

MINGGU IV

Friday, March 10, 2017

MATA KULIAH PILIHAN

MANAJEMEN JASA LANSKAP

ARL 333 : 2 (2-0) 2



DEPARTEMEN ARSITEKTUR LANSKAP
FAKULTAS PERTANIAN
INSTITUT PERTANIAN BOGOR
17 March 2017

STAF PENGAJAR

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23 March 2017

MANAJEMEN JASA LANSKAP

EVALUASI TUGAS ANALISIS


ARL 333 : 2 (2-0) 2

Hitung nilai Indeks Shanon Wiener pada pekarangan berikut ini.

No.	Nama Spesies	Family	Jumlah	pi	ln pi	pi ln pi
1.	<i>Gnetum gnemon</i>	Gnetaceae	3			
2.	<i>Cyperus rotundus</i>	Cyperaceae	5			
3.	<i>Nepheium lappaceum</i>	Rubiaceae	1			
4.	<i>Artocarpus integra</i>	Moraceae	1			
5.	<i>Averrhoa carambola</i>	Oxalidaceae	4			
6.	<i>Averrhoa bilimbi</i>	Oxalidaceae	2			
7.	<i>Leucaena leucocephala</i>	Fabaceae	2			
8.	<i>Mimosa pudica</i>	Fabaceae	5			
9.	<i>Syzygium aqueum</i>	Myrtaceae	1			
Total Individu			24			

Jawabannya H' = 2,02355

23 March 2017



Please join leading scientists with the CGIAR Research Program on Forests, Trees and Agroforestry (FTA) for a virtual symposium

Cool insights for a hot world: Trees and forests recycle water and modify climate

21 March 2017, 2:30-6:00pm Jakarta time (GMT+7)

Center for International Forestry Research (CIFOR)
Jalan CIFOR,
Situ Gede,
Bogor Barat 16115
Indonesia

If you wish to attend, please RSVP by 18 May, 2017 to Mentia Ihty Wulandari at m.wulandari@cgiar.org. Please note that space is limited – a first come, first served policy will apply.

Alternatively, you can join the event online. The symposium will be broadcast as an online webinar, connecting to a parallel session hosted by the World Agroforestry Centre at their headquarters in Nairobi, Kenya.

For more information, please visit the [event page](#) and read the [publication](#).

23 March 2017

TERCEPAT!

Submitted on 2017/03/09 at 6:38 pm

Nilai Indeks Shannon Wiener pada pekarangan tersebut adalah 2 oleh karena itu keragaman pekarangan tersebut termasuk sedang

TERCEPAT
9 Mar 2017 06:38 PM

Zipora Kristiani (A44140060)

SELAMAT!!!!

23 March 2017

TERBANYAK!

Submitted on 2017/03/09 at 7:23 pm

mohon maaf pak total saya kirim hingga beberapa kali

Submitted on 2017/03/09 at 7:19 pm

Nilai Indeks Shannon Wiener pada pekarangan tersebut adalah:

$H' = -\sum (p_i \ln p_i) = 2.52355 + 2.52$

Setinggi keragamannya termasuk ke dalam kategori sedang

TERBANYAK

Evi Silviana Heryanti (A44140002)

SELAMAT!!!!

5 POSTINGAN

23 March 2017

TERBAIK!

TERBAIK
BENAR
SISTEMATIS
BAIK ADANYA

SELAMAT!!!!

Tsara Nuha Apsari (A44140022)

23 March 2017

MATERI PERKULIAHAN
MG I ~ UTS

MG TOPIK	URAIAN	TUGAS	DOSEN
I PENDAHULUAN Ruang Lingkup dan Definisi	Kontrak Perkuliahan; Ruang Lingkup dan Definisi Jasa Lanskap	Tugas Resensi	KAS
II MANAJEMEN JASA LANSKAP Management Plan & Jenis-jenis Jasa Lanskap	Jasa Ekosistem; Jasa Lingkungan; Jasa Lanskap	Tugas Resensi	KAS
III JASA LANSKAP: Keragaman Vegetasi dan Karbon Tersimpan	Horizontal dan Vertical Diversity Index Aboveground dan Belowground	Tugas Analisis	KAS
IV JASA LANSKAP: Manajemen Sumber Daya Air dan Udara	Kuantitas dan kualitas air Kuantitas dan kualitas udara	-	KAS
V JASA LANSKAP: Keindahan dan Kenyamanan Lanskap	Keindahan <i>terrestrial</i> dan <i>spatial</i> Nilai Kenyamanan Lanskap	Tugas Analisis	KAS
VI JASA LANSKAP: Lanskap Sejarah dan Budaya	Nilai Manfaat Lanskap Sejarah dan Budaya	Tugas Analisis	KAS
VII JASA LANSKAP: Agrowisata dan Agroforestri	Potensi Agrowisata dan Agroforestri	-	KAS
VIII UTS			

