



Interactive tools for economic analysis of reproductive programs in dairy cattle

Victor E. Cabrera

Where to go?

Where to go?

DairyMGT.info

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DairyMGT.info

The screenshot shows the homepage of DairyMGT.info, a website from the University of Wisconsin-Madison. The header features the university's logo and navigation tabs for Home, Tools, Projects, Publications, Presentations, Links, and Find. Below the header is a search bar and a secondary navigation menu with links for About, Contact, Comments, News, People, Opportunities, and Gallery. The main content area is titled "Dairy Management" and includes a descriptive paragraph about the site's purpose. It also features several sections: "Latest Projects" with links to genomic selection, reproduction decision support, pasture supplementation, and fertility; "Helpful Link" with a link to the Repro Money Program; "Contact" information for Victor E. Cabrera, Ph.D., including his title, address, phone number, and email; "Dairy News" with a link to UW-Extension Dairy News; and a "Tools" section with a "READ MORE" button. The footer contains a list of links for various university and extension resources.

Where to go?

DairyMGT.info

Dairy Management UW-Extension
University of Wisconsin-Madison

THE UNIVERSITY OF WISCONSIN **UW Extension**

Home Tools Projects Publications Presentations Links Find
About Contact Comments News People Opportunities Gallery Search

Dairy Management

Dairy Management site is designed to support dairy farming decision-making focusing on model-based scientific research. The ultimate goal is to provide user-friendly computerized decision support systems to help dairy farms improve their economic performance. Dr. Victor Cabrera focuses on model-based decision support in dairy cattle and in dairy farm production systems. Dr. Cabrera's primary interest is to improve cost-efficiency and profitability along with environmental stewardship in dairy farms by using simulation techniques, artificial intelligence, and expert systems. Dr. Cabrera's research and Extension programs involve interdisciplinary and participatory approaches towards the creation of user-friendly decision support systems. As an Extension Specialist, Dr. Cabrera works in close relationships with county-based Extension faculty, dairy producers, consultants, and related industry.

- Latest Projects**
 - Genomic Selection and Herd Management
 - Dairy Reproduction Decision Support Tools
 - Strategies of Pasture Supplementation
 - Improving Dairy Cow Fertility
 - LGM-Dairy
- Helpful Link**
 - Repro Money Program
 - Contact
- UW**
 - University of Wisconsin - Madison
 - UW - Cooperative Extension
 - UW - Dairy Science
 - Understanding Dairy Markets
 - UW Dairy Nutrient
 - UW Center for Dairy Profitability
- Dairy News**
 - UW-Extension Dairy News

Tools

Dairy Management Tools

Click to find out more about tools provided by DairyMGT

Victor E. Cabrera, Ph.D.

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Extension Specialist Dairy Management
279 Animal Sciences
1675 Observatory Dr.
Madison, WI 53706
(608) 265-8506
vcabrera@wisc.edu
Professional Page

Admin Portal

Click Above to reach the Administrator Portal.

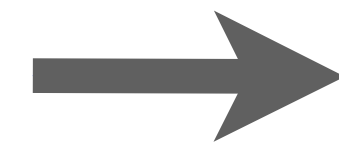


Where to go?

DairyMGT.info

The screenshot shows the DairyMGT.info website homepage. At the top, there is a banner image of cows in a field with the text "Dairy Management UW-Extension University of Wisconsin-Madison" and the UW Extension logo. Below the banner is a navigation menu with links: Home, Tools, Projects, Publications, Presentations, Links, Find, About, Contact, Comments, News, People, Opportunities, Gallery, and a search box. The main content area is titled "Dairy Management" and contains a paragraph about the site's purpose. Below this are several sections: "Latest Projects" with links to Genomic Selection and Herd Management, Dairy Reproduction Decision Support Tools, Strategies of Pasture Supplementation, Improving Dairy Cow Fertility, and LGM-Dairy; "UW" with links to University of Wisconsin - Madison, UW - Cooperative Extension, UW - Dairy Science, Understanding Dairy Markets, UW Dairy Nutrient, and UW Center for Dairy Profitability; "Dairy News" with a link to UW-Extension Dairy News; "Helpful Link" with a link to the Rebro Money Program; "Contact" with a photo and contact information for Victor E. Cabrera, Ph.D., Assistant Professor and Extension Specialist in Dairy Management; and "Tools" with a link to Dairy Management Tools. A large arrow points from the "Tools" section of the website towards the right side of the slide.

Tools



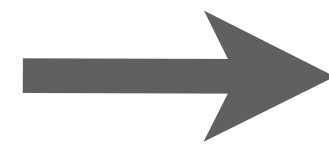
The screenshot shows the "TOOLS" section of the website. It features a header "TOOLS" and a sub-header "Dairy Management Tools". Below the sub-header is a paragraph: "Click to find out more about tools provided by DairyMGT". There is a yellow button labeled "READ MORE".

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On the left side, there are sections for "Latest Projects" (listing Genomic Selection and Herd Management, Dairy Reproduction Decision Support Tools, Strategies of Pasture Supplementation, Improving Dairy Cow Fertility, and LGM-Dairy) and "Helpful Link" (listing Repro Money Program and Contact). Below this is a profile for Victor E. Cabrera, Ph.D., Assistant Professor and Extension Specialist in Dairy Management, with contact information and a "Professional Page" link. A "Dairy Management Tools" section includes a "READ MORE" button.



Tools

The screenshot shows the "Tools" page on DairyMGT.info. It features a navigation menu with links for Home, Tools, Projects, Publications, Presentations, Links, and Find. Below the menu is a sub-menu with links for Feeding, Heifers, Reproduction, Production, Replacement, Financial, Price Risk, and Enrollment. The main heading is "Management Tools". A paragraph states: "A collection of state-of-the-art dairy management tool that are: user-friendly, interactive, robust, visually attractive, and self contained. All these tools have clear or self-explanatory instructions and technical support available." Below this, it says "Click on the Tool title to learn more."

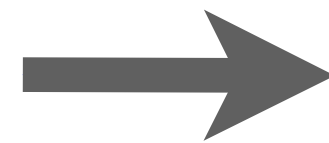
The page is organized into categories:

- Feeding**
 - Grouping Strategies for Feeding Lactating Dairy Cattle
 - Optigen® Evaluator
 - Income Over Feed Supplement Cost
 - Dairy Extension Feed Cost Evaluator
 - Com Feeding Strategies
 - Income Over Feed Cost
 - Dairy Ration Feed Additive Break-Even Analysis
- Heifers**
 - Cost-Benefit of Accelerated Liquid Feeding Program for Dairy Calves
 - Economic Value of Sexed Semen Programs for Dairy Heifers
 - Heifer Replacement
 - Heifer Break-Even
- Reproduction**
 - Economic Value of Sexed Semen Programs for Dairy Heifers
 - UW-DairyRepro®: A Reproductive Economic Analysis Tool
 - Exploring Timing of Pregnancy Impact on Income Over Feed Cost
 - Dairy Reproductive Economic Analysis
- Production**
 - Dairy Reproductive Economic Analysis
 - Economic Value of Sexed Semen Programs for Dairy Heifers
 - Exploring Timing of Pregnancy Impact on Income Over Feed Cost
 - Dairy Reproductive Economic Analysis

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Tools

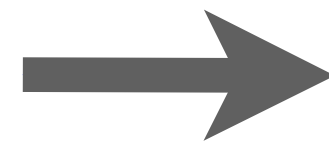
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Where to go?

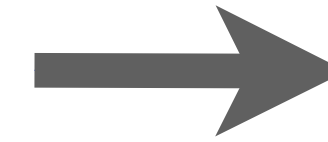
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Tools

The screenshot shows the "Tools" page on DairyMGT.info. It features a navigation menu with links for Home, Tools, Projects, Publications, Presentations, Links, and Find. Below the menu is a sub-menu with links for Feeding, Heifers, Reproduction, Production, Replacement, Financial, Price Risk, and Environment. The main heading is "Management Tools". A paragraph states: "A collection of state-of-the-art dairy management tool that are: user-friendly, interactive, robust, visually attractive, and self contained. All these tools have clear or self-explanatory instructions and technical support available." Below this, there are sections for "Feeding" (listing Grouping Strategies for Feeding Lactating Dairy Cattle, Optigen® Evaluator, Income Over Feed Supplement Cost, Dairy Extension Feed Cost Evaluator, Com Feeding Strategies, Income Over Feed Cost, and Dairy Ration Feed Additive Break-Even Analysis), "Heifers" (listing Cost-Benefit of Accelerated Liquid Feeding Program for Dairy Calves, Economic Value of Sexed Semen Programs for Dairy Heifers, Heifer Replacement, and Heifer Break-Even), and "Reproduction" (listing Economic Value of Sexed Semen Programs for Dairy Heifers, UW-DairyRepro®: A Reproductive Economic Analysis Tool, Exploring Timing of Pregnancy Impact on Income Over Feed Cost, and Dairy Reproductive Economic Analysis). There is also a "Production" section with several links.

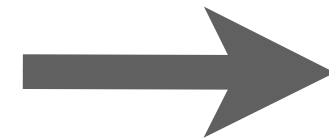


Reproduction

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Tools

The screenshot shows the "Tools" page. It features a navigation menu with links for Home, Tools, Projects, Publications, Presentations, Links, and Find. Below the menu, there are sub-links for Feeding, Heifers, Reproduction, Production, Replacement, Financial, Price Risk, and Enrollment. The main heading is "Management Tools". A paragraph states: "A collection of state-of-the-art dairy management tool that are: user-friendly, interactive, robust, visually attractive, and self contained. All these tools have clear or self-explanatory instructions and technical support available." Below this, there is a section for "Feeding" with a list of tools: Grouping Strategies for Feeding Lactating Dairy Cattle, Optigen® Evaluator, Income Over Feed Supplement Cost, Dairy Extension Feed Cost Evaluator, Com Feeding Strategies, Income Over Feed Cost, and Dairy Ration Feed Additive Break-Even Analysis. There is also a section for "Heifers" with tools: Cost-Benefit of Accelerated Liquid Feeding Program for Dairy Calves, Economic Value of Sexed Semen Programs for Dairy Heifers, Heifer Replacement, and Heifer Break-Even. A "Reproduction" section lists: Economic Value of Sexed Semen Programs for Dairy Heifers, UW-DairyRepro\$: A Reproductive Economic Analysis Tool, Exploring Timing of Pregnancy Impact on Income Over Feed Cost, and Dairy Reproductive Economic Analysis. At the bottom, there is a "Production" section with several links.



Reproduction

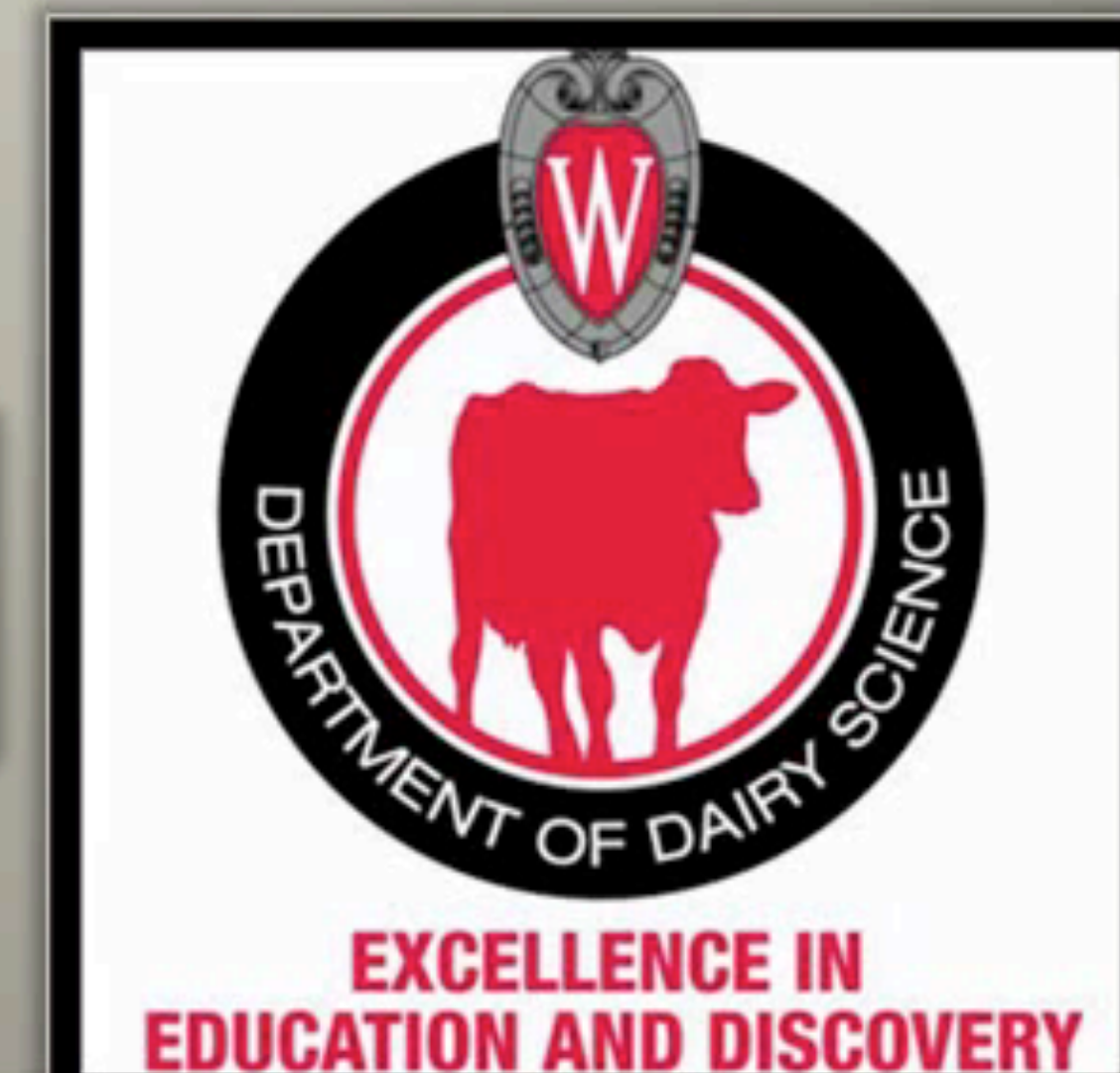
The screenshot shows the "Reproduction" page. It features a navigation menu with links for Home, Tools, Projects, Publications, Presentations, Links, and Find. Below the menu, there are sub-links for Feeding, Heifers, Reproduction, Production, Replacement, Financial, Price Risk, and Enrollment. The main heading is "Reproduction". Below this, there is a list of tools: UW-DairyRepro\$Plus: A Reproductive Analysis Tool that Includes Heat Detection Devices, Economic Value of Sexed Semen Programs for Dairy Heifers, UW-DairyRepro\$: A Reproductive Economic Analysis Tool, Exploring Timing of Pregnancy Impact on Income Over Feed Cost, and Dairy Reproductive Economic Analysis.

Exploring the impact of pregnancy timing on IOFC

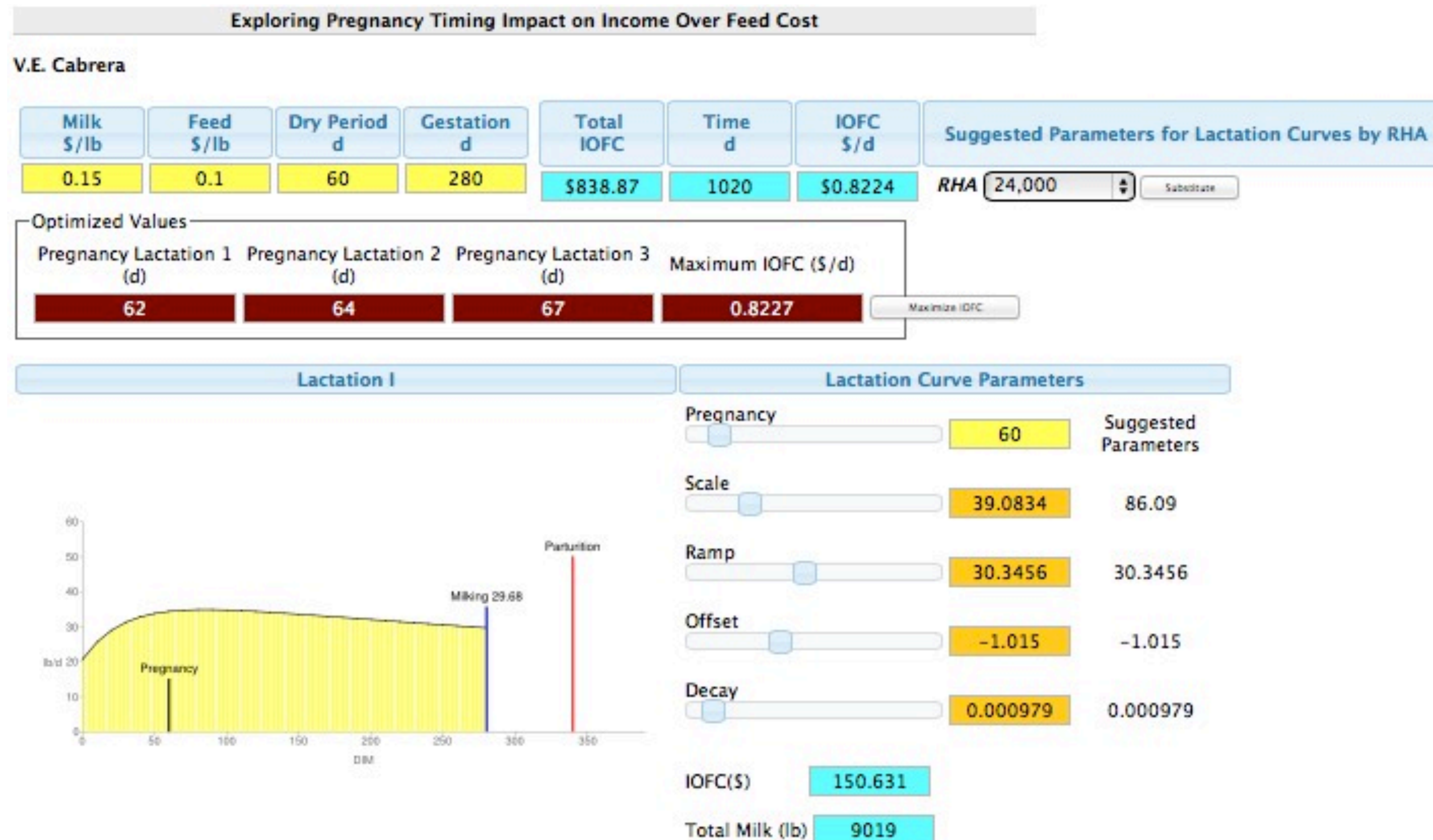


Exploring the impact of pregnancy timing on IOFC

Exploring Timing of Pregnancy Impact on Income Over Feed Cost



Exploring the impact of pregnancy timing on IOFC



Exploring the impact of pregnancy timing on IOFC

General parameters

Exploring Pregnancy Timing Impact on Income Over Feed Cost

V.E. Cabrera

Milk \$/lb	Feed \$/lb	Dry Period d	Gestation d	Total IOFC	Time d	IOFC \$/d	Suggested Parameters for Lactation Curves by RHA
0.15	0.1	60	280	\$838.87	1020	\$0.8224	RHA 24,000 <input type="button" value="Substrate"/>

Optimized Values

Pregnancy Lactation 1 (d)	Pregnancy Lactation 2 (d)	Pregnancy Lactation 3 (d)	Maximum IOFC (\$/d)
62	64	67	0.8227

Lactation I

Lactation Curve Parameters

Parameter	Value	Suggested Parameters
Pregnancy	60	
Scale	39.0834	86.09
Ramp	30.3456	30.3456
Offset	-1.015	-1.015
Decay	0.000979	0.000979

