



MUD JEANS

LIFE CYCLE ANALYSIS (LCA) REPORT

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Table of contents

Introduction	03
Circularity at MUD Jeans	04
Our materials	07
What is an LCA?	09
Ecochain	10
Data details & limitations	11
Impact comparison	12
Results	13
CO ₂	13
Water	14
Impact reduction goals	15
Deep Dive	16
Water	16
CO ₂	17
Energy	17

Fabrics analysis	18
CO ₂	18
Water	19
A shared responsibility	20
Data based strategy	21
Knowledge is power	22
Appendix	23

MUD Jeans is the world's first circular denim brand. We want to clean up the world by making jeans from old denim.

Our mission is for the fashion industry to be driven by circular production and conscious consumption. We pioneer with jeans by taking positive action, being transparent and supporting sufficiency.



Circularity at MUD Jeans

While a linear economy focuses on producing, using and throwing away, a circular one aims for a continuous use of resources, while slowly designing out waste. In a circular economy, you apply methods such as reuse, repairing and recycling. This extends the life of the product and eventually closes the loop by using the same materials again and again. Through this method you are minimising the use of new raw materials, as well as the creation of waste and pollution.

The diagram on the next page shows how we apply a circular business model at MUD Jeans.



Production

We consciously maintain a small supply chain. We work with 3 recyclers, 3 fabric producers and 1 jeans manufacturer. This gives us a better oversight over who is making our jeans, how, and under what conditions. It also means we can better foster collaboration and innovation. This way we have implemented methods such as dry indigo dyeing and water recycling across our supply chain.

Circular Design

To create truly circular products that can be recycled at the end of their life, we keep things simple. We work with a small number of different fabrics and prioritise the use of cotton over synthetic fibres. Most of our jeans are made from a mix of post-consumer recycled cotton and organic cotton while our stretch denim typically contains a maximum of 2% recycled elastane. We also have a non-toxic printed back label and use buttons, rivets and zippers made from 100% stainless steel.

Lease a jeans

MUD Jeans is unique for its Lease a Jeans model. Our customer can lease a pair of jeans for 12 months for a monthly fee. After 12 months, customers can keep the jeans as long as they wish. Once they no longer wear them, they can be sent back to us for recycling. This model gives us the opportunity to take responsibility for the end of life of our product, as it encourages customers to send their jeans back once they no longer wear them.

A circular diagram consisting of three blue arrows forming a clockwise loop. The text "Circularity at MUD Jeans" is centered within the loop.

Circularity at
MUD Jeans



Circularity at MUD Jeans

Recycling

All good things must end, they say. Well, not for MUD Jeans. The life of a MUD Jeans never ends, it just restarts. Those worn jeans that are sent back to us, which are no longer in good condition, are sent to be recycled. In this process the jeans are shredded into fibres and remixed with fresh, organic cotton in order to make new yarns and fabrics. And so, the cycle begins again.

Repair

All of our leasing customers are given access to a free repair service during the first 12 months of their lease. Through this approach, we encourage our customers to value and take care of their jeans. A simple repair can extend the life of the product by a few months or even years. This has a tremendous positive environmental impact, as it conserves the original energy that went into making the product in the first place.

Upcycling

The elimination of waste is a key component of a circular business. When old jeans are returned to us, we review them to check their condition. As the saying goes, one man's trash is another man's treasure. Therefore, jeans that are still in good condition are washed, mended and become part of our vintage collection. Once again, it's all about extending the life of our product.

Our materials



UK:
Elastane

Netherlands:
Business
Logistics

Germany:
Buttons
Rivets

Italy:
Sewing yarns
Labels

France:
Hemp

Spain:
Fabric

Tunisia:
Stitching
Laundry
Zippers
Labels

Türkiye:
Cotton
Fabric

India:
Cotton

Raw material: OCS-certified organic cotton (Türkiye & India) & hemp (France)

Recycled cotton: Recover (Spain), Heybeliler Textile (Türkiye) & Gama (Türkiye)

Recycled elastane: Invista (UK), The LYCRA Company (Türkiye)

Recycled T400: The LYCRA Company (Türkiye)

Yarn: Ferre (Spain), Bossa (Türkiye) & Calik Denim (Türkiye)

Fabric: Tejidos Royo (Spain), Bossa (Türkiye) & Calik Denim (Türkiye)

Stitching & laundry: Yousstex International (Tunisia)

Wash & care labels: Etic Europe (Tunisia)

Pocket lining: Copen (Tunisia)

Zippers: YKK (Tunisia)

Buttons & Rivets: Berning (Germany)

Sewing Yarns: Cucirini RAMA (Italy)

Labels & Tags: Panama Trimmings (Italy)

Our materials

MUD Jeans has 6 main supply chain partners: Recover, Ferre, Tejidos Royo, Bossa, Calik Denim and Yousstex International. They each play a crucial role in the circular production process. In 2022, 84% of our fabrics were purchased from Tejidos Royo, 9% from Bossa, 2% from Calik Denim and 5% was deadstock fabric. 100% of all our denim products are stitched and washed at Yousstex International. The fabric details are as follows:

RCY CASSIE: 23% recycled cotton, 75% organic cotton, 2% recycled elastane.

RCY DAVE: 23% recycled cotton, 75% organic cotton, 2% recycled elastane.

RCY DAVE BLACK OB: 23% recycled cotton, 75% organic cotton, 2% recycled elastane.

RCY LANX: 40% recycled cotton, 60% organic cotton.

RCY DUCK PAT: 40% recycled cotton, 60% organic cotton.

RCY DAVE PAT: 23% recycled cotton, 75% organic cotton, 2% recycled elastane.

RCY GRACE: 23% recycled cotton, 75% organic cotton, 2% recycled elastane.

RCY TANO: 48% recycled cotton, 50% organic cotton, 2% recycled elastane.

RCY TANCY: 28% recycled cotton, 72% organic cotton.

RCY BLAX: 40% recycled cotton, 60% organic cotton.

Calik Denim:

RCY CANA: 20% recycled cotton, 30% hemp, 50% organic cotton.

RCY RECO: 20% recycled cotton, 75% organic cotton, 3% T400, 2% recycled elastane.

RCY CHABY: 20% recycled cotton, 79% organic cotton, 1% elastane

Bossa:

Organic Cassie: 20% recycled cotton, 79% organic cotton, 1% elastane.

Deadstock:

These are unwanted and forgotten fabrics from other brands, which we re-use for 5 of our jeans styles.