*) Pokok/Sub-pokok bahasan dapat berubah, disesuaikan dengan kasus yang sedang hangat didiskusikan.

23 March 2017

MATERI PERKULIAHAN
MG IX - UAS

MG TOPIK	URAIAN	TUGAS	DOSEN
IX Coupling Landscape Ecology with Natural Landscape Management	Penjelasan tentang perubahan paradigma dan pendekatan dalam pengelolaan lanskap alami	-	SWI
X Landscape Structure and Multi-scale Management	Konsep dan studi kasus	Tugas makalah	SWI
XI Landscape Function and Cross-Boundary Management	Konsep dan studi kasus	Tugas makalah	SWI
XII Landscape Change and Adaptive Management	Konsep dan studi kasus	Tugas makalah	SWI
XIII Landscape Integrity and Integrated Management	Konsep dan studi kasus	Tugas makalah	SWI
XIV Review	Presentasi	-	SWI
XV Review	Presentas	-	SWI
XVI UAS			

*) Pokok/Sub-pokok bahasan dapat berubah, disesuaikan dengan kasus yang sedang hangat didiskusikan.

23 March 2017

MG IV
JASA LANSKAP:
MANAJEMEN SUMBER
DAYA AIR DAN UDARA

23 March 2017

CP MINGGU IV

Mahasiswa
mampu mengelola manajemen sumber daya air

dan

mampu mengeloala sumber daya udara

sebagai Jasa Lanskap

23 March 2017

JASA LANSKAP

- Jasa Lingkungan (*Environmental Services*)
- Jasa Ekosistem (*Ecosystem Services*)
- Jasa Lanskap (*Landscape Services*)

23 March 2017

WHAT IS LANDSCAPE WORTH?

SUMBER DAYA AIR

23 March 2017

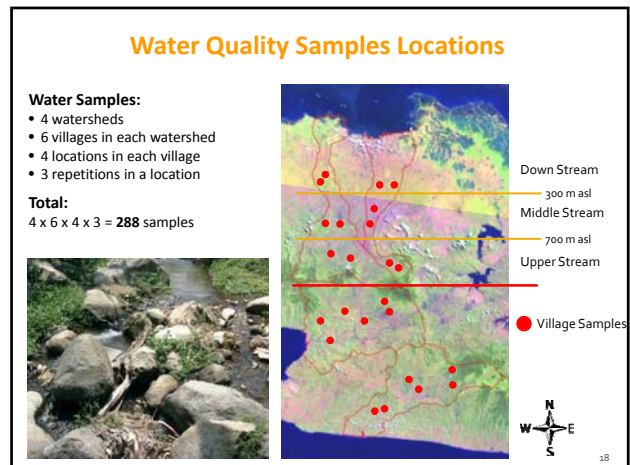
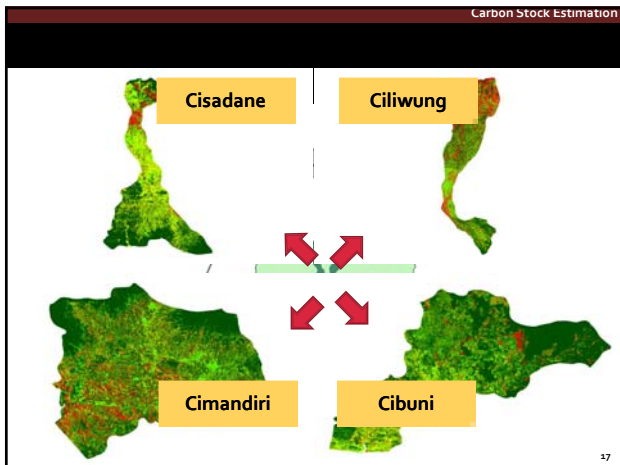
WATER