IOFC(\$) 150.631

Total Milk (lb) 9019

Exploring the impact of pregnancy timing on IOFC

General parameters

Exploring Pregnancy Timing Impact on Income Over Feed Cost

V.E. Cabrera

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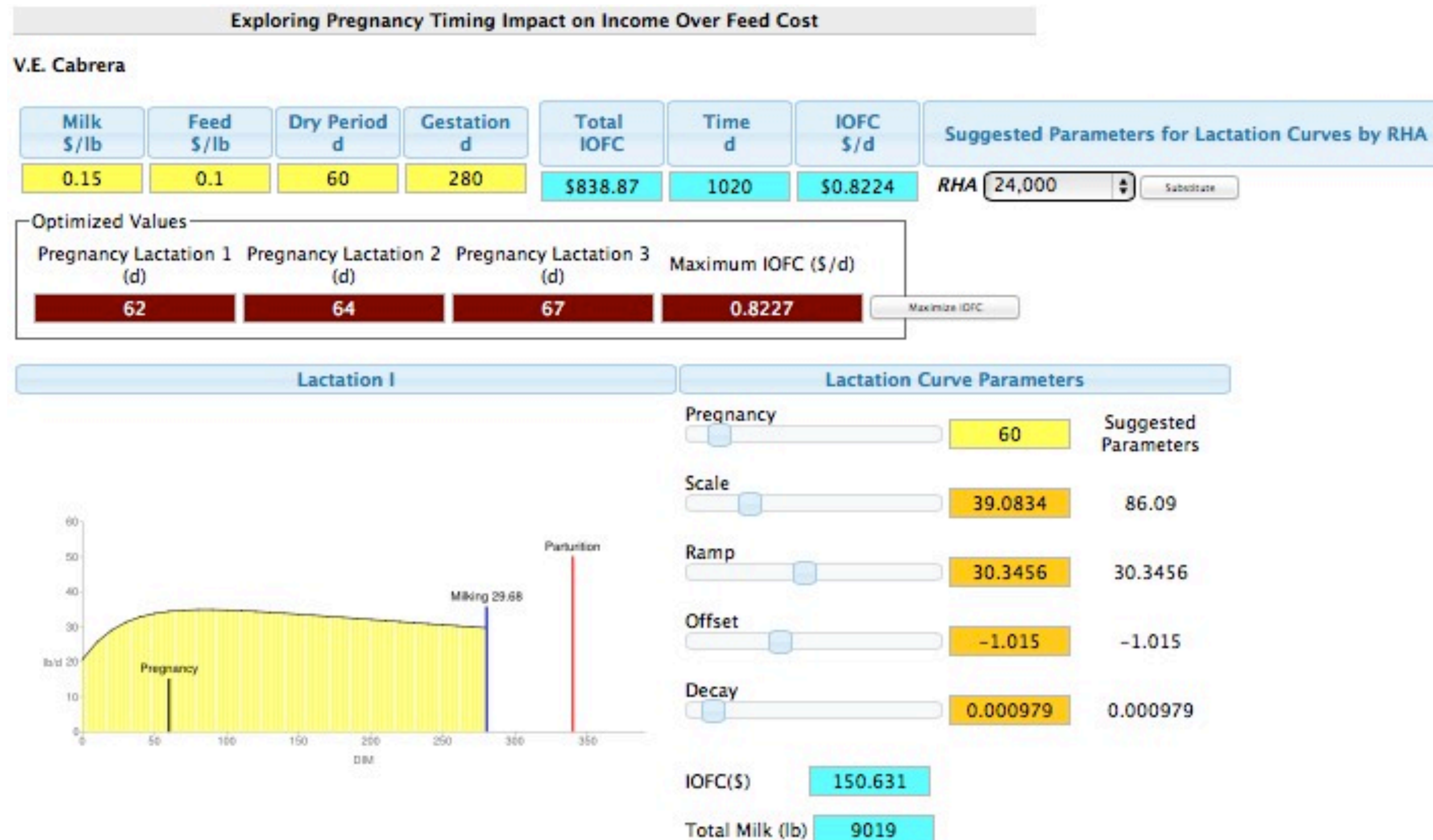
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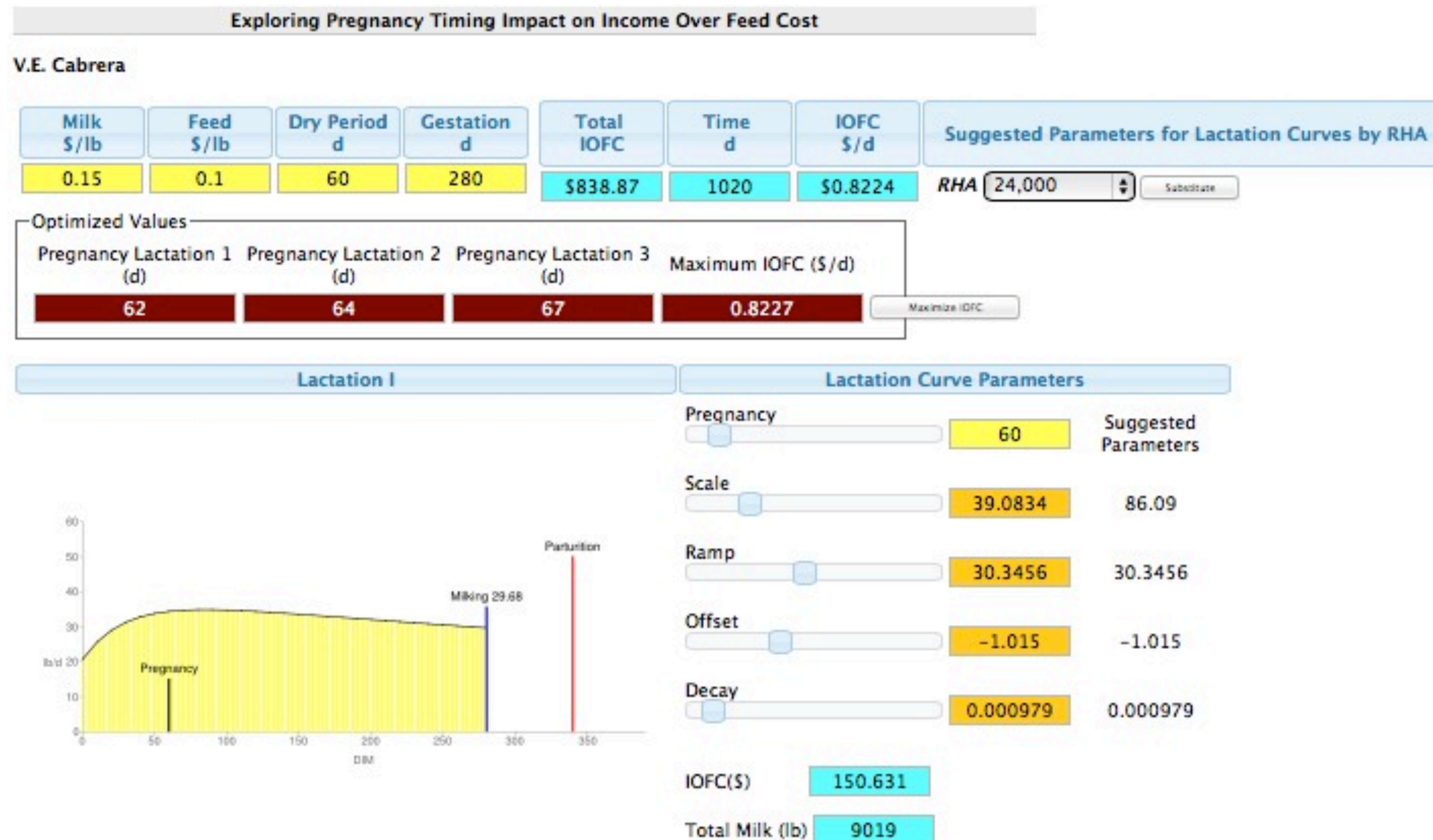
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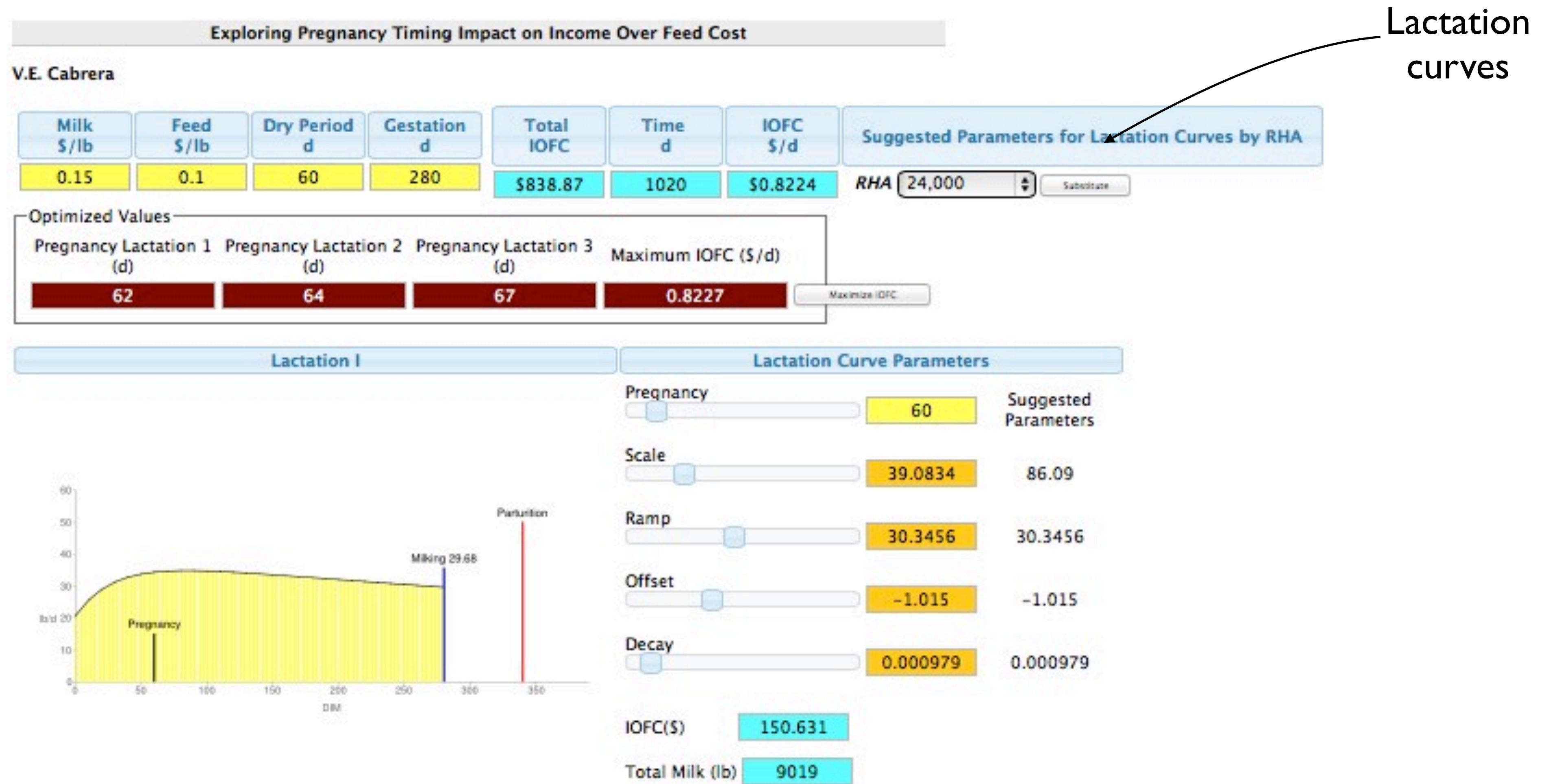


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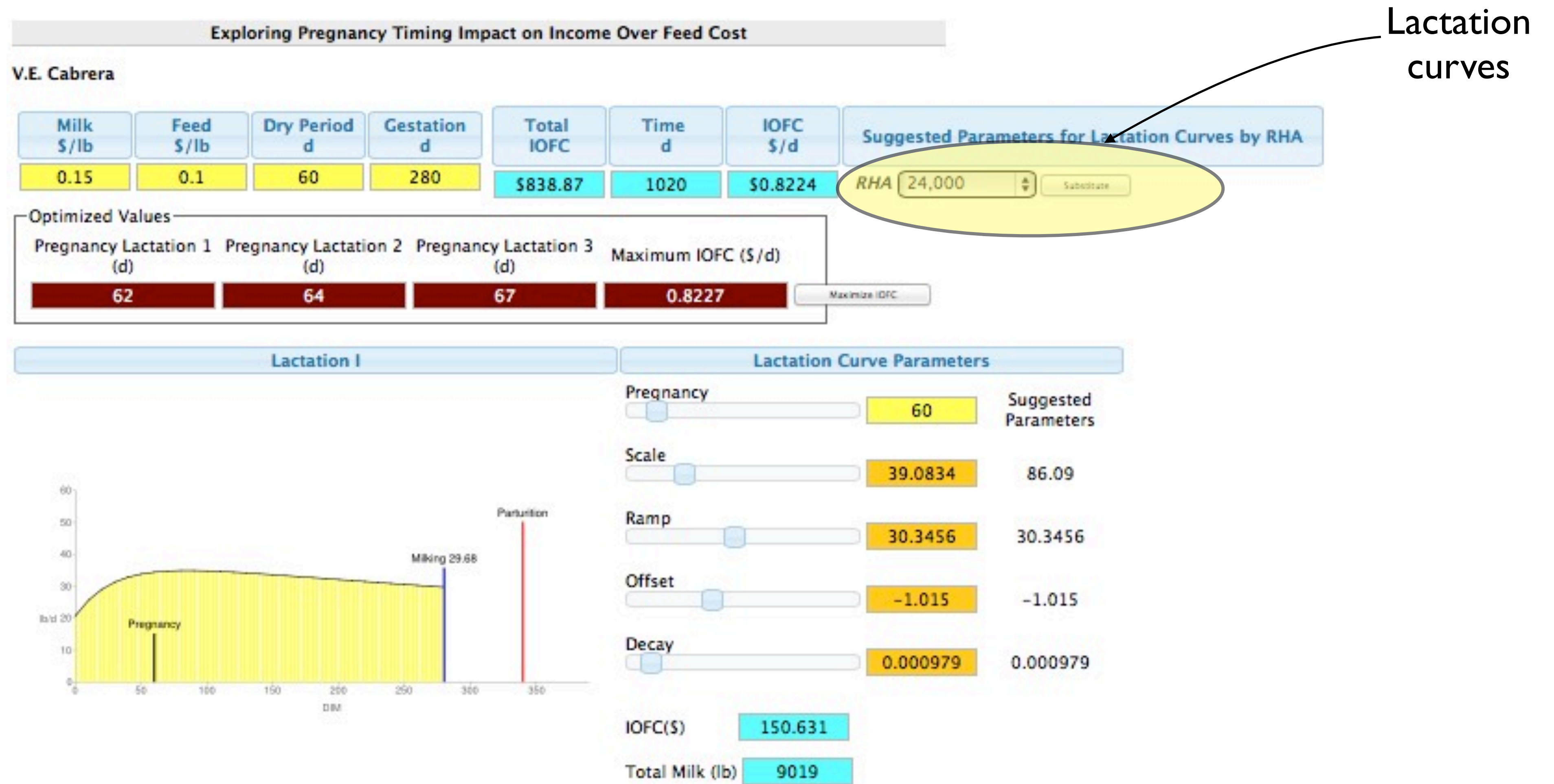
Lactation curves



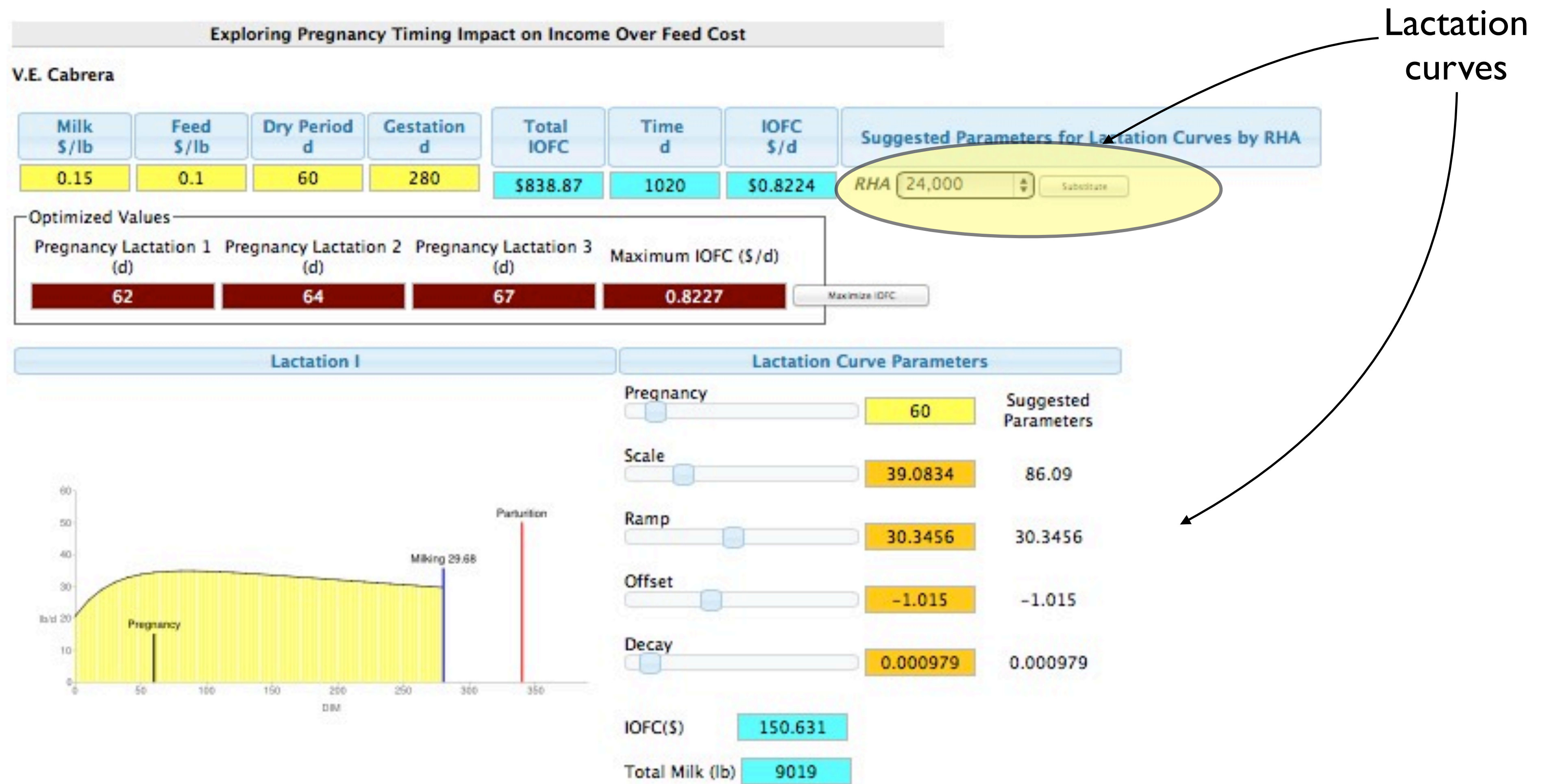
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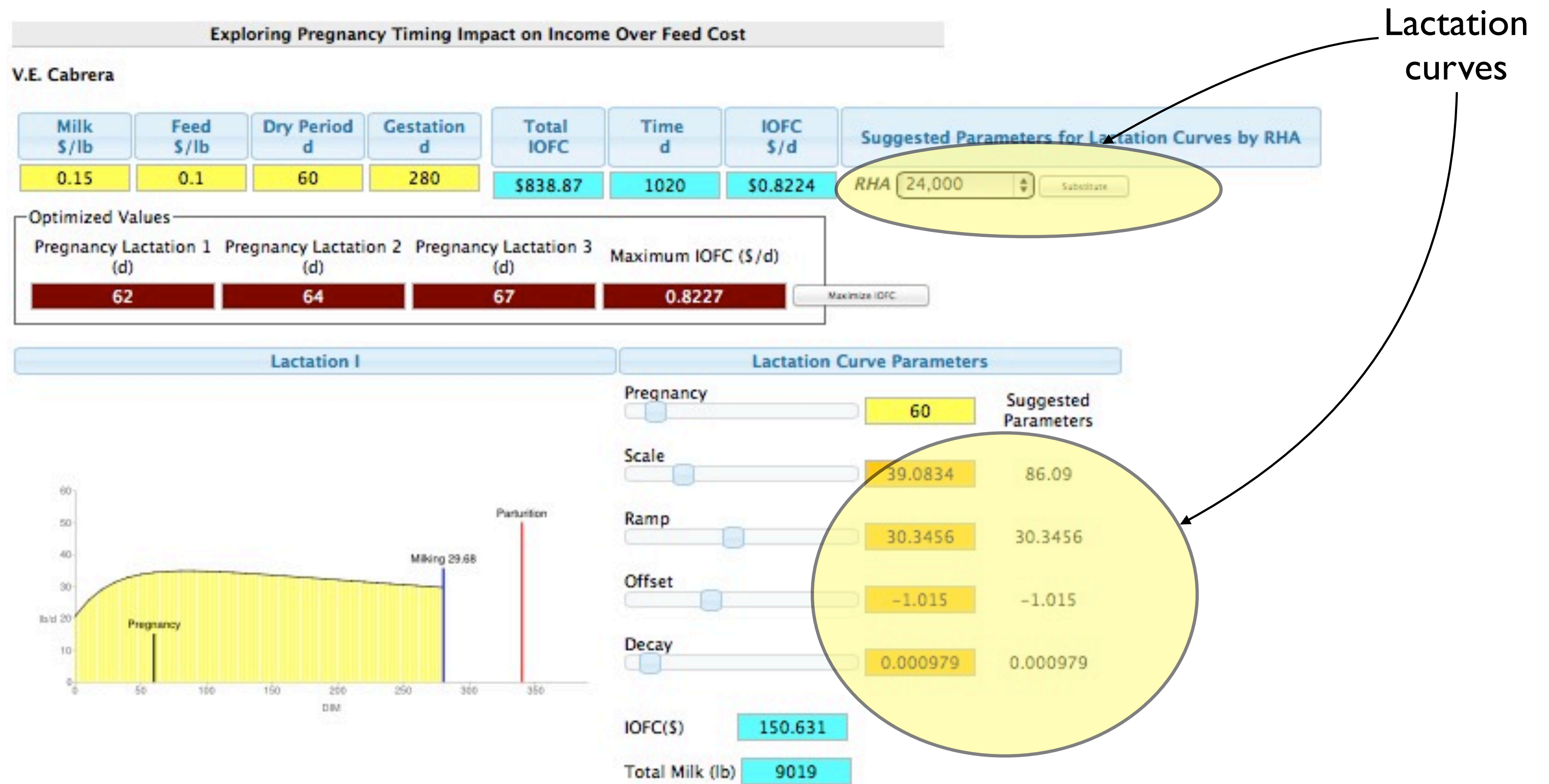
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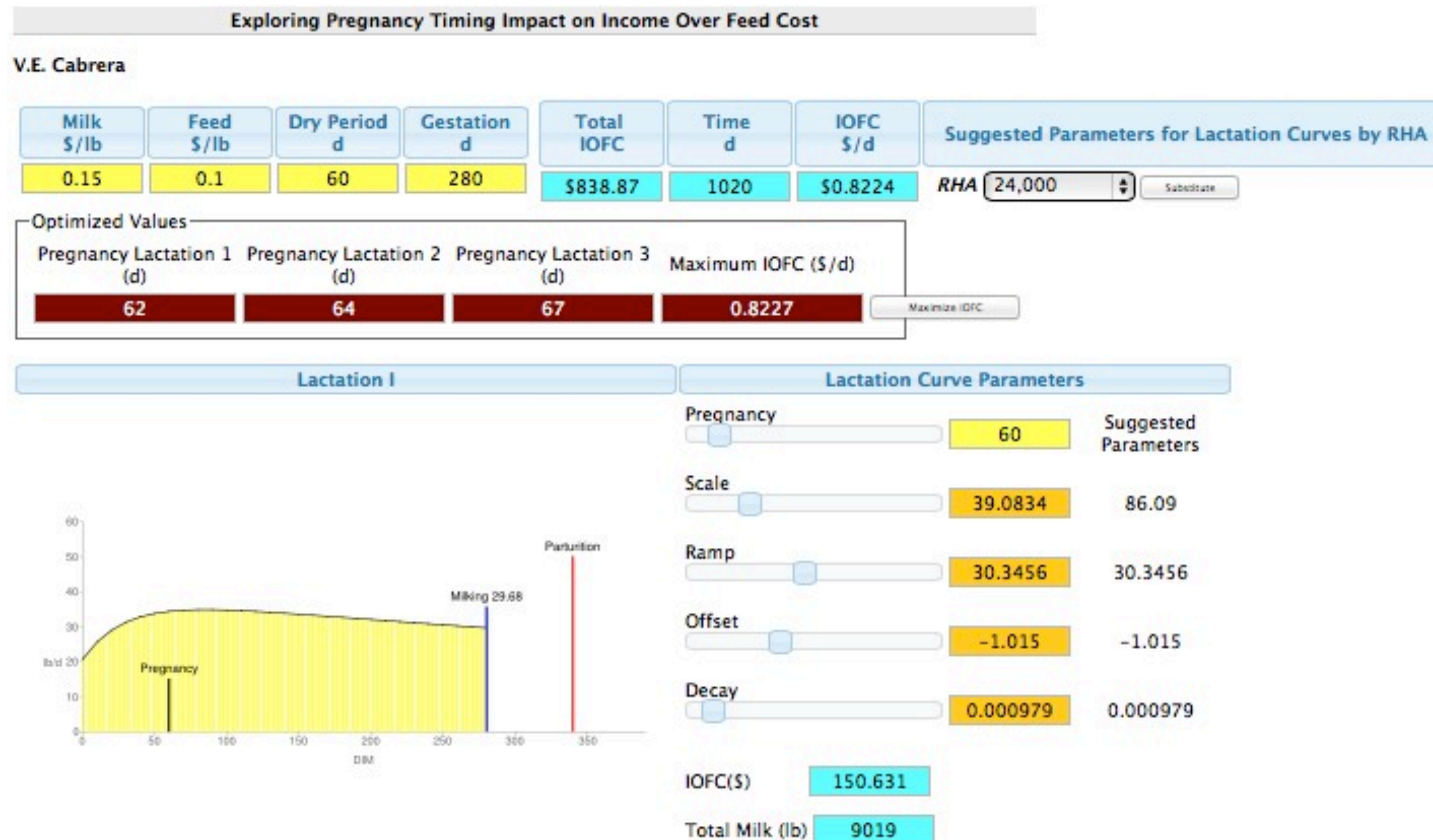
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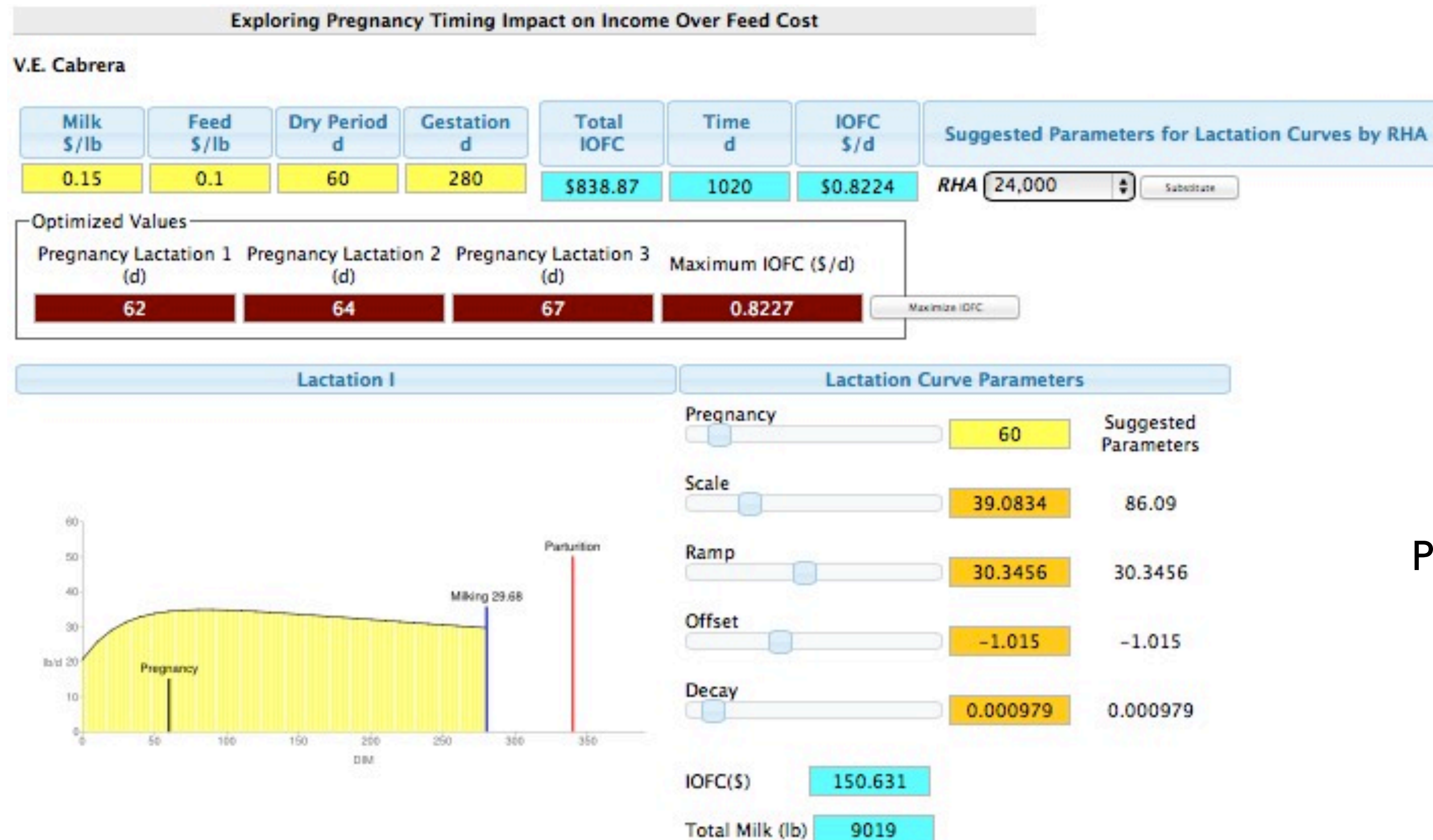
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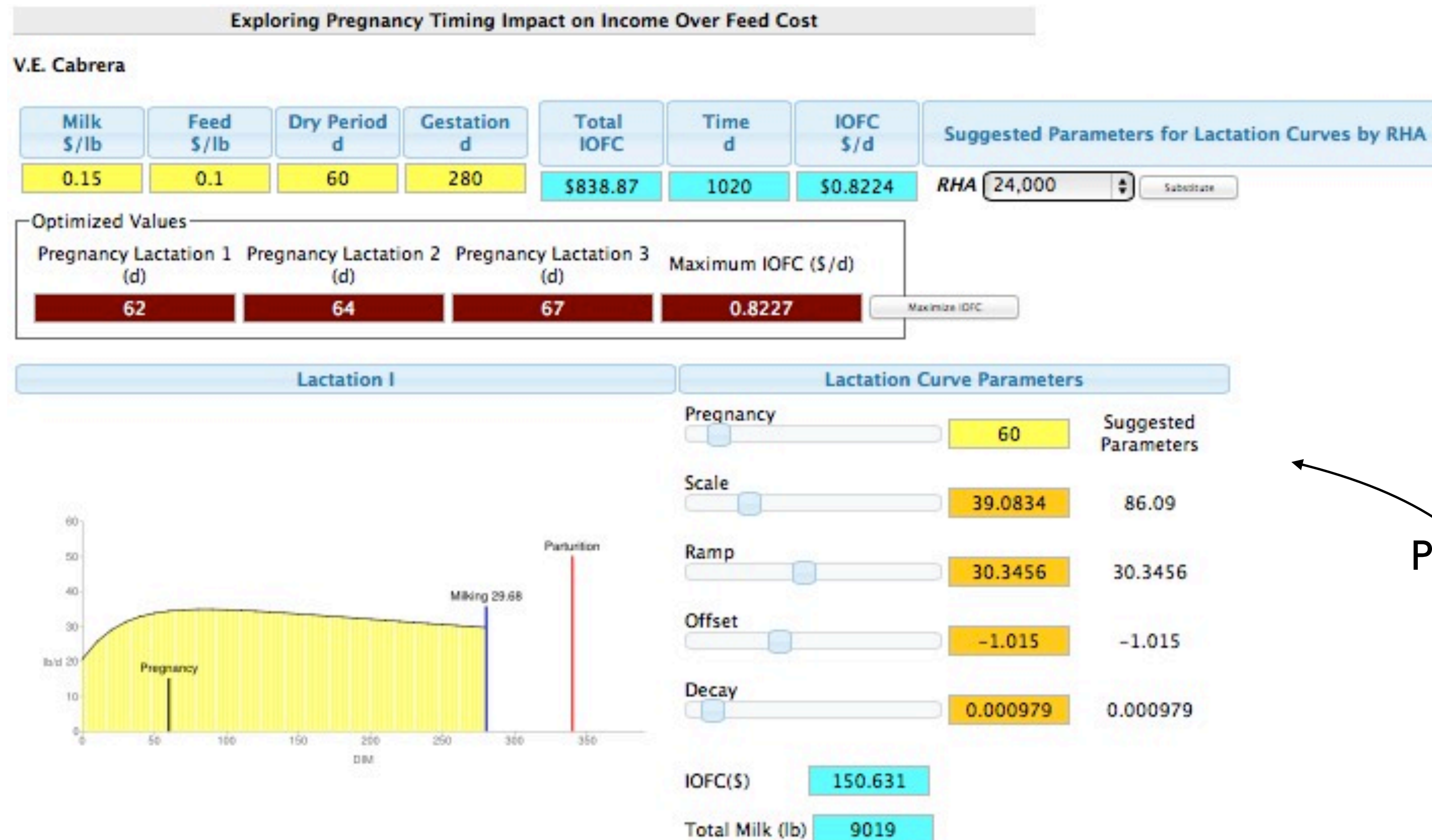


