	Sawah	677000	9902000	2452.0	0.09	2.5120	0.010	0.4	115.0	262.29
48	Kayu aro	Sumani	Tea	680022	9890308	1665.0	0.07	0.0640	0.001	1.0	20.0	326.79
49	Pasar usang guguk	Lembang	Mixed Garden	682500	9898000	2452.0	6.10	0.0640	0.200	0.5	45.0	679.07
50	Koto baru	Lembang	Sawah	683508	9905910	2452.0	0.20	0.0640	0.010	0.4	3.0	508.07
51	Lembang	Aripan	Bush	681302	9914208	2452.0	0.20	0.0010	0.950	0.4	1.0	543.00
52	Jawi-jawi	Sumani	Mixed Garden	679878	9903305	2452.0	0.20	0.0640	0.200	0.5	5.0	955.71
53	Sukarami BPTP	Sumani	Bush	680390	9895606	1665.0	0.10	0.0640	0.290	1.0	15.0	447.86
54	Danau kamar	Sumani	Tea	680586	9890624	1665.0	0.07	0.0640	0.001	1.0	15.0	217.93
55	Air batumbuk	Lembang	Bush	685164	9886435	1665.0	0.20	0.0640	0.290	1.0	85.0	260.79
56	Bungo tanjung	Lembang	Mixed Garden	693126	9883658	1665.0	0.10	1.7440	0.200	0.5	5.0	382.71
57	Air tawar	Lembang	Mixed Garden	691000	9887152	1665.0	0.10	2.5120	0.200	0.5	30.0	497.79
58	Bukik sileh	Lembang	Sawah	688906	9894277	1665.0	0.00	2.1380	0.010	0.4	5.0	509.14
59	Koto anau	Lembang	Sawah	687977	9902100	2452.0	0.20	0.0010	0.010	0.4	5.0	245.79
60	Air Mati	Aripan	Bush	684848	9912166	2452.0	0.30	2.1380	0.950	0.4	1.0	616.29
61	Bukik gompong	Sumani	Mixed Garden	681722	9895558	1665.0	0.10	2.1380	0.200	0.5	85.0	576.64
62	Kampung jawa 1	Sumani	Mixed Garden	682165	9894832	1665.0	0.10	2.1380	0.200	0.5	65.0	857.14
63	Kampung jawa 2	Sumani	Mixed Garden	682148	9894165	1665.0	0.02	3.6130	0.200	0.5	10.0	227.36
64	Tower TVRI 2	Sumani	Forest	682440	9893752	1665.0	0.02	2.8770	0.001	1.0	40.0	316.50
65	Tower bukik gompong	Sumani	Forest	683120	9893547	1665.0	0.06	2.8770	0.001	1.0	5.0	358.29
66	Laing 1	Aripan	Grass	680718	9915222	2452.0	0.10	0.0010	0.290	1.0	2.5	89.36



67	Laing 2	Aripan	Forest	685090	9917469	2452.0	0.48	2.1380	0.001	1.0	3.5	560.79
68	Laing 3	Aripan	Grass	685251	9917230	2452.0	0.48	2.1380	0.290	1.0	285.0	243.86
69	Laing 4	Aripan	Mixed Garden	685283	9917147	2452.0	0.48	2.1380	0.200	0.5	270.0	98.57
70	Saok laweh	Aripan	Sawah	686353	9912829	2452.0	0.10	0.0010	0.010	0.4	5.0	261.00
71	Ganangan	Lembang	Mixed Garden	684733	9906341	2452.0	0.20	0.0640	0.200	0.5	10.0	437.36
72	Bali pnanh	Lembang	Sawah	685276	9905296	2452.0	0.30	0.0640	0.010	0.4	0.2	289.29
73	Guguk rantau	Lembang	Bush	682703	9906436	2452.0	0.20	0.0640	0.290	1.0	5.0	372.00
74	Koto baru	Lembang	Forest	682595	9906283	2452.0	0.20	0.0010	0.001	1.0	5.0	791.14
75	Sawah suduk	Sumani	Bush	682276	9908944	2452.0	0.10	0.0640	0.290	1.0	5.0	313.29
76	Pakan senayan	Sumani	Mixed Garden	680780	9906663	2452.0	0.10	0.0640	0.200	0.5	1.6	201.21
77	Selayo	Gawan	Sawah	679843	9907068	2452.0	0.30	0.0640	0.010	0.4	5.0	264.43
78	Durian X koto	Gawan	Forest	680026	9914546	2452.0	0.10	0.0010	0.001	1.0	0.0	153.64
79	Koto sami	Imang	Bush	678451	9916455	2452.0	0.30	0.0010	0.290	1.0	0.2	309.00
80	Aie angek	Imang	Mixed Garden	678169	9915663	2452.0	0.20	2.5120	0.200	0.5	123.2	355.71
81	Sumani 1	Imang	Sawah	677426	9921191	1288.0	0.10	0.0010	0.010	0.4	5.0	292.50
82	Panyalaian Cupak	Lembang	Sawah	684275	9903267	2452.0	0.30	0.0640	0.010	0.4	5.0	299.36
83	Sumani 2	Aripan	Sawah	677681	9921448	1288.0	0.10	0.0010	0.010	0.4	5.0	128.36
84	Aur Duri	Imang	Sawah	678648	9919152	1288.0	0.10	0.0640	0.010	0.4	25.0	392.14
85	Belimbing	Imang	Sawah	678905	9916775	2452.0	0.30	0.0010	0.010	0.4	3.0	313.50
86	Durian	Aripan	Sawah	680453	9914773	2452.0	0.10	0.0010	0.010	0.4	4.0	295.93
87	Sawah Parit	Aripan	Sawah	685480	9910916	2452.0	0.30	0.0640	0.010	0.4	10.0	182.36
88	Guguk Dana	Aripan	Sawah	685080	9909609	2452.0	0.30	0.0640	0.010	0.4	5.0	228.64
89	Batu Jurang	Aripan	Sawah	686098	9908995	2452.0	0.20	0.064	0.010	0.4	10.0	288.86
90	Miuro Paneh	Aripan	Sawah	687639	9906755	2452.0	0.20	0.064	0.010	0.4	4.0	120.64
91	Koto Gadang Koto Anu	Lembang	Sawah	687895	9903389	2452.0	0.30	0.064	0.010	0.4	5.0	200.57
92	Koto Anau	Lembang	Sawah	688034	9902271	2452.0	0.20	0.064	0.010	0.4	5.0	235.93
93	Koto Laweh	Lembang	Sawah	690464	9898410	1665.0	0.01	1.744	0.010	0.4	3.0	200.79
94	Bukit Sileh	Lembang	Sawah	691249	9895502	1665.0	0.10	0.064	0.010	0.4	20.0	196.70
95	Bukit Sileh 2	Lembang	Vegetable	691275	9895481	1665.0	0.10	0.064	0.400	0.5	20.0	203.79
96	Kampung Batu	Lembang	Sawah	691024	9893027	1665.0	0.10	0.064	0.010	0.4	5.0	310.29
97	Kampung Batu 2	Lembang	Vegetable	691156	9891364	1665.0	0.10	0.064	0.400	0.5	50.0	102.43
98	Dilam 1	Lembang	Sawah	692432	9900886	1665.0	0.30	3.399	0.010	0.4	10.0	157.50
99	Dilam 2	Lembang	Sawah	692462	9900828	1665.0	0.30	3.399	0.010	0.4	10.0	152.79
100	Dilam 3	Lembang	Sawah	692483	9900815	1665.0	0.30	3.399	0.010	0.4	10.0	189.43
101	Sumani 3	Aripan	Mixed Garden	677030	9921312	1288.0	0.10	0.001	0.010	0.4	0.0	412.07
102	Aripan 1	Aripan	Mixed Garden	676813	9922182	1288.0	0.10	0.001	0.200	0.5	0.0	355.29
103	Aripan 2	Aripan	Mixed Garden	678613	9919968	1288.0	0.10	0.064	0.200	0.5	1.0	1115.36
104	Aripan Pompa	Aripan	Mixed Garden	679004	9919123	1288.0	0.10	0.064	0.200	0.5	1.0	756.43
105	Tanjung Bungkung	Aripan	Mixed Garden	680785	9916791	2452.0	0.30	0.611	0.200	0.5	56.0	427.93
106	Bbanda pandan	Aripan	Mixed Garden	681581	9913781	2452.0	0.20	0.001	0.200	0.5	1.0	633.00
107	Kota Solok	Aripan	Mixed Garden	684026	9911713	2452.0	0.30	0.064	0.010	0.4	1.0	634.50
108	Batu kulo	Lembang	Mixed Garden	684727	9909217	2452.0	0.20	0.064	0.200	0.5	5.0	296.36
109	Miuro paneh	Lembang	Mixed Garden	686990	9906478	2452.0	0.20	0.064	0.200	0.5	5.0	200.79
110	Lembang atas	Lembang	Mixed Garden	688122	9900659	2452.0	0.05	0.611	0.200	0.5	28.0	391.50
111	Bukit sileh	Lembang	Mixed Garden	690986	9894498	1665.0	0.20	3.400	0.200	0.5	200.0	389.79
112	Batu banyak	Lembang	Mixed Garden	691380	9891131	1665.0	0.10	0.611	0.200	0.5	14.0	794.14
113	Kubung	Lembang	Mixed Garden	684313	9907711	2452.0	0.20	0.064	0.200	0.5	5.0	166.93
114	Bukit kili 1	Lembang	Mixed Garden	684276	9906492	2452.0	0.20	0.064	0.200	0.5	5.0	375.00
115	Bukit Kili 2	Lembang	Mixed Garden	683659	9905507	2452.0	0.30	0.064	0.200	0.5	0.0	329.14
116	Cupak sungai	Lembang	Mixed Garden	683030	9903030	2452.0	0.30	0.064	0.200	0.5	5.0	308.57
117	Talang	Lembang	Mixed Garden	683500	9900067	2452.0	0.20	0.064	0.200	0.5	5.0	334.71
118	Lubuk silasih	Sumani	Mixed Garden	677332	9893200	1665.0	0.05	1.740	0.200	0.5	56.0	216.21
119	Lubuk silasih 2	Sumani	Mixed Garden	677090	9893546	1665.0	0.05	0.610	0.200	0.5	5.0	391.07
120	Lubuk silasih 3	Sumani	Forest	675194	9893700	1665.0	0.05	0.001	0.200	0.5	1.0	106.29
121	Kapalo banda	Sumani	Mixed Garden	680662	9901560	2452.0	0.30	0.001	0.01	0.4	0.0	289.29
122	Kota Solok 2	Lembang	Mixed Garden	683872	9910003	2452.0	0.30	0.064	0.20	0.5	5.0	229.07
123	Kota Solok 3	Lembang	Mixed Garden	683981	9909967	2452.0	0.30	0.001	0.20	0.5	1.0	343.29
124	Aripan 3	Aripan	Mixed Garden	681485	9920988	1288.0	0.09	0.001	0.20	0.5	1.0	101.57
125	Kubung 1	Sumani	Sawah	683541	9910512	2452.0	0.30	0.001	0.01	0.4	1.0	209.57
126	Kubung 2	Sumani	Sawah	682817	9910806	2452.0	0.30	0.064	0.01	0.4	1.0	179.14
127	Batu palano	Gawan	sawah	680861	9911165	2452.0	0.30	0.064	0.20	0.5	5.0	220.07
128	Ketaping 1	Gawan	Sawah	680081	9910640	2452.0	0.30	0.611	0.01	0.4	1.0	201.86
129	Ketaping 2	Gawan	Mixed Garden	679815	9910540	2452.0	0.30	0.611	0.20	0.5	100.0	282.86
130	Ketaping 3	Gawan	Sawah	679659	9910488	2452.0	0.30	0.611	0.01	0.4	1.0	220.07
131	Ketaping 4	Gawan	Mixed Garden	679437	9910599	2452.0	0.30	0.064	0.20	0.5	5.0	137.57
132	Gawan 1	Gawan	Forest	679098	9910622	2452.0	0.30	2.510	0.00	1.0	1.0	136.29
133	Bukit kili 1	Gawan	Forest	678850	9910573	2452.0	0.09	2.510	0.00	1.0	1.0	130.29
134	Bukit Kili 2	Gawan	Sawah	682115	9911144	2452.0	0.30	0.064	0.01	0.4	1.0	255.86
135	Aripan 4	Aripan	Sawah	682803	9913171	2452.0	0.20	0.001	0.01	0.4	5.0	127.29
136	Aripan 5	Aripan	Mixed Garden	682701	9914550	2452.0	0.20	0.001	0.20	0.5	0.0	150.21
137	Destamar 1	Aripan	Mixed Garden	682863	9916064	2452.0	0.10	0.001	0.20	0.5	0.0	94.07
138	Destamar 2	Aripan	Mixed Garden	682652	9917803	2452.0	0.40	0.064	0.20	0.5	100.0	113.36
139	Destamar 3	Aripan	Mixed Garden	682652	9917803	2452.0	0.40	2.140	0.20	0.5	100.0	263.57
140	Ganung Ciri 1	Sumani	Sawah	680501	9903987	2452.0	0.10	0.064	0.01	0.4	1.0	309.86
141	Ganung Ciri 2	Sumani	Sawah	679916	9904572	2452.0	0.20	0.001	0.01	0.4	1.0	292.00
142	Puhan 1	Sumani	Mixed Garden	679772	9904605	2452.0	0.20	0.064	0.20	0.5	1.0	421.93
143	Puhan 2	Sumani	Sawah	679503	9904591	2452.0	0.20	0.064	0.01	0.4	1.0	313.50
144	Puhan 3	Sumani	Mixed Garden	679278	9904592	2452.0	0.20	0.611	0.20	0.4	14.0	194.36
145	Bukit Singo-singo	Sumani	Mixed Garden	679032	9904638	2452.0	0.20	0.611	0.40	0.5	56.0	178.71
146	Bukit Singo-singo 2	Sumani	Mixed Garden	680264	9904469	2452.0	0.20	0.611	0.01	0.4	28.0	274.07
					Mean							299.80
					Median							259.83
					Max							1115.36
					Mm							89.36
					SD							177.21

Tables 1 and 2 show general soil physicochemical properties in the SW.