Water Resources Management

CASE STUDY: Water Quality

- Water quality was measured through **11 parameters**.
- Those are (1) Dissolved Oxygen: **DO**, (2) Biological Oxygen Demand: **BOD**, (3) Chemical Oxygen Demand: **COD**, (4) Ammonium: **NH₄**, (5) Nitrate: **NO₃**, (6) Nitrite: **NO₂**, (7) Phosphate: **PO₄**, (8) Acidity: **pH**, (9) Alkalinity: **OH⁻**, (10) Bacteria *Escherichia coli*, and (11) **General Bacteria** - others than *E. coli*.

16



Water Resources Management

11 Parameters:

- DO
- COD
- BOD
- Nitrite
- Nitrate
- Ammonium
- Phosphate
- Alkalinity
- Acidity
- *Escherichia coli*
- General Bacteria

West Java x Orientations x Streams x Villages x Location = 96
Total : 3 x 4 x 3 x 2 x 4 = 288 water samples

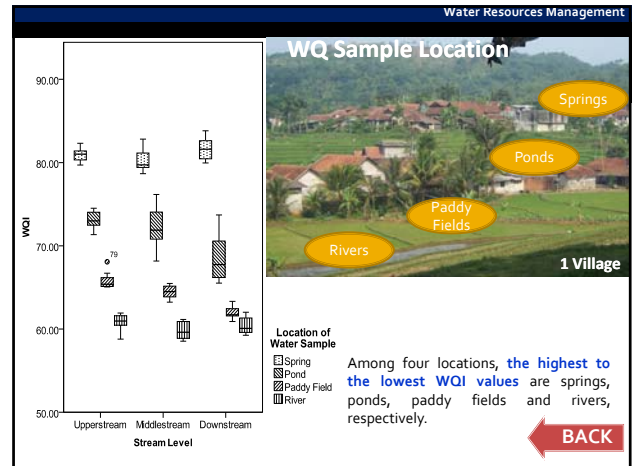
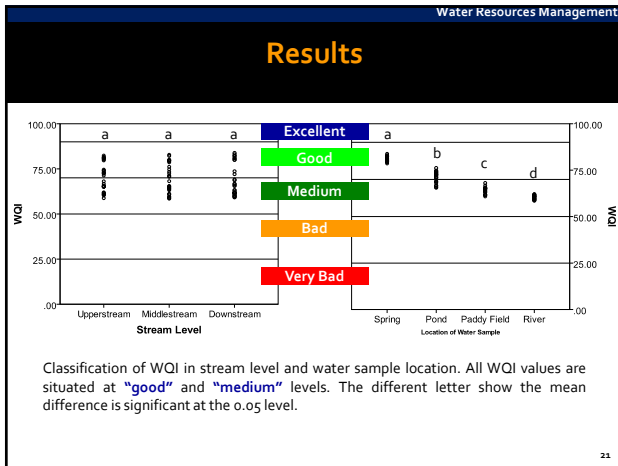
Water Resources Management

WQI formula proposed by Rodriguez de Bascaroan (Pesce & Wunderlin, 2000)