Lennon Chambray: 100% cotton

DSR Selvage: 100% cotton

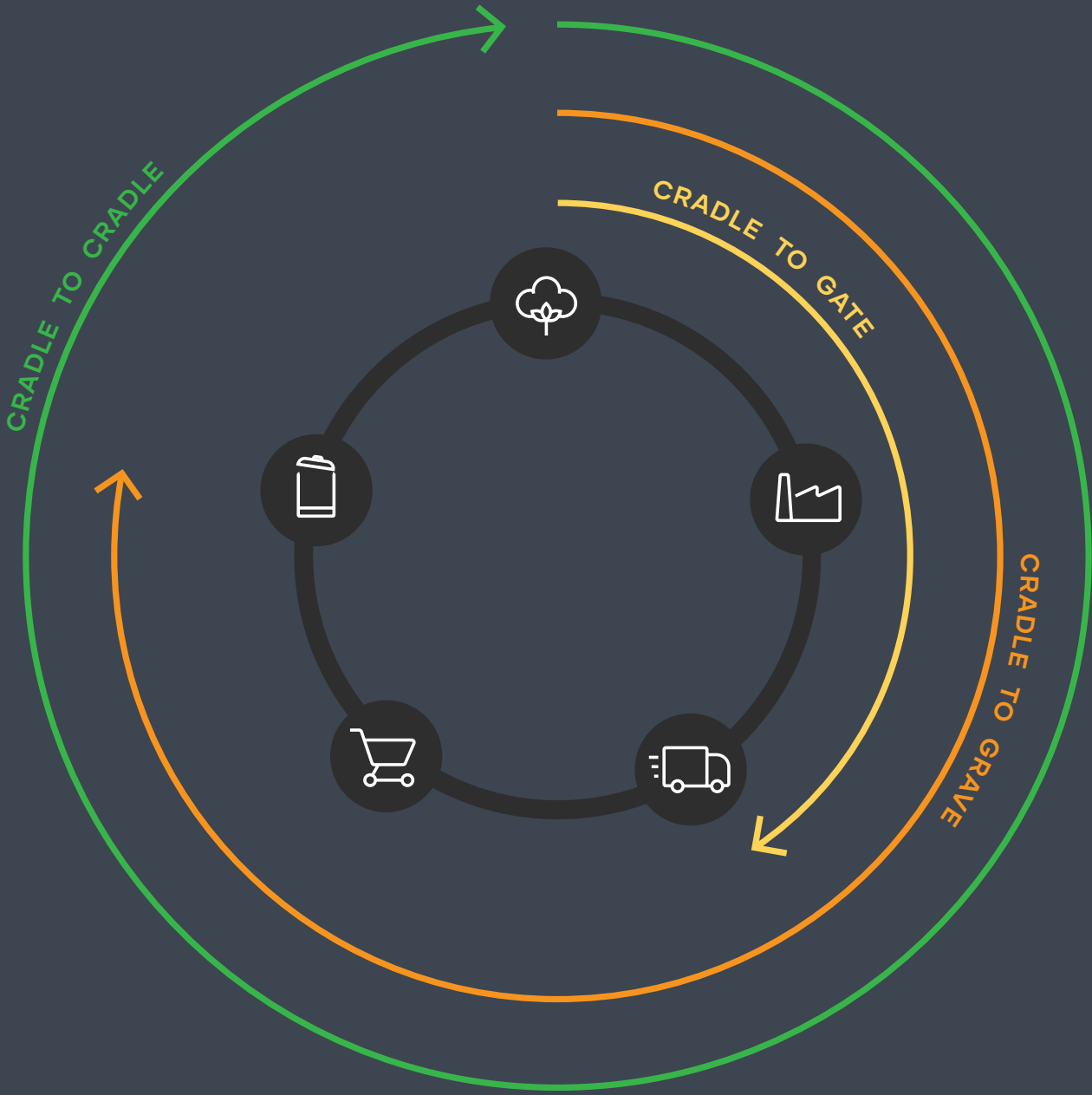
DSC Selvage: 99% cotton, 1% elastane

What is an LCA?

LCA stands for Life Cycle Assessment or Life Cycle Analysis. It is a quantitative method that helps businesses calculate and evaluate the environmental footprint of their products. With this data, businesses are able to identify opportunities to reduce emissions, increase efficiency and lead strategically. After all, knowledge is power. It all starts by looking at a product's life cycle and breaking it down into the different stages. Commonly there are five stages: raw material extraction, manufacturing and processing, transportation, usage and retail and waste disposal. Take a look at the diagram, it depicts all the supply chain stages that can be illustrated in an LCA.

For this study, we will focus only on cradle to gate. Therefore we are calculating the impact from cotton to the final piece. We will also be including some scenarios at the end that depict the impact that customers have, depending on how they take care of their jeans. From a circularity perspective, the reader should note that the LCA does not capture the end of life (waste stage), as it assumes that, in a circular business, all jeans are returned for recycling. The LCA captures the impact of recycling old jeans and naturally the making of new yarn with these materials. Nonetheless, the LCA does make assumptions of waste production across the manufacturing stage. This LCA does not capture the impact of our logistics partner, and the delivery of the product to our customers, and any other business impact variable such as MUD Jeans HQ impact.

Product lifecycle models



- Cradle to Cradle
- Cradle to Grave
- Cradle to Gate



In 2019 we produced our first updated LCA report with the support of Ecochain. Ecochain is an Amsterdam-based LCA research firm. They use the methodology of Activity-Based Footprinting (based on the concept of Activity-Based Costing) to conduct an LCA on a consolidated data set, resulting in a footprint at company, process or product level.

We work closely with our four main supply chain partners, and asked them to share in-depth information with us about every aspect and input that goes into the making of our jeans. This includes transportation, fuel, energy, water, and chemicals. We then plug in this information into the Ecochain Platform, and incorporate it with other data sets in order to obtain an impact overview of every style in our collection.¹

Our objective is to publish a new LCA report every year. Updating the data would allow us to see how we have progressed over the years but also outline clear objectives of where we can do better and thus set future goals.

1. The methodology we use is ReCiPe and we use Ecoinvent datasets.





Data details & limitations

The full lists of styles covered in the 2022 LCA can be found in the appendix. This LCA covers tier 1, 2 and 3 suppliers. Yousstex international takes care of the cutting, sewing and laundry of all of our jeans, hereby covering 100% of our tier 1 supplier base. Tejidos Royo, Bossa and Calik Denim provide Yousstex international with fabric and are hereby our main Tier 2 suppliers. Tier 3 is represented by our recyclers Recover, Heybeliler Textile and Gama, and our yarn producing partners Ferre, Bossa and Calik Denim. Thanks to the support and transparency of our supply chain partners, our LCA contains a majority of supplier-specific data. All styles from 2022 have been captured by the LCA analysis, processed in full detail with Echochain.

Impact comparison

At MUD Jeans we are fully transparent about the impact of our denim. Additionally, we calculate comparisons, to be able to show exactly how much impact our sustainable methods save. In previous years, we have used an industry standard value to serve as our benchmark. This year we calculated our own comparison value through our LCA method. Within our LCA software, we modelled both our actual products, using sustainable materials and processes, and an additional hypothetical product, where our sustainable materials and processes are replaced with conventional ones. This way we can show you precisely how much impact we are able to save by making specific decisions. It also allows us to explain exactly which assumptions were made to arrive at our savings numbers.

The advantage of using this approach is that we are able to ensure that all measurements happen within the same context and with the same variables. For one, this means the same calculation method was used for both values. Additionally it means we can ensure that aspects such as the production locations, the weight of the product, the hardware (buttons, rivets, zippers) and the finishing of the jeans are the same. The only differences are specific sustainable materials or processes, which were replaced with conventional materials or processes.

As explained on the left, we created one additional hypothetical product in our LCA software. This product is modelled exactly like our average product, the only difference being the four aspects listed below. By changing only these aspects, we can calculate exactly how much water and CO2 we save by making specific sustainable decisions.

- While our actual products are created using recycled water, the hypothetical product uses only conventional water.
- While our actual products use renewable energy at several points throughout production, this hypothetical product was modelled with only conventional energy.
- The recycled and organic cotton typically used in our products was replaced with conventional cotton.
- Instead of using our supplier's specific (primary) energy and water use data for the spinning, dyeing and weaving process, the hypothetical product was modelled using average industry data references from our LCA platform's database.