After

Table 1. Available SiO<sub>2</sub> (mg/kg) and erosion-factor analyses in sampling sited in the Sumani watershed

No	Location	Sub waershed	Land use	GPS Reading		R	K	LS	C	P	Erosion Mg/ha/yr	SiO2 (0-20) mg SiO2/kg	SiO2 Status in soil
				East	South								
1	jawi-jawi 1	Sumani	Sawah	681009	9898946	2452,0	0,1	0,0640	0,010	0,4	5,0	204,64	d
2	jawi-jawi 2	Sumani	Sawah	681007	9898924	2452,0	0,1	0,0640	0,010	0,4	5,0	559,71	l
3	jawi-jawi 3	Sumani	Sawah	680846	9899016	2452,0	0,1	0,0640	0,010	0,4	10,0	138,86	d
4	Gantung ciri 1	Sumani	Sawah	679766	9900725	2452,0	0,3	0,0010	0,010	0,4	0,1	258,86	d
5	Gantung ciri 2	Sumani	Sawah	679906	9900722	2452,0	0,3	0,0010	0,010	0,4	0,1	308,79	l
6	Gantung ciri 3	Sumani	Sawah	679994	9900676	2452,0	0,30	0,0010	0,010	0,4	5,0	271,93	d
7	Kelok Duri	Sumani	Sawah	682301	9909213	2452,0	0,10	0,0640	0,010	0,4	2,0	207,86	d
8	Selayo	Sumani	Sawah	682677	9909496	2452,0	0,10	0,0640	0,010	0,4	2,5	127,07	d
9	Sawah sudut 1	Sumani	Sawah	682689	9909403	2452,0	0,10	0,0640	0,010	0,4	2,0	201,64	d
10	Sawah sudut2	Sumani	Sawah	682753	9909451	2452,0	0,10	0,0640	0,010	0,4	2,0	200,79	d
11	Gawan-sungai 1	Sumani	Sawah	682988	9891695	2452,0	0,30	0,0010	0,010	0,4	15,0	145,50	d
12	Gawan-sungai 2	Sumani	Sawah	683204	9911613	2452,0	0,30	0,0010	0,010	0,4	10,0	148,29	d
13	Gawan-sungai 3	Sumani	Sawah	683159	9911560	2452,0	0,30	0,0010	0,010	0,4	15,0	250,71	d
14	Batu Banyak 1	Lembang	Sawah	690240	9894285	1665,0	0,01	0,6110	0,010	0,4	5,0	157,07	d
15	Bukik Sileh 2	Lembang	Sawah	690168	9894089	1665,0	0,01	0,6110	0,010	0,4	5,0	168,00	d
16	Anau kadok 4	Lembang	Sawah	690190	9894077	1665,0	0,01	0,6110	0,010	0,4	5,0	331,07	l
17	Bukik Sileh 4	Lembang	Sawah	690146	9894586	1665,0	0,01	0,6110	0,010	0,4	7,5	230,14	d
18	Koto Lawas 1	Lembang	Sawah	690485	9898085	2452,0	0,01	1,7440	0,010	0,4	0,2	148,07	d
19	Koto Lawas 2	Lembang	Sawah	690385	9898220	2452,0	0,01	1,7440	0,010	0,4	0,2	308,14	l
20	Koto Lawas 3	Lembang	Sawah	690391	9898224	2452,0	0,01	1,7440	0,010	0,4	10,0	241,71	d
21	Batu banyak	Lembang	Sawah	689859	9899180	2452,0	0,05	0,0640	0,010	0,4	15,0	203,57	d
22	Koto Anau	Lembang	Sawah	687948	9902605	2452,0	0,48	0,0640	0,010	0,4	5,0	124,29	d
23	Sawah Durian 2	Lembang	Sawah	687963	9902709	2452,0	0,48	0,0680	0,010	0,4	5,0	192,64	d
24	Sawah Durian 3	Lembang	Sawah	688040	9902988	2452,0	0,30	0,0640	0,010	0,4	5,0	165,21	d
25	Pandan Putih 1	Aripan	Sawah	684981	9909986	2452,0	0,30	0,0640	0,010	0,4	5,0	339,86	l
26	Pandan Putih 2	Aripan	Sawah	684868	9910153	2452,0	0,30	0,0640	0,010	0,4	5,0	249,64	d
27	Rawang sari	Aripan	Sawah	684560	9910295	2452,0	0,30	0,0640	0,010	0,4	5,0	427,07	l
28	Pandan ujung 1	Aripan	Sawah	685806	9912702	2452,0	0,10	0,0010	0,010	0,4	5,0	89,36	d
29	Pandan ujung 2	Aripan	Sawah	685820	9912612	2452,0	0,10	0,0010	0,010	0,4	5,0	164,79	d
30	Pandan ujung 3	Aripan	Sawah	685664	9912492	2452,0	0,10	0,0010	0,010	0,4	5,0	192,00	d
31	Pandan ujung 6	Aripan	Sawah	685437	9912538	2452,0	0,10	0,0010	0,010	0,4	5,0	184,71	d
32	Parambahan 1	Aripan	Sawah	690900	9902399	2452,0	0,30	0,6110	0,010	0,4	1,8	306,43	l
33	Parambahan 2	Lembang	Sawah	690786	9902411	2452,0	0,30	0,6110	0,010	0,4	1,8	280,50	d
34	Parambahan 3	Lembang	Sawah	690734	9902391	2452,0	0,30	0,0640	0,010	0,4	0,2	227,14	d
35	Sungai janih	Lembang	Sawah	686383	9898559	2452,0	0,05	0,0640	0,010	0,4	15,0	113,36	d
36	Gunung Talang	Lembang	Sawah	686155	9898931	2452,0	0,05	0,0640	0,010	0,4	10,0	162,64	d
37	Batu Bajanjang	Lembang	Sawah	686201	9898830	2452,0	0,05	0,0640	0,010	0,4	10,0	120,86	d
38	Air angek 1	Lembang	Sawah	684168	9898356	2452,0	0,30	0,0640	0,010	0,4	5,0	500,57	l
39	Anau Kadok 2	Lembang	Sawah	684089	9898413	2452,0	0,30	0,0640	0,010	0,4	5,0	139,50	d
40	Anau Kadok 3	Lembang	Sawah	684138	9898260	2452,0	0,30	0,0640	0,010	0,4	10,0	243,21	d
41	Pasar usang	Lembang	Sawah	684550	9903109	2452,0	0,30	0,0640	0,010	0,4	5,0	374,57	l
42	Panyalaian Cupak	Lembang	Sawah	684404	9903287	2452,0	0,30	0,0640	0,010	0,4	0,2	364,71	l
43	Kubu	Gawan	Mixed Garden	679336	9910716	2452,0	0,30	2,5120	0,200	0,5	640,0	534,86	l
44	Parak gadang	Gawan	Mixed Garden	680767	9911154	2452,0	0,30	0,0640	0,200	0,5	45,0	445,29	l
45	Gunung Talang	Sumani	Mixed Garden	681796	9902683	2452,0	0,10	0,0640	0,200	0,5	30,0	476,79	l
46	Gantung Ciri	Sumani	Mixed Garden	679878	9903305	2452,0	0,20	0,0640	0,200	0,5	5,0	211,71	d
47	Curang gadang sasak	Sumani	Sawah	677000	9902000	2452,0	0,09	2,5120	0,010	0,4	115,0	262,29	d
48	Kayu aro	Sumani	Tea	680022	9890308	1665,0	0,07	0,0640	0,001	1,0	20,0	326,79	l
49	Pasar usang guguk	Lembang	Mixed Garden	682500	9898000	2452,0	6,10	0,0640	0,200	0,5	45,0	679,07	h
50	Koto baru	Lembang	Sawah	683508	9905910	2452,0	0,20	0,0640	0,010	0,4	3,0	508,07	h
51	Lembang	Aripan	Bush	681302	9914208	2452,0	0,20	0,0010	0,950	0,4	1,0	543,00	h
52	Jawi-jawi	Sumani	Mixed Garden	679878	9903305	2452,0	0,20	0,0640	0,200	0,5	5,0	955,71	h
53	Sukarami BPTP	Sumani	Bush	680390	9895606	1665,0	0,10	0,0640	0,290	1,0	15,0	447,86	l
54	Danau kamar	Sumani	Tea	680586	9890624	1665,0	0,07	0,0640	0,001	1,0	15,0	217,93	d
55	Air batumbuk	Lembang	Bush	685164	9886435	1665,0	0,20	0,0640	0,290	1,0	85,0	260,79	d
56	Bungo tanjung	Lembang	Mixed Garden	693126	9883658	1665,0	0,10	1,7440	0,200	0,5	5,0	382,71	l
57	Air tarwar	Lembang	Mixed Garden	691000	9887152	1665,0	0,10	2,5120	0,200	0,5	30,0	497,79	l
58	Bukik sileh	Lembang	Sawah	688906	9894277	1665,0	0,00	2,1380	0,010	0,4	5,0	509,14	l
59	Koto anau	Lembang	Sawah	687977	9902100	2452,0	0,20	0,0010	0,010	0,4	5,0	245,79	d
60	Air Mati	Aripan	Bush	684848	9912166	2452,0	0,30	2,1380	0,950	0,4	1,0	616,29	h
61	Bukik gompong	Sumani	Mixed Garden	681722	9895558	1665,0	0,10	2,1380	0,200	0,5	85,0	576,64	l
62	Kampung jawa 1	Sumani	Mixed Garden	682165	9894832	1665,0	0,10	2,1380	0,200	0,5	65,0	857,14	h
63	Kampung jawa 2	Sumani	Mixed Garden	682148	9894165	1665,0	0,02	3,6130	0,200	0,5	10,0	227,36	d
64	Tower TVRI 2	Sumani	Forest	682440	9893752	1665,0	0,02	2,8770	0,001	1,0	40,0	316,50	l
65	Tower bukik gompong	Sumani	Forest	683120	9893547	1665,0	0,06	2,8770	0,001	1,0	5,0	358,29	l
66	Laing 1	Aripan	Grass	680718	9915222	2452,0	0,10	0,0010	0,290	1,0	2,5	89,36	d



67	Laing 2	Aripan	Forest	685090	9917469	2452,0	0,48	2,1380	0,001	1,0	3,5	560,79	l
68	Laing 3	Aripan	Grass	685251	9917230	2452,0	0,48	2,1380	0,290	1,0	285,0	243,86	d
69	Laing 4	Aripan	Mixed Garden	685283	9917147	2452,0	0,48	2,1380	0,200	0,5	270,0	98,57	d
70	Saok laweh	Aripan	Sawah	686353	9912829	2452,0	0,10	0,0010	0,010	0,4	5,0	261,00	d
71	Ganangan	Lembang	Mixed Garden	684733	9906341	2452,0	0,20	0,0640	0,200	0,5	10,0	437,36	l
72	Balai pinang	Lembang	Sawah	685276	9905296	2452,0	0,30	0,0640	0,010	0,4	0,2	289,29	d
73	Guguk rantau	Lembang	Bush	682703	9906436	2452,0	0,20	0,0640	0,290	1,0	5,0	372,00	l
74	Koto baru	Lembang	Forest	682595	9906283	2452,0	0,20	0,0010	0,001	1,0	5,0	791,14	h
75	Sawah suduk	Sumani	Bush	682276	9908944	2452,0	0,10	0,0640	0,290	1,0	5,0	313,29	l
76	Pakan senayan	Sumani	Mixed Garden	680780	9906663	2452,0	0,10	0,0640	0,200	0,5	1,6	201,21	d
77	Selayo	Gawan	Sawah	679843	9907068	2452,0	0,30	0,0640	0,010	0,4	5,0	264,43	d
78	Durian X koto	Gawan	Forest	680026	9914546	2452,0	0,10	0,0010	0,001	1,0	0,0	153,64	d
79	Koto sani	Imang	Bush	678451	9916455	2452,0	0,30	0,0010	0,290	1,0	0,2	309,00	l
80	Aie angek	Imang	Mixed Garden	678169	9915663	2452,0	0,20	2,5120	0,200	0,5	123,2	355,71	l
81	Sumani 1	Imang	Sawah	677426	9921191	1288,0	0,10	0,0010	0,010	0,4	5,0	292,50	d
82	Panyalaian Cupak	Lembang	Sawah	684275	9903267	2452,0	0,30	0,0640	0,010	0,4	5,0	299,36	d
83	Sumani 2	Aripan	Sawah	677681	9921448	1288,0	0,10	0,0010	0,010	0,4	5,0	128,36	d
84	Aur Duri	Imang	Sawah	678648	9919152	1288,0	0,10	0,0640	0,010	0,4	25,0	392,14	l
85	Belimbing	Imang	Sawah	678905	9916775	2452,0	0,30	0,0010	0,010	0,4	3,0	313,50	l
86	Durian	Aripan	Sawah	680453	9914773	2452,0	0,10	0,0010	0,010	0,4	4,0	295,93	d
87	Sawah Parit	Aripan	Sawah	685480	9910916	2452,0	0,30	0,0640	0,010	0,4	10,0	182,36	d
88	Guguk Dama	Aripan	Sawah	685080	9909609	2452,0	0,30	0,0640	0,010	0,4	5,0	228,64	d
89	Batu Juriang	Aripan	Sawah	686098	9908995	2452,0	0,20	0,064	0,010	0,4	10,0	288,86	d
90	Muaro Paneh	Aripan	Sawah	687639	9906755	2452,0	0,20	0,064	0,010	0,4	4,0	120,64	d
91	Koto Gadang Koto Anu	Lembang	Sawah	687895	9903389	2452,0	0,30	0,064	0,010	0,4	5,0	200,57	d
92	Koto Anau	Lembang	Sawah	688034	9902271	2452,0	0,20	0,064	0,010	0,4	5,0	235,93	d
93	Koto Laweh	Lembang	Sawah	690464	9898410	1665,0	0,01	1,744	0,010	0,4	3,0	200,79	d
94	Bukit Sileh	Lembang	Sawah	691249	9895502	1665,0	0,10	0,064	0,010	0,4	20,0	196,70	d
95	Bukit Sileh 2	Lembang	Vegetable	691275	9895481	1665,0	0,10	0,064	0,400	0,5	20,0	203,79	d
96	Kampung Batu	Lembang	Sawah	691024	9893027	1665,0	0,10	0,064	0,010	0,4	5,0	310,29	l
97	Kampung Batu 2	Lembang	Vegetable	691156	9891364	1665,0	0,10	0,064	0,400	0,5	50,0	102,43	d
98	Dilam 1	Lembang	Sawah	692432	9900886	1665,0	0,30	3,399	0,010	0,4	10,0	157,50	d
99	Dilam 2	Lembang	Sawah	692462	9900828	1665,0	0,30	3,399	0,010	0,4	10,0	152,79	d
100	Dilam 3	Lembang	Sawah	692483	9900815	1665,0	0,30	3,399	0,010	0,4	10,0	189,43	d
101	Sumani 3	Aripan	Mixed Garden	677030	9921312	1288,0	0,10	0,001	0,010	0,4	0,0	412,07	l
102	Aripan 1	Aripan	Mixed Garden	676813	9922182	1288,0	0,10	0,001	0,200	0,5	0,0	355,29	l
103	Aripan 2	Aripan	Mixed Garden	678613	9919968	1288,0	0,10	0,064	0,200	0,5	1,0	1115,36	h
104	Aripan Pompa	Aripan	Mixed Garden	679004	9919123	1288,0	0,10	0,064	0,200	0,5	1,0	756,43	h
105	Tanjung Bingkung	Aripan	Mixed Garden	680785	9916791	2452,0	0,30	0,611	0,200	0,5	56,0	427,93	l
106	Bbanda pandan	Aripan	Mixed Garden	681581	9913781	2452,0	0,20	0,001	0,200	0,5	1,0	633,00	h
107	Kota Solok	Aripan	Mixed Garden	684026	9911713	2452,0	0,30	0,064	0,010	0,4	1,0	634,50	h
108	Batu kualo	Lembang	Mixed Garden	684727	9909217	2452,0	0,20	0,064	0,200	0,5	5,0	296,36	d
109	Muaro paneh	Lembang	Mixed Garden	686990	9906478	2452,0	0,20	0,064	0,200	0,5	5,0	200,79	d
110	Lembang atas	Lembang	Mixed Garden	688122	9900659	2452,0	0,05	0,611	0,200	0,5	28,0	391,50	l
111	Bukit sileh	Lembang	Mixed Garden	690986	9894498	1665,0	0,20	3,400	0,200	0,5	200,0	389,79	l
112	Batu banyak	Lembang	Mixed Garden	691380	9891131	1665,0	0,10	0,611	0,200	0,5	14,0	794,14	h
113	Kubung	Lembang	Mixed Garden	684313	9907711	2452,0	0,20	0,064	0,200	0,5	5,0	166,93	d
114	Bukik kilii 1	Lembang	Mixed Garden	684276	9906492	2452,0	0,20	0,064	0,200	0,5	5,0	375,00	l
115	Bukik Kilii 2	Lembang	Mixed Garden	683659	9905507	2452,0	0,30	0,064	0,200	0,5	0,0	329,14	l
116	Cupak sungai	Lembang	Mixed Garden	683030	9903030	2452,0	0,30	0,064	0,200	0,5	5,0	308,57	l
117	Talang	Lembang	Mixed Garden	683500	9900067	2452,0	0,20	0,064	0,200	0,5	5,0	334,71	l
118	Lubuk silasih	Sumani	Mixed Garden	677332	9893200	1665,0	0,05	1,740	0,200	0,5	56,0	216,21	d
119	Lubuk silasih 2	Sumani	Mixed Garden	677090	9893546	1665,0	0,05	0,610	0,200	0,5	5,0	391,07	l
120	Lubuk selasih 3	Sumani	Forest	675194	9893700	1665,0	0,05	0,001	0,200	0,5	1,0	106,29	d
121	Kapalo banda	Sumani	Mixed Garden	680662	9901560	2452,0	0,30	0,001	0,01	0,4	0,0	289,29	d
122	Kota Solok 2	Lembang	Mixed Garden	683872	9910003	2452,0	0,30	0,064	0,20	0,5	5,0	229,07	d
123	Kota Solok 3	Lembang	Mixed Garden	683981	9909967	2452,0	0,30	0,001	0,20	0,5	1,0	343,29	l
124	Aripan 3	Aripan	Mixed Garden	681485	9920988	1288,0	0,09	0,001	0,20	0,5	1,0	101,57	d
125	Kubung 1	Sumani	Sawah	683541	9910512	2452,0	0,30	0,001	0,01	0,4	1,0	209,57	d
126	Kubung 2	Sumani	Sawah	682817	9910806	2452,0	0,30	0,064	0,01	0,4	1,0	179,14	d
127	Batu palano	Gawan	sawah	680861	9911165	2452,0	0,30	0,064	0,20	0,5	5,0	220,07	d
128	Ketaping 1	Gawan	Sawah	680081	9910640	2452,0	0,30	0,611	0,01	0,4	1,0	201,86	d
129	Ketaping 2	Gawan	Mixed Garden	679815	9910540	2452,0	0,30	0,611	0,20	0,5	100,0	282,86	d
130	Ketaping 3	Gawan	Sawah	679659	9910488	2452,0	0,30	0,611	0,01	0,4	1,0	220,07	d
131	Ketaping 4	Gawan	Mixed Garden	679437	9910599	2452,0	0,30	0,064	0,20	0,5	5,0	137,57	d
132	Gawan 1	Gawan	Forest	679098	9910622	2452,0	0,30	2,510	0,00	1,0	1,0	136,29	d
133	Bukit kilii 1	Gawan	Forest	678850	9910573	2452,0	0,09	2,510	0,00	1,0	1,0	130,29	d
134	Bukit Kilii 2	Gawan	Sawah	682115	9911144	2452,0	0,30	0,064	0,01	0,4	1,0	255,86	d
135	Aripan 4	Aripan	Sawah	682803	9913171	2452,0	0,20	0,001	0,01	0,4	5,0	127,29	d
136	Aripan 5	Aripan	Mixed Garden	682701	9914550	2452,0	0,20	0,001	0,20	0,5	0,0	150,21	d
137	Destamar 1	Aripan	Mixed Garden	682863	9916064	2452,0	0,10	0,001	0,20	0,5	0,0	94,07	d
138	Destamar 2	Aripan	Mixed Garden	682652	9917803	2452,0	0,40	0,064	0,20	0,5	100,0	113,36	d
139	Destamar 3	Aripan	Mixed Garden	682652	9917803	2452,0	0,40	2,140	0,20	0,5	100,0	263,57	d
140	Gantung Ciri 1	Sumani	Sawah	680501	9903987	2452,0	0,10	0,064	0,01	0,4	1,0	309,86	l
141	Gantung Ciri 2	Sumani	Sawah	679916	9904572	2452,0	0,20	0,001	0,01	0,4	1,0	292,00	d
142	Puluhan 1	Sumani	Mixed Garden	679772	9904605	2452,0	0,20	0,064	0,20	0,5	1,0	421,93	l
143	Puluhan 2	Sumani	Sawah	679503	9904591	2452,0	0,20	0,064	0,01	0,4	1,0	313,50	l
144	Puluhan 3	Sumani	Mixed Garden	679278	9904592	2452,0	0,20	0,611	0,20	0,4	14,0	194,36	d
145	Bukik Singo-singo	Sumani	Mixed Garden	679032	9904638	2452,0	0,20	0,611	0,40	0,5	56,0	178,71	d
146	Bukik Singo-singo 2	Sumani	Mixed Garden	680264	9904469	2452,0	0,20	0,611	0,01	0,4	28,0	274,07	d
					Mean							299,80	
					Median							259,83	
					Max							1115,36	
					Min							89,36	
					SD							177,21	