Exploring the impact of pregnancy timing on IOFC



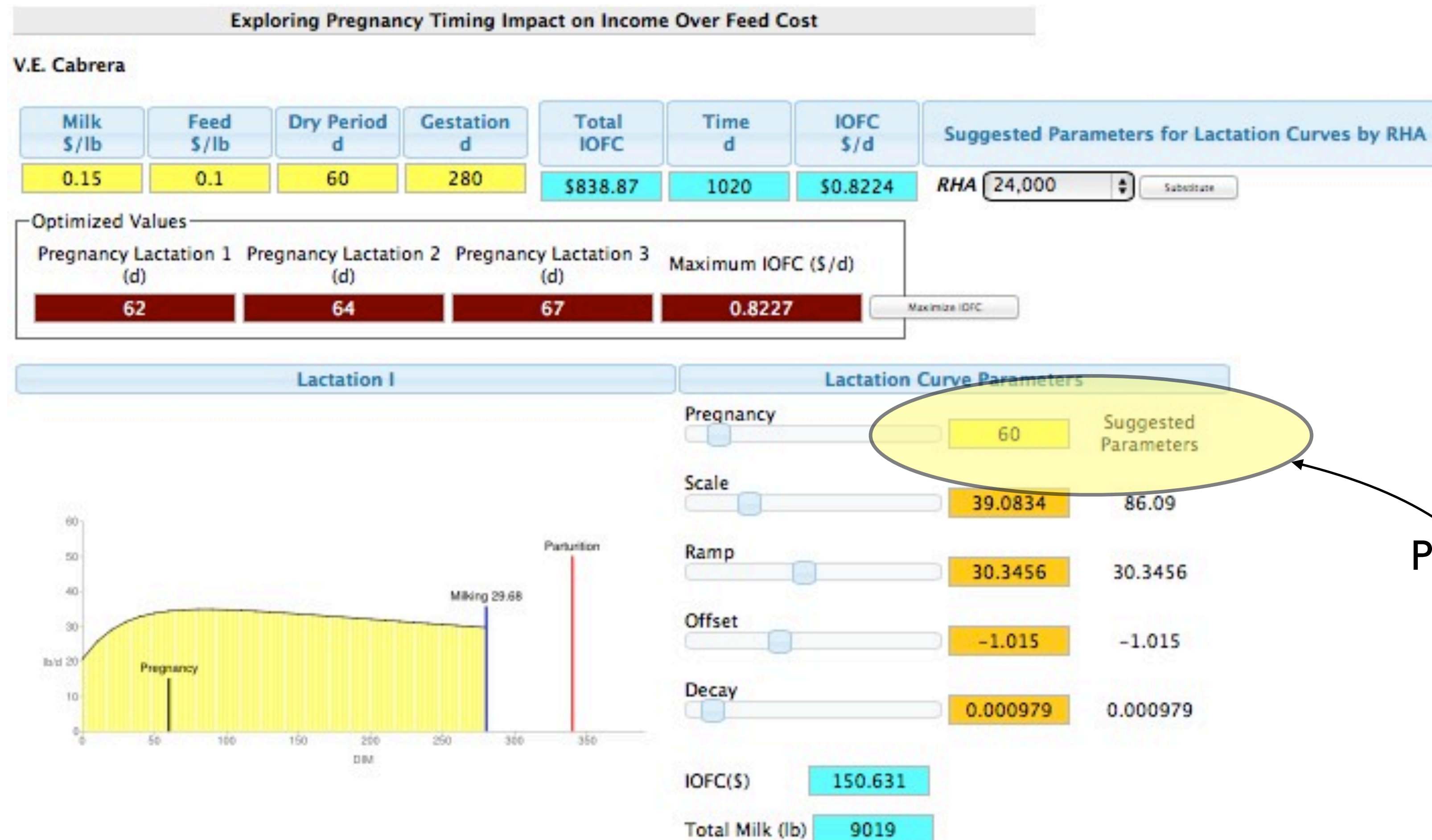
Pregnancy time!

Exploring the impact of pregnancy timing on IOFC

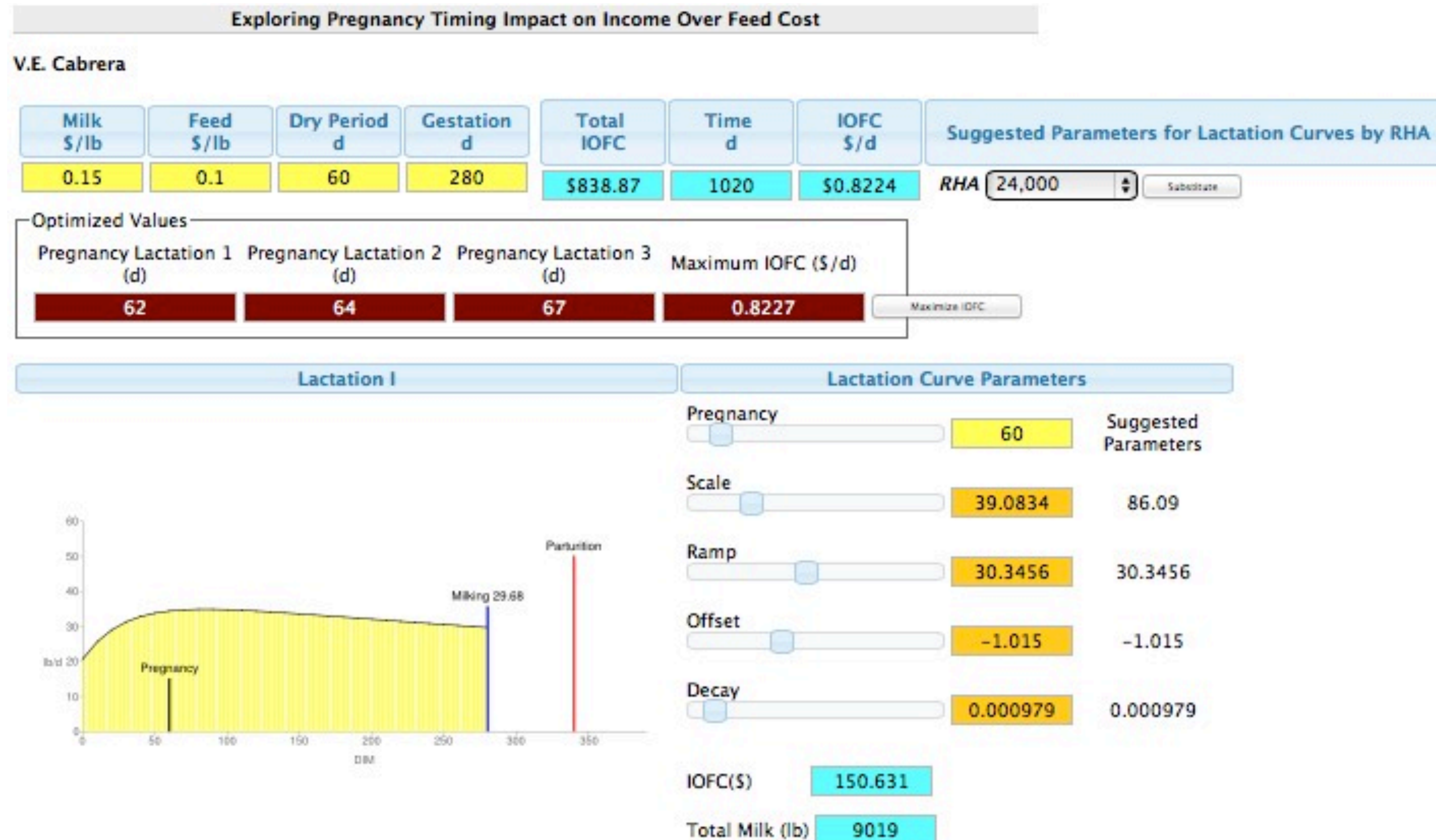


← Pregnancy time!

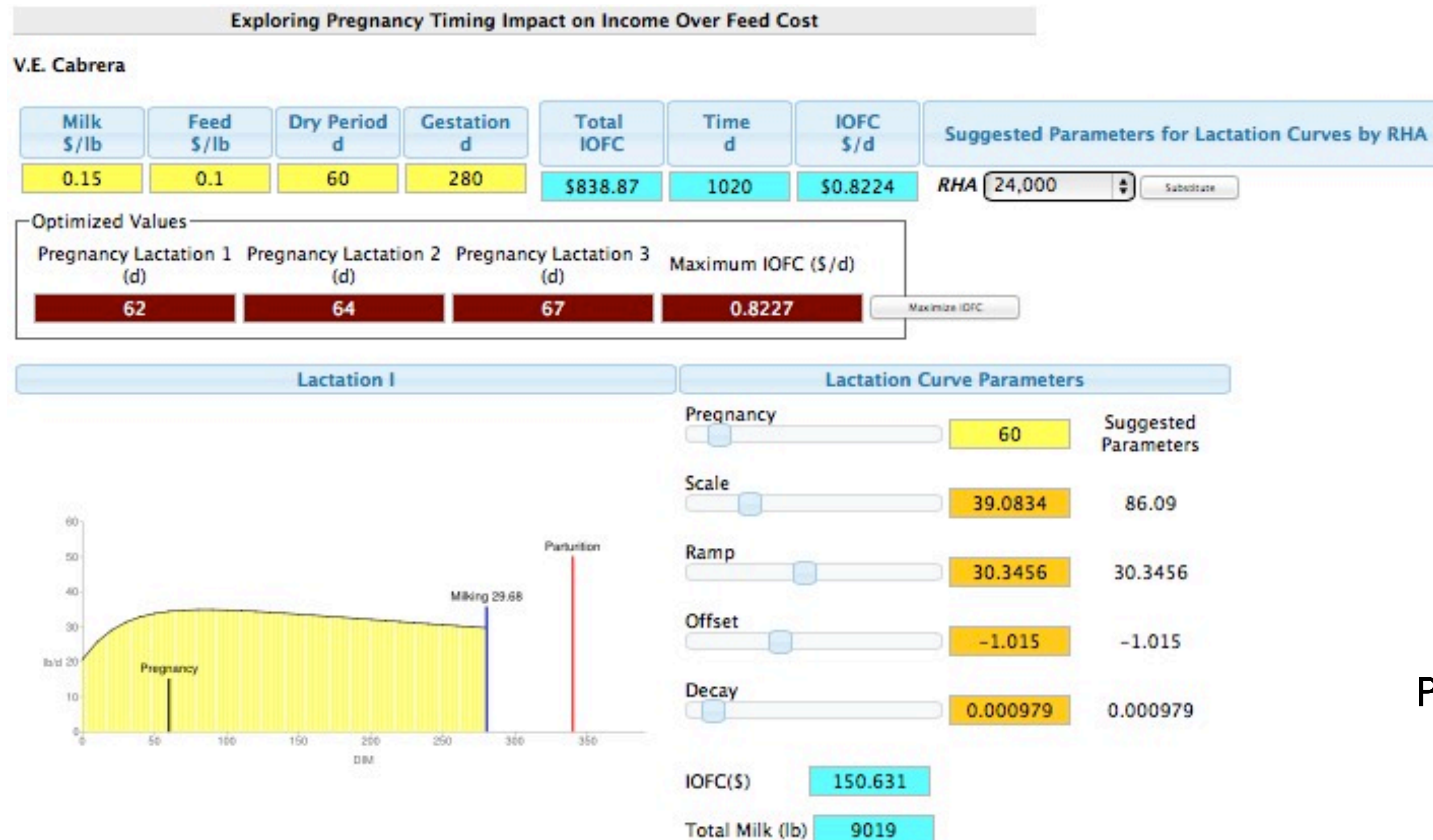
Exploring the impact of pregnancy timing on IOFC



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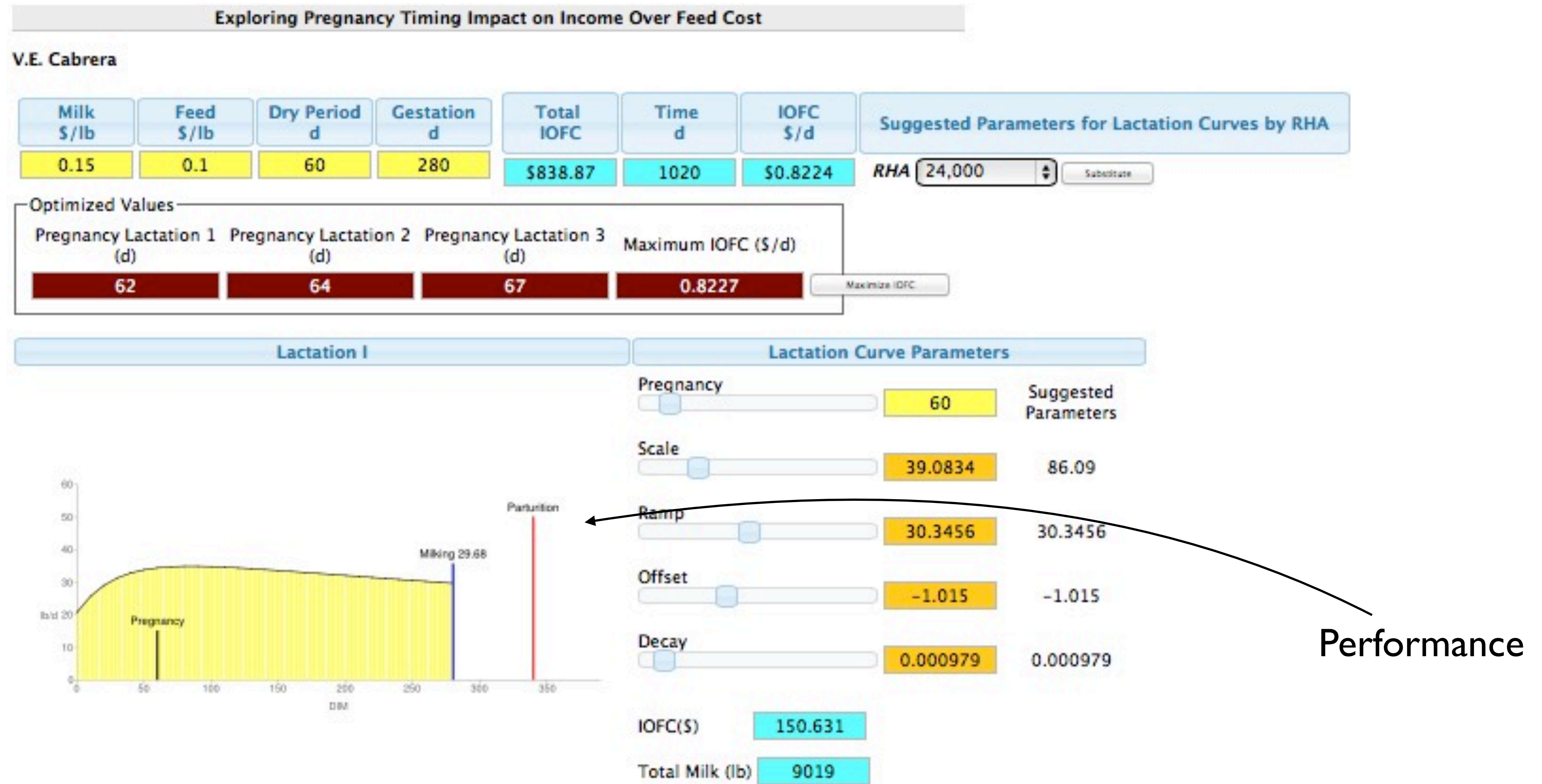