Results

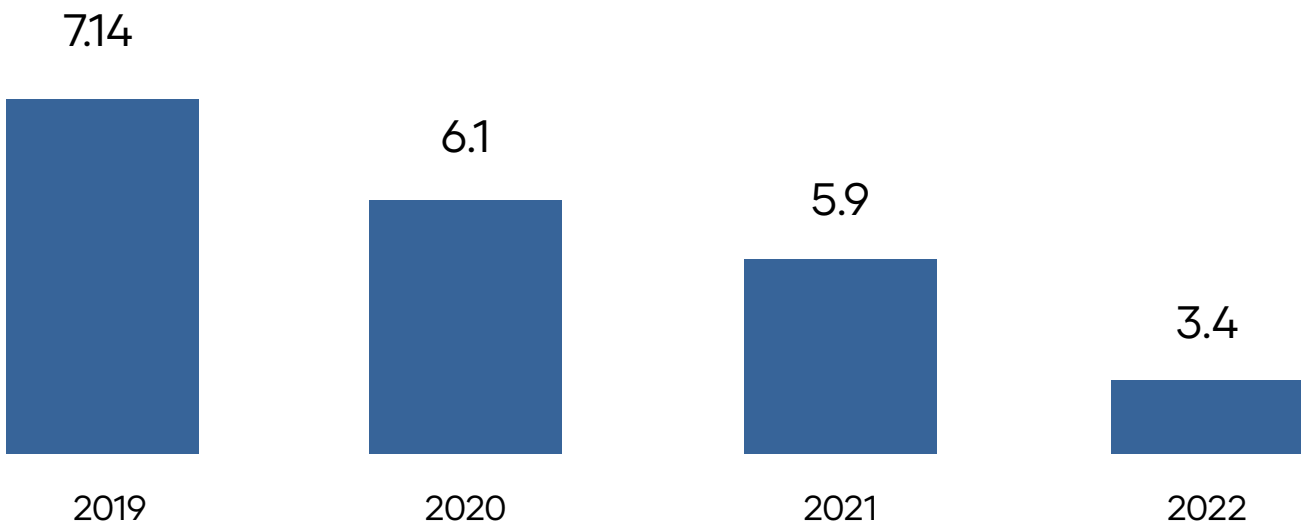
CO₂

According to the 2022 calculations, the production of a pair of MUD Jeans emits 3.4 kg of CO₂ eq. on average.² Compared to our 2021 LCA, this is a 42.3% reduction in impact! How were we able to reduce this impact so significantly? In the past, a big part of the CO₂ impact of a MUD Jeans came from the ironing and sewing of the jeans. Apart from other minor improvements, the most significant change was a new, more energy-efficient production process at our partner Yousstex, who is responsible for ironing and sewing.

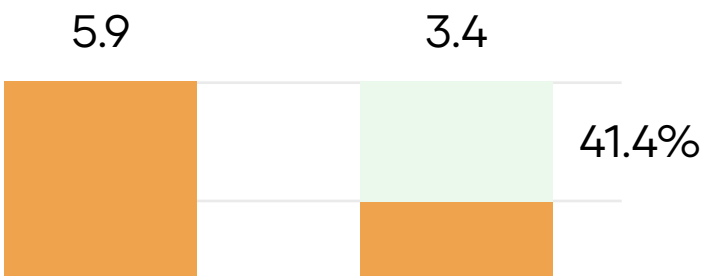
You may notice below that our 2022 comparative value is the same as our 2021 impact. This relatively low comparative value is possible because we have also included Yousstex' 2022 energy savings in its calculation. This was done because we wanted to make sure we are as conservative as possible in our comparative assumptions. As we do not have an industry standard reference available for ironing and sewing, we decided to use our supplier's current primary data, which is significantly lower than in 2021.

2. 'CO₂ eq.' stands for 'CO₂ equivalent'. This value is a way of showing the total impact of different greenhouse gases, including but not limited to CO₂. It is calculated by looking at the global warming impact of all emitted greenhouse gases and translating this to the amount of CO₂ that would have the same impact.

CO₂ impact per jeans



2022 impact savings



By using recycled materials, renewable energy and impact-saving spinning, dyeing and weaving techniques, we are able to save 41% CO₂. The comparative value of 5.9 kg of CO₂ eq. was calculated by modelling a MUD Jeans without these specific sustainable practices, as explained in the previous section.

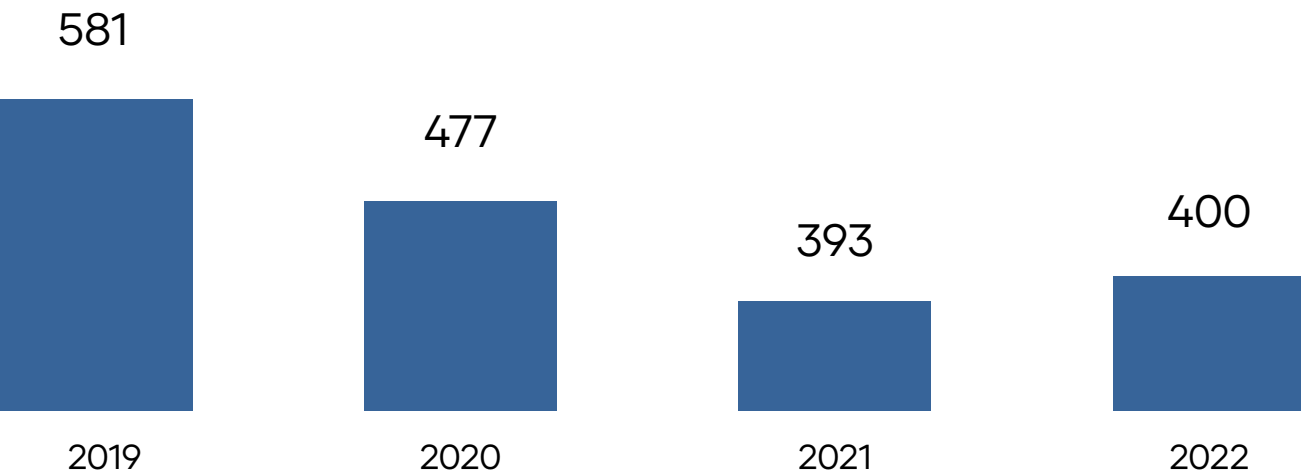
Results

Water

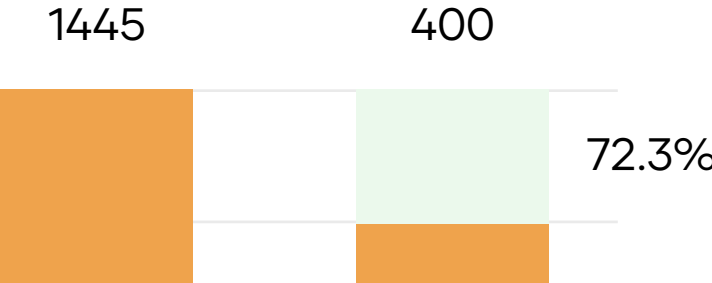
According to the 2022 LCA data analysis, an average pair of MUD Jeans consumes 400 litres of water. This is a 1.8% impact increase from our 2021 LCA. The reason for this is that we incorporated new data from two yarn & fabric suppliers, which have a slightly higher water impact. Calik Denim and Bossa were able to supply in-depth data for the first time for the 2022 production. These partners also have impressive ways to reduce their water impact, allowing us to still use 16% less water than we did two years ago. Nevertheless our goal is to collaborate with these partners to find ways to reduce our water impact further.

By using recycled cotton, recycled water and water-saving techniques throughout dyeing, spinning and weaving, an average MUD Jeans saves 72% water. The comparative value of 1445 litres was calculated by modelling a MUD Jeans without these specific sustainable practices, as explained in the previous section.

Water impact per jeans



2022 impact savings



Impact reduction goals

As part of our commitment to fighting climate change, we have set clear reduction targets across multiple impact variables. The tables below outline these goals and our progress.

Impact variable	2021 Impact	2022 Reduction Target	2022 Impact	2022 Actual Reduction
Average CO2 impact per jeans	5.9 kg of CO2 eq.	- 5%	3.4 kg of CO2 eq.	- 42.3%
Average water consumption per jeans	393 litres	- 5%	400 litres	+ 1.8%

We were extremely happy to see that we went significantly beyond our reduction target on CO2 impact. However, we were not able to reach our target reduction for our water impact. As explained above, the inclusion of new suppliers meant that the water impact of an average MUD Jeans increased slightly, by 1.8%. Our goal is to collaborate with these new partners, to find ways to reduce our water impact further in 2023.

Our focus is continuous improvement. Every year, we strive to reduce our impact a little bit more. Below are our targets for the future. We hope to achieve these targets through further improved data, material selection, production improvements and product development. In 2023, we will continue supporting our supply chain partner Yousstex International in implementing renewable energy into their production. In addition, we will investigate ways to reduce the water impact across our new supply chain partners.