d=deficiency concentration of Si; l=low concentration of Si; h= high concentration of Si

Before

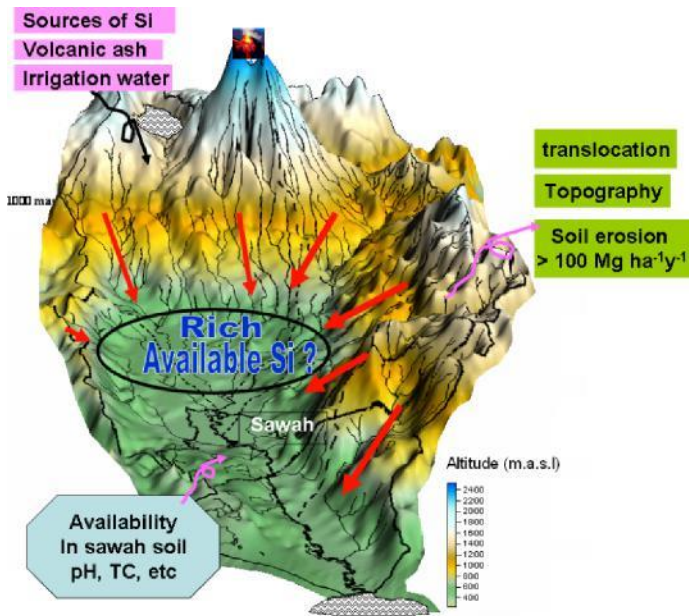


Fig. 1. Possible factors influencing the distribution of Si available in the Sumani watershed.

After

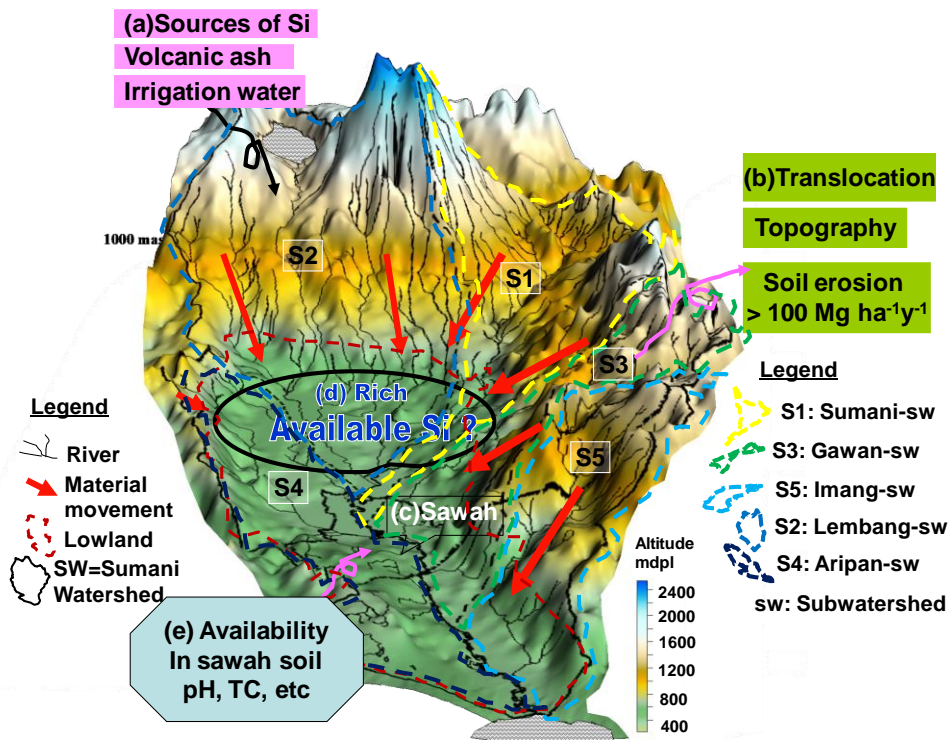
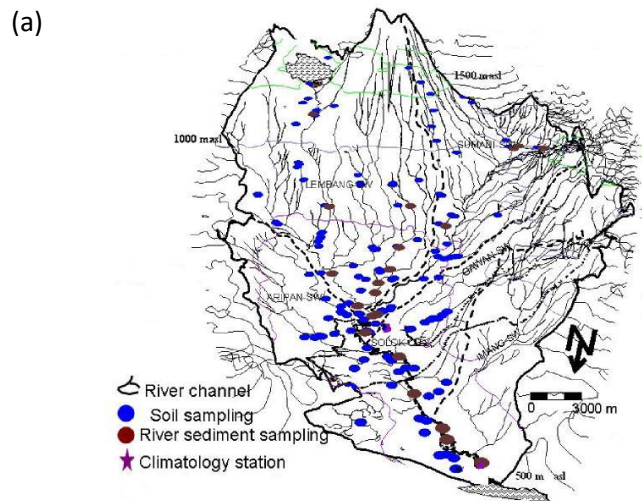


Figure 1. Possible factors influencing the distribution of silicon available in the Sumani watershed. (a) Natural Source of Si by Volcanic ash, irrigation water and Top soil; (b) Translocation of Si by Topography and Soil erosion; (c) Low and deficiency of Si in Sawah soil; (d) Rich available Si in Lowland; (e) available Si in sawah soil controlling by pH, TC, etc.

Before

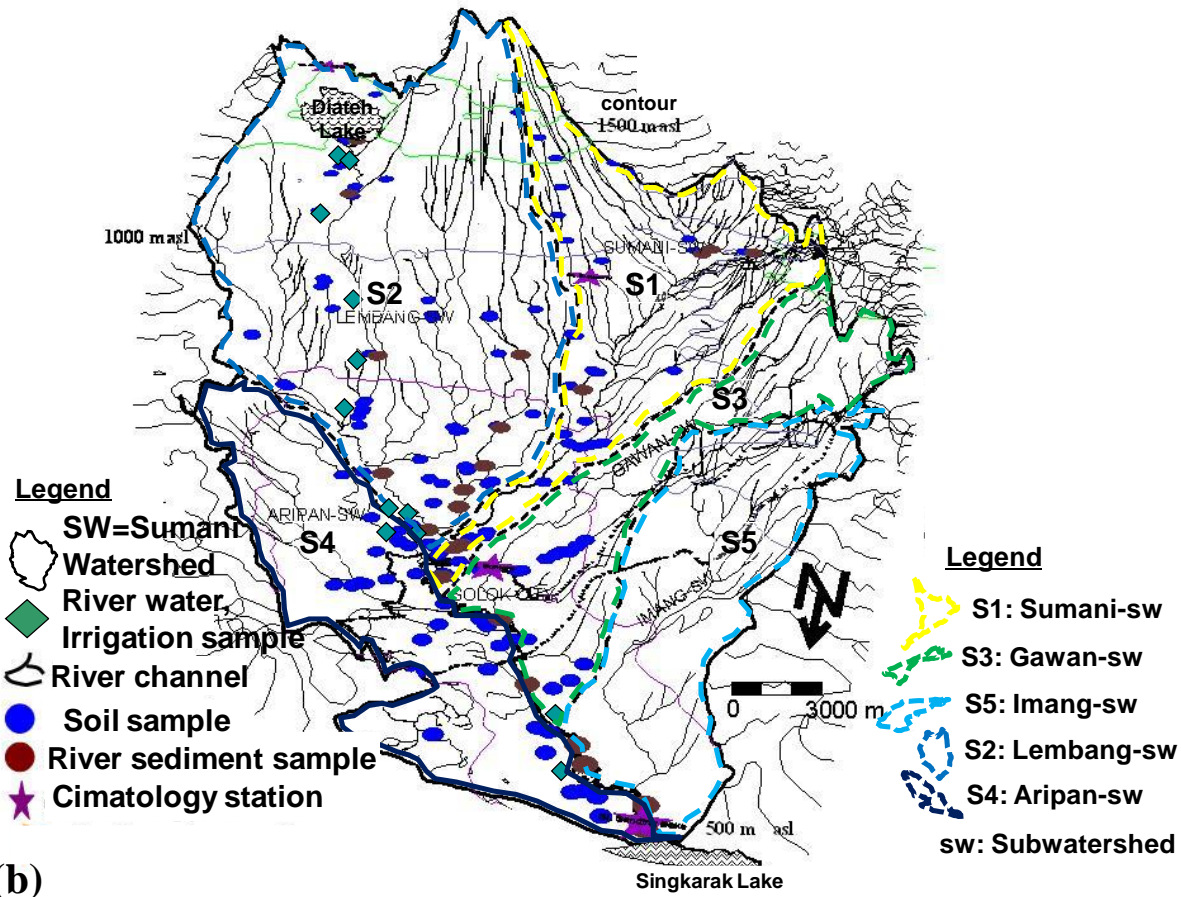


**Fig. 2.** Sampling point (a) and land-use type (b) in the SW.

After



(a)



(b)

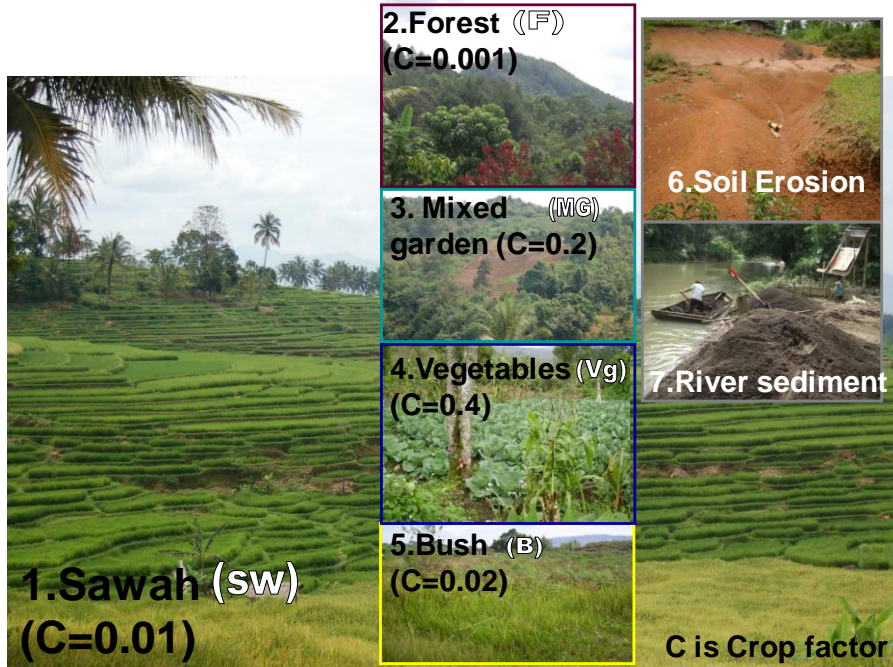


Figure 2. Sampling point (a) and land use type (b) in Sumani watershed: Field survey picture from: 1.Sawah; 2.Forest; 3.Mixed garden; 4.Vegetables; 5. Bush; 6. Soil erosion; 7.River sediment