Exploring the impact of pregnancy timing on IOFC

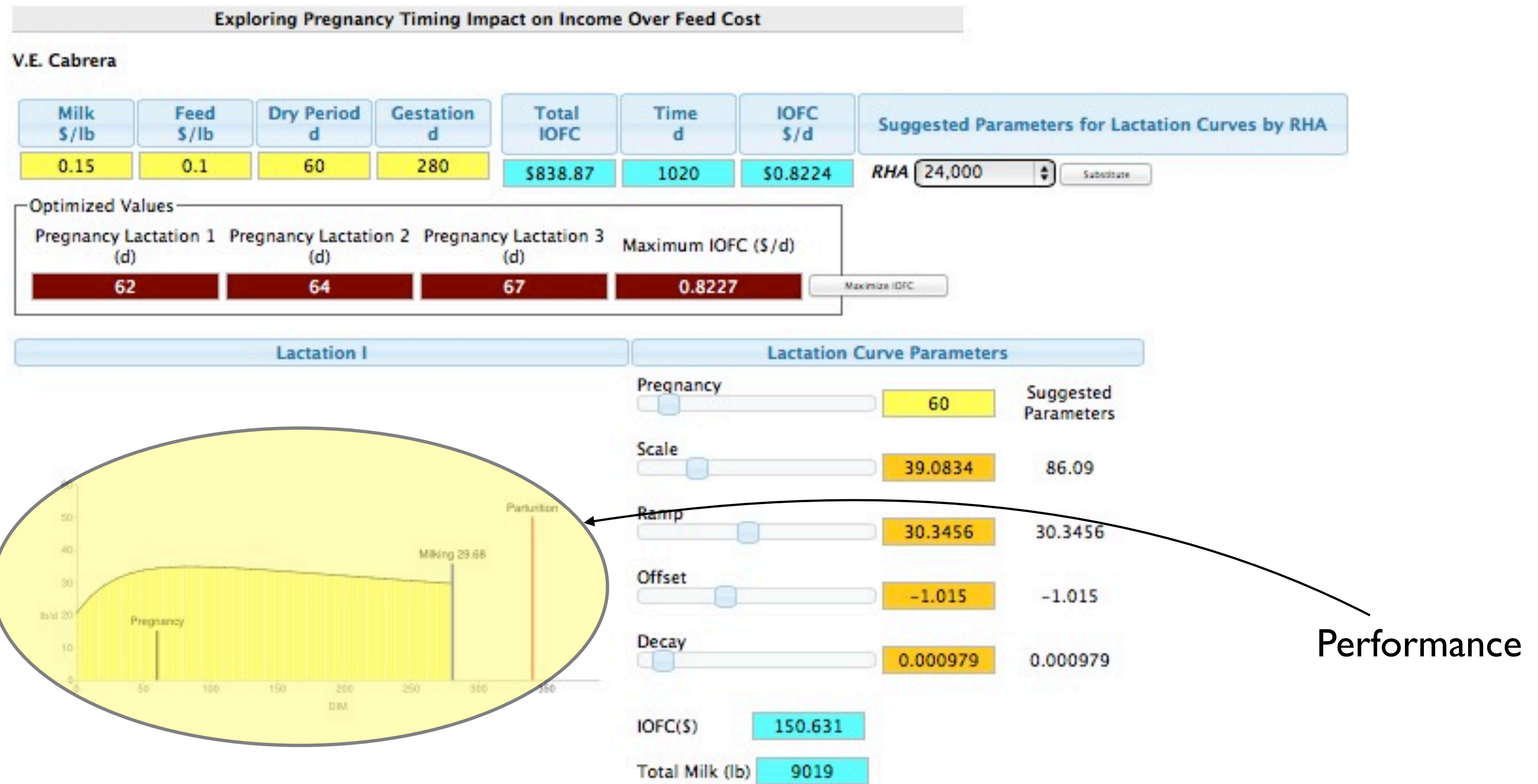


Performance

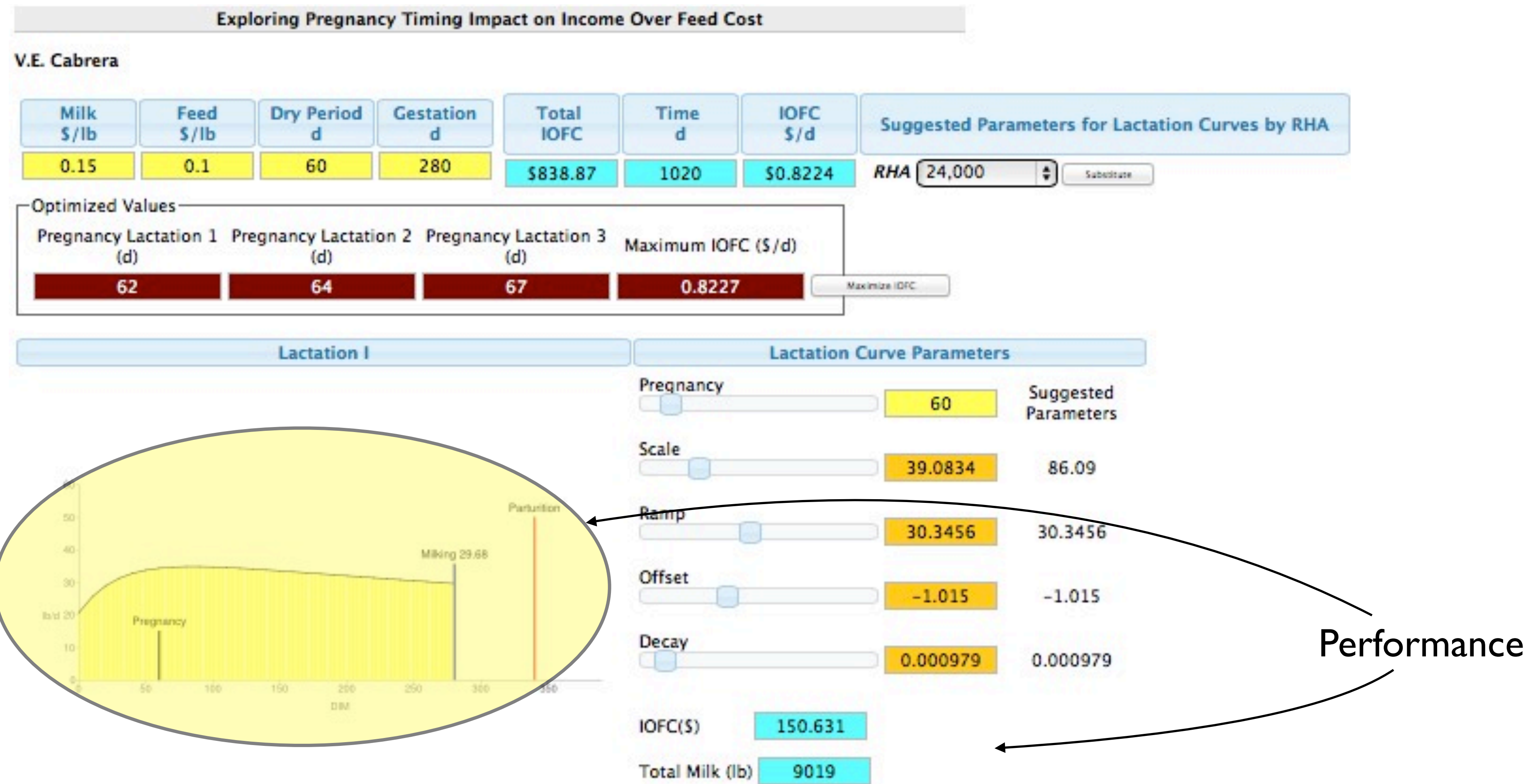
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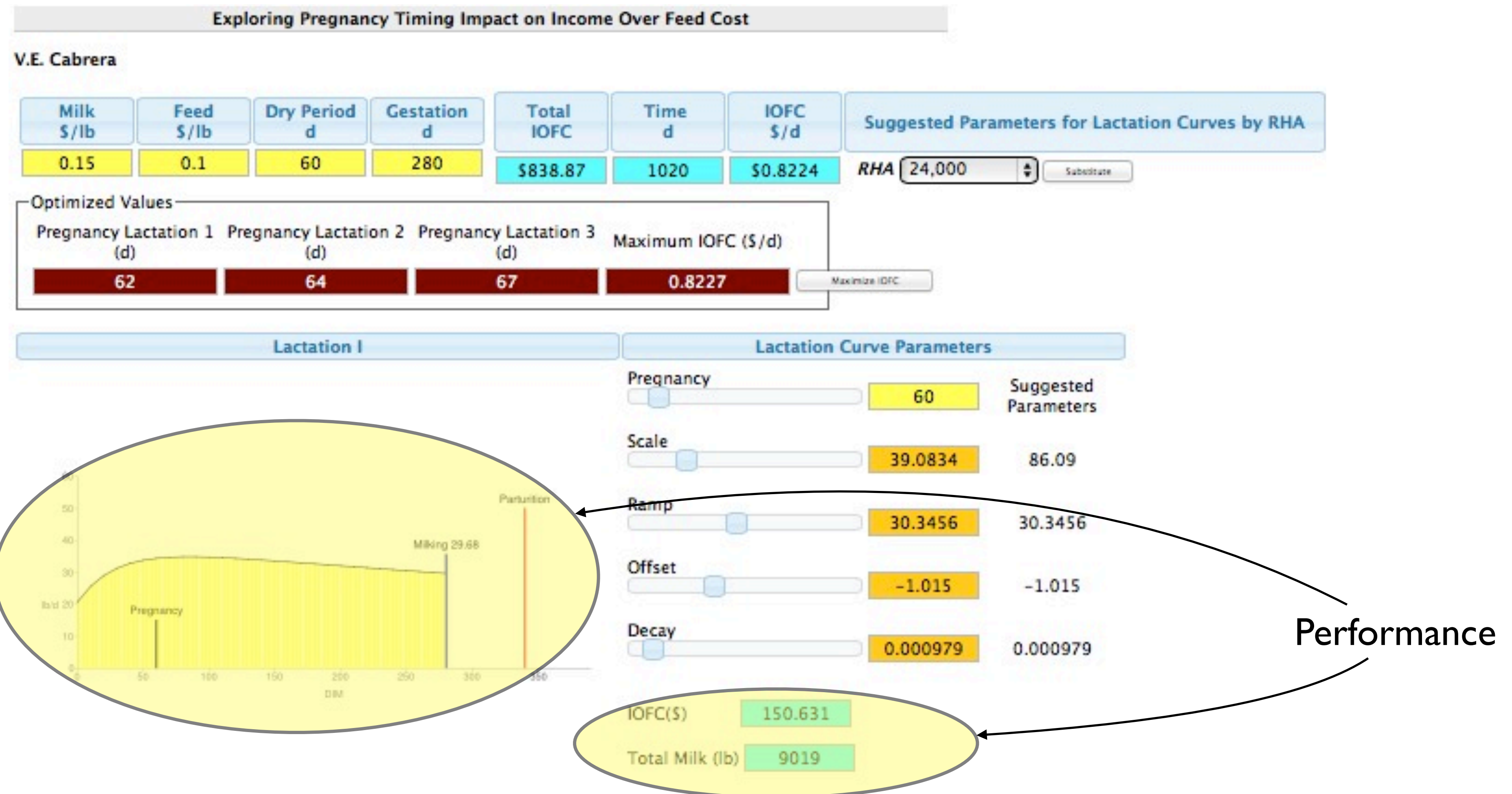
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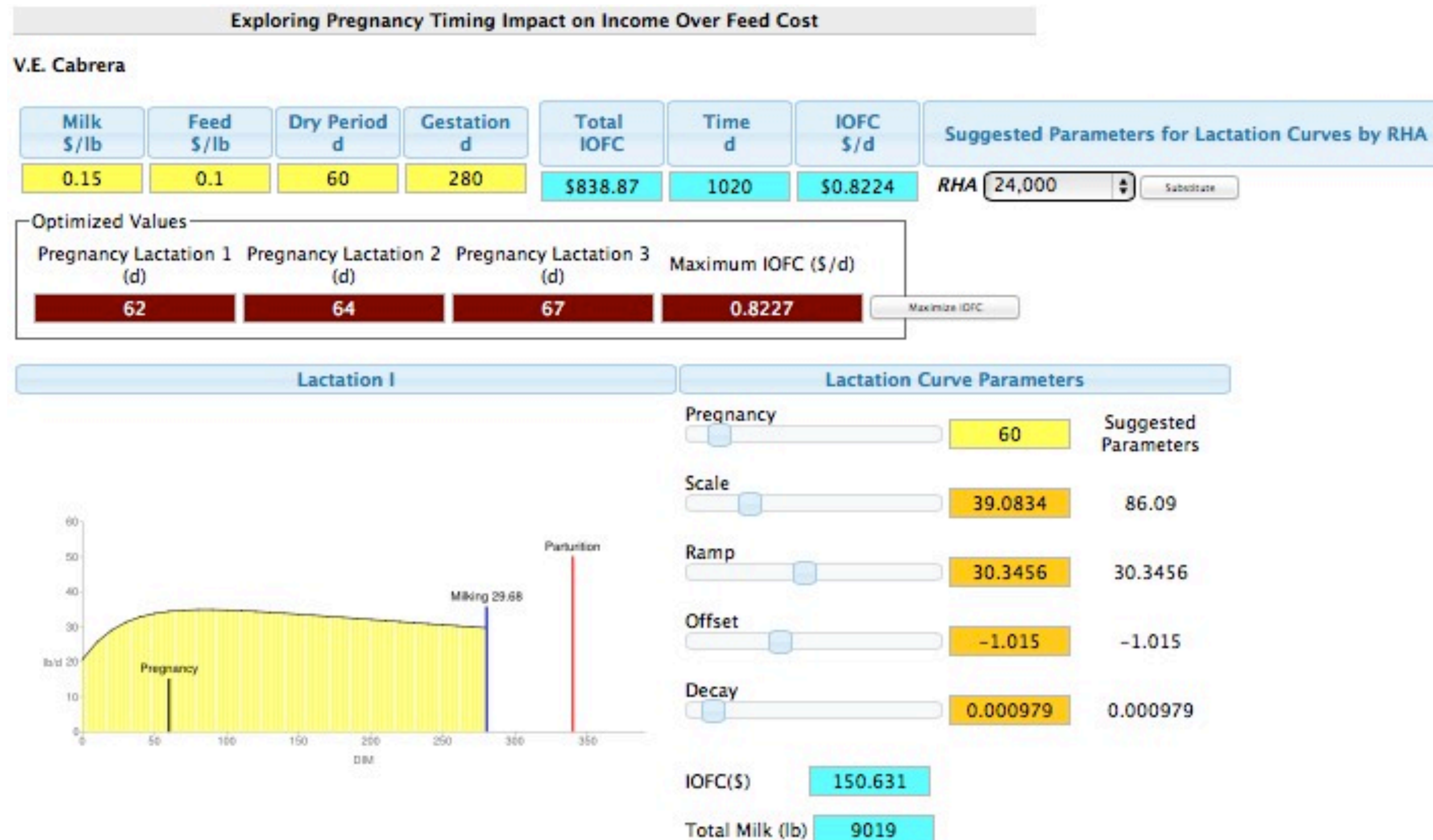
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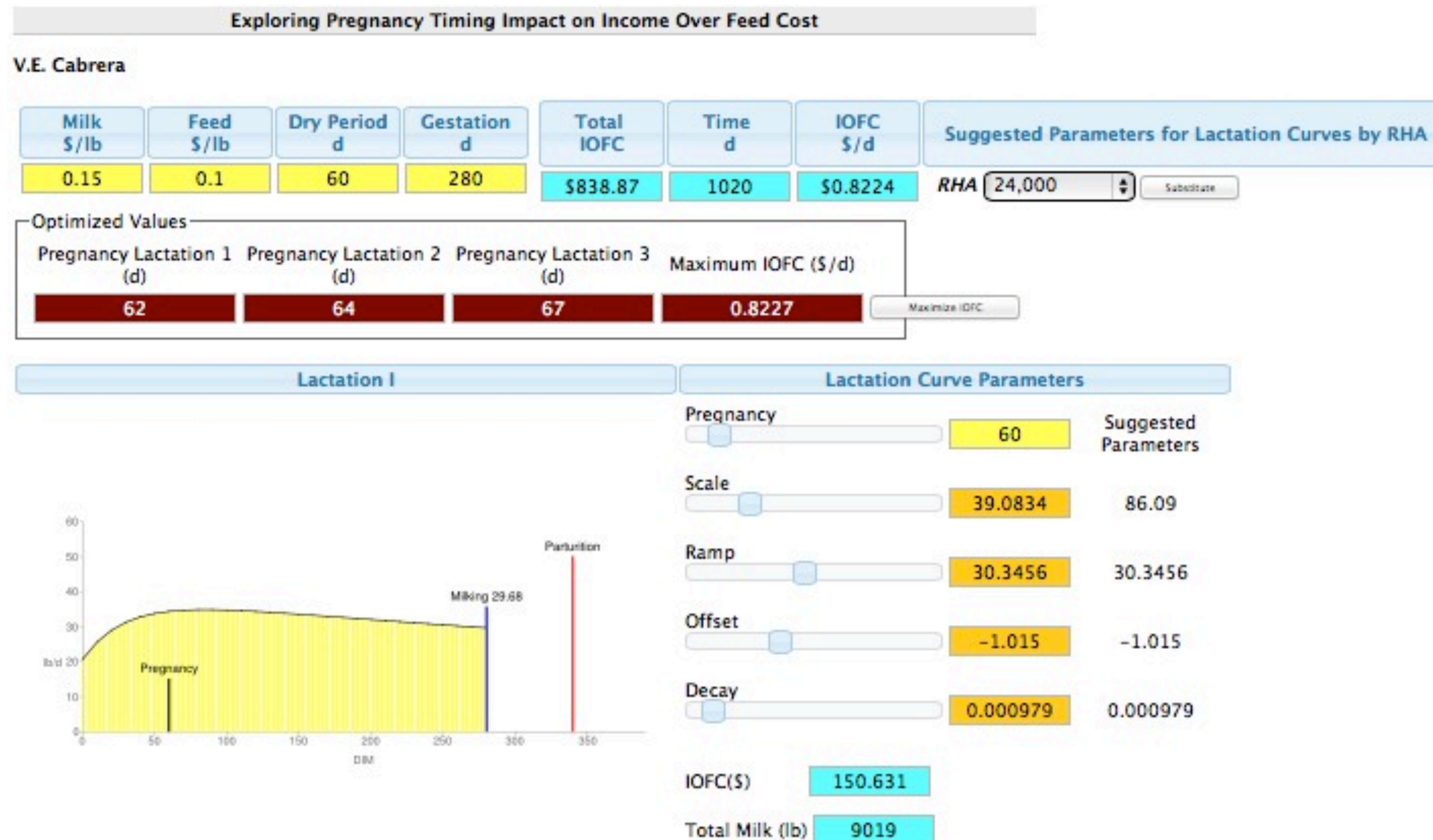


Exploring the impact of pregnancy timing on IOFC



Exploring the impact of pregnancy timing on IOFC

Optimal



Exploring the impact of pregnancy timing on IOFC

Optimal

Exploring Pregnancy Timing Impact on Income Over Feed Cost

V.E. Cabrera

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62	64	67	0.8227

Lactation I

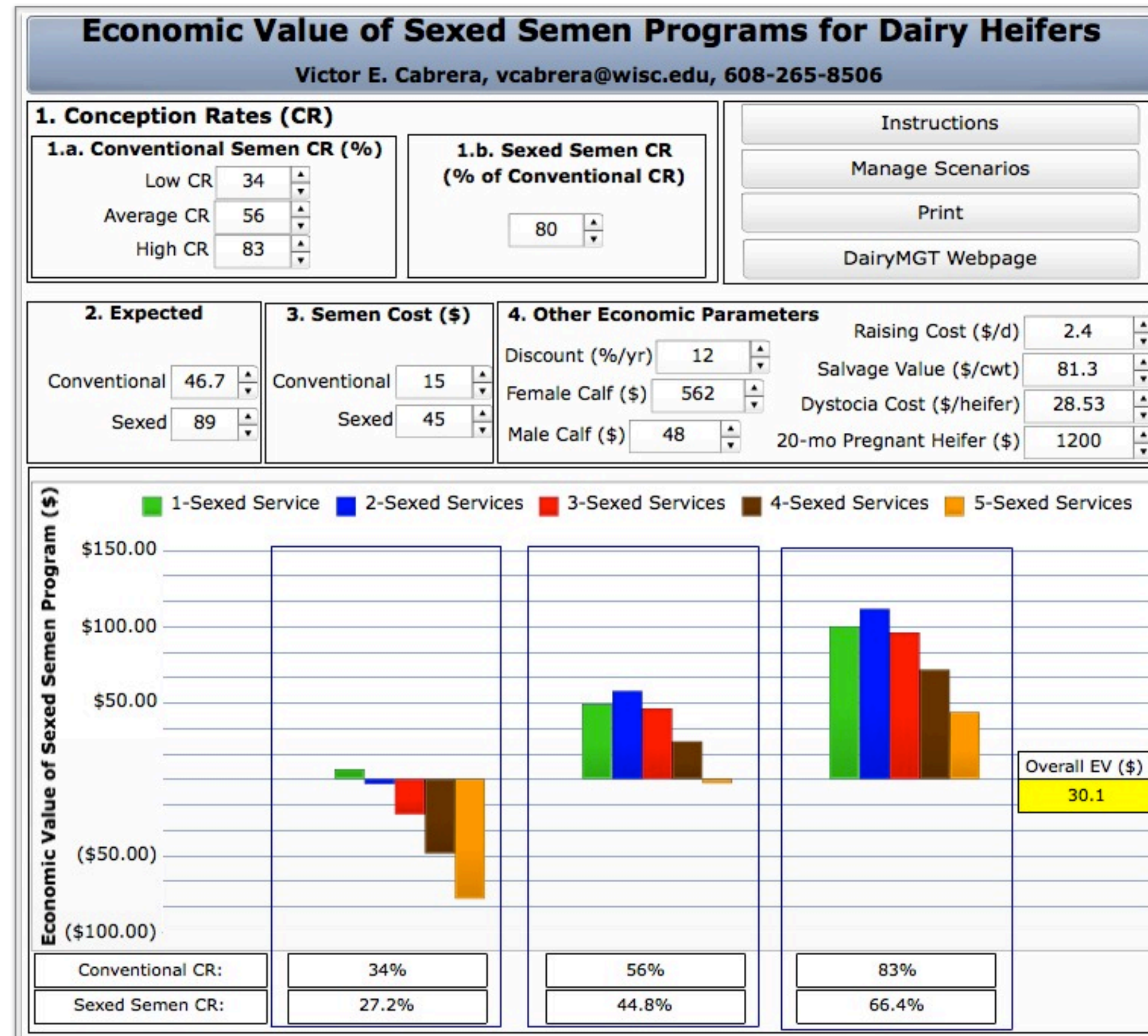
Lactation Curve Parameters

Parameter	Value	Suggested Parameters
Pregnancy	60	
Scale	39.0834	86.09
Ramp	30.3456	30.3456
Offset	-1.015	-1.015
Decay	0.000979	0.000979

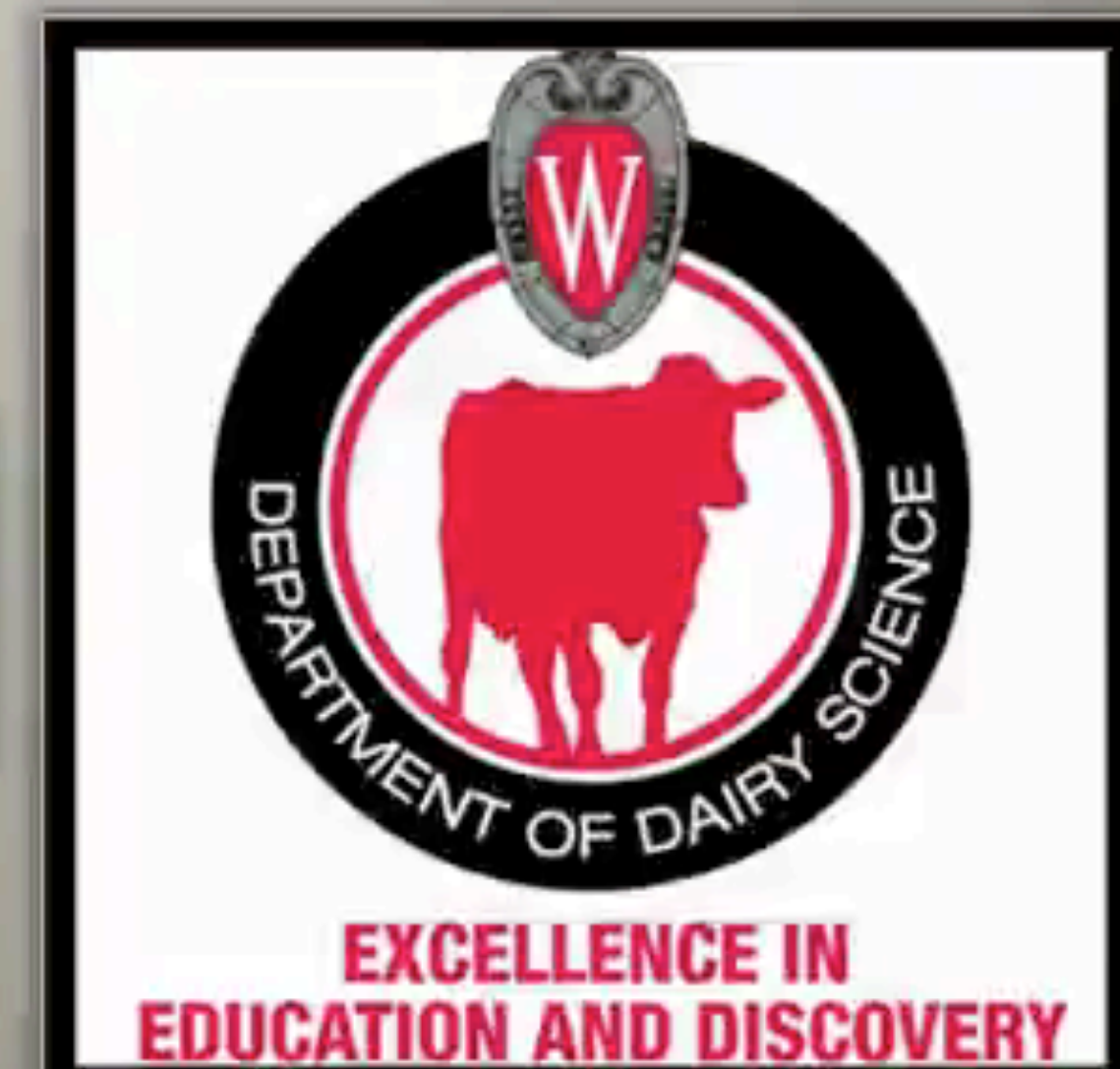
IOFC(\$) 150.631

Total Milk (lb) 9019

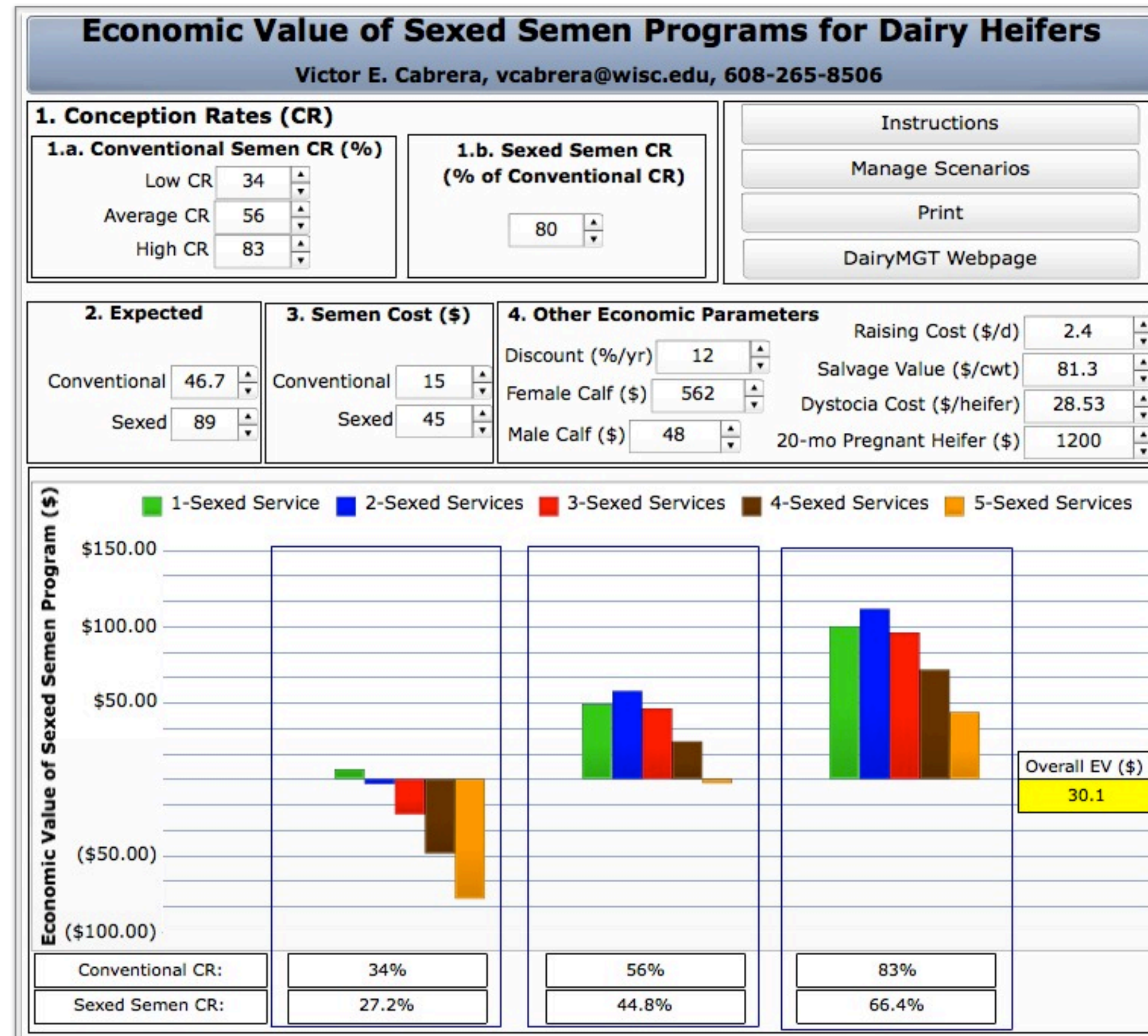
Economic value of sexed semen programs for dairy heifers