Impact variable	2023 Reduction Target	2030 Reduction Target
Average CO2 impact per jeans	5% ³	80% ⁴
Average water consumption per jeans	5% ³	80% ⁴

3. Compared to 2022 values.

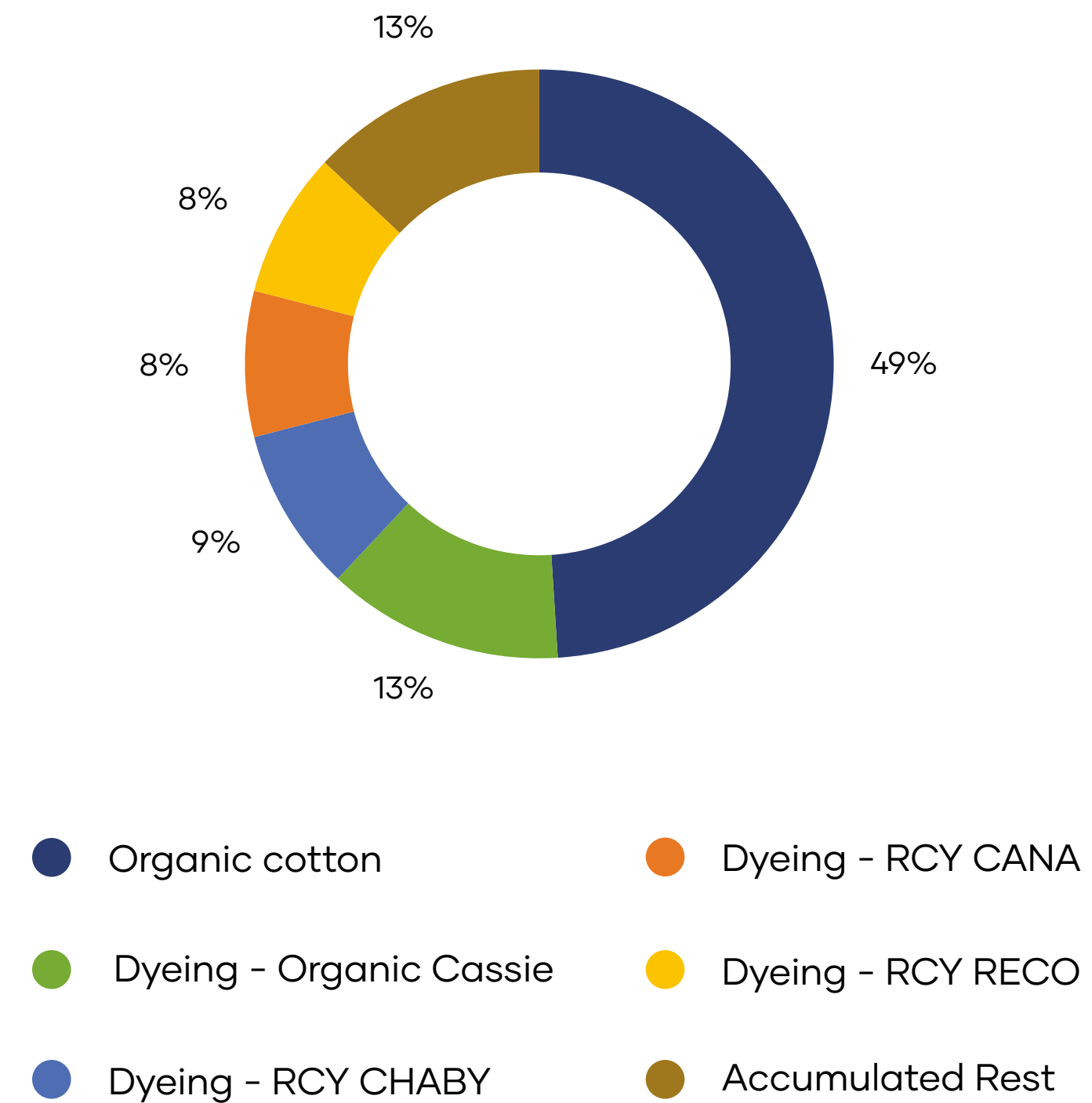
4. Compared to 2019 values.

Deep dive

LCAs are particularly exciting for us because they provide us with a breakdown of our supply chain in numbers. It lets us visualise the location of our impact and with this information we can develop strategies with a clear focus. For the analysis below, we listed the average impact of all materials and processes involved in the production of all of our jeans. Then, we calculated how much each aspect contributed to the total of all average impacts combined.

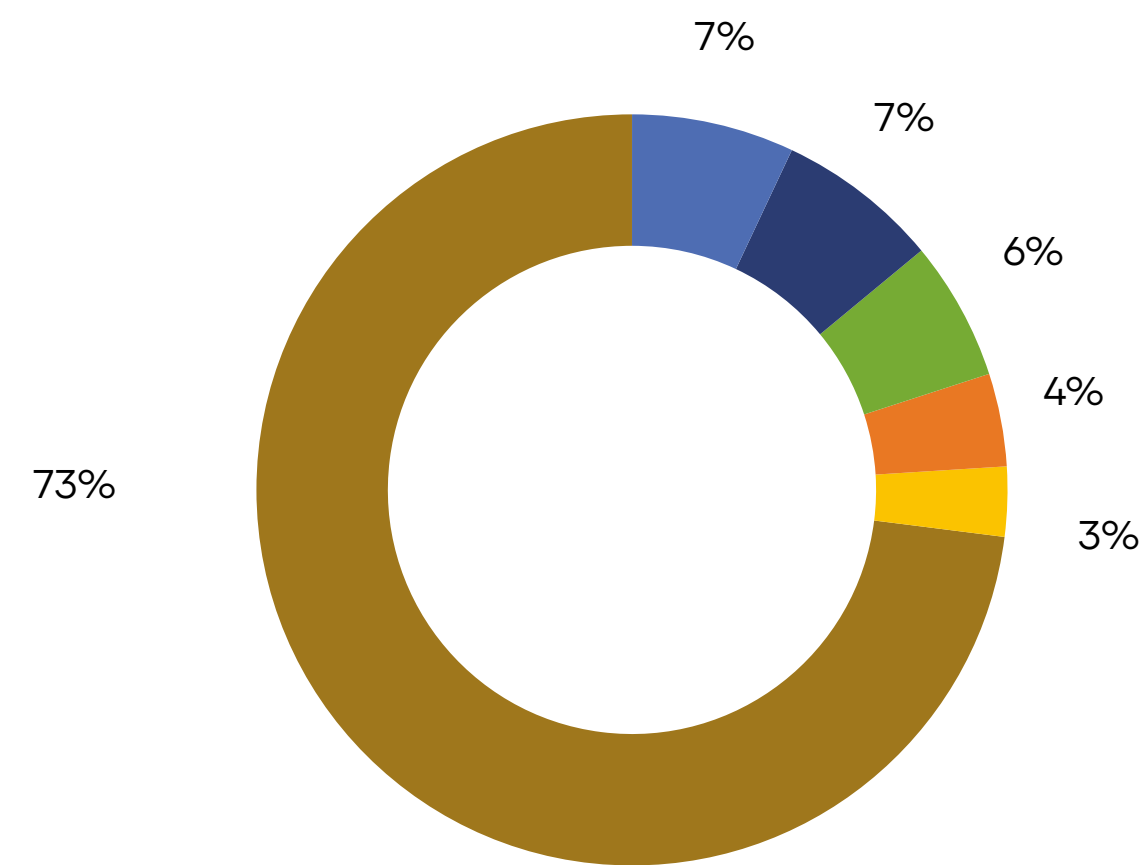
Water

When analysing the average water impact across the entire production process, 49% of it is linked to the use of organic cotton. Other factors which have a notable impact are the dyeing processes at our partners Bossa and Calik Denim. However, their impact is significantly lower.