Before

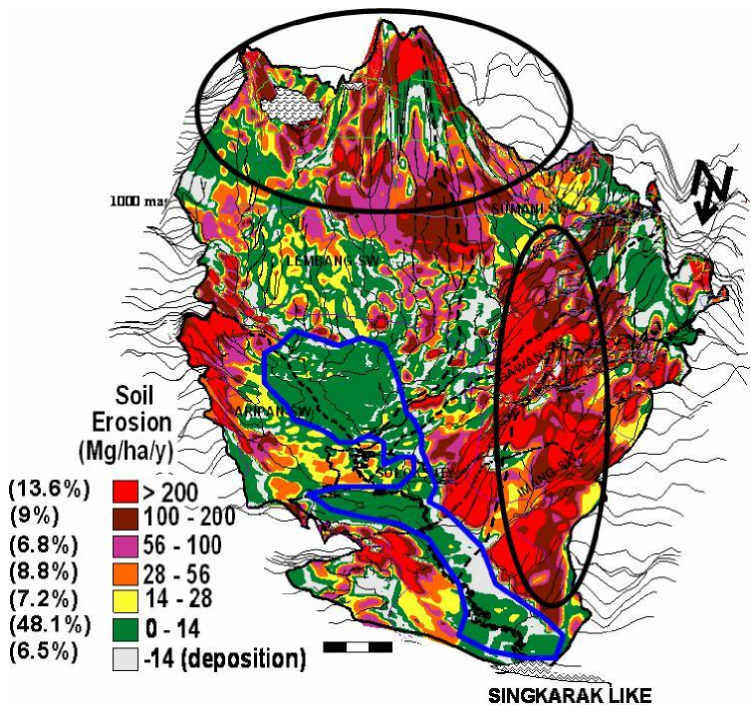


Fig. 4. 3D soil-erosion map in the Sumani watershed.

After

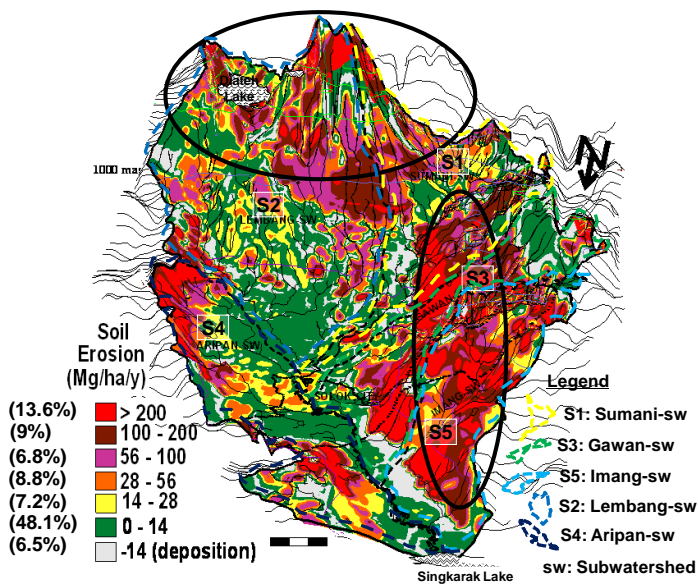


Figure 4. 3 D Soil erosion Map in Sumani watershed.

Before



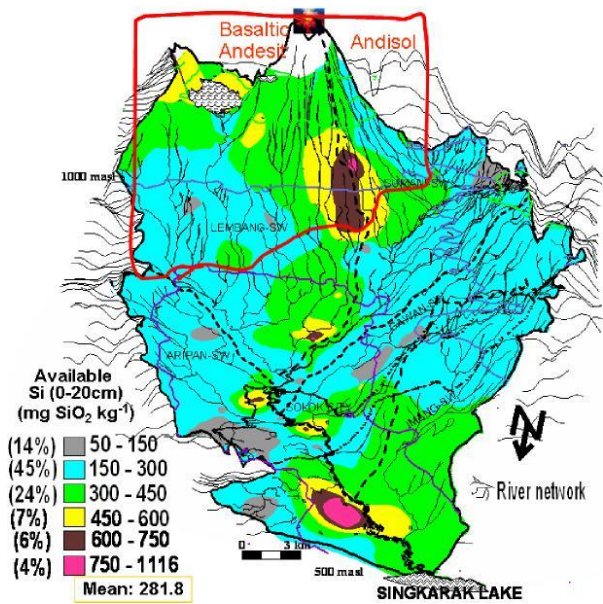


Fig. 5. Distribution of available Si in soil.

After

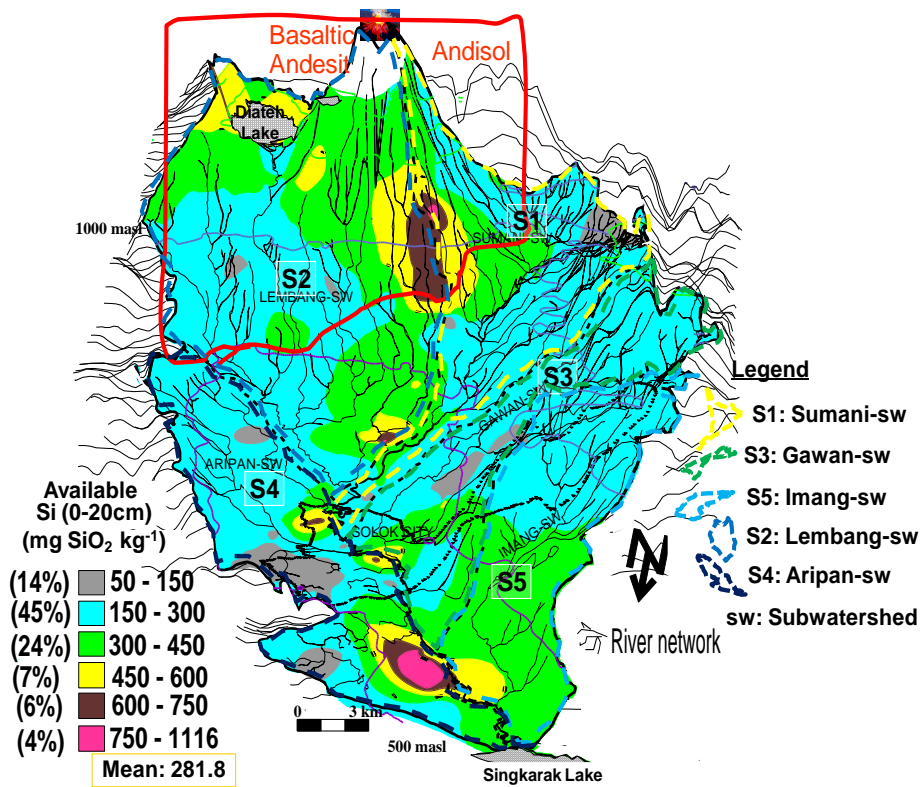


Fig. 5.. Distribution of available Si in soil

Before

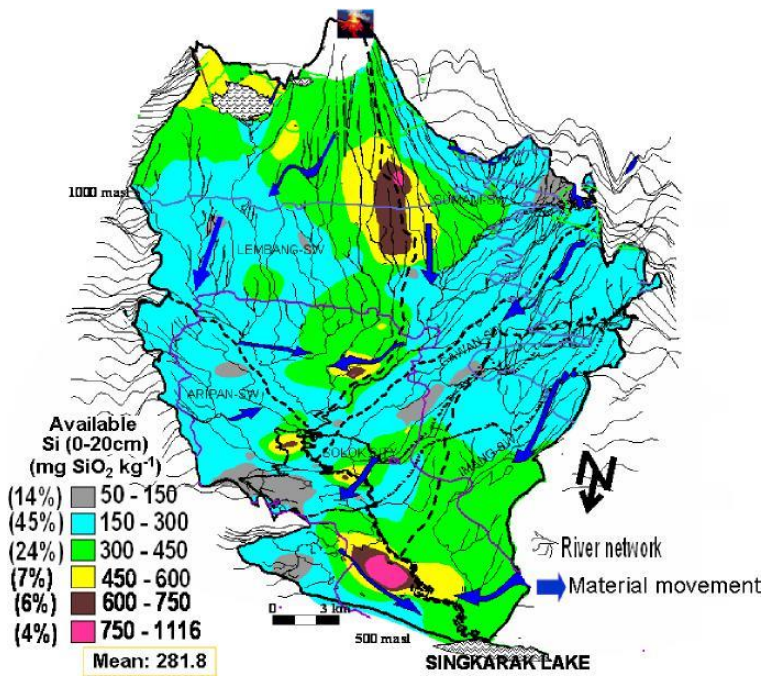


Fig. 7. Direction of material movement in the Sumani watershed.

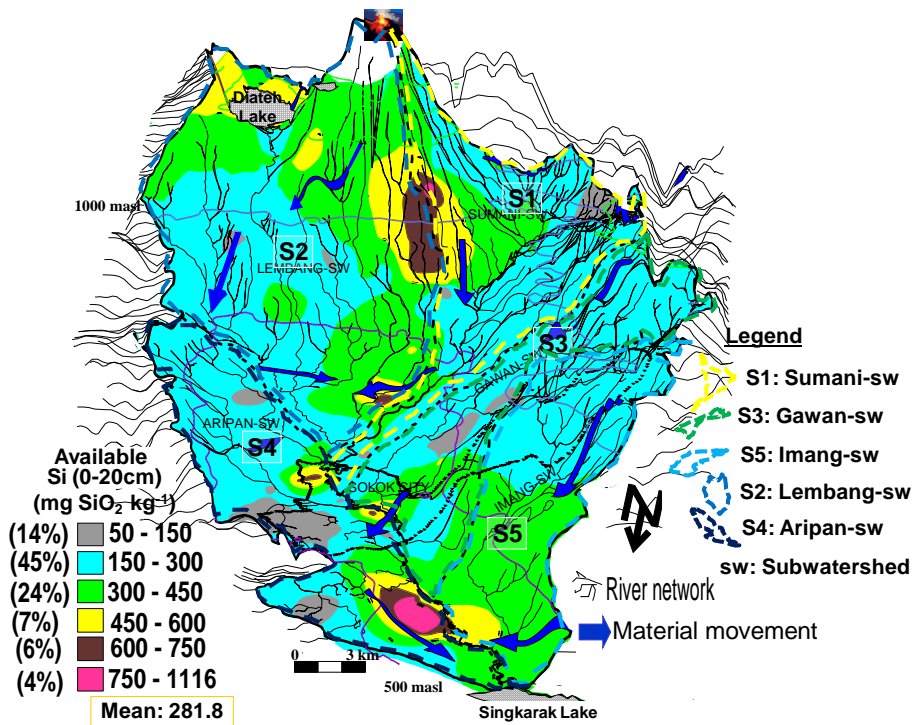


Fig. 7. Direction of material movement in Sumani watershed

Before



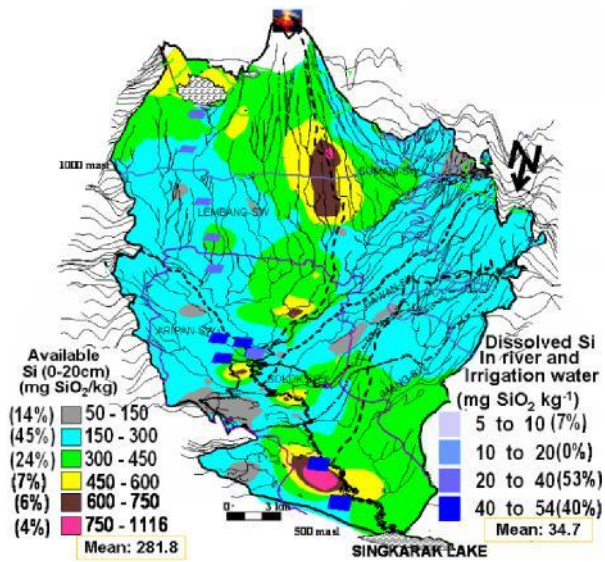


Fig. 8. Dissolved Si in river and irrigation water in the Sumani watershed.

After

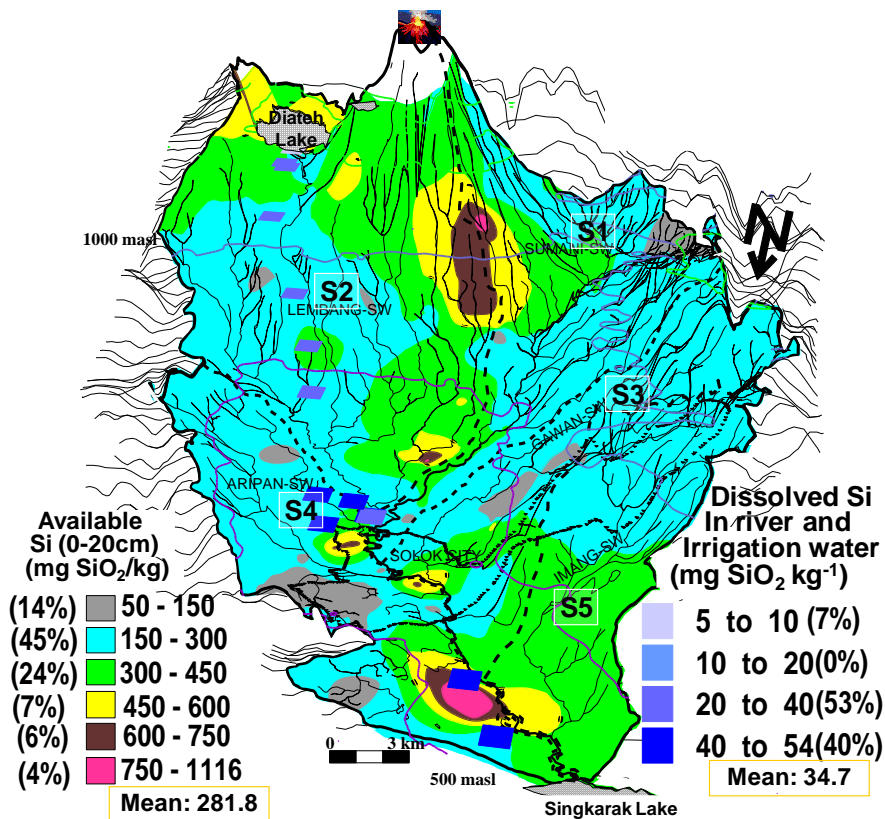


Fig. 8. Dissolved Si in river and irrigation water in Sumani watershed

Before

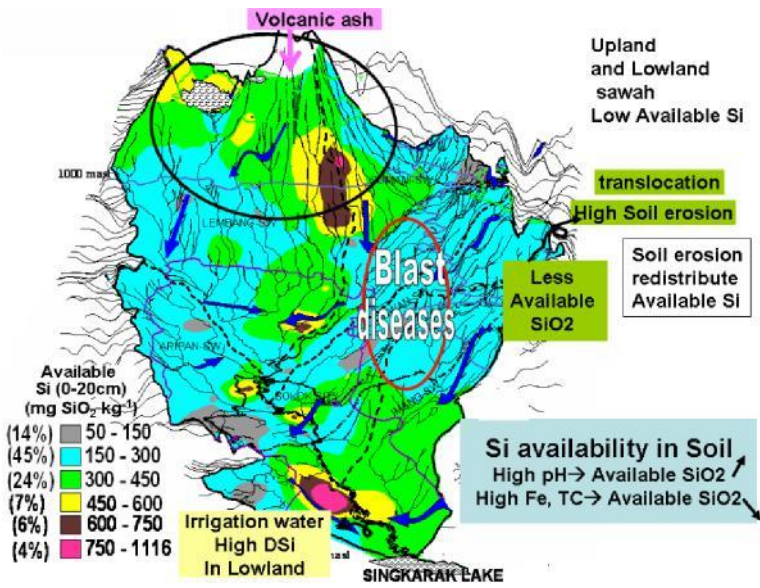


Fig. 9. Diagram of available-Si distribution influenced by various factors.