Economic Value of Sexed Semen for Dairy Heifers

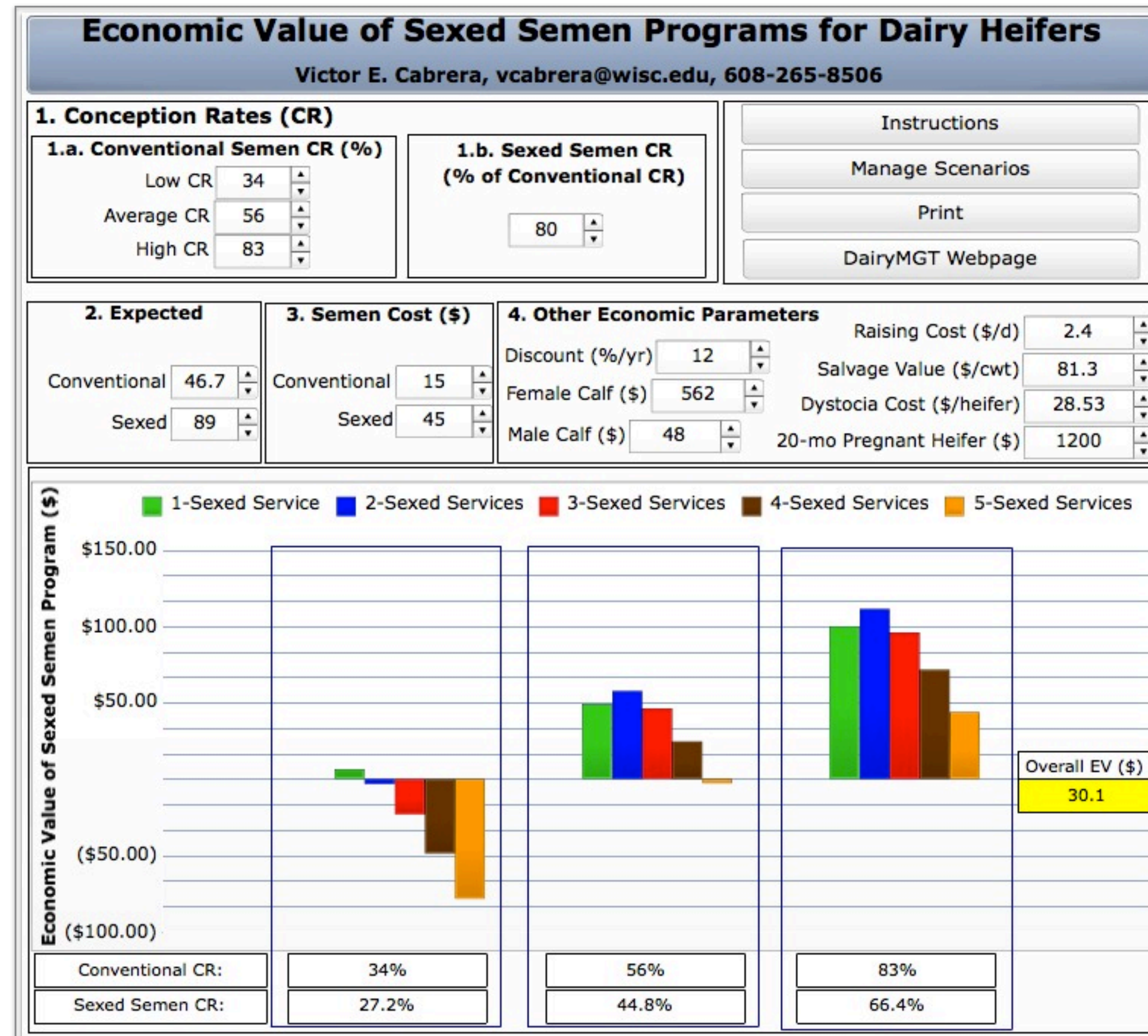


Economic value of sexed semen programs for dairy heifers



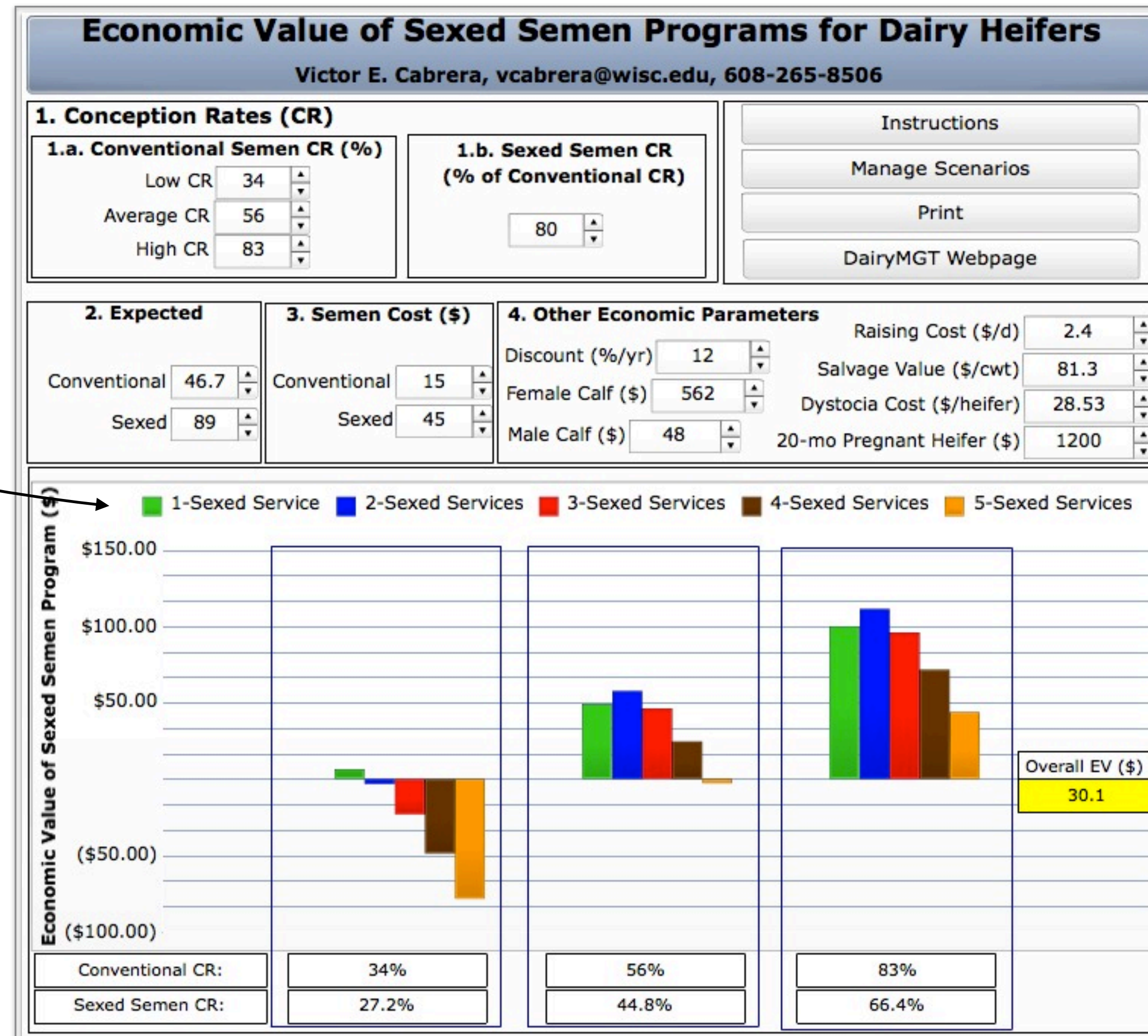
Economic value of sexed semen programs for dairy heifers

Treatments



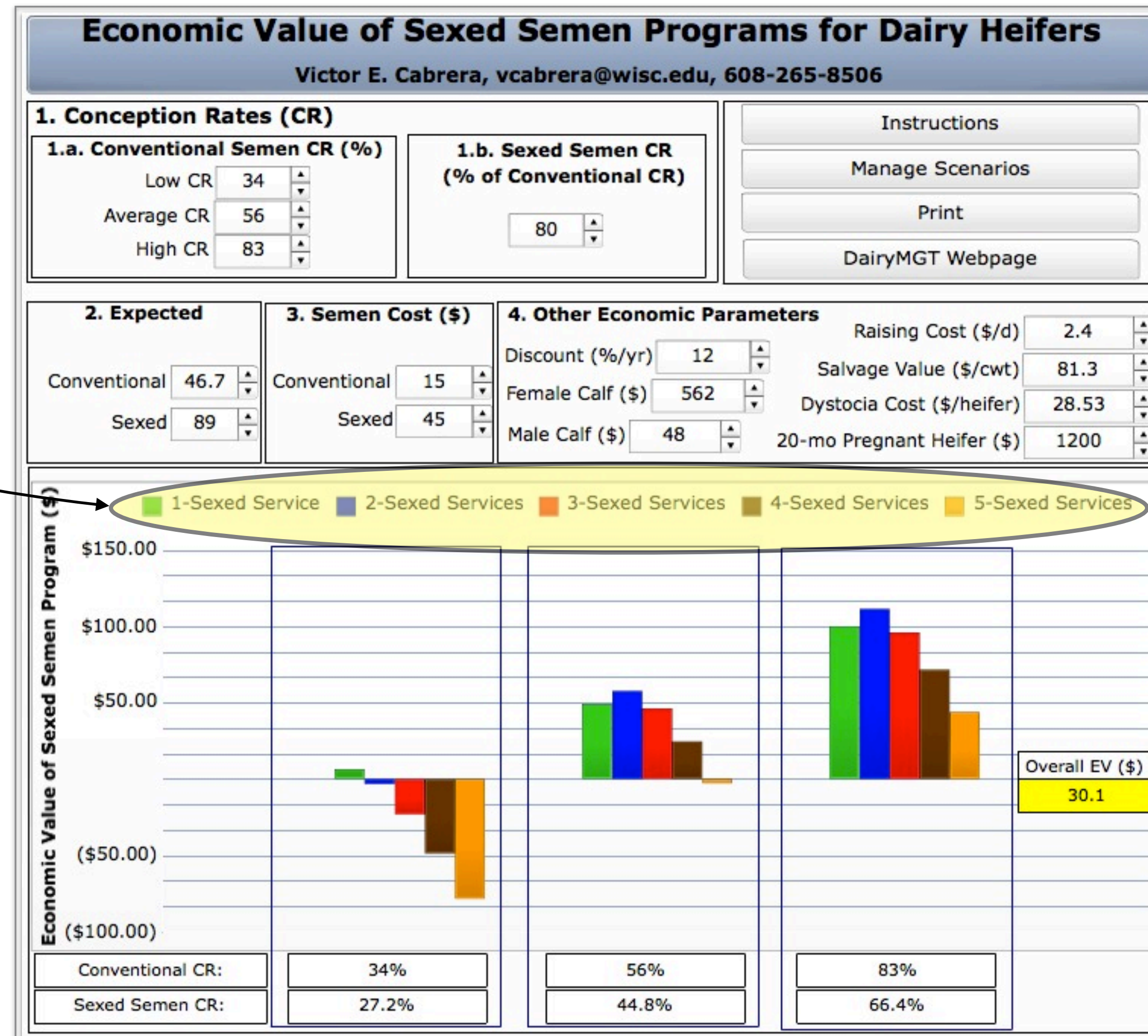
Economic value of sexed semen programs for dairy heifers

Treatments

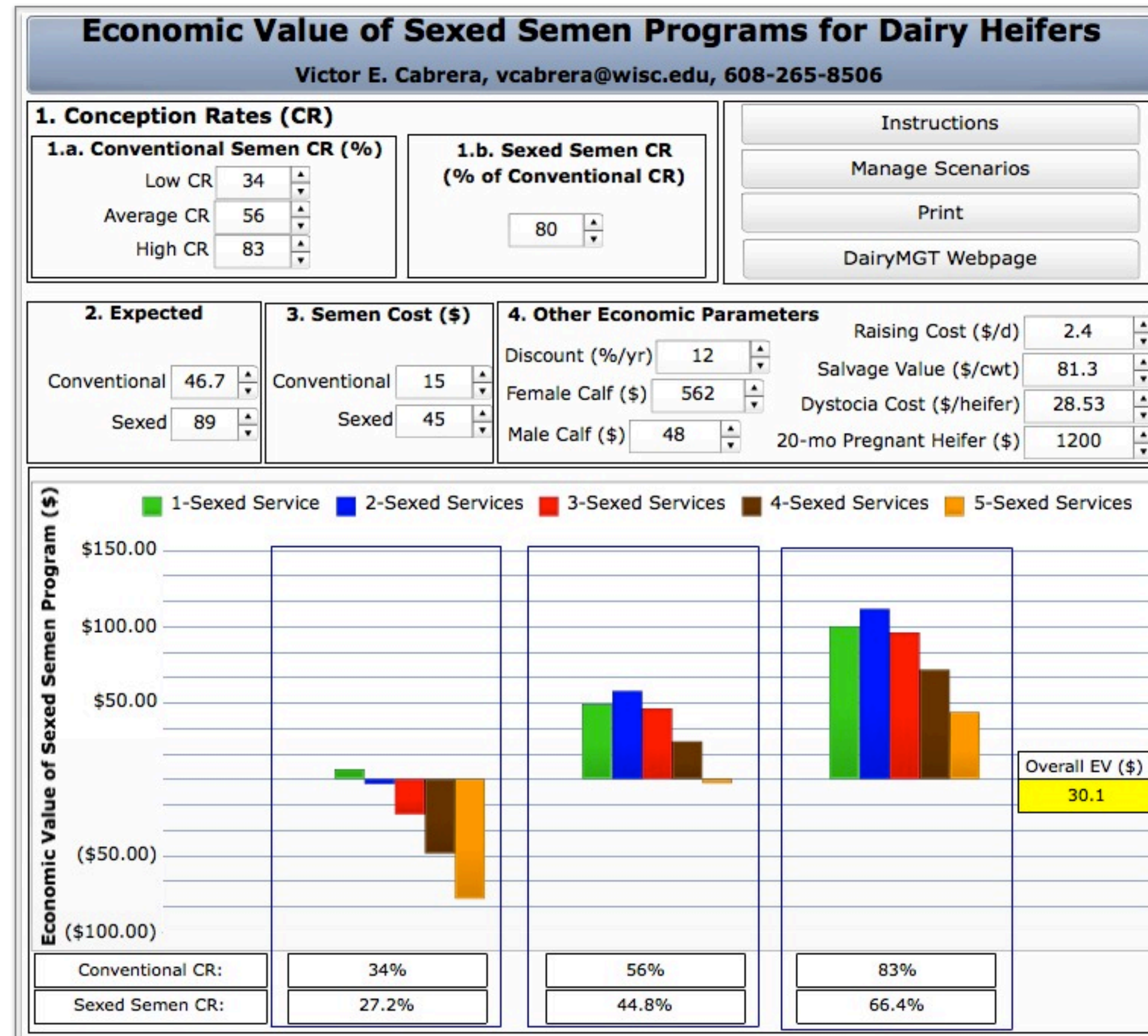


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Treatments

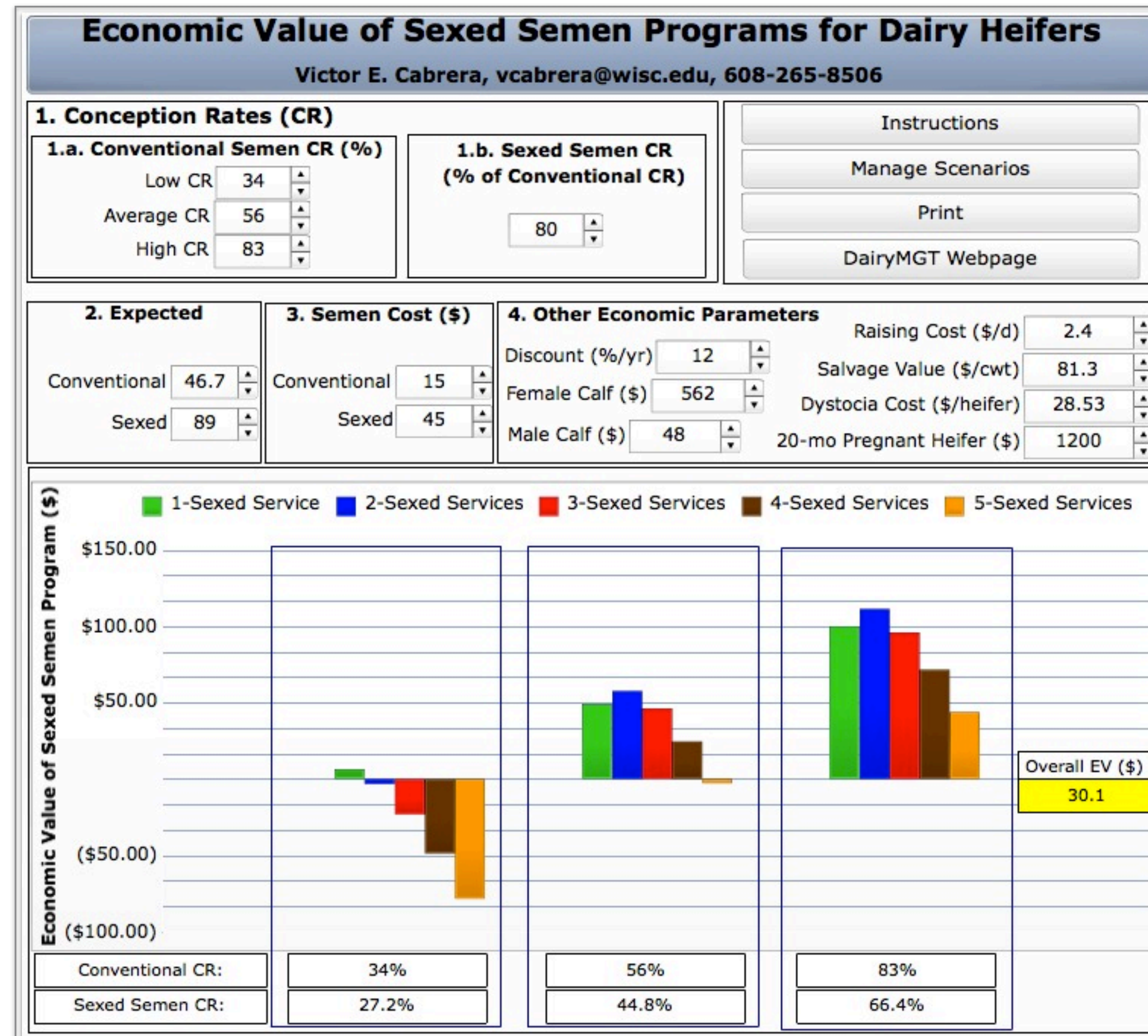


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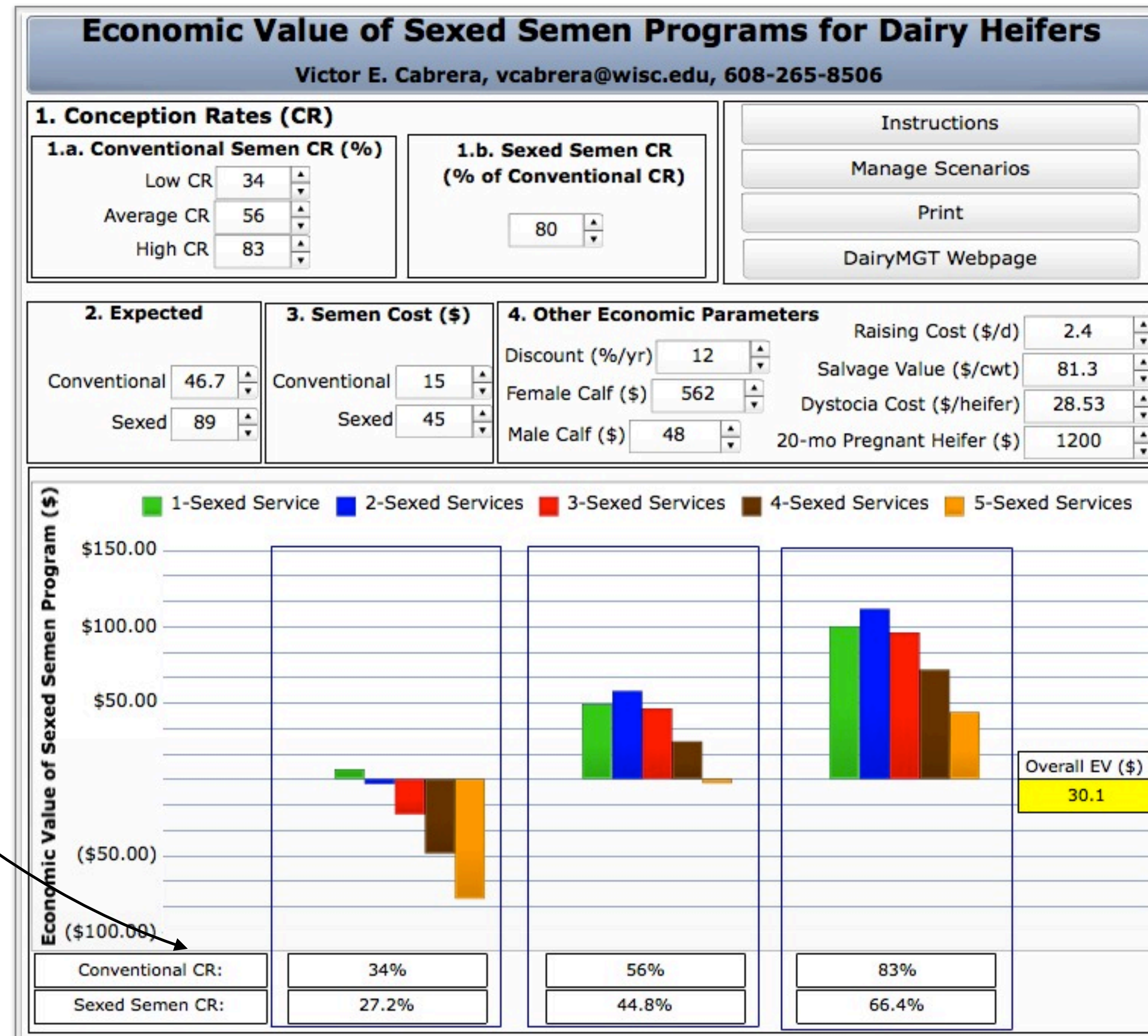


Economic value of sexed semen programs for dairy heifers

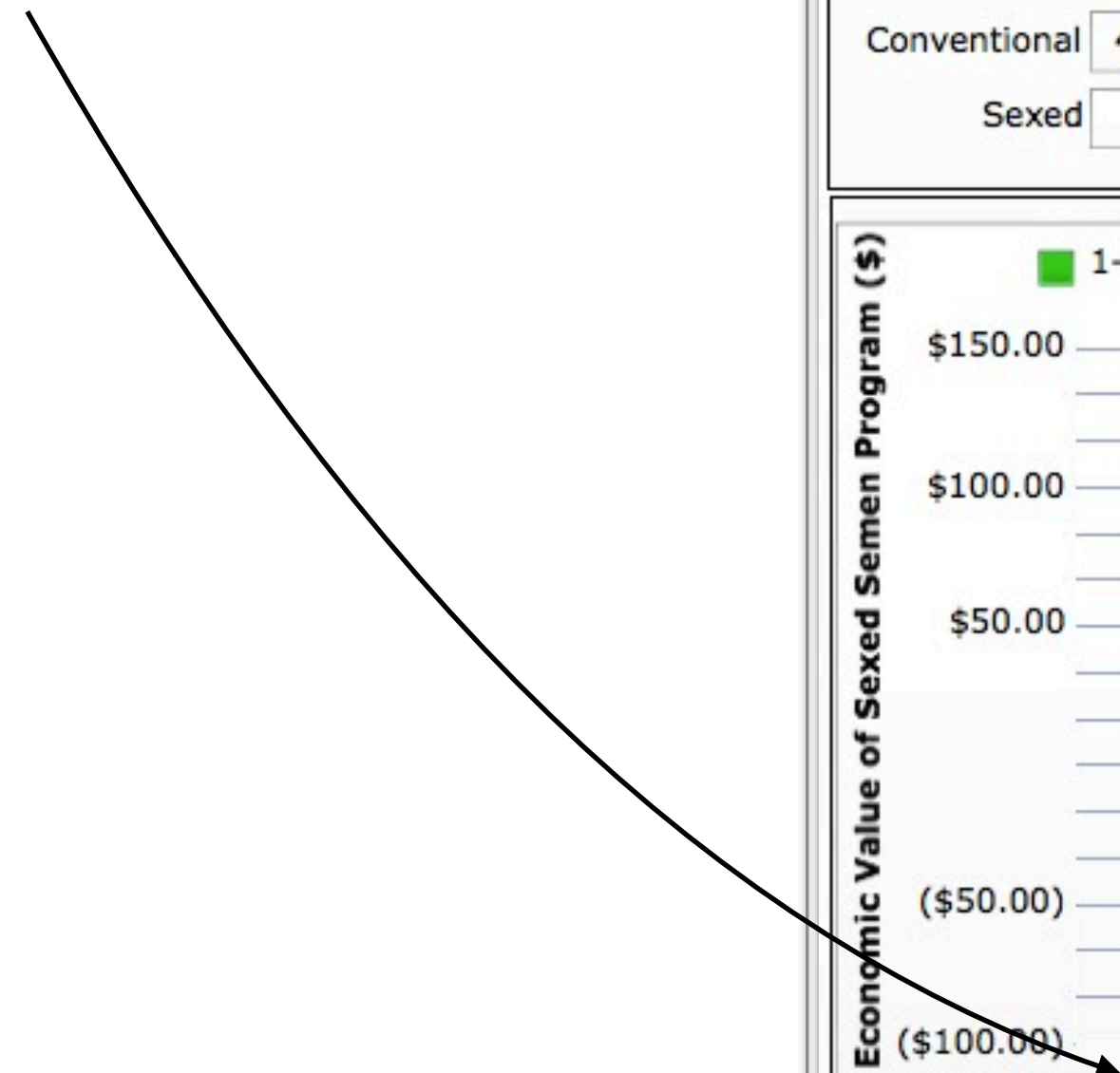
CR conventional



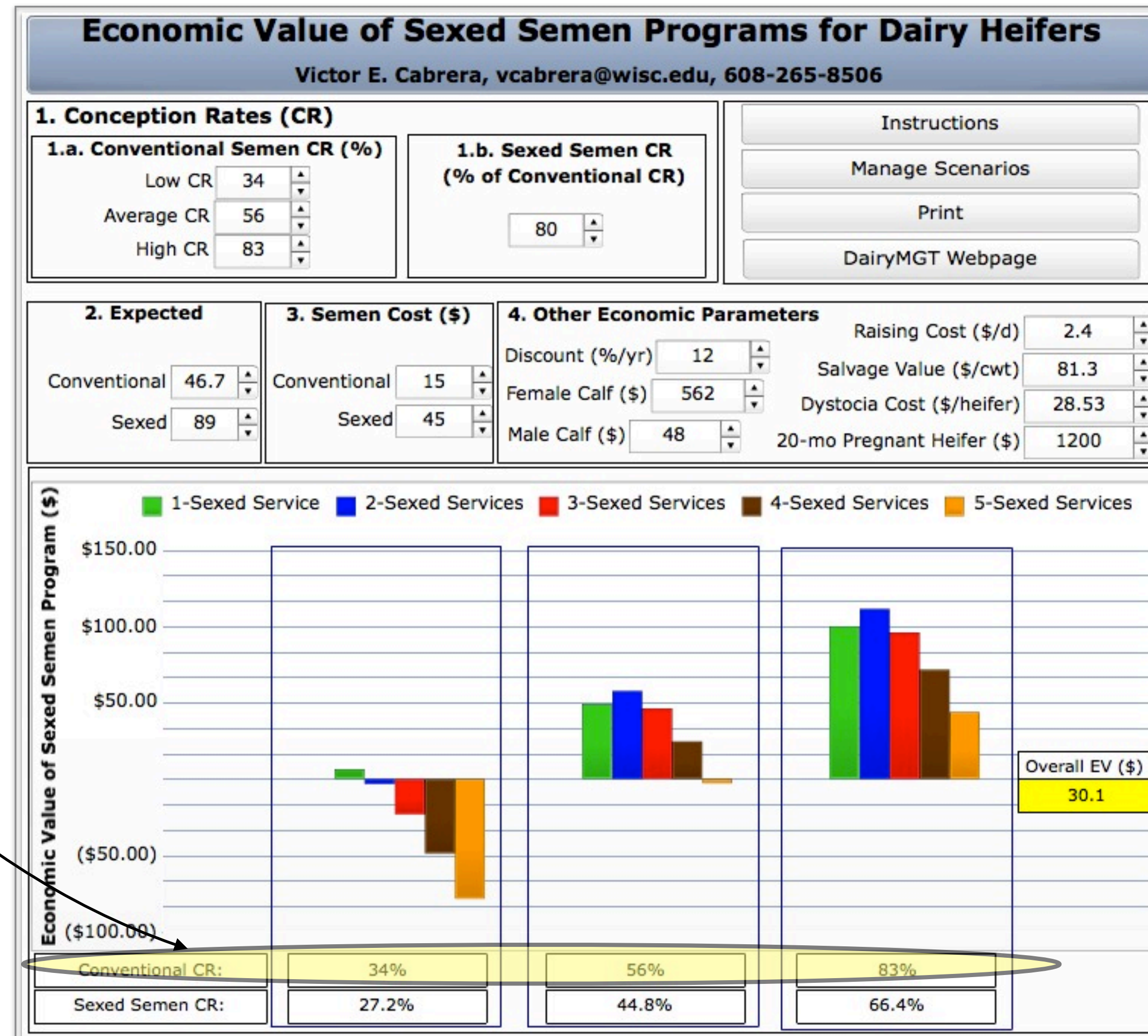
Economic value of sexed semen programs for dairy heifers