CO₂

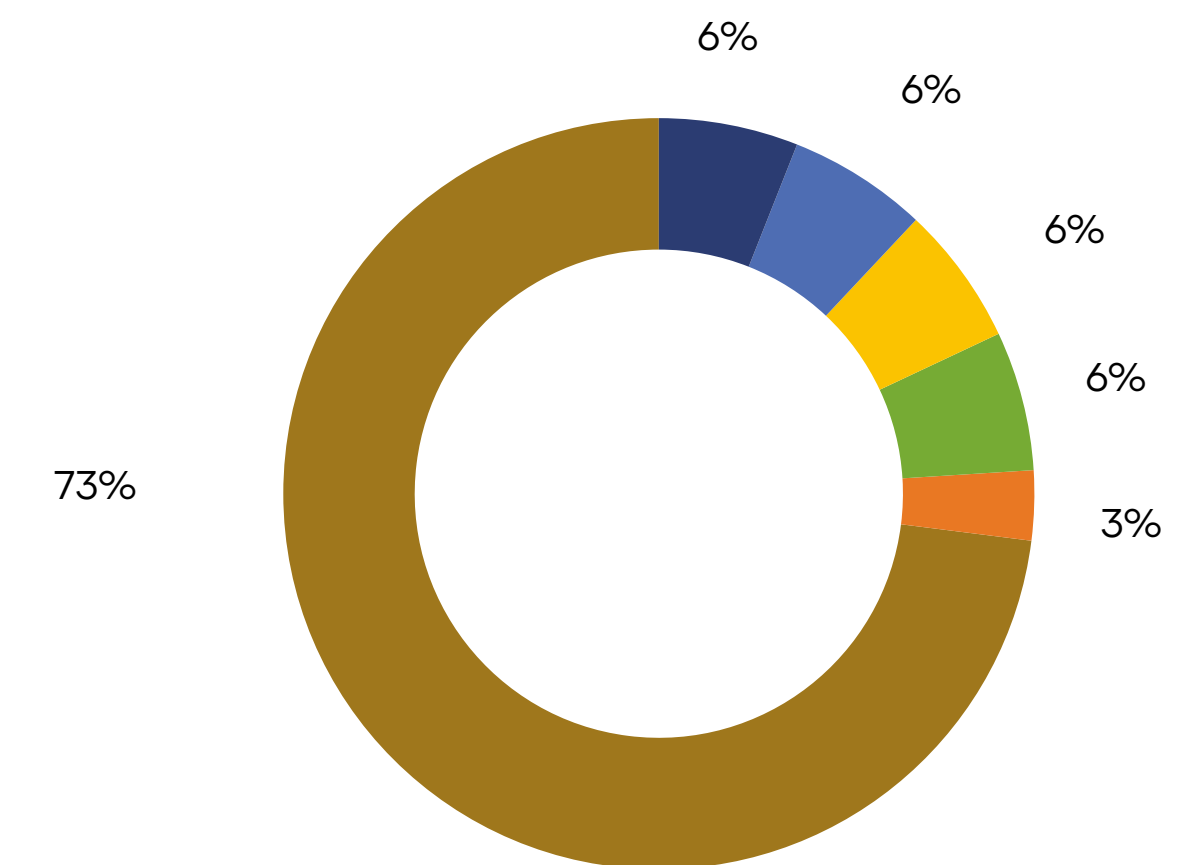
Looking at the production process from cradle to gate, the majority of the CO₂ impact lies in spinning and weaving. However, the impact across all production steps is more evenly distributed than for the water impact analysed above. Depending on the fabric, the chemicals used in the dyeing process also have a higher impact than the rest. All remaining materials and processes were combined in the accumulated rest to enable a better overview, as their individual contributions were less than 2%.



- Spinning - RCY CHABY
- Spinning - Organic Cassie
- Weaving - Organic Cassie
- Dyeing chemicals - RCY GRACE
- Spinning - RCY RECO
- Accumulated Rest

Energy

Looking at the average energy consumption across the different stages of production, spinning, weaving and washing have among the highest impacts. This pie chart only shows the top 5, however the weaving and spinning for other fabrics is also comparable. Overall, we can see a relatively evenly distributed impact across production steps.



- Organic Cotton
- Weaving - Organic Cassie
- Spinning - RCY CHABY
- Spinning - Organic Cassie
- Washing
- Accumulated Rest