After

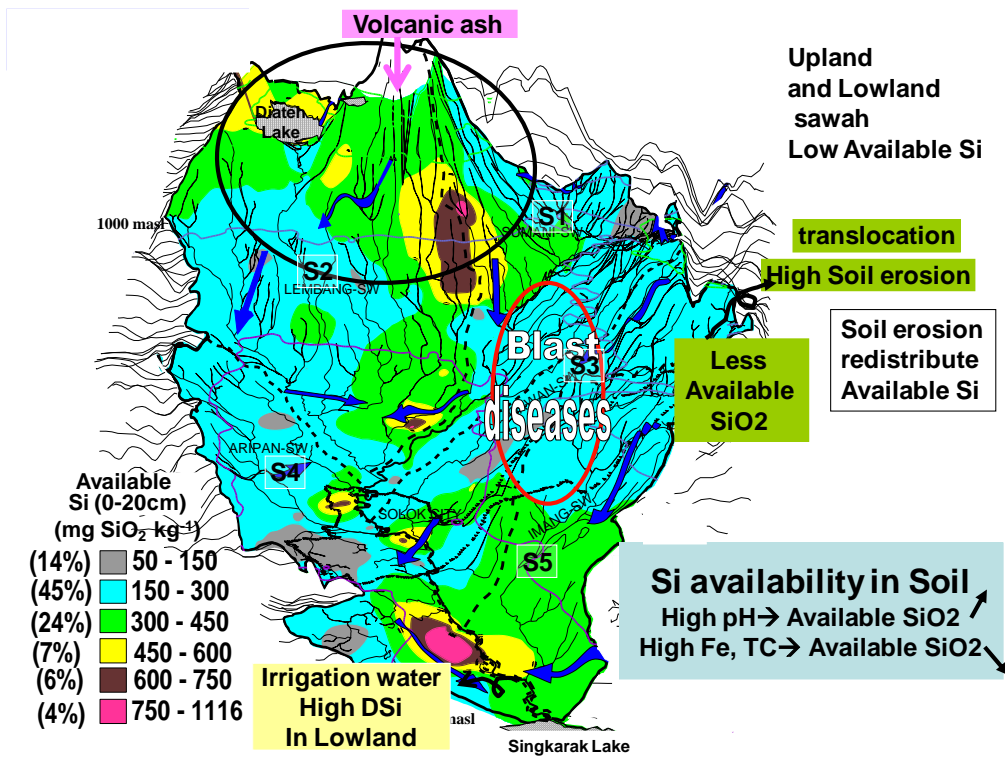


Fig. 9. Diagram of Available Si distribution influenced by the following factors

Dear Editor Geoderma,

We cordially apologize for your any inconvenience.

Sir/Madam, we are very pleased to be able to communicate you.

We have revised our manuscript according your suggestion.

We would be happy to provide any additional information you may need regarding our manuscript.

Thank you again for your valuable time and kind consideration.

We will look forward your amiable reply

Sincerely yours

Aflizar Ph.D of Agriculture

Staf Pengajar

Politeknik Pertanian Negeri Payakumbuh

Jl. Raya Tanjung Pati KM 7, Kec. Harau

Sumatera Barat-Indonesia PO.BOX 107

Answer to Reviwer 2

(1) The introduction section lacks a clear hypothesis. Moreover, the references in many places are also missing. So the introduction should be strengthened in why we conducted this study, which factors affects the distribution of Si, what are the present knowledge gap, what are your hypothesis, what are your research objective?

Answer

After

Wu. L, Beard, B.L, Roden, E.E, Johnson, C.M. 2009. Influence of pH and dissolved Si on Fe isotope fractionation during dissimilatory microbial reduction of hematite. *Geochimica et Cosmochimica Acta*, 73. 5584-5599.

Wang. Y, Zhang. X, Huang. C. 2009. Spatial variability of soil total nitrogen and soil total phosphorus under different land uses in a small watershed on the Loess Plateau, China. *Geoderma*. 150. 141-149.

Hartemink AE. 1998. Soil chemical and physical properties as indicators of sustainable land management under sugar cane in Papua New Guinea. *Geoderma* 85. 283-306.

Before

“volcanic ash and Si fertilizer of irrigation water can be natural sources. In sawah soil, pH, total carbon (TC) can be the factors controlling Si availability. Accordingly, we conducted a study on the distribution of available Si in relation to land-use types and soil-erosion status in the SW, a main rice-production area in West Sumatra, Indonesia. We have already previously observed that severe erosion occurred in the highlands of the watershed because of the land-use change from forest to agricultural field. Accordingly, we expected that these factors may influence available-Si distribution in the watershed. Soil erosion is generally regarded as a type of soil degradation. However, it may contribute to nutrient replenishment in sawah, especially in the lowlands, through the deposition of fine soil particles eroded from the highlands, as we discuss in this paper.

After

“**Top soil**, volcanic ash and Si fertilizer of irrigation water can be natural sources. In sawah soil, pH, total carbon (TC), **Total Nitrogen (TN)**, **Bace cation (Ca, K, Na)** and **trace metal (Fe)** can be the factors controlling Si availability. Accordingly, we conducted a study on the distribution of available Si in relation to land-use types and soil-erosion status in the SW, a main rice-production area in West Sumatra, Indonesia. We have already previously observed that severe erosion occurred in the highlands of the watershed because of the land-use change from forest to agricultural field. Accordingly, we expected that these factors may influence available-Si distribution in the watershed. Soil erosion is generally regarded as a type of soil degradation. However, it may contribute to nutrient replenishment in sawah, especially in the lowlands, through the deposition of fine soil particles eroded from the highlands, as we discuss in this paper.

Question 1 from Reviwer 2 yaitu apa kesenjangan pengetahuan saat ini dan apa hipotesis

hipotesis sudah kami tambahkan di atas

Before

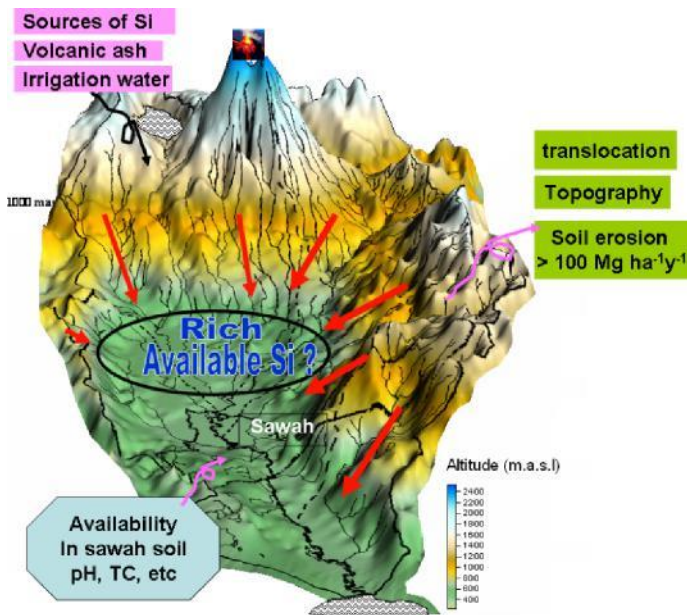
1. The present study aimed to determine the factors influencing the distribution of available Si in SW.
2. to develop a 3D map of soil erosion, available Si, and Land-use pattern distribution from a very large dataset through geostatistical method. In geostatistical methods, the dependence among samples is incorporated into the estimation process

After

1. The present study aimed to determine the factors influencing the distribution of available Si in SW.
4. to develop a 3D map of soil erosion, available Si, and Land-use pattern distribution from a very large dataset through geostatistical method. In geostatistical methods, the dependence among samples is incorporated into the estimation process

(2) Figures in the materials and methods section should be give more explanation in the figure captions, which can allow the reader easily understand the contents of the figure if not read the text.

Before



**Fig. 1.** Possible factors influencing the distribution of Si available in the Sumani watershed.

After



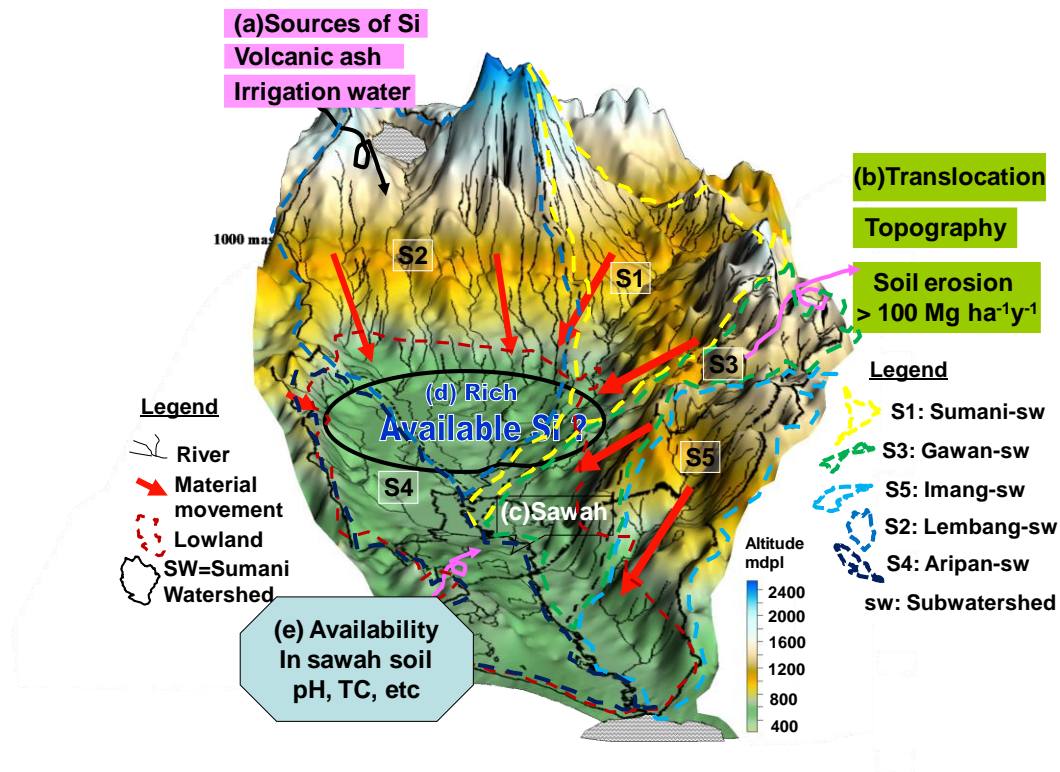
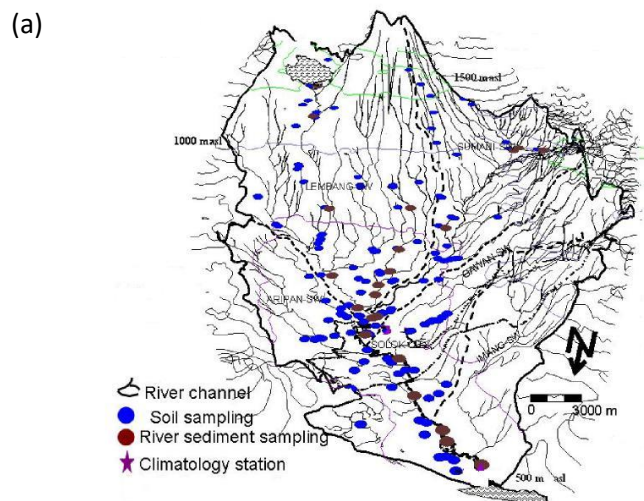


Figure 1. Possible factors influencing the distribution of silicon available in the Sumani watershed. (a) Natural Source of Si by Volcanic ash, irrigation water and Top soil; (b) Translocation of Si by Topography and Soil erosion; (c) Low and deficiency of Si in Sawah soil; (d) Rich available Si in Lowland; (e) available Si in sawah soil controlling by pH, TC, etc.