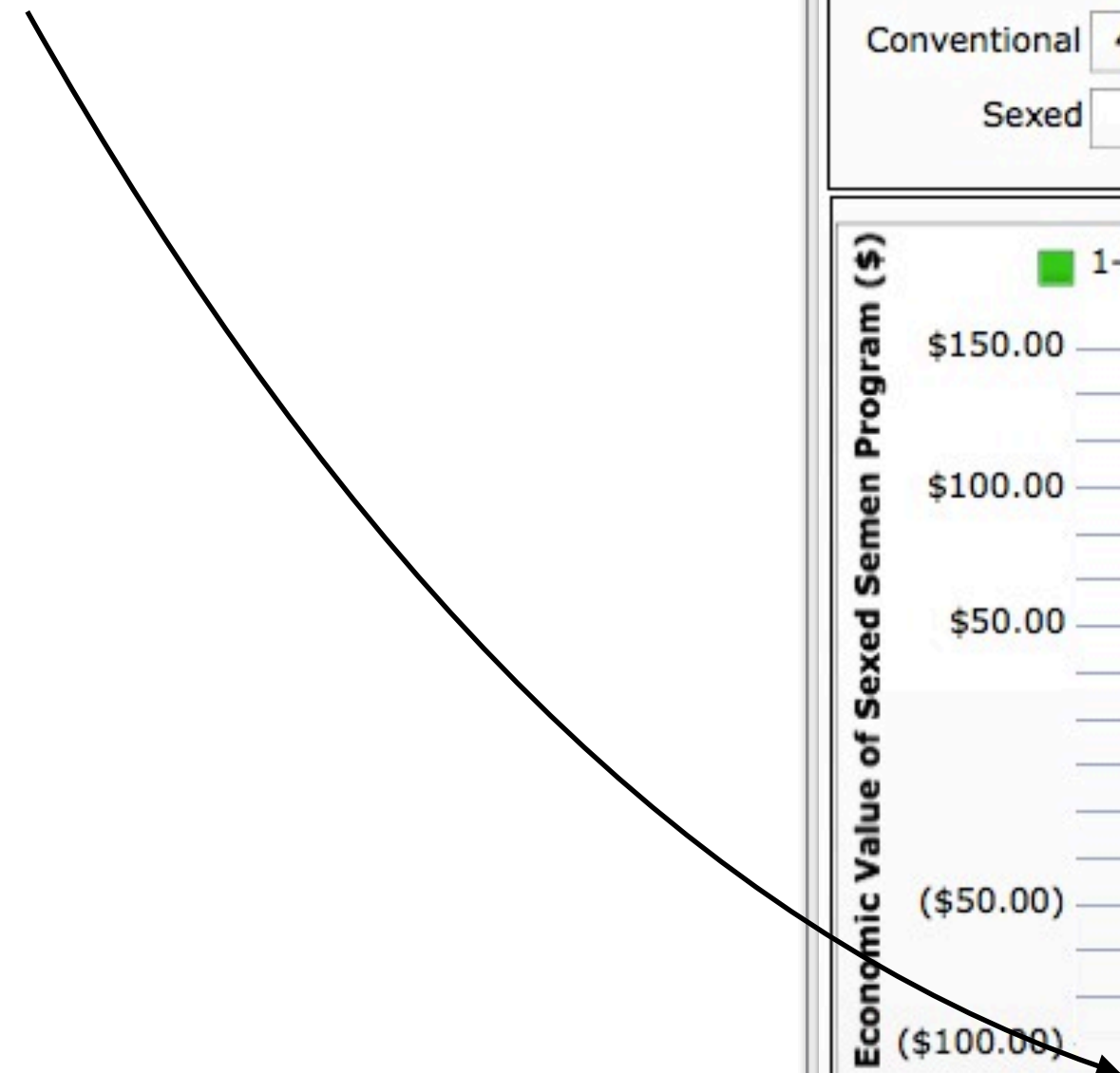
CR conventional



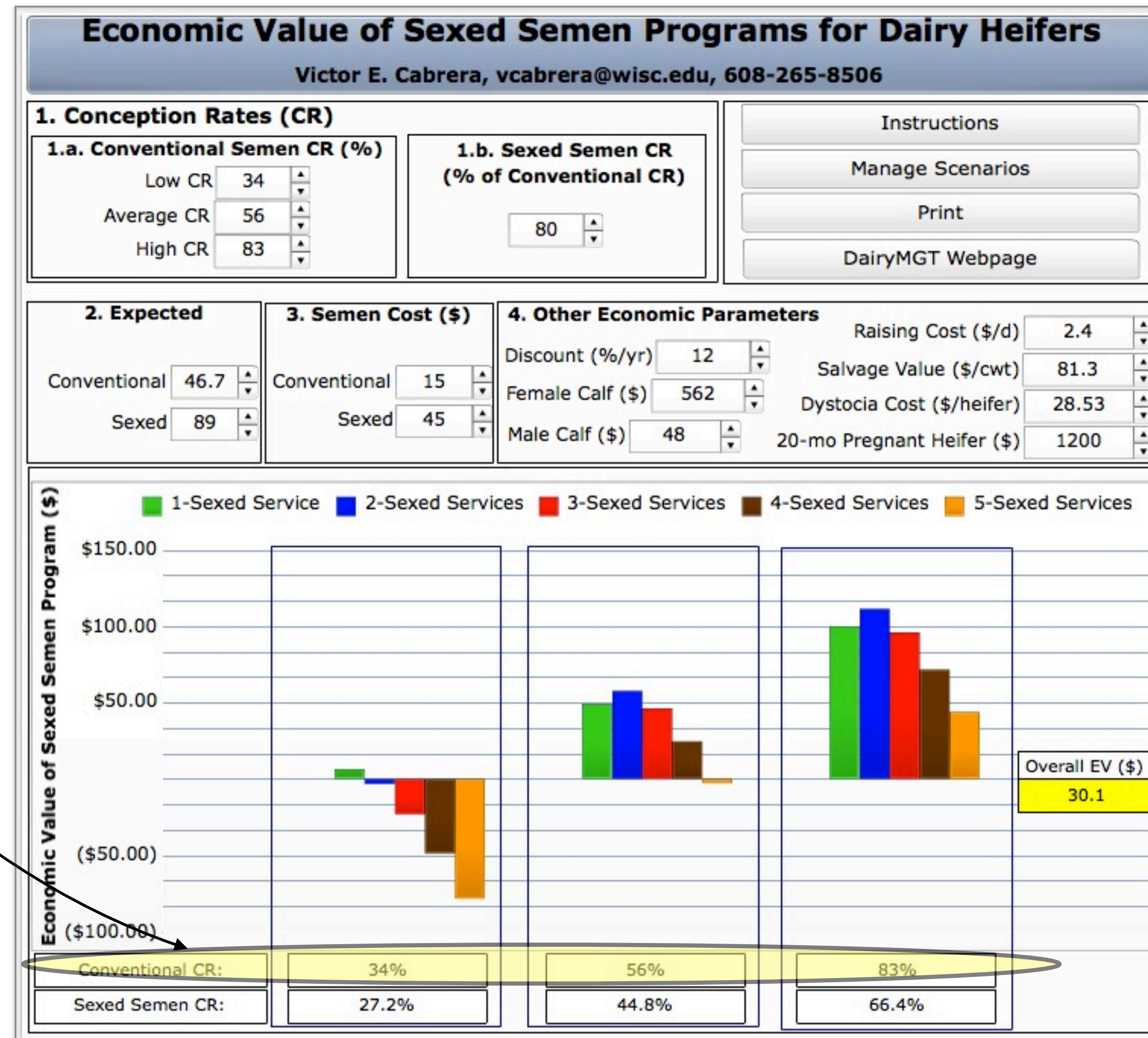
Economic value of sexed semen programs for dairy heifers



CR conventional



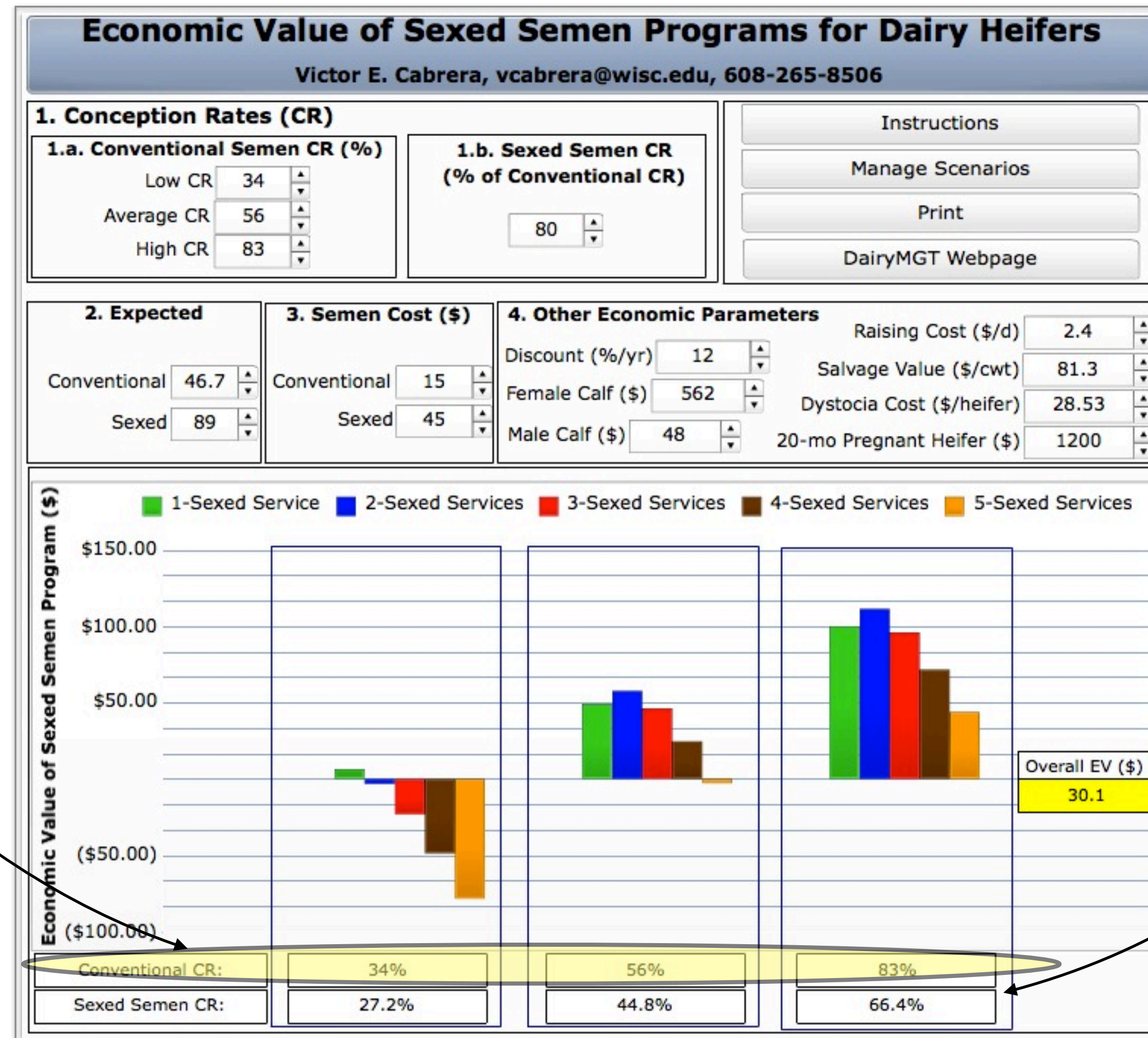
Economic value of sexed semen programs for dairy heifers



CR conventional

CR sexed

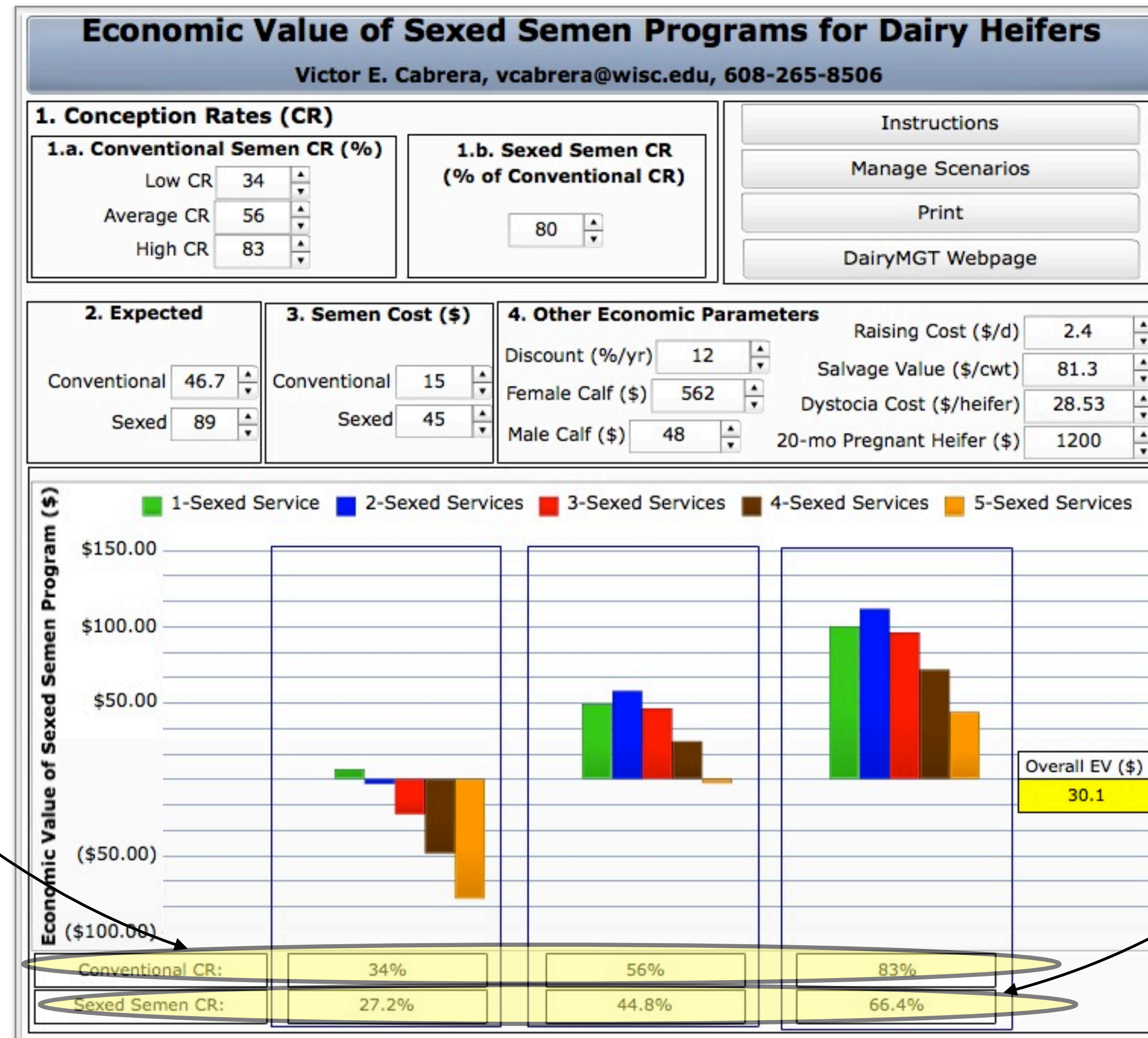
Economic value of sexed semen programs for dairy heifers



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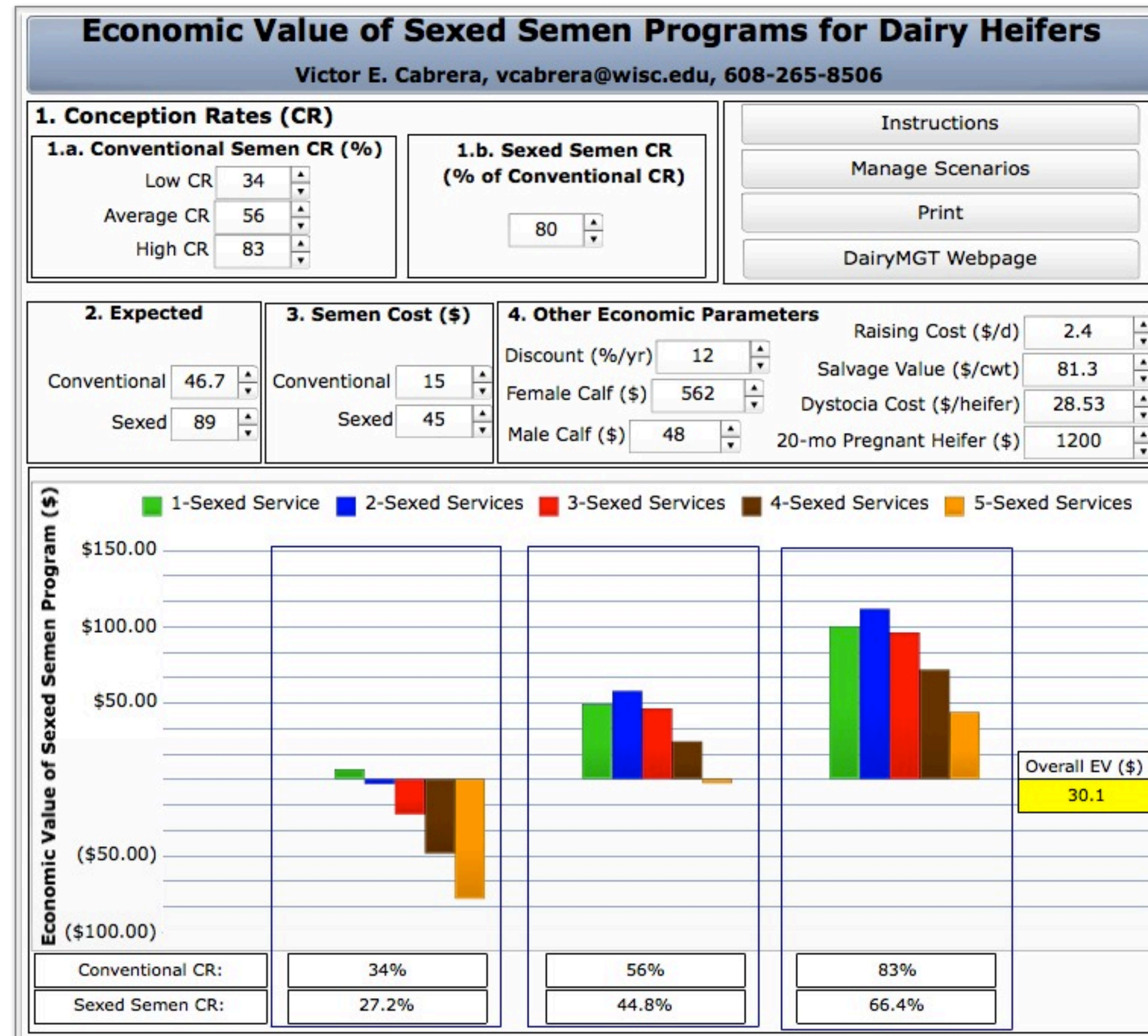
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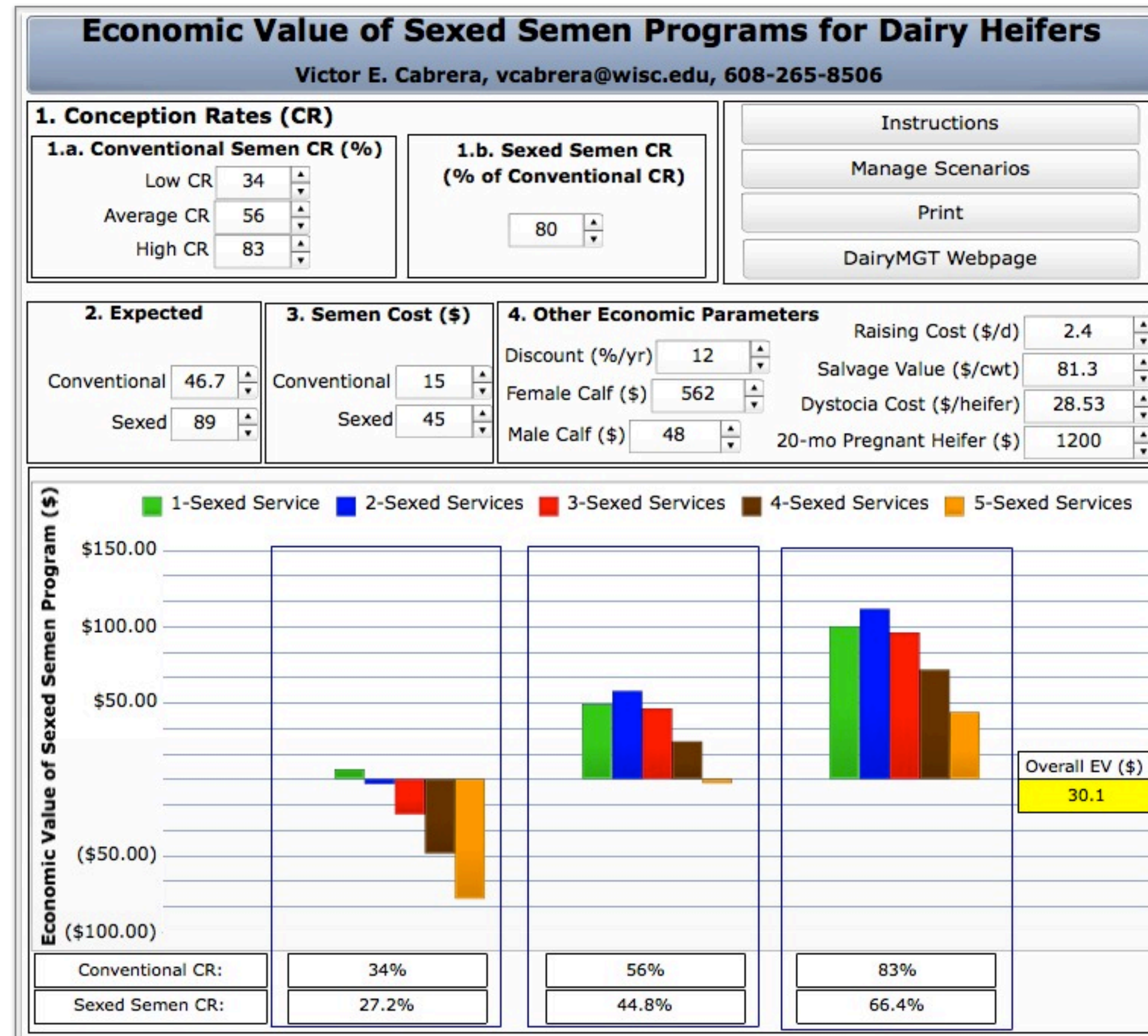
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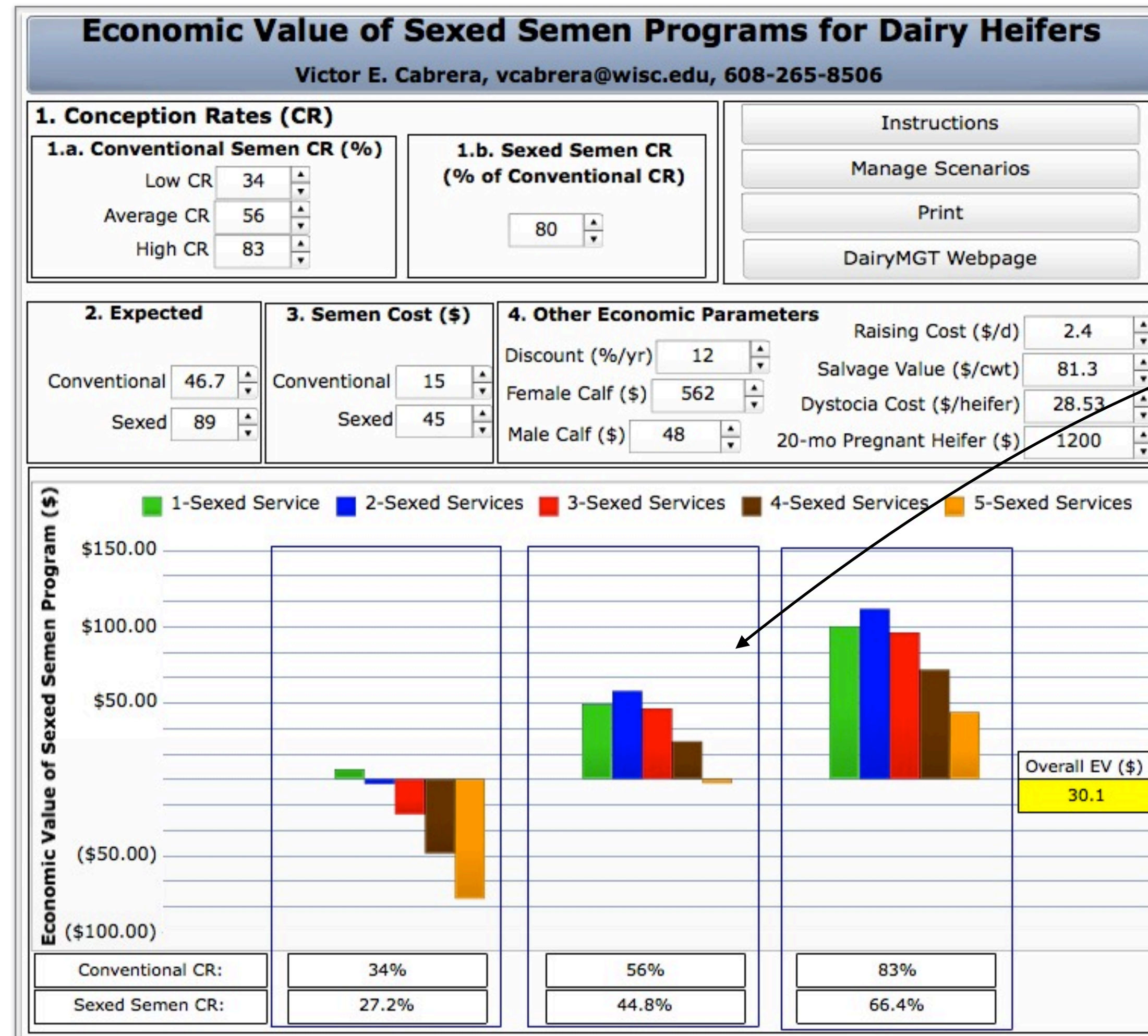