$$WQI = k \frac{\sum_{i=1}^n C_i P_i}{\sum_{i=1}^n P_i}$$

Parameters	Pi	Normalization Factor (Ci)										
		100	90	80	70	60	50	40	30	20	10	0
DO	4.0	>7.5	>7	>6.5	>6	>5	>4	>3.5	>3	>2	≥1	<1
COD	3.0	<5	<10	<20	<30	<40	<50	<60	<80	<100	≥150	>150
BOD	3.0	<0.5	<2	<3	<4	<5	<6	<8	<10	<12	≥15	>15
NO ₃ -N	2.0	<0.005	<0.008	<0.01	<0.04	<0.075	<0.1	<0.15	<0.2	<0.25	≥0.5	>0.5
NO ₂ -N	2.1	<0.5	<2	<4	<6	<8	<10	<15	<20	<40	≥70	>70
NH ₃ -N	3.0	<0.01	<0.05	0.1	<0.2	<0.3	<0.4	<0.5	<0.75	<1	≥1.25	>1.25
PO ₄	1.1	<0.025	<0.05	<0.1	<0.2	<0.3	<0.5	<0.75	<1	<1.5	≥2	>2
Alkalinity	1.7	<20	<40	<60	<80	<100	<120	<140	<160	<180	≥200	>200
pH	1.9	7	6.9-7.5	6.7-7.8	6.5-8.3	6.2-8.7	5.8-9.0	5.5-9.5	5.0-10.0	4.5-10.5	4.0-11.5	<4.0; >11.5
<i>Escherichia coli</i>	3.0	<50	<500	<1000	<2000	<3000	<4000	<5000	<7000	<10000	≥14000	>14000
Fecal Coliform	3.6	<50	<500	<1000	<2000	<3000	<4000	<5000	<7000	<10000	≥14000	>14000

*All values are in mg/l, except for pH (pH unit) and bacteria (MPN/100ml).



SUMBER DAYA UDARA

23 March 2017

sustainable communities online
for a more sustainable future

Home About Community Economy Environment Living Governance Smart Growth

search...

Economy > Forestry and Wood Products > American Forests' CITYgreen

American Forests' CITYgreen

CITYgreen is a GIS software tool that helps people understand the value of trees to the local environment. Planners and natural resource professionals use the program to test landscape ordinances, evaluate site plans, and model development scenarios that capture the benefits of trees.

http://www.americanforests.org/productsandpubs/CITYgreen

Tag: Development | Economics | Environment | Forestry | Landscape | Tool

More from this category...

- World Wildlife Foundation Forest Conservation
- American Forests' CITYgreen
- Casey Trees
- National Community Forestry Center (NCFC)
- TreePeople
- Forest Stewardship Council

TAG TOPICS

- Report Award Economics Biodiversity
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- Community Land Use

23 March 2017

ORTON FAMILY FOUNDATION

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CITYgreen

Summary
1106 A Geographic Information System (GIS) software program for mapping, measuring, and analyzing the storm water, summer energy savings, carbon storage and sequestration, air quality, and wildlife of urban ecosystems.

Tool Description

Summary of Costs
\$0-99

Associated Costs

- Acquisition
- Consulting
- Technical Assistance

Strengths

- CITYgreen software can provide complex ecological analyses for presentation use in the planning process.
- The software may help communities determine what ecological steps need to be taken to reach sustainable status.

Limitations

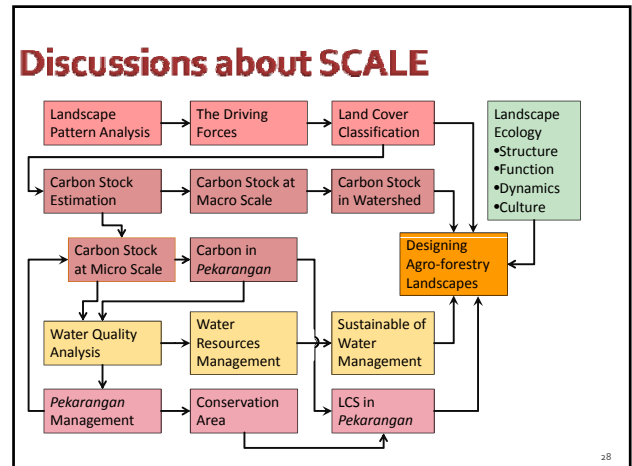
- The program works only with Windows-based PCs that have ArcGIS installed. It is not a stand-alone software package.
- Uploaded images must be in color with a 4 meter or better resolution before CITYgreen can analyze the data.

TOOL AT A GLANCE

Tool Type: Software/Web Tool
Website: CITYgreen.org
Keywords: conservation and natural resources, data analysis & collection, decision-making, environmental sustainability, mapping, scenario planning

RELATED TOOLS

Ecological Footprint
INDEX
MetroQuest
UrbanSim
Community GIS Software
Character Impact Assessment
CommunityViz



TERIMA KASIH

Atas perhatian dan kerjasamanya dalam tatap muka kali ini

*SAMPAI JUMPA
PADA KULIAH MINGGU DEPAN*

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23 March 2017