Before

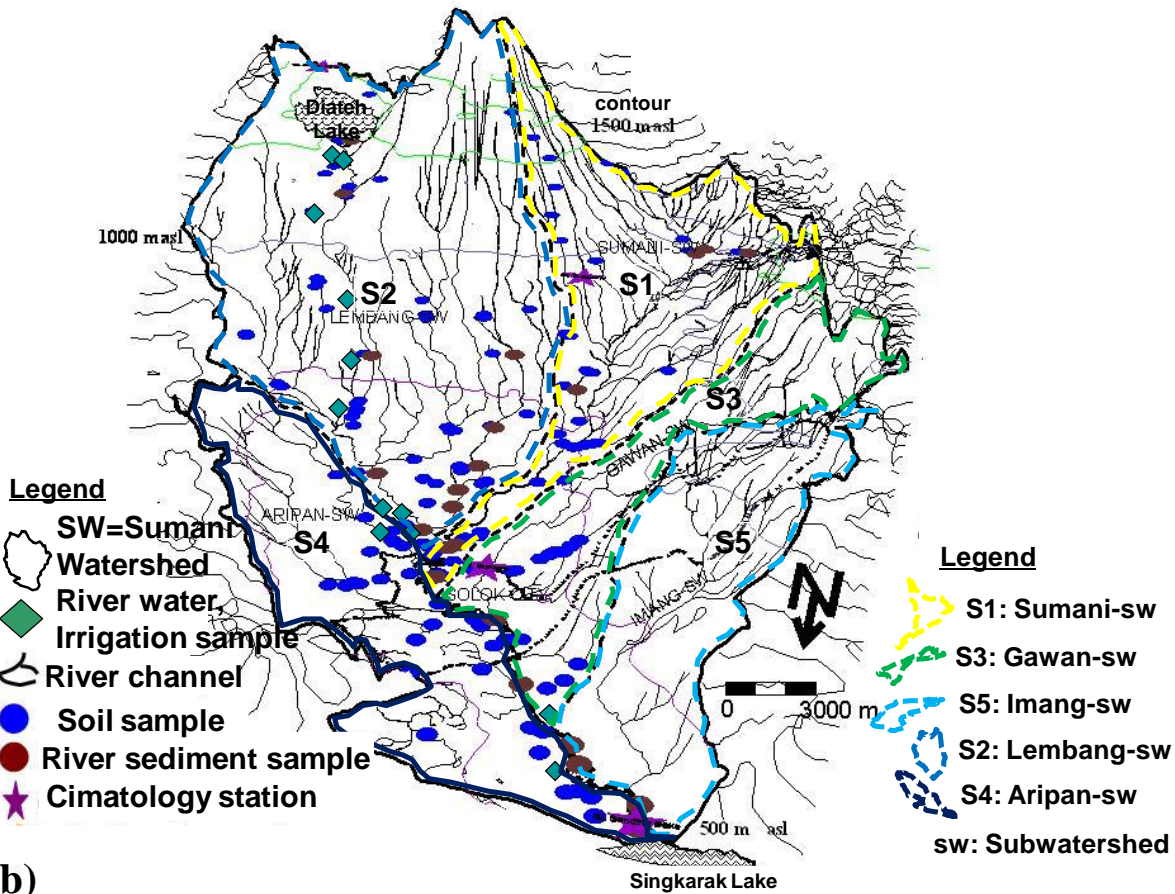




**Fig. 2.** Sampling point (a) and land-use type (b) in the SW.

After

(a)



(b)

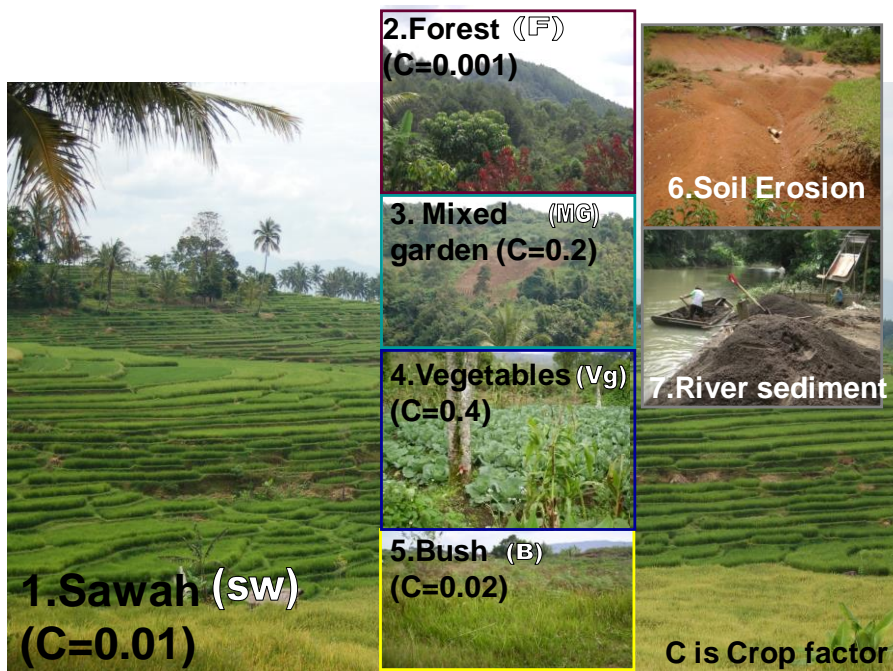


Figure 2. Sampling point (a) and land use type (b) in Sumani watershed: Field survey picture from: 1.Sawah; 2.Forest; 3.Mixed garden; 4.Vegetables; 5. Bush; 6. Soil erosion; 7.River sediment

Question no 2 from Reviwer 2

(3) Results and discussion section: I suggest split the result and discussion into two section. One section is result, which can clearly demonstrate the findings of the study, and another section is discussion

Answer

Before

### **3. Result and discussion**

*3.1. General soil physicochemical properties*

*3.2. Available Si and other general soil properties*

*3.3. Relationships between soil chemical properties and availability of SiO<sub>2</sub> in the SW.*

*3.4. Soil-erosion map and distribution of Si availability*

*3.5. Concentration of DSi in river water and irrigation*

*3.6. Cross-validation of field measurements*

4. Conclusions

After

### **3. Result**

*3.1. General soil physicochemical properties*

*3.2. Available Si and other general soil properties*

*3.3. Relationships between soil chemical properties and availability of SiO<sub>2</sub> in the SW.*

*3.4. Soil-erosion map and distribution of Si availability*

*3.5. Concentration of DSi in river water and irrigation*

*3.6. Cross-validation of field measurements*

4. Discussion

5. Conclusions

Jawaban Lanjutan

DISCUSSION

QUESTION 4 FROM Reviwer 2

(4) Rewrite the conclusion, which should be clearly demonstrate the CONCLUSIONS based on the obtained results and discussion. The present conclusion description is not good because a part of contents are not the conclusions that this paper can make.

Before

#### 4. Conclusions

Volcanic ash and Si from irrigation was a major source of Si in the SW. Soil erosion transported soil surface rich in SiO<sub>2</sub>, making it available to lowlands. Meanwhile, the river water in the surrounding highlands had high erosion and low SiO<sub>2</sub> availability. Low pH, high extractable Fe, and high exchangeable Na showed relatively low availability of SiO<sub>2</sub>. Given these factors, the availability of Si distribution in the SW. When Si availability in soil was low, We found rice blast disease. Generally, Si availability in the SW was low. However, in areas close to Mount Talang, is the height of the addition of SiO<sub>2</sub> from volcanic ash, also in the lowland areas through irrigation water. However, on the west side of the SW, the area we found the availability of SiO<sub>2</sub> sawah low especially at high topography on the west side of the SW, which is now found in many diseases according to the results of interviews with farmers. Blast disease occurred based on our observations but not in the area surrounding Mount Talang. This finding may be due to the contribution of SiO<sub>2</sub> from volcanic ash Mount Talang. For the sake of a sustainable management of watershed, we recommend the addition of SiO<sub>2</sub> to rice fields. Possible sources of SiO<sub>2</sub> include coal fly ash because it is so widely available in Indonesia.

#### After

Soil depth (0-20 cm), Si from irrigation and sediment was a major source of Si in the SW. Soil erosion transported soil surface rich in SiO<sub>2</sub>, making it available to lowlands sawah. Meanwhile, the river water in the surrounding highlands had high erosion and low SiO<sub>2</sub> availability. Low pH, high extractable Fe, and high exchangeable Na showed relatively low availability of SiO<sub>2</sub>. Given these factors, the availability of Si distribution in the SW. When Si availability in sawah soil was deficiency, We found rice blast disease. Generally, Si availability in the SW was low. However, in areas close to Mount Talang, is the height of the addition of SiO<sub>2</sub> from volcanic ash, also in the lowland areas through irrigation water. However, on the west side of the SW, the area we found the availability of SiO<sub>2</sub> sawah deficiency especially at high topography on the west side of the SW, which is now found in many diseases according to the results of interviews with farmers. Blast disease occurred based on our observations but not in the area surrounding Mount Talang. This finding may be due to the contribution of SiO<sub>2</sub> from volcanic ash Mount Talang.

For the sake of a sustainable management of watershed, we recommend the addition of SiO<sub>2</sub> to rice fields . Possible sources of SiO<sub>2</sub> include coal fly ash because it is so widely available in Indonesia.

pertanyaan 5 dari Reviwer 2

(5) Highlights should be rewritten, which need to deliver the key points of this study achieved.

(5) kelima yang digaris bawah harus ditulis ulang yang perlu menyampaikan poin-poin utama dari penelitian ini

Answer

Before

#### Highlights

- Distribution of available Si were investigated and discussed with land use types and soil erosion status.
- General soil physico-chemical properties were presented.
- Relationships between soil chemical properties and availability of Silica in Sumani watershed were presented.
- Soil erosion map and distribution Silicon availability were presented.
- The results showed that available Si levels in sawah soil was less than 300 mg SiO<sub>2</sub> kg<sup>-1</sup>.
- Available Si content in river sediments was also determined and was higher than those in sawah or other land uses.

Before

### **Acknowledgements**

We thank Professor Tsugiyuki Masunaga of Shimane University, Japan, for their invaluable help during XRF analysis, and many helpful suggestions. We are also grateful to DIKTI Indonesia for their support in this research.

After

### **Acknowledgements**

We thank Professor Tsugiyuki Masunaga of Shimane University, Japan, for their invaluable help during XRF analysis, and many helpful suggestions. We are also grateful to DIKTI-RISTEK Indonesia for their support in this research.

## Highlights

- The distribution of available Si in the Sumani watershed (SW) were investigated.
- Available Si content in river sediments higher than other land-use types.
- Available Si or soil rich in Si was redistributed through soil erosion.
- 3D soil-erosion map in the SW and distribution Si in soil were presented.
- Available SiO<sub>2</sub> and erosion-factor analyses in the SW were presented.

Dear Editor Geoderma,

We cordially apologize for your any inconvenience.

Sir/Madam, we are very pleased to be able to communicate you.

We have revised our manuscript according your suggestion.

We would be happy to provide any additional information you may need regarding our manuscript.

Thank you again for your valuable time and kind consideration.

We will look forward your amiable reply

Sincerely yours

Aflizar Ph.D of Agriculture

Staf Pengajar

Politeknik Pertanian Negeri Payakumbuh

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Answer to  
-Reviewer 1

Pertanyaan No. 1

1. Table 2 averages the soil properties of the eight different land types in the basin, what is the significance? What problem do you want to explain? The experiment of exchangeable K, exchangeable Ca, exchangeable Na and other elements appears in Table 2, but it does not explain these research contents in the introduction, which seems a bit abrupt.

Before

Table 2. General soil physicochemical properties in the Sumani watershed

	Mean	(Range)	SD	<i>r</i> <sub>a</sub>
Sand (%)	9.0	(0.4-58.0)	11	0.08
Very fine sand (%)	2.0	(0.4-9.0)	2	0.01
Silt (%)	55.0	(0.0-85.0)	20	0.02
Clay (%)	33.0	(9.0-95.0)	20	-0.05
Organic matter (g kg <sup>-1</sup> )	54.0	(21.0-111.0)	24	0.01
Soil permeability (cm h <sup>-1</sup> )	93.0	(0.0-1506.0)	286	0.01
Soil erodibility (K)	0.22	(0.0-0.5)	0.1	0.17*
Bulk density (g cm <sup>-3</sup> )	0.9	(0.5-1.3)	0.2	0.01
Soil pH H <sub>2</sub> O 1:2.5	5.5	(4.2-7.2)	0.5	0.32**
Total Carbon (g kg <sup>-1</sup> )	34.6	(7.2-151.4)	27.6	0.01
Total Nitrogen (g kg <sup>-1</sup> )	3	(0.4-9)	0.17	0.01
Exchangeable Ca (cmolc(+) kg <sup>-1</sup> )	10.6	(0.023-29.7)	6.1	0.45**
Exchangeable K (cmolc(+) kg <sup>-1</sup> )	0.4	(0.1-1.9)	0.4	0.38**
Exchangeable Na (cmolc(+) kg <sup>-1</sup> )	0.9	(0.002-3.7)	0.7	-0.28**
Extractable Fe (mg kg <sup>-1</sup> )	204.2	(0.02-1500.6)	289	-0.17*
Available Si 0-20 cm (mg SiO <sub>2</sub> kg <sup>-1</sup> )	300.0	(89.4-1115.4)	177	

Tables 1 and 2 show general soil physicochemical properties in the SW. The soil had

high silt and clay contents and organic matter content of about 5%. Soil permeability and erodibility were high. According to Wischmeier and Smith (1978), soils with K-factor > 0.04 are generally susceptible to soil erosion. Soil susceptibility to erosion is highly influenced by different climatic, physical, hydrological, chemical, mineralogical, and biological properties (Veihe 2002). Total nitrogen and available Si are low, whereas TC, extractable Fe and Zn are high. Exchangeable base cations (Ca, Mg, K, and Na) were relatively high. Soil physicochemical properties had some correlation with available Si in the SW (Table 2).

After

Table 2. General soil physico-chemical properties in Sumani watershed

	Mean	Cri- teria	(Range)	SD	r a
Sand (%)	9.0		(0.4-58.0)	11	0.08
Very fine sand(%)	2.0		(0.4-9.0)	2	0.01
Silt(%)	55.0		(0.0-85.0)	20	0.02
Clay (%)	33.0		(9.0-95.0)	20	-0.05
Organic matter (g kg-1)	54.0	<b>h</b>	(21.0-111.0)	24	0.01
Soil permeability (cm h-1)	93.0		(0.0-1506.0)	286	0.01
Soil erodibility (K)	0.22	<b>h</b>	(0.0-0.5)	0.1	0.17*
Bulk density (g cm-3)	0.9		(0.5-1.3)	0.2	0.01
Soil pH H2O 1:2.5	5.5	<b>a</b>	(4.2-7.2)	0.5	0.32**
Total Carbon (g kg-1)	34.6	<b>h</b>	(7.2-151.4)	27.6	0.01
Total Nitrogen (g kg-1)	3	<b>m</b>	(0.4-9)	0.17	0.01
Exchangeable Ca (cmolc(+) kg-1)	10.6	<b>m</b>	(0.023-29.7)	6.1	0.45**
Exchangeable K (cmolc(+) kg-1)	0.4	<b>m</b>	(0.1-1.9)	0.4	0.38**
Exchangeable Na (cmolc(+) kg-1)	0.9	<b>h</b>	(0.002-3.7)	0.7	-0.28**
Extractable Fe (mg kg-1)	204.2	<b>h</b>	(0.02-1500.6)	289	-0.17*
Available Si 0-20 cm (mg SiO2 kg-1)	300.0	<b>l</b>	(89.4-1115.4)	177	

**\*\***, P Value <0.01 and **\***, P value < 0,05; SD=standar deviation; r=correlation; h=high; m=medium; l=low; a=acid

Answer to

-Reviewer 1

2. The subheadings 3.1 and 3.2 are not clear enough.

Before

Table 1. Available SiO<sub>2</sub> (mg/kg) and erosion-factor analyses in sampling sites in the Sumani watershed

Tables 1 and 2 show general soil physicochemical properties in the SW.