Economic value of sexed semen programs for dairy heifers



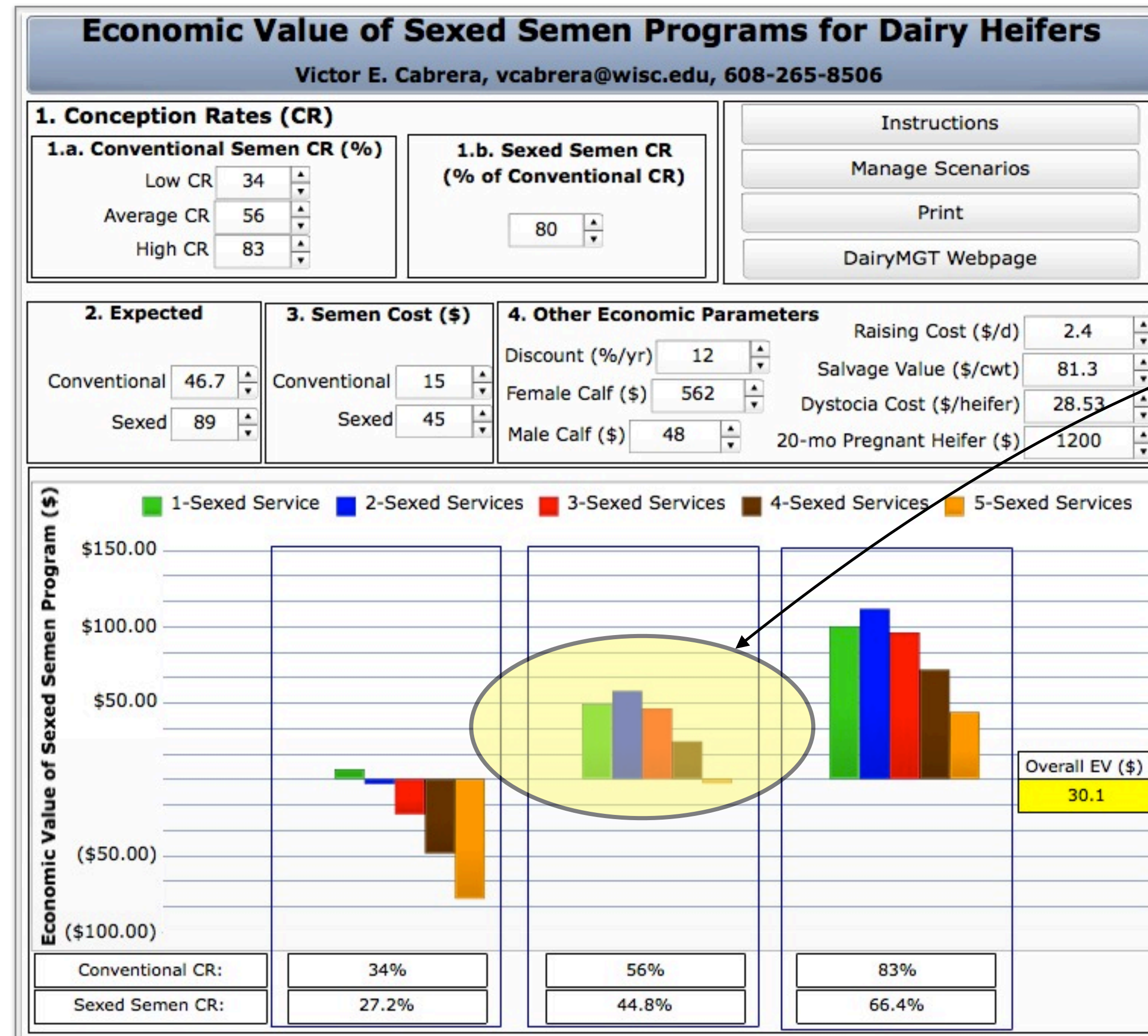
\$ Difference
 Conventional - Sexed

Economic value of sexed semen programs for dairy heifers



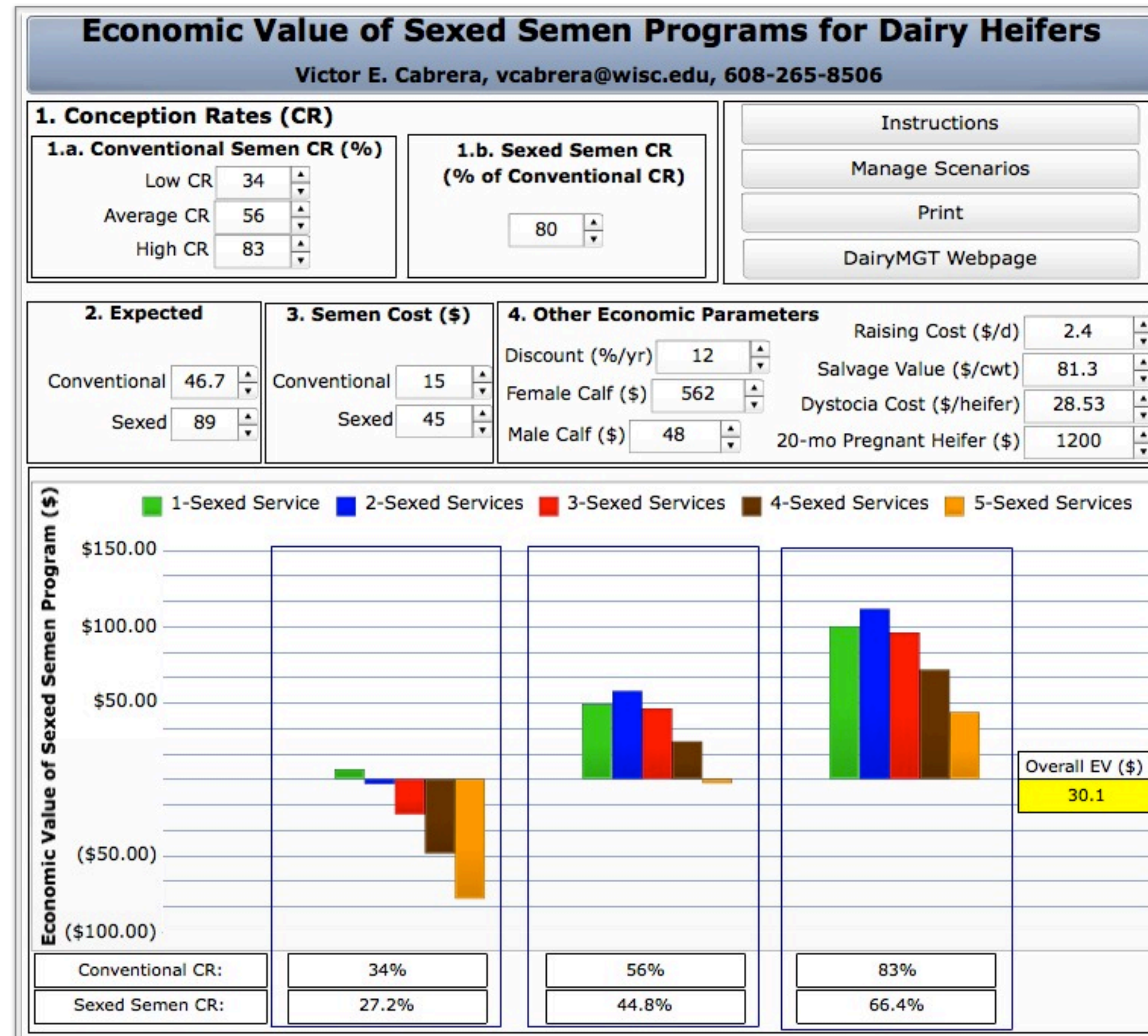
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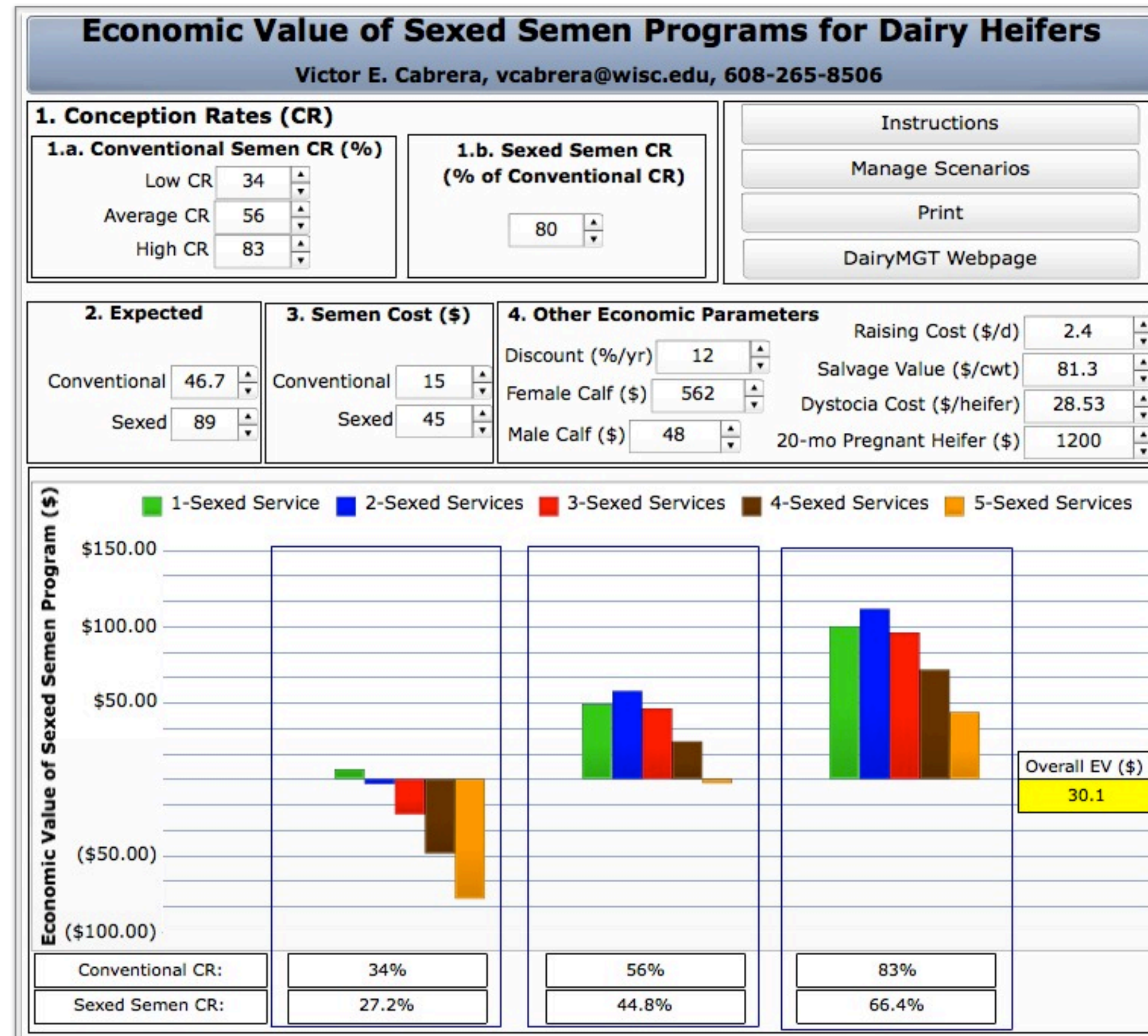


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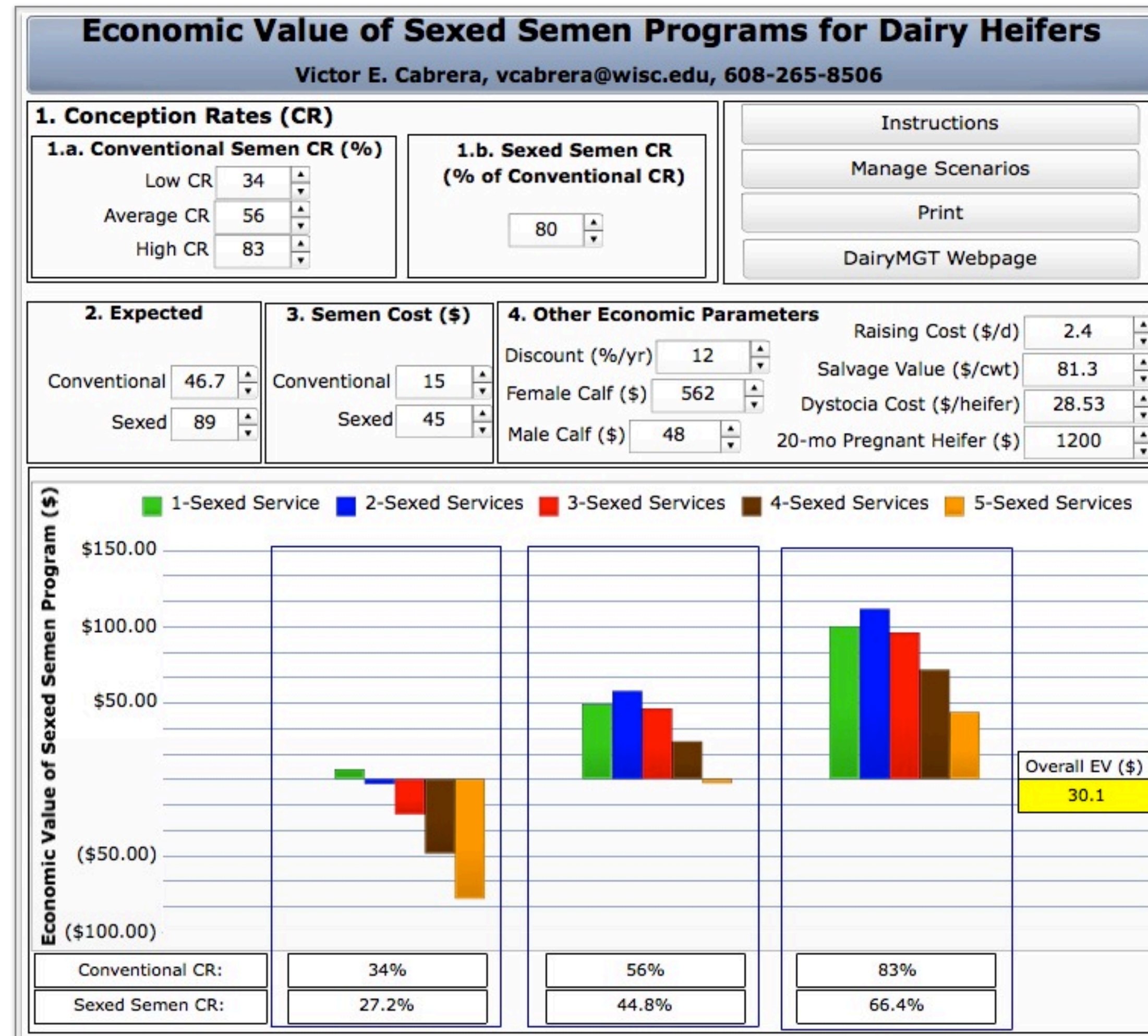


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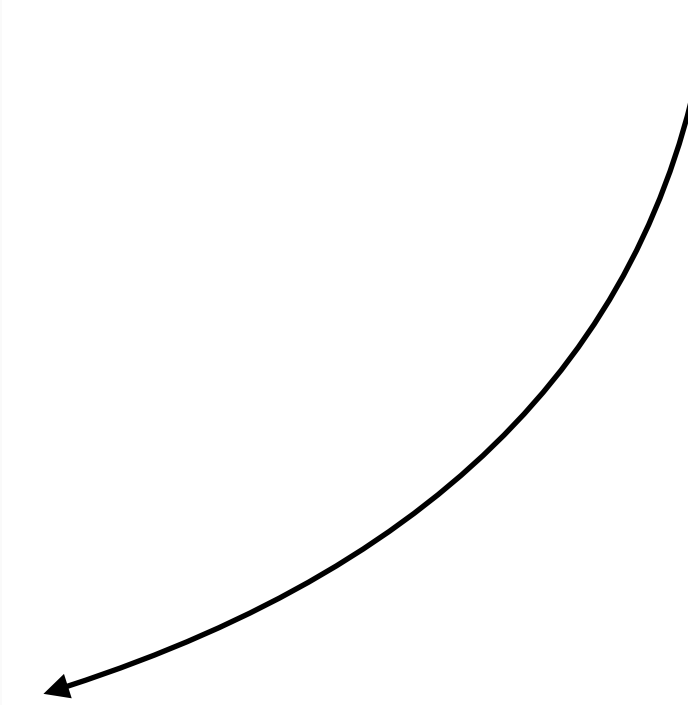


Average of all treatments or scenarios

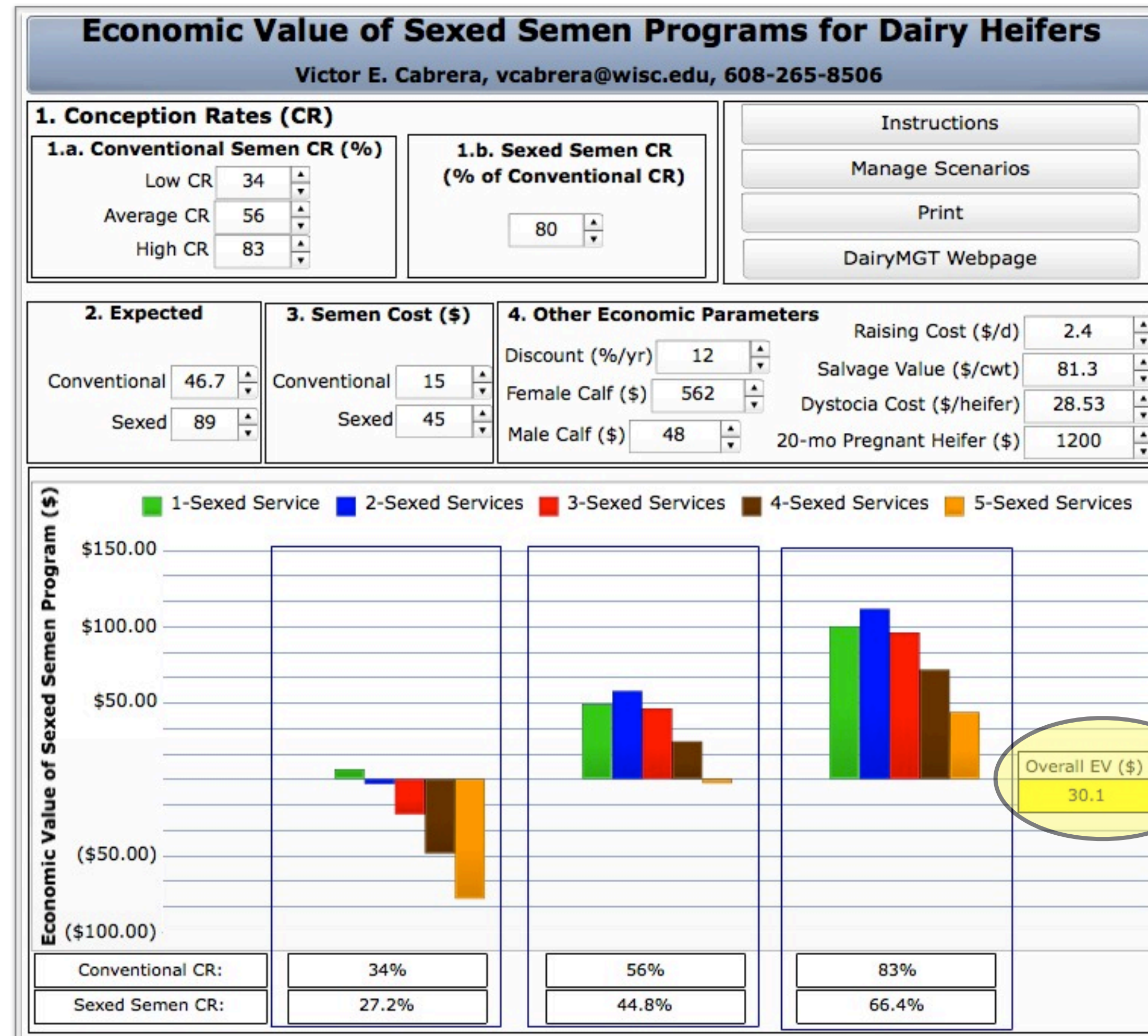
Economic value of sexed semen programs for dairy heifers



Average of all treatments or scenarios



Economic value of sexed semen programs for dairy heifers



Average of all treatments or scenarios

Dairy reproductive analysis

Dairy Reproductive Economic Analysis

V.E. Cabrera



United States Department of Agriculture National Institute of Food and Agriculture