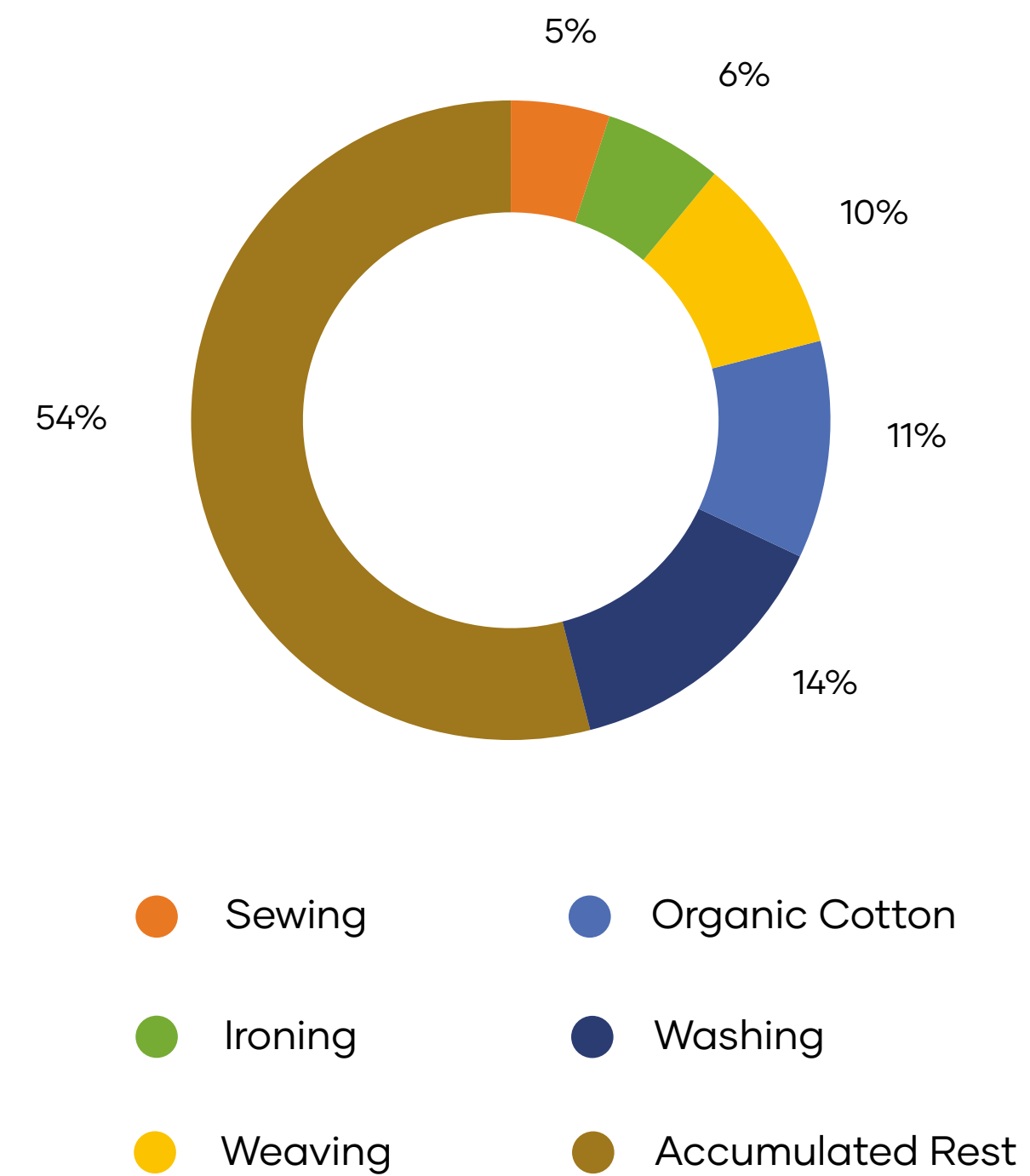


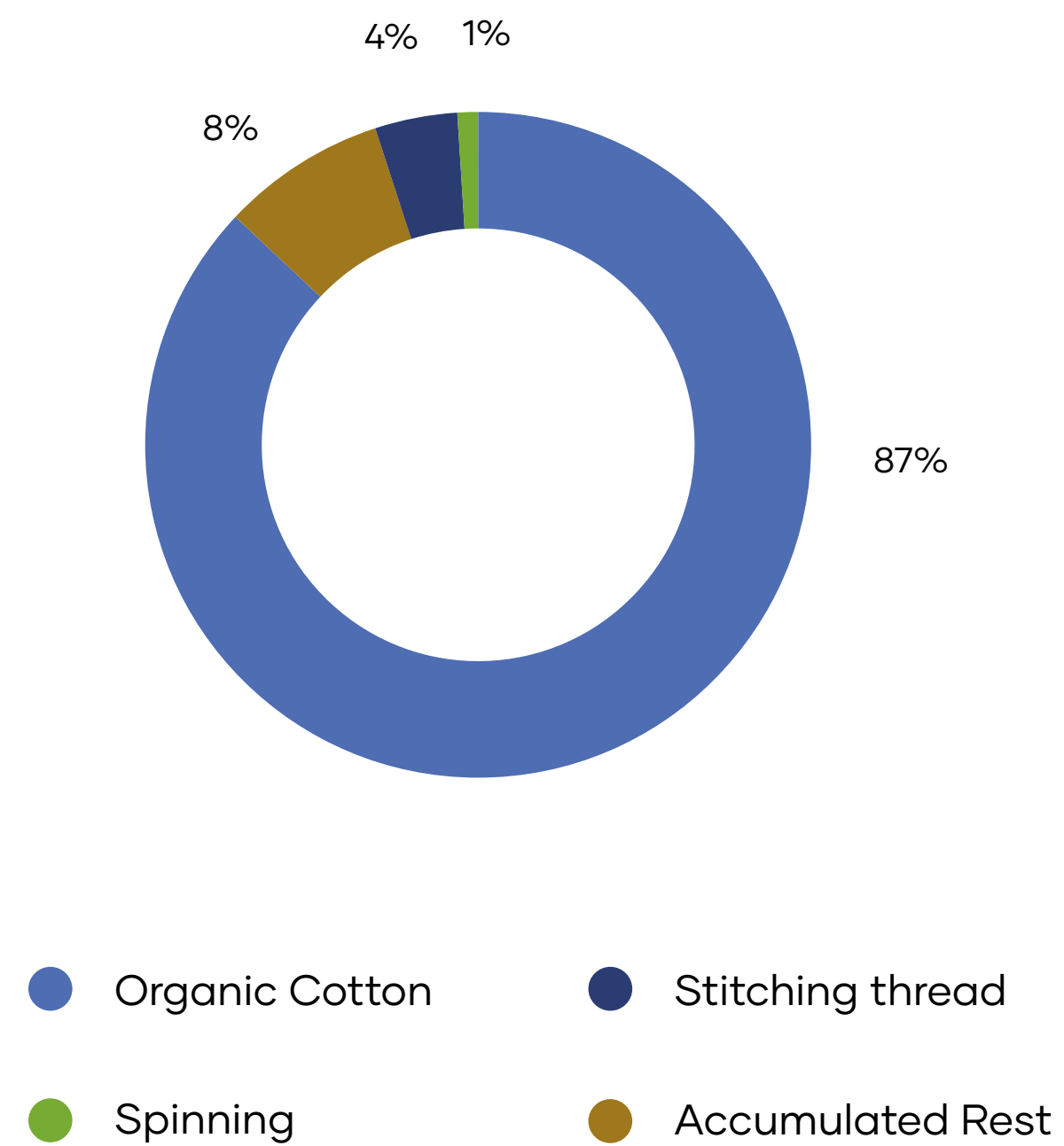
Fabric analysis

While the analysis above focused on the total impact across all products, this section focuses on the CO₂ and water impact of the styles in our most used fabric, RCY LANX.

CO₂

When looking at the overall impact of the LANX fabric we can see that, apart from the main virgin material we use (organic cotton), the processes of washing, ironing and sewing have the highest impact. This makes sense, as these are some of the major steps involved in jeans production which require energy. However, when comparing this overview to last year, we can see that the sewing and ironing impact decreased from 42% and 25% to 5% and 6% respectively. As mentioned earlier, this is due to some impressive energy efficiency improvements at our partner Yousstex International. Through this change, we can see a more balanced distribution of CO₂ impact overall.



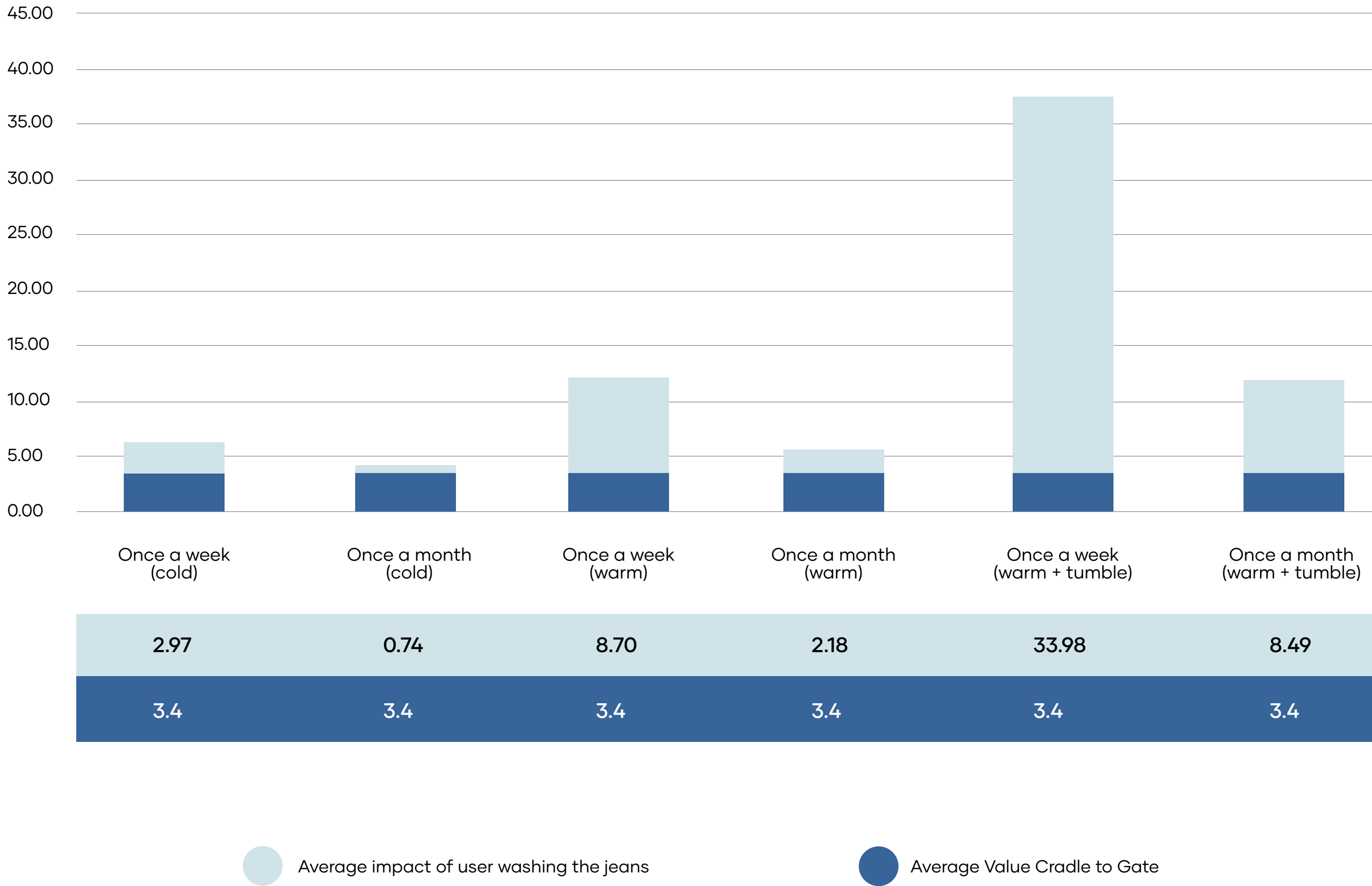


Water

The overpowering blue colour says it all. The highest water impact throughout products made from the LANX fabric comes from the use of organic cotton. This is followed by the stitching thread used, which is also made from organic cotton. A smaller impact comes from the spinning and dyeing step. It is interesting to point out that the water used during the washing of the jeans is significantly smaller than 1%, although washing can typically be a process of high water consumption. This low impact in our case can be explained through Yousstex Internationals' innovative facilities which recycle 95% of the water used. The remaining 5% evaporate and are restored with rainwater.