After

Table 1. Available SiO<sub>2</sub> (mg/kg) and erosion-factor analyses in sampling sited in the Sumani watershed

No	Location	Sub watershed	Land use	GPS Reading		R	K	LS	C	P	Erosion Mg/ha/yr	SiO <sub>2</sub> (0-20) mg SiO <sub>2</sub> /kg	SiO <sub>2</sub> Status in soil
				East	South								
1	jawi-jawi 1	Sumani	Sawah	681009	9898946	2452,0	0,1	0,0640	0,010	0,4	5,0	204,64	d
2	jawi-jawi 2	Sumani	Sawah	681007	9898924	2452,0	0,1	0,0640	0,010	0,4	5,0	559,71	l
3	jawi-jawi 3	Sumani	Sawah	680846	9899016	2452,0	0,1	0,0640	0,010	0,4	10,0	138,86	d
4	Gantung ciri 1	Sumani	Sawah	679766	9900725	2452,0	0,3	0,0010	0,010	0,4	0,1	258,86	d
5	Gantung ciri 2	Sumani	Sawah	679906	9900722	2452,0	0,3	0,0010	0,010	0,4	0,1	308,79	l
6	Gantung ciri 3	Sumani	Sawah	679994	9900676	2452,0	0,30	0,0010	0,010	0,4	5,0	271,93	d
7	Kelok Duri	Sumani	Sawah	682301	9909213	2452,0	0,10	0,0640	0,010	0,4	2,0	207,86	d
8	Selayo	Sumani	Sawah	682677	9909496	2452,0	0,10	0,0640	0,010	0,4	2,5	127,07	d
9	Sawah sudut 1	Sumani	Sawah	682689	9909403	2452,0	0,10	0,0640	0,010	0,4	2,0	201,64	d
10	Sawah sudut2	Sumani	Sawah	682753	9909451	2452,0	0,10	0,0640	0,010	0,4	2,0	200,79	d
11	Gawan-Lawang 1	Sumani	Sawah	682988	9911695	2452,0	0,30	0,0010	0,010	0,4	15,0	145,50	d
12	Gawan-sungai 2	Sumani	Sawah	683204	9911613	2452,0	0,30	0,0010	0,010	0,4	10,0	148,29	d
13	Gawan-sungai 3	Sumani	Sawah	683159	9911560	2452,0	0,30	0,0010	0,010	0,4	15,0	250,71	d
14	Batu Banyak 1	Lembang	Sawah	690240	9894285	1665,0	0,01	0,6110	0,010	0,4	5,0	157,07	d
15	Bukik Sileh 2	Lembang	Sawah	690168	9894089	1665,0	0,01	0,6110	0,010	0,4	5,0	168,00	d
16	Anau kadok 4	Lembang	Sawah	690190	9894077	1665,0	0,01	0,6110	0,010	0,4	5,0	331,07	l
17	Bukik Sileh 4	Lembang	Sawah	690146	9894586	1665,0	0,01	0,6110	0,010	0,4	7,5	230,14	d
18	Koto Lawas 1	Lembang	Sawah	690485	9898085	2452,0	0,01	1,7440	0,010	0,4	0,2	148,07	d
19	Koto Lawas 2	Lembang	Sawah	690385	9898220	2452,0	0,01	1,7440	0,010	0,4	0,2	308,14	l
20	Koto Lawas 3	Lembang	Sawah	690391	9898224	2452,0	0,01	1,7440	0,010	0,4	10,0	241,71	d
21	Batu banyak	Lembang	Sawah	689859	9899180	2452,0	0,05	0,0640	0,010	0,4	15,0	203,57	d
22	Koto Anau	Lembang	Sawah	687948	9902605	2452,0	0,48	0,0640	0,010	0,4	5,0	124,29	d
23	Sawah Durian 2	Lembang	Sawah	687963	9902709	2452,0	0,48	0,0680	0,010	0,4	5,0	192,64	d
24	Sawah Durian 3	Lembang	Sawah	688040	9902988	2452,0	0,30	0,0640	0,010	0,4	5,0	165,21	d
25	Pandan Putih 1	Aripan	Sawah	684981	9909986	2452,0	0,30	0,0640	0,010	0,4	5,0	339,86	l
26	Pandan Putih 2	Aripan	Sawah	684868	9910153	2452,0	0,30	0,0640	0,010	0,4	5,0	249,64	d
27	Rawang sari	Aripan	Sawah	684560	9910295	2452,0	0,30	0,0640	0,010	0,4	5,0	427,07	l
28	Pandan ujung 1	Aripan	Sawah	685806	9912702	2452,0	0,10	0,0010	0,010	0,4	5,0	89,36	d
29	Pandan ujung 2	Aripan	Sawah	685820	9912612	2452,0	0,10	0,0010	0,010	0,4	5,0	164,79	d
30	Pandan ujung 3	Aripan	Sawah	685664	9912492	2452,0	0,10	0,0010	0,010	0,4	5,0	192,00	d
31	Pandan ujung 6	Aripan	Sawah	685437	9912538	2452,0	0,10	0,0010	0,010	0,4	5,0	184,71	d
32	Parambahan 1	Aripan	Sawah	690900	9902399	2452,0	0,30	0,6110	0,010	0,4	1,8	306,43	l
33	Parambahan 2	Lembang	Sawah	690786	9902411	2452,0	0,30	0,6110	0,010	0,4	1,8	280,50	d
34	Parambahan 3	Lembang	Sawah	690734	9902391	2452,0	0,30	0,0640	0,010	0,4	0,2	227,14	d
35	Sungai janih	Lembang	Sawah	686383	9898559	2452,0	0,05	0,0640	0,010	0,4	15,0	113,36	d
36	Gunung Talang	Lembang	Sawah	686155	9898931	2452,0	0,05	0,0640	0,010	0,4	10,0	162,64	d
37	Batu Bajanjang	Lembang	Sawah	686201	9898830	2452,0	0,05	0,0640	0,010	0,4	10,0	120,86	d
38	Air angek 1	Lembang	Sawah	684168	9898356	2452,0	0,30	0,0640	0,010	0,4	5,0	500,57	l
39	Anau Kadok 2	Lembang	Sawah	684089	9898413	2452,0	0,30	0,0640	0,010	0,4	5,0	139,50	d
40	Anau Kadok 3	Lembang	Sawah	684138	9898260	2452,0	0,30	0,0640	0,010	0,4	10,0	243,21	d
41	Pasar usang	Lembang	Sawah	684550	9903109	2452,0	0,30	0,0640	0,010	0,4	5,0	374,57	l
42	Panyalaian Cupak	Lembang	Sawah	684404	9903287	2452,0	0,30	0,0640	0,010	0,4	0,2	364,71	l
43	Kubu	Gawan	Mixed Garden	679336	9910716	2452,0	0,30	2,5120	0,200	0,5	640,0	534,86	l
44	Parak gadang	Gawan	Mixed Garden	680767	9911154	2452,0	0,30	0,0640	0,200	0,5	45,0	445,29	l
45	Gunung Talang	Sumani	Mixed Garden	681796	9902683	2452,0	0,10	0,0640	0,200	0,5	30,0	476,79	l
46	Gantung Ciri	Sumani	Mixed Garden	679878	9903305	2452,0	0,20	0,0640	0,200	0,5	5,0	211,71	d
47	Curang gadang sasak	Sumani	Sawah	677000	9902000	2452,0	0,09	2,5120	0,010	0,4	115,0	262,29	d
48	Kayu aro	Sumani	Tea	680022	9890308	1665,0	0,07	0,0640	0,001	1,0	20,0	326,79	l
49	Pasar usang guguk	Lembang	Mixed Garden	682500	9898000	2452,0	6,10	0,0640	0,200	0,5	45,0	679,07	h
50	Koto baru	Lembang	Sawah	683508	9905910	2452,0	0,20	0,0640	0,010	0,4	3,0	508,07	h
51	Lembang	Aripan	Bush	681302	9914208	2452,0	0,20	0,0010	0,950	0,4	1,0	543,00	h
52	Jawi-jawi	Sumani	Mixed Garden	679878	9903305	2452,0	0,20	0,0640	0,200	0,5	5,0	955,71	h
53	Sukarami BPTP	Sumani	Bush	680390	9895606	1665,0	0,10	0,0640	0,290	1,0	15,0	447,86	l
54	Danau kembang	Sumani	Tea	680586	9890624	1665,0	0,07	0,0640	0,001	1,0	15,0	217,93	d
55	Air batumbuk	Lembang	Bush	685164	9886435	1665,0	0,20	0,0640	0,290	1,0	85,0	260,79	d
56	Bungo tanjung	Lembang	Mixed Garden	693126	9883658	1665,0	0,10	1,7440	0,200	0,5	5,0	382,71	l
57	Air tawar	Lembang	Mixed Garden	691000	9887152	1665,0	0,10	2,5120	0,200	0,5	30,0	497,79	l
58	Bukik sileh	Lembang	Sawah	688906	9894277	1665,0	0,00	2,1380	0,010	0,4	5,0	509,14	l
59	Koto anau	Lembang	Sawah	687977	9902100	2452,0	0,20	0,0010	0,010	0,4	5,0	245,79	d
60	Air Mati	Aripan	Bush	684848	9912166	2452,0	0,30	2,1380	0,950	0,4	1,0	616,29	h
61	Bukik gompong	Sumani	Mixed Garden	681722	9895558	1665,0	0,10	2,1380	0,200	0,5	85,0	576,64	l
62	Kampung jawa 1	Sumani	Mixed Garden	682165	9894832	1665,0	0,10	2,1380	0,200	0,5	65,0	857,14	h
63	Kampung jawa 2	Sumani	Mixed Garden	682148	9894165	1665,0	0,02	3,6130	0,200	0,5	10,0	227,36	d
64	Tower TVRI 2	Sumani	Forest	682440	9893752	1665,0	0,02	2,8770	0,001	1,0	40,0	316,50	l
65	Tower bukik gompong	Sumani	Forest	683120	9893547	1665,0	0,06	2,8770	0,001	1,0	5,0	358,29	l
66	Laing 1	Aripan	Grass	680718	9915222	2452,0	0,10	0,0010	0,290	1,0	2,5	89,36	d

67	Laing 2	Aripan	Forest	685090	9917469	2452,0	0,48	2,1380	0,001	1,0	3,5	560,79	l
68	Laing 3	Aripan	Grass	685251	9917230	2452,0	0,48	2,1380	0,290	1,0	285,0	243,86	d
69	Laing 4	Aripan	Mixed Garden	685283	9917147	2452,0	0,48	2,1380	0,200	0,5	270,0	98,57	d
70	Saok laweh	Aripan	Sawah	686353	9912829	2452,0	0,10	0,0010	0,010	0,4	5,0	261,00	d
71	Ganangan	Lembang	Mixed Garden	684733	9906341	2452,0	0,20	0,0640	0,200	0,5	10,0	437,36	l
72	Balai pinang	Lembang	Sawah	685276	9905296	2452,0	0,30	0,0640	0,010	0,4	0,2	289,29	d
73	Guguk rantau	Lembang	Bush	682703	9906436	2452,0	0,20	0,0640	0,290	1,0	5,0	372,00	l
74	Koto baru	Lembang	Forest	682595	9906283	2452,0	0,20	0,0010	0,001	1,0	5,0	791,14	h
75	Sawah suduk	Sumani	Bush	682276	9908944	2452,0	0,10	0,0640	0,290	1,0	5,0	313,29	l
76	Pakan senayan	Sumani	Mixed Garden	680780	9906663	2452,0	0,10	0,0640	0,200	0,5	1,6	201,21	d
77	Selayo	Gawan	Sawah	679843	9907068	2452,0	0,30	0,0640	0,010	0,4	5,0	264,43	d
78	Durian X koto	Gawan	Forest	680026	9914546	2452,0	0,10	0,0010	0,001	1,0	0,0	153,64	d
79	Koto sani	Imang	Bush	678451	9916455	2452,0	0,30	0,0010	0,290	1,0	0,2	309,00	l
80	Aie angek	Imang	Mixed Garden	678169	9915663	2452,0	0,20	2,5120	0,200	0,5	123,2	355,71	l
81	Sumani 1	Imang	Sawah	677426	9921191	1288,0	0,10	0,0010	0,010	0,4	5,0	292,50	d
82	Panyalaian Cupak	Lembang	Sawah	684275	9903267	2452,0	0,30	0,0640	0,010	0,4	5,0	299,36	d
83	Sumani 2	Aripan	Sawah	677681	9921448	1288,0	0,10	0,0010	0,010	0,4	5,0	128,36	d
84	Aur Duri	Imang	Sawah	678648	9919152	1288,0	0,10	0,0640	0,010	0,4	25,0	392,14	l
85	Belimbing	Imang	Sawah	678905	9916775	2452,0	0,30	0,0010	0,010	0,4	3,0	313,50	l
86	Durian	Aripan	Sawah	680453	9914773	2452,0	0,10	0,0010	0,010	0,4	4,0	295,93	d
87	Sawah Parit	Aripan	Sawah	685480	9910916	2452,0	0,30	0,0640	0,010	0,4	10,0	182,36	d
88	Guguk Dama	Aripan	Sawah	685080	9909609	2452,0	0,30	0,0640	0,010	0,4	5,0	228,64	d
89	Batu Juriang	Aripan	Sawah	686098	9908995	2452,0	0,20	0,064	0,010	0,4	10,0	288,86	d
90	Muaro Paneh	Aripan	Sawah	687639	9906755	2452,0	0,20	0,064	0,010	0,4	4,0	120,64	d
91	Koto Gadang Koto Anu	Lembang	Sawah	687895	9903389	2452,0	0,30	0,064	0,010	0,4	5,0	200,57	d
92	Koto Anau	Lembang	Sawah	688034	9902271	2452,0	0,20	0,064	0,010	0,4	5,0	235,93	d
93	Koto Laweh	Lembang	Sawah	690464	9898410	1665,0	0,01	1,744	0,010	0,4	3,0	200,79	d
94	Bukit Sileh	Lembang	Sawah	691249	9895502	1665,0	0,10	0,064	0,010	0,4	20,0	196,70	d
95	Bukit Sileh 2	Lembang	Vegetable	691275	9895481	1665,0	0,10	0,064	0,400	0,5	20,0	203,79	d
96	Kampung Batu	Lembang	Sawah	691024	9893027	1665,0	0,10	0,064	0,010	0,4	5,0	310,29	l
97	Kampung Batu 2	Lembang	Vegetable	691156	9891364	1665,0	0,10	0,064	0,400	0,5	50,0	102,43	d
98	Dilam 1	Lembang	Sawah	692432	9900886	1665,0	0,30	3,399	0,010	0,4	10,0	157,50	d
99	Dilam 2	Lembang	Sawah	692462	9900828	1665,0	0,30	3,399	0,010	0,4	10,0	152,79	d
100	Dilam 3	Lembang	Sawah	692483	9900815	1665,0	0,30	3,399	0,010	0,4	10,0	189,43	d
101	Sumani 3	Aripan	Mixed Garden	677030	9921312	1288,0	0,10	0,001	0,010	0,4	0,0	412,07	l
102	Aripan 1	Aripan	Mixed Garden	676813	9922182	1288,0	0,10	0,001	0,200	0,5	0,0	355,29	l
103	Aripan 2	Aripan	Mixed Garden	678613	9919968	1288,0	0,10	0,064	0,200	0,5	1,0	1115,36	h
104	Aripan Pompa	Aripan	Mixed Garden	679004	9919123	1288,0	0,10	0,064	0,200	0,5	1,0	756,43	h
105	Tanjung Bingkung	Aripan	Mixed Garden	680785	9916791	2452,0	0,30	0,611	0,200	0,5	56,0	427,93	l
106	Bbanda pandan	Aripan	Mixed Garden	681581	9913781	2452,0	0,20	0,001	0,200	0,5	1,0	633,00	h
107	Kota Solok	Aripan	Mixed Garden	684026	9911713	2452,0	0,30	0,064	0,010	0,4	1,0	634,50	h
108	Batu kualo	Lembang	Mixed Garden	684727	9909217	2452,0	0,20	0,064	0,200	0,5	5,0	296,36	d
109	Muaro paneh	Lembang	Mixed Garden	686990	9906478	2452,0	0,20	0,064	0,200	0,5	5,0	200,79	d
110	Lembang atas	Lembang	Mixed Garden	688122	9900659	2452,0	0,05	0,611	0,200	0,5	28,0	391,50	l
111	Bukit sileh	Lembang	Mixed Garden	690986	9894498	1665,0	0,20	3,400	0,200	0,5	200,0	389,79	l
112	Batu banyak	Lembang	Mixed Garden	691380	9891131	1665,0	0,10	0,611	0,200	0,5	14,0	794,14	h
113	Kubung	Lembang	Mixed Garden	684313	9907711	2452,0	0,20	0,064	0,200	0,5	5,0	166,93	d
114	Bukik kili 1	Lembang	Mixed Garden	684276	9906492	2452,0	0,20	0,064	0,200	0,5	5,0	375,00	l
115	Bukik Kili 2	Lembang	Mixed Garden	683659	9905507	2452,0	0,30	0,064	0,200	0,5	0,0	329,14	l
116	Cupak sungai	Lembang	Mixed Garden	683030	9903030	2452,0	0,30	0,064	0,200	0,5	5,0	308,57	l
117	Talang	Lembang	Mixed Garden	683500	9900067	2452,0	0,20	0,064	0,200	0,5	5,0	334,71	l
118	Lubuk silasih	Sumani	Mixed Garden	677332	9893200	1665,0	0,05	1,740	0,200	0,5	56,0	216,21	d
119	Lubuk silasih 2	Sumani	Mixed Garden	677090	9893546	1665,0	0,05	0,610	0,200	0,5	5,0	391,07	l
120	Lubuk selasih 3	Sumani	Forest	675194	9893700	1665,0	0,05	0,001	0,200	0,5	1,0	106,29	d
121	Kapalo banda	Sumani	Mixed Garden	680662	9901560	2452,0	0,30	0,001	0,01	0,4	0,0	289,29	d
122	Kota Solok 2	Lembang	Mixed Garden	683872	9910003	2452,0	0,30	0,064	0,20	0,5	5,0	229,07	d
123	Kota Solok 3	Lembang	Mixed Garden	683981	9909967	2452,0	0,30	0,001	0,20	0,5	1,0	343,29	l
124	Aripan 3	Aripan	Mixed Garden	681485	9920988	1288,0	0,09	0,001	0,20	0,5	1,0	101,57	d
125	Kubung 1	Sumani	Sawah	683541	9910512	2452,0	0,30	0,001	0,01	0,4	1,0	209,57	d
126	Kubung 2	Sumani	Sawah	682817	9910806	2452,0	0,30	0,064	0,01	0,4	1,0	179,14	d
127	Batu palano	Gawan	sawah	680861	9911165	2452,0	0,30	0,064	0,20	0,5	5,0	220,07	d
128	Ketaping 1	Gawan	Sawah	680081	9910640	2452,0	0,30	0,611	0,01	0,4	1,0	201,86	d
129	Ketaping 2	Gawan	Mixed Garden	679815	9910540	2452,0	0,30	0,611	0,20	0,5	100,0	282,86	d
130	Ketaping 3	Gawan	Sawah	679659	9910488	2452,0	0,30	0,611	0,01	0,4	1,0	220,07	d
131	Ketaping 4	Gawan	Mixed Garden	679437	9910599	2452,0	0,30	0,064	0,20	0,5	5,0	137,57	d
132	Gawan 1	Gawan	Forest	679098	9910622	2452,0	0,30	2,510	0,00	1,0	1,0	136,29	d
133	Bukit kili 1	Gawan	Forest	678850	9910573	2452,0	0,09	2,510	0,00	1,0	1,0	130,29	d
134	Bukit Kili 2	Gawan	Sawah	682115	9911144	2452,0	0,30	0,064	0,01	0,4	1,0	255,86	d
135	Aripan 4	Aripan	Sawah	682803	9913171	2452,0	0,20	0,001	0,01	0,4	5,0	127,29	d
136	Aripan 5	Aripan	Mixed Garden	682701	9914550	2452,0	0,20	0,001	0,20	0,5	0,0	150,21	d
137	Destamar 1	Aripan	Mixed Garden	682863	9916064	2452,0	0,10	0,001	0,20	0,5	0,0	94,07	d
138	Destamar 2	Aripan	Mixed Garden	682652	9917803	2452,0	0,40	0,064	0,20	0,5	100,0	113,36	d
139	Destamar 3	Aripan	Mixed Garden	682652	9917803	2452,0	0,40	2,140	0,20	0,5	100,0	263,57	d
140	Gantung Ciri 1	Sumani	Sawah	680501	9903987	2452,0	0,10	0,064	0,01	0,4	1,0	309,86	l
141	Gantung Ciri 2	Sumani	Sawah	679916	9904572	2452,0	0,20	0,001	0,01	0,4	1,0	292,00	d
142	Puluan 1	Sumani	Mixed Garden	679772	9904605	2452,0	0,20	0,064	0,20	0,5	1,0	421,93	l
143	Puluan 2	Sumani	Sawah	679503	9904591	2452,0	0,20	0,064	0,01	0,4	1,0	313,50	l
144	Puluan 3	Sumani	Mixed Garden	679278	9904592	2452,0	0,20	0,611	0,20	0,4	14,0	194,36	d
145	Bukit Singo-singo	Sumani	Mixed Garden	679032	9904638	2452,0	0,20	0,611	0,40	0,5	56,0	178,71	d
146	Bukit Singo-singo 2	Sumani	Mixed Garden	680264	9904469	2452,0	0,20	0,611	0,01	0,4	28,0	274,07	d
					Mean							299,80	
					Median							259,83	
					Max							1115,36	
					Min							89,36	
					SD							177,21	