A shared responsibility

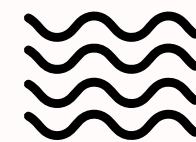
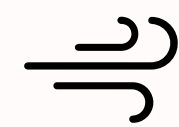
This LCA unveils not only our impact, but also the potential impact of our customers. Once we send off the jeans, the control is out of our hands. From here, the baton is passed to our customers, where they decide the impact of their jeans. We developed impact scenarios to help visualize these choices. Washing your jeans at 30 degrees and line drying them is the best choice. Naturally, the more times you wear them before washing them, the better. In the one year lifespan of a pair of MUD Jeans, each customer can contribute 18-91% of the CO₂ impact of their jeans. This can quickly translate into the impact of the jeans reaching six times the original production impact value.



Data-based review & strategy

Our LCA calculations enable us to transparently communicate the environmental impact of our products to our customers. However, beyond that, it also empowers us to set informed targets and make informed decisions to reduce our impact further. We strongly believe that, only when we know where our impact comes from, can we know how best to reduce it. Or to put it differently: knowledge is power.

As predicted in the previous year, focusing on reducing the impact throughout ironing and sewing successfully helped reduce our CO2 impact significantly in 2022. We were very happy to see that we were able to reduce our CO2 impact by 42% in comparison to last year!





Knowledge is Power

MUD Jeans' mission is for the fashion industry to be driven by circular production and conscious consumption. As such, we share all of our knowledge with the hope of inspiring others to take similar action in their own way. We hope to inspire conscious consumption by sharing this information with our customers. Our LCA data is uploaded on our website and our customers can visualise the impact of their denim and its impact saving potential. Overall, we are proud to see such a great outcome of our year 2022. As this report comes to an end, we would like to thank our supply chain partners for their transparency and support during this LCA process.



Appendix

In the following pages, you can find a list of all styles sold in 2021 and their impact in terms of water, CO₂ and energy. This list also includes shorts, shirts, skirts, dungarees, parkers, jackets and a bag. All non-jeans items were excluded in the data analysis above which was focused only on denim trousers to achieve optimal comparability.

Product Name	Fabric Name	Water Consumption	CO ₂ Impact	Total Energy
Abby Short - Stone Breeze	RCY LANX	188	2,6	146
Betty Denim Shirt - Stone Blue	RCY TANCY	251	3,1	116
Beverly Short - Dip Black	RCY LANX	260	3,5	69
Beverly Short - Sun Stone	RCY LANX	265	3,1	87
Block Chino - Stone Blue	ORGANIC CASSIE	664	6,8	75
Block Chino - Strong Blue	ORGANIC CASSIE	616	5,3	80
Carlo Short - Stone Indigo	RCY LANX	298	2,8	75
Carlo Short - Sun Stone	RCY LANX	296	3,2	81
Claire Chino - Strong Blue	RCY DAVE	430	2,4	91
Cropped Mimi - Sun Stone	RCY LANX	344	3,4	27
Don Denim Shirt - Stone Blue	RCY TANCY	280	3,2	101
Dunn Chino - Strong Blue	RCY DAVE	477	2,6	69
Easy Go - Stone Grey	RCY BLAX	355	3,1	82
Easy Go - Used Black	RCY BLAX	362	2,8	100
Easy Go - Used Stone	RCY LANX	363	3,1	88
Extra Easy - Dark Worn	RCY LANX	387	3,5	96
Extra Easy - Dusty Dry	Deadstock	25	1,4	92
Extra Easy - Fan Stone	RCY LANX	407	3,8	88
Extra Easy - Strong Blue	RCY LANX	388	2,4	81
Extra Easy - Worn Black	RCY BLAX	384	3,1	91
Faye Straight - Authentic Indigo	RCY RECO	459	4,7	83
Faye Straight - O3 Grey	RCY DAVE BLACK OB	414	3,5	64
Faye Straight - Sunny Stone	RCY RECO	442	4,5	88
Flared Hazen - Authentic Indigo	RCY CASSIE	407	3,8	65
Flared Hazen - Corn	RCY DAVE PAT	427	3,4	88
Flared Hazen - O3 Blue	RCY DAVE	424	3,0	141
Flared Hazen - Olive	RCY DAVE PAT	447	3,5	109

Water - Litres (L)
CO₂ - kg of CO₂ eq.
Energy - Megajoule (MJ)

Product Name	Fabric Name	Water Consumption	CO ₂ Impact	Total Energy
Flared Hazen - Stone Black	RCY DAVE BLACK OB	436	3,0	74
Flared Hazen - Strong Blue	RCY DAVE	388	2,3	95
Flared Hazen - Terra	RCY DAVE PAT	445	3,3	62
Flared Hazen - Undyed	RCY DAVE PAT	419	2,3	90
Isy Flared - Stone Black	RCY DAVE BLACK OB	477	3,2	99
Isy Flared - Stone Indigo	ORGANIC CASSIE	724	6,5	99
Isy Flared - Sunny Stone	RCY RECO	528	5,2	79
Jenn Dungaree - Old Stone	RCY DUCK PAT	539	3,9	75
Jenn Dungaree - Dip Black	RCY LANX	433	4,1	87
Jodi Jacket - Undyed	RCY DUCK PAT	404	2,4	81
Loose Bailey - Stone Indigo	RCY LANX	372	3,1	92
Loose Bailey - Used Black	RCY BLAX	362	2,8	70
Luca Short - Moss	RCY DUCK PAT	226	2,1	101
Luca Short - Olive	RCY DUCK PAT	232	2,9	95
Luca Short - Sky Blue	RCY DUCK PAT	227	2,4	18
Luca Short - Terra	RCY DUCK PAT	230	2,6	116
Luca Short - Undyed	RCY DUCK PAT	227	1,7	85
Maksi Skirt - Stone Indigo	RCY LANX	478	3,6	95
Mams Stretch Tapered - Heavy Black Stone	RCY DAVE BLACK OB	428	3,8	94
Mams Stretch Tapered - Off White	RCY TANO	245	2,5	83
Mams Stretch Tapered - Old Stone	RCY CASSIE	409	3,7	81
Mams Tapered - Berry	RCY BLAX	355	4,1	45
MAMS TAPERED - BIO BLEACH	RCY LANX	348	3,5	72
Mams Tapered - Chocolate	RCY BLAX	355	4,0	64
Mams Tapered - Forest	RCY BLAX	355	4,0	94
Marilyn Short - Off White	RCY TANO	151	2,1	83
Marilyn Short - Stone Indigo	RCY LANX	234	2,6	92
Marilyn Short - Sun Stone	RCY LANX	233	3,0	98

Water - Litres (L)
CO₂ - kg of CO₂ eq.
Energy - Megajoule (MJ)

Product Name	Fabric Name	Water Consumption	CO ₂ Impact	Total Energy
Mimi Hazen - Stone Black	RCY DAVE BLACK OB	418	2,9	77
Piper Straight - Used Black	RCY BLAX	365	2,8	128
Piper Straight - Stone Breeze	RCY LANX	374	3,4	92
Piper Straight - Stone Indigo	RCY LANX	372	3,2	104
Rachel Rocks - Off White	RCY TANO	148	2,1	91
Redunn Chino - Olive	RCY DAVE PAT	458	3,6	79
Redunn Chino - Undyed	RCY DAVE PAT	454	2,4	81
Regular Bryce - Heavy Stone	RCY CASSIE	485	4,1	81
Regular Bryce - Authentic Indigo	RCY CASSIE	428	3,9	77
Regular Bryce - Dry Spirit	Deadstock	24	0,9	57
Regular Bryce - Strong Blue	ORGANIC CASSIE	618	5,4	77
Regular Dunn Stretch - Pure Blue	RCY DAVE	410	3,2	74
Regular Dunn - Stone Blue	RCY LANX	416	3,6	115
Regular Dunn - Sun Stone	RCY LANX	395	3,6	95
Regular Dunn - True Indigo	RCY LANX	394	3,0	83
Regular Dunn - Worn Black	RCY BLAX	374	3,1	57
Regular Dunn Stretch - Dark Worn	Deadstock	28	2,1	93
Regular Dunn Stretch - Dip Dry	RCY DAVE BLACK OB	437	2,6	86
Regular Dunn Stretch - Medium Worn	Deadstock	31	3,0	66
Regular Dunn Stretch - O3 Grey	RCY DAVE BLACK OB	456	3,7	96
Regular Dunn Stretch - Stone Black	RCY DAVE BLACK OB	439	3,1	86
Regular Swan - Heavy Stone	RCY CASSIE	403	3,8	82
Regular Swan - Authentic Indigo	RCY CASSIE	475	3,9	103
Regular Swan - Stone Black	RCY DAVE BLACK OB	395	2,9	79
Regular Swan - Strong Blue	ORGANIC CASSIE	688	5,9	67
Relax Fred - Heavy Stone	RCY LANX	405	3,5	95
Relax Rose - Dip Black	RCY LANX	387	4,0	84
Relax Rose - Heavy Stone	RCY LANX	392	3,5	79

Water - Litres (L)
CO₂ - kg of CO₂ eq.
Energy - Megajoule (MJ)

Product Name	Fabric Name	Water Consumption	CO ₂ Impact	Total Energy
Relax Rose - Corn	RCY DUCK PAT	336	3,1	77
Relax Rose - Stone Indigo	RCY LANX	374	3,1	65
Relax Rose - Sun Stripe	RCY LANX	367	3,1	58
Relax Rose - Terra	RCY DUCK PAT	335	3,0	95
Relax Rose - Undyed	RCY DUCK PAT	333	2,0	81
Relax Rose - Used Black	RCY BLAX	378	2,8	75
Relax Rose - Whale Blue	RCY LANX	381	2,7	100
Relax Rose Cropped - Atlantic	RCY CANA	446	6,0	67
Relax Rose Cropped - Natural	RCY CHABY	567	4,3	99
Sara Works Cropped - Medium Stone	RCY LANX	389	3,1	89
Simple Chique - Off White	RCY TANO	216	2,4	83
SimpleChique - Medium Stone Black	RCY DAVE BLACK OB	412	3,7	79
SimpleChique - Stone Indigo	RCY CASSIE	409	3,6	66
Skinny Hazen - Dip Dry	RCY DAVE BLACK OB	393	2,4	97
Skinny Hazen - Fan Stone	RCY GRACE	350	4,2	62
Skinny Hazen - O3 Grey	RCY DAVE BLACK OB	401	3,4	94
Skinny Hazen - Pure Blue	RCY DAVE	412	3,1	132
Skinny Hazen - Sea Stone	RCY DAVE	409	3,9	113
Skinny Hazen - Stone Black	RCY DAVE BLACK OB	405	2,9	81
Skinny Hazen - Strong Blue	RCY DAVE	411	2,4	81
Skinny Lilly - Fan Stone	RCY GRACE	343	4,1	96
Skinny Lilly - O3 Grey	RCY DAVE BLACK OB	381	3,3	82
Skinny Lilly - Pure Blue	RCY DAVE	388	3,0	109
Skinny Lilly - Stone Black	RCY DAVE BLACK OB	390	2,9	108
Skinny Lilly - Strong Blue	RCY DAVE	393	2,3	94
Skinny Sandy - Off White	RCY TANO	221	2,4	86
Skinny Sandy - Strong Blue	ORGANIC CASSIE	487	4,4	63
Sky Rise Skinny - Pure Blue	RCY GRACE	345	3,5	90

Water - Litres (L)
CO₂ - kg of CO₂ eq.
Energy - Megajoule (MJ)

Product Name	Fabric Name	Water Consumption	CO ₂ Impact	Total Energy
Sky Rise Skinny - Stone Black	RCY DAVE BLACK OB	374	2,8	96
Sky Rise Skinny - Strong Blue	ORGANIC CASSIE	519	4,6	91
Slim Lassen - Dip Dry	RCY DAVE BLACK OB	401	2,4	87
Slim Lassen - Fan Stone	RCY GRACE	370	4,3	85
Slim Lassen - O3 Grey	RCY DAVE BLACK OB	423	3,5	25
Slim Lassen - Pure Blue	RCY DAVE	418	3,1	83
Slim Lassen - Stone Black	RCY DAVE BLACK OB	406	2,9	79
Slim Lassen - Strong Blue	RCY DAVE	402	2,3	66
Slimmer Rick - Heavy Black Stone	RCY DAVE BLACK OB	454	3,8	97
Slimmer Rick - Off White	RCY TANO	249	2,5	62
Slimmer Rick - Old Stone	RCY CASSIE	436	3,8	94
Slimmer Rick - Stone Indigo	ORGANIC CASSIE	628	6,2	132
Slimmer Rick - Strong Blue	ORGANIC CASSIE	600	5,2	113
Sophie Rocks - Corn	RCY DUCK PAT	183	2,6	61
Sophie Rocks - Dip Black	RCY LANX	212	3,3	80
Sophie Rocks - Heavy Stone	RCY LANX	209	2,7	65
Sophie Rocks - Terra	RCY DUCK PAT	182	2,5	58
Sophie Rocks - Undyed	RCY DUCK PAT	179	1,5	38
Stretch Mimi - Pure Blue	RCY DAVE	406	3,1	81
Stretch Mimi - Stone Black	RCY DAVE BLACK OB	421	3,0	81
Toto bag - One Size	Deadstock	20	0,8	16
Troy Jacket - Summer Stone	RCY LANX	393	3,0	81
Tyler Jacket - Heavy Stone	RCY LANX	454	3,9	101
Tyler Jacket - Strong Blue	RCY LANX	451	2,8	79
Van Apron - Blossom Blue	RCY CANA	203	3,5	65
Van Apron - Starry Blue	RCY CANA	200	2,5	49
Van Easy - Blossom Blue	RCY CANA	430	5,1	96
Van Rope - Letter Blue	RCY CANA	543	6,2	118

Water - Litres (L)
CO₂ - kg of CO₂ eq.
Energy - Megajoule (MJ)

Product Name	Fabric Name	Water Consumption	CO ₂ Impact	Total Energy
Van Rose - Starry Blue	RCY CANA	443	4,2	82
Van Tyler - Starry Blue	RCY CANA	571	5,3	101
Van Vest - Starry Blue	RCY CANA	428	4,1	80
Van Wilma - Letter Blue	RCY CANA	471	5,7	109
Will Works - Dip Black	RCY LANX	418	4,1	108
Will Works - Heavy Stone	RCY LANX	416	3,5	94
Will Works - Olive	RCY DUCK PAT	388	3,4	86
Will Works - Undyed	RCY DUCK PAT	383	2,2	63
Wilma Works - Stone Indigo	RCY LANX	443	3,4	90
Wyde Sara - Heavy Black Stone	RCY LANX	427	3,7	96
Wyde Sara - Medium Stone	RCY LANX	445	3,4	91
Wyde Sara - Stone Indigo	RCY LANX	425	3,3	87
Wyde Sara Cropped - Stone Breeze	RCY LANX	369	3,3	85
Wyde Sara Works - Summer Rinse	Deadstock	24	1,3	25

Water - Litres (L)
CO₂ - kg of CO₂ eq.
Energy - Megajoule (MJ)

Life Cycle Analysis (LCA) Report



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