d=deficiency concentration of Si; l=low concentration of Si; h= high concentration of Si

Answer to  
-Reviewer 1

Pertanyaan No. 3

3. The location of the five catchment areas in the watershed in the 3D map is not clear enough.

3. Lokasi lima daerah tangkapan air di DAS di peta 3D tidak cukup jelas.

Answer

Before

**Fig. 1.** Possible factors influencing the distribution of Si available in the Sumani watershed.

After

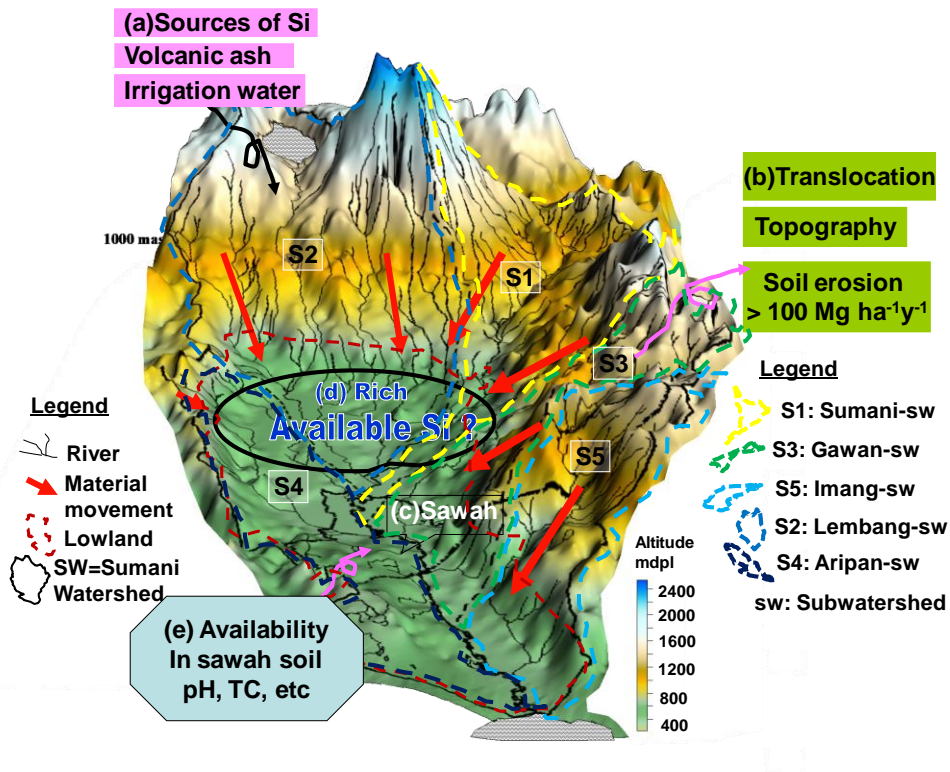


Figure 1. Possible factors influencing the distribution of silicon available in the Sumani watershed. (a) Natural Source of Si by Volcanic ash, irrigation water and Top soil; (b) Translocation of Si by Topography and Soil erosion; (c) Low and deficiency of Si in Sawah soil; (d) Rich available Si in Lowland; (e) available Si in sawah soil controlling by pH, TC, etc.

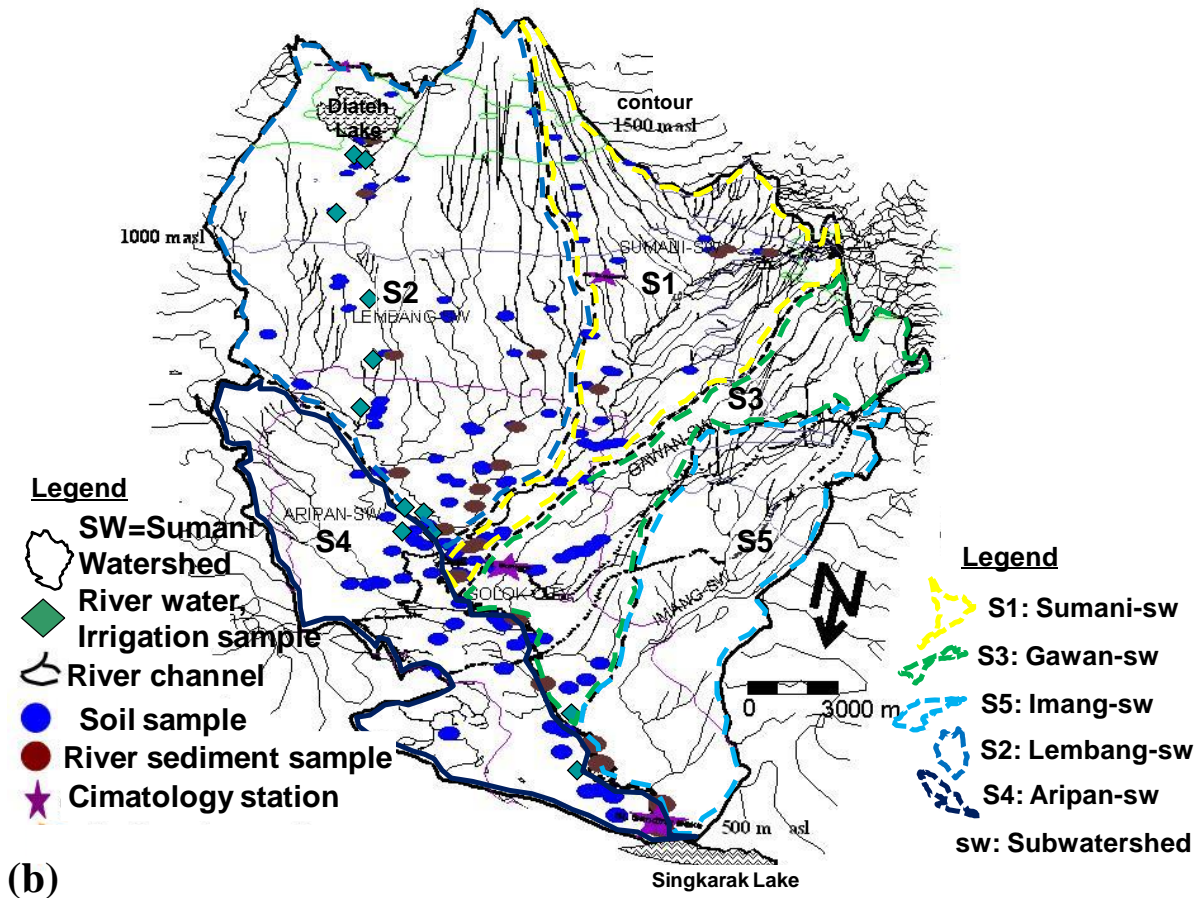
Before

(a)

**Fig. 2.** sampling point (a) and land-use type (b) in the SW.



After  
(a)



(b)

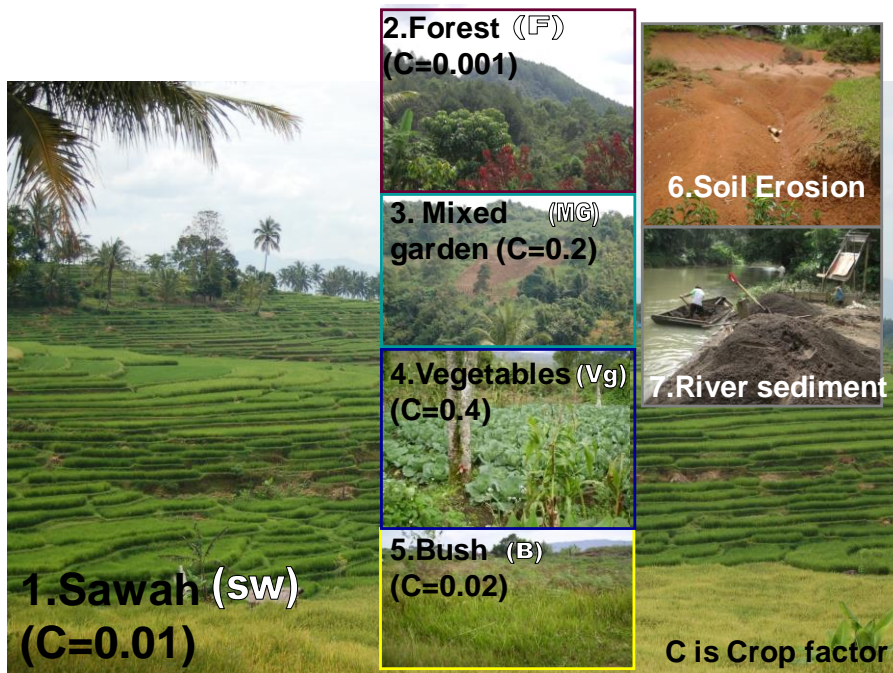


Figure 2. Sampling point (a) and land use type (b) in Sumani watershed: Field survey picture from: 1.Sawah; 2.Forest; 3.Mixed garden; 4.Vegetables; 5. Bush; 6. Soil erosion; 7.River sediment



Before

Fig. 4. 3D soil-erosion map in the Sumani watershed.

After

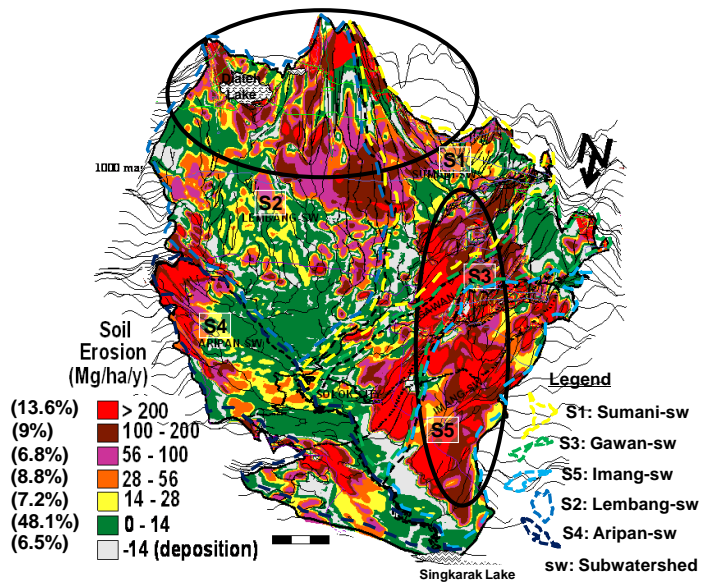


Figure 4. 3 D Soil erosion Map in Sumani watershed.