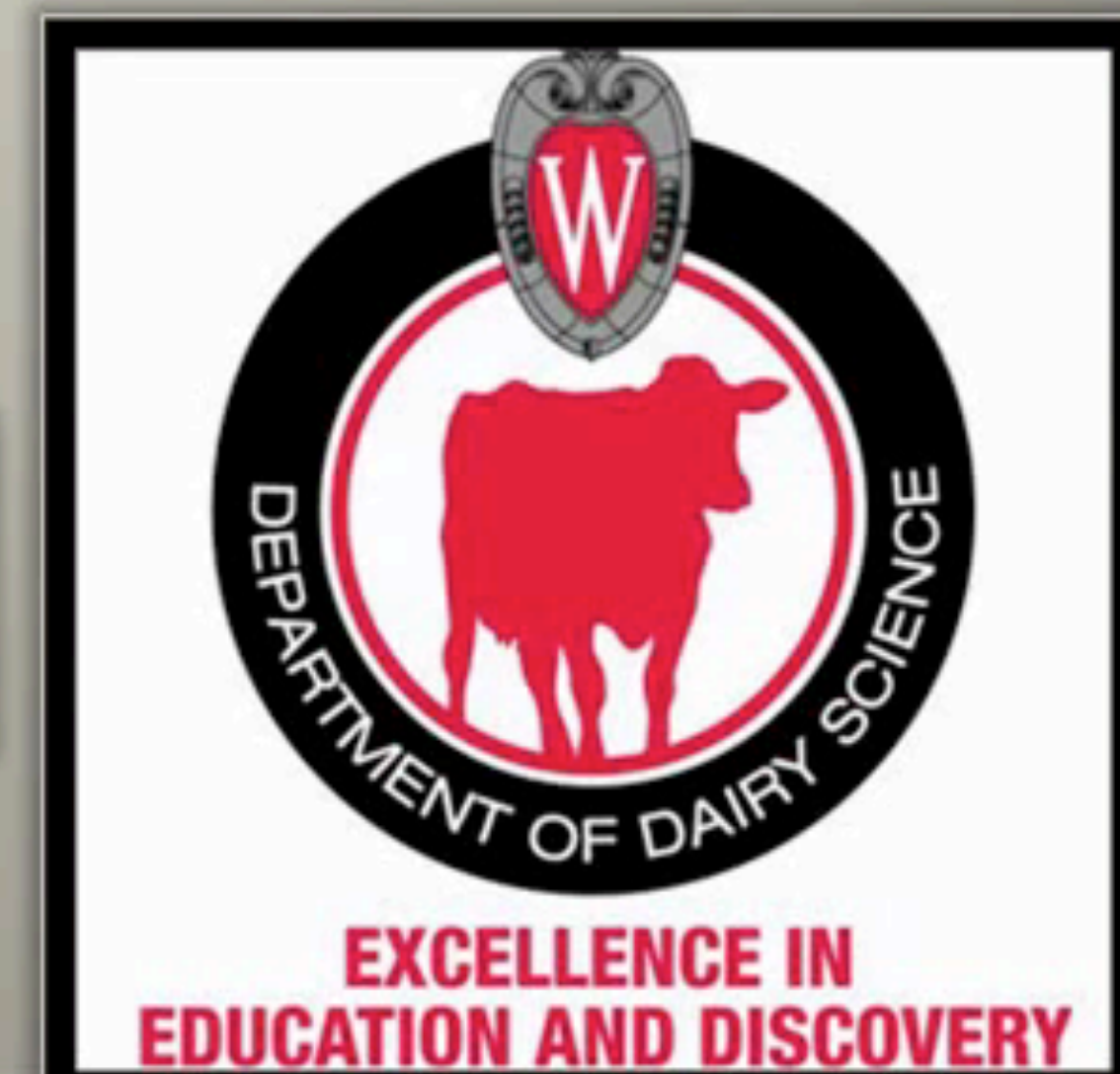
Overview Upload Repro Abort Cull Milk Economics Run Model Results Analyze

Total Number of Cows	100
Iterations Performed	737
Reached Steady State	YES

	Total Revenues & Costs				
	IOFC	Cull	Repro	Calves	Net Return
\$/herd/month	15128.81	-1353.02	-932.8	1048.08	13891.07
\$/herd/day	504.29	-45.1	-31.09	34.94	463.04
\$/cow/year	1840.67	-164.62	-113.49	127.52	1690.08

Month in Milk	Month in Pregnancy										Revenues & Costs (\$)				
	0	1	2	3	4	5	6	7	8	9	Cull Cows	IOFC	Cull	Repro	Calves
	Lactation 1														
1	3.54										0.14	422.47	-69.93	0.00	0.00
2	3.39										0.09	489.30	-45.44	84.80	0.00
3	2.70	0.59									0.06	466.27	-27.96	67.62	0.00
4	2.17	0.48	0.59								0.05	438.04	-24.08	54.34	0.00
5	1.77	0.38	0.47	0.57							0.04	410.78	-20.87	44.17	0.00
6	1.45	0.31	0.38	0.46	0.55						0.04	385.40	-19.18	36.26	0.00
7	1.20	0.26	0.31	0.37	0.44	0.54					0.04	358.39	-18.42	29.94	0.00
8	0.99	0.21	0.25	0.30	0.35	0.43	0.53				0.04	330.60	-17.73	24.73	0.00
9	0.82	0.17	0.21	0.24	0.29	0.35	0.43	0.53			0.04	302.77	-17.76	20.42	0.00
10	0.67	0.14	0.17	0.20	0.24	0.28	0.34	0.42	0.52		0.04	190.20	-18.69	16.84	0.00
11	0.55	0.12	0.14	0.17	0.20	0.23	0.28	0.34	0.42	0.52	0.58	102.51	-20.39	13.84	103.04
12	0.01		0.12	0.14	0.16	0.19	0.23	0.28	0.34	0.41	0.03	29.79	-8.72	0.00	82.79
13	0.01			0.11	0.13	0.16	0.19	0.23	0.27	0.33	0.03	13.03	-6.91	0.00	66.52
14	0.01				0.11	0.13	0.16	0.19	0.22	0.27	0.02	0.47	-5.37	0.00	54.08
15	0.00					0.11	0.13	0.15	0.19	0.22	0.01	-8.44	-4.10	0.00	44.37
16	0.00						0.11	0.13	0.15	0.18	0.01	-14.17	-3.05	0.00	36.57
17	0.00							0.10	0.13	0.15	0.00	-17.51	-2.18	0.00	30.16
18	0.00								0.10	0.12	0.00	-19.11	-1.41	0.00	24.85
19	0.00									0.10	0.00	-8.57	-0.68	0.00	20.41

Dairy Reproductive Economic Analysis Tool



Dairy reproductive analysis

Dairy Reproductive Economic Analysis

V.E. Cabrera



United States Department of Agriculture National Institute of Food and Agriculture



THE UNIVERSITY OF WISCONSIN MADISON

- Overview
- Upload
- Repro
- Abort
- Cull
- Milk
- Economics
- Run Model
- Results
- Analyze

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Dairy reproductive analysis

If not available,
left default values

Dairy Reproductive Economic Analysis

V.E. Cabrera

USDA United States Department of Agriculture National Institute of Food and Agriculture

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Overview Upload Repro Abort Cull Milk Economics Run Model Results Analyze

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Dairy reproductive analysis

Dairy Reproductive Economic Analysis

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19	0.00									0.10	0.00	-8.57	-0.68	0.00	20.41

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Dairy reproductive analysis

Dairy Reproductive Economic Analysis

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9	0.82	0.17	0.21	0.24	0.29	0.35	0.43	0.53			0.04	302.77	-17.76	20.42	0.00
10	0.67	0.14	0.17	0.20	0.24	0.28	0.34	0.42	0.52		0.04	190.20	-18.69	16.84	0.00
11	0.55	0.12	0.14	0.17	0.20	0.23	0.28	0.34	0.42	0.52	0.58	102.51	-20.39	13.84	103.04
12	0.01		0.12	0.14	0.16	0.19	0.23	0.28	0.34	0.41	0.03	29.79	-8.72	0.00	82.79
13	0.01			0.11	0.13	0.16	0.19	0.23	0.27	0.33	0.03	13.03	-6.91	0.00	66.52
14	0.01				0.11	0.13	0.16	0.19	0.22	0.27	0.02	0.47	-5.37	0.00	54.08
15	0.00					0.11	0.13	0.15	0.19	0.22	0.01	-8.44	-4.10	0.00	44.37
16	0.00						0.11	0.13	0.15	0.18	0.01	-14.17	-3.05	0.00	36.57
17	0.00							0.10	0.13	0.15	0.00	-17.51	-2.18	0.00	30.16
18	0.00								0.10	0.12	0.00	-19.11	-1.41	0.00	24.85
19	0.00									0.10	0.00	-8.57	-0.68	0.00	20.41

If not available, left default values

Dairy reproductive analysis

Dairy Reproductive Economic Analysis

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Overview Upload **Repro** Abort Cull Milk Economics Run Model Results Analyze

Month in Milk	Lactation 1		Lactation 2		Lactation 3		Lactation 4		Lactation 5		Lact
	Preg Per Month	Cost Per Month	Preg Per Month	Cost Per Month	Preg Per Month	Cost Per Month	Preg Per Month	Cost Per Month	Preg Per Month	Cost Per Month	Preg Per Month
	(%/mo)	\$/cow/mo	(%/mo)	\$/cow/mo	(%/mo)	\$/cow/mo	(%/mo)	\$/cow/mo	(%/mo)	\$/cow/mo	(%/mo)
1	0	0	0	0	0	0	0	0	0	0	0
2	18	25	18	25	18	25	18	25	18	25	18
3	18	25	18	25	18	25	18	25	18	25	18
4	18	25	18	25	18	25	18	25	18	25	18
5	18	25	18	25	18	25	18	25	18	25	18
6	18	25	18	25	18	25	18	25	18	25	18
7	18	25	18	25	18	25	18	25	18	25	18
8	18	25	18	25	18	25	18	25	18	25	18
9	18	25	18	25	18	25	18	25	18	25	18
10	18	25	18	25	18	25	18	25	18	25	18
11	18	25	18	25	18	25	18	25	18	25	18
12	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0

Decision Criteria for Reproductive Failure Culling

Month in lactation (threshold) to stop reproductive services (MIM)

Minimum amount of milk (threshold) produced (lb/cow/day)

Dairy reproductive analysis

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Overview Upload **Repro** Abort Cull Milk Economics Run Model Results Analyze

Proxy: 21-d PR

Month in Milk	Lactation 1		Lactation 2		Lactation 3		Lactation 4		Lactation 5		Lact
	Preg Per Month (%/mo)	Cost Per Month (\$/cow/mo)	Preg Per Month (%/mo)	Cost Per Month (\$/cow/mo)	Preg Per Month (%/mo)	Cost Per Month (\$/cow/mo)	Preg Per Month (%/mo)	Cost Per Month (\$/cow/mo)	Preg Per Month (%/mo)	Cost Per Month (\$/cow/mo)	Preg Per Month (%/mo)
1	0	0	0	0	0	0	0	0	0	0	0
2	18	25	18	25	18	25	18	25	18	25	18
3	18	25	18	25	18	25	18	25	18	25	18
4	18	25	18	25	18	25	18	25	18	25	18
5	18	25	18	25	18	25	18	25	18	25	18
6	18	25	18	25	18	25	18	25	18	25	18
7	18	25	18	25	18	25	18	25	18	25	18
8	18	25	18	25	18	25	18	25	18	25	18
9	18	25	18	25	18	25	18	25	18	25	18
10	18	25	18	25	18	25	18	25	18	25	18
11	18	25	18	25	18	25	18	25	18	25	18
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13	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0

Decision Criteria for Reproductive Failure Culling

Month in lactation (threshold) to stop reproductive services (MIM)

Minimum amount of milk (threshold) produced (lb/cow/day)

Dairy reproductive analysis

Dairy Reproductive Economic Analysis

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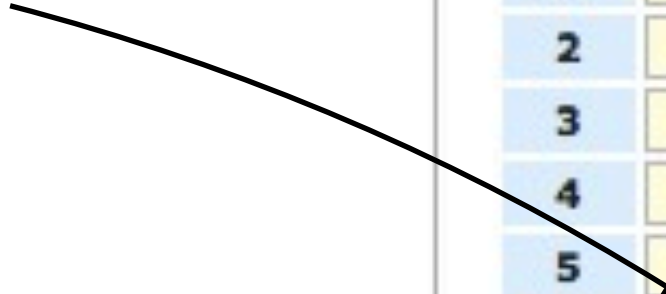
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Overview Upload **Repro** Abort Cull Milk Economics Run Model Results Analyze

Proxy: 21-d PR



Month in Milk	Lactation 1		Lactation 2		Lactation 3		Lactation 4		Lactation 5		Lact
	Preg Per Month (%/mo)	Cost Per Month (\$/cow/mo)	Preg Per Month (%/mo)	Cost Per Month (\$/cow/mo)	Preg Per Month (%/mo)	Cost Per Month (\$/cow/mo)	Preg Per Month (%/mo)	Cost Per Month (\$/cow/mo)	Preg Per Month (%/mo)	Cost Per Month (\$/cow/mo)	Preg Per Month (%/mo)
1	0	0	0	0	0	0	0	0	0	0	0
2	18	25	18	25	18	25	18	25	18	25	18
3	18	25	18	25	18	25	18	25	18	25	18
4	18	25	18	25	18	25	18	25	18	25	18
5	18	25	18	25	18	25	18	25	18	25	18
6	18	25	18	25	18	25	18	25	18	25	18
7	18	25	18	25	18	25	18	25	18	25	18
8	18	25	18	25	18	25	18	25	18	25	18
9	18	25	18	25	18	25	18	25	18	25	18
10	18	25	18	25	18	25	18	25	18	25	18
11	18	25	18	25	18	25	18	25	18	25	18
12	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0

Decision Criteria for Reproductive Failure Culling

Month in lactation (threshold) to stop reproductive services (MIM)

Minimum amount of milk (threshold) produced (lb/cow/day)

Dairy reproductive analysis

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Proxy: 21-d PR

Month in Milk	Lactation 1		Lactation 2		Lactation 3		Lactation 4		Lactation 5		Lact
	Preg Per Month (%/mo)	Cost Per Month (\$/cow/mo)	Preg Per Month (%/mo)	Cost Per Month (\$/cow/mo)	Preg Per Month (%/mo)	Cost Per Month (\$/cow/mo)	Preg Per Month (%/mo)	Cost Per Month (\$/cow/mo)	Preg Per Month (%/mo)	Cost Per Month (\$/cow/mo)	Preg Per Month (%/mo)
1	0	0	0	0	0	0	0	0	0	0	0
2	18	25	18	25	18	25	18	25	18	25	18
3	18	25	18	25	18	25	18	25	18	25	18
4	18	25	18	25	18	25	18	25	18	25	18
5	18	25	18	25	18	25	18	25	18	25	18
6	18	25	18	25	18	25	18	25	18	25	18
7	18	25	18	25	18	25	18	25	18	25	18
8	18	25	18	25	18	25	18	25	18	25	18
9	18	25	18	25	18	25	18	25	18	25	18
10	18	25	18	25	18	25	18	25	18	25	18
11	18	25	18	25	18	25	18	25	18	25	18
12	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0

Decision Criteria for Reproductive Failure Culling

Month in lactation (threshold) to stop reproductive services (MIM)

Minimum amount of milk (threshold) produced (lb/cow/day)

Dairy reproductive analysis

Dairy Reproductive Economic Analysis

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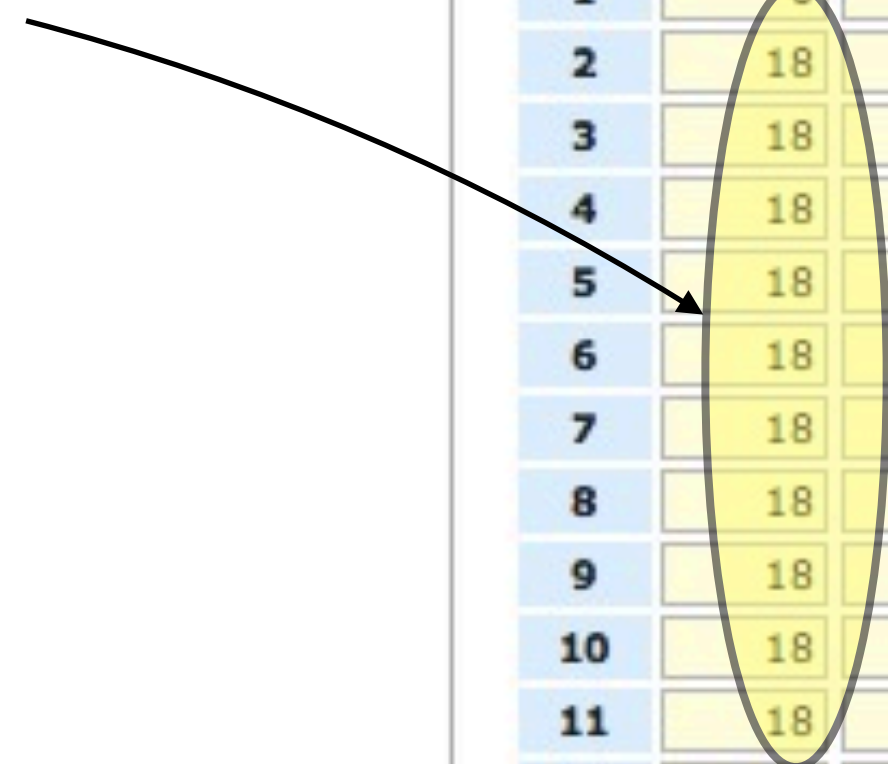


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Overview Upload **Repro** Abort Cull Milk Economics Run Model Results Analyze

Month in Milk	Lactation 1		Lactation 2		Lactation 3		Lactation 4		Lactation 5		Lact
	Preg Per Month (%/mo)	Cost Per Month \$/cow/mo	Preg Per Month (%/mo)	Cost Per Month \$/cow/mo	Preg Per Month (%/mo)	Cost Per Month \$/cow/mo	Preg Per Month (%/mo)	Cost Per Month \$/cow/mo	Preg Per Month (%/mo)	Cost Per Month \$/cow/mo	Preg Per Month (%/mo)
1	0	0	0	0	0	0	0	0	0	0	0
2	18	25	18	25	18	25	18	25	18	25	18
3	18	25	18	25	18	25	18	25	18	25	18
4	18	25	18	25	18	25	18	25	18	25	18
5	18	25	18	25	18	25	18	25	18	25	18
6	18	25	18	25	18	25	18	25	18	25	18
7	18	25	18	25	18	25	18	25	18	25	18
8	18	25	18	25	18	25	18	25	18	25	18
9	18	25	18	25	18	25	18	25	18	25	18
10	18	25	18	25	18	25	18	25	18	25	18
11	18	25	18	25	18	25	18	25	18	25	18
12	0	0	0	0	0	0	0	0	0	0	0
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14	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0

Proxy: 21-d PR



Reproductive cost only for serviced cows

Decision Criteria for Reproductive Failure Culling

Month in lactation (threshold) to stop reproductive services (MIM)

Minimum amount of milk (threshold) produced (lb/cow/day)

Dairy reproductive analysis

Dairy Reproductive Economic Analysis

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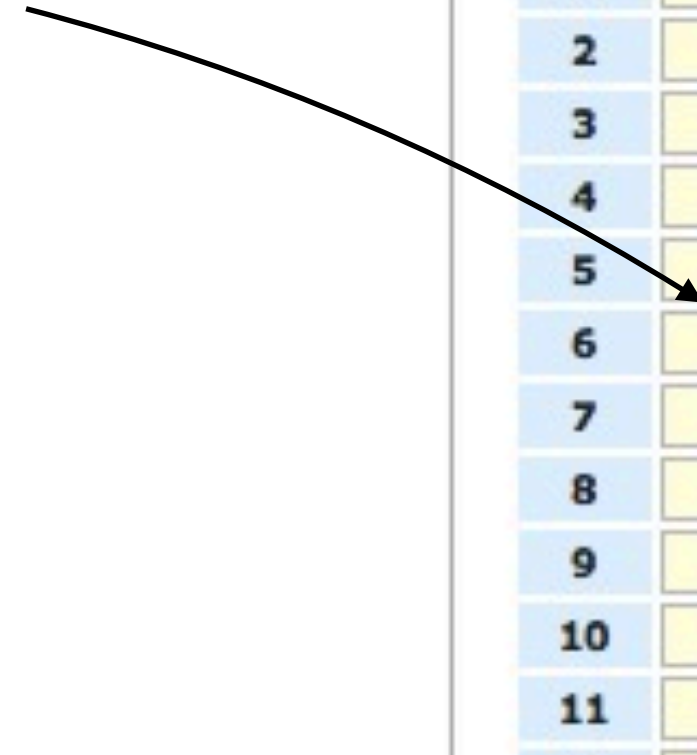


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Month in Milk	Lactation 1		Lactation 2		Lactation 3		Lactation 4		Lactation 5		Lact
	Preg Per Month (%/mo)	Cost Per Month \$/cow/mo	Preg Per Month (%/mo)	Cost Per Month \$/cow/mo	Preg Per Month (%/mo)	Cost Per Month \$/cow/mo	Preg Per Month (%/mo)	Cost Per Month \$/cow/mo	Preg Per Month (%/mo)	Cost Per Month \$/cow/mo	Preg Per Month (%/mo)
1	0	0	0	0	0	0	0	0	0	0	0
2	18	25	18	25	18	25	18	25	18	25	18
3	18	25	18	25	18	25	18	25	18	25	18
4	18	25	18	25	18	25	18	25	18	25	18
5	18	25	18	25	18	25	18	25	18	25	18
6	18	25	18	25	18	25	18	25	18	25	18
7	18	25	18	25	18	25	18	25	18	25	18
8	18	25	18	25	18	25	18	25	18	25	18
9	18	25	18	25	18	25	18	25	18	25	18
10	18	25	18	25	18	25	18	25	18	25	18
11	18	25	18	25	18	25	18	25	18	25	18
12	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0

Proxy: 21-d PR



Reproductive cost only for serviced cows



Decision Criteria for Reproductive Failure Culling

Month in lactation (threshold) to stop reproductive services (MIM)

Minimum amount of milk (threshold) produced (lb/cow/day)

Dairy reproductive analysis

Dairy Reproductive Economic Analysis

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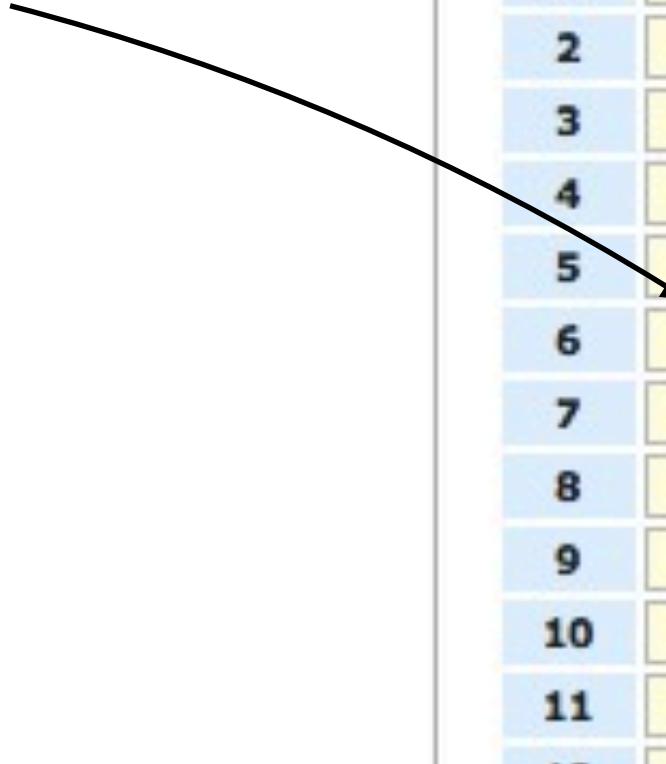


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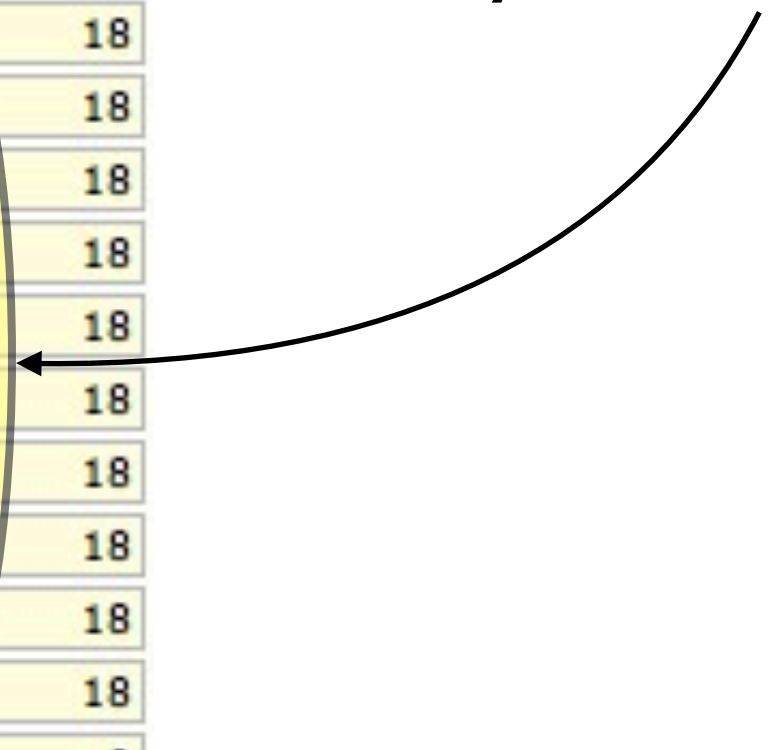
Overview Upload **Repro** Abort Cull Milk Economics Run Model Results Analyze

Month in Milk	Lactation 1		Lactation 2		Lactation 3		Lactation 4		Lactation 5		Lact
	Preg Per Month (%/mo)	Cost Per Month \$/cow/mo	Preg Per Month (%/mo)	Cost Per Month \$/cow/mo	Preg Per Month (%/mo)	Cost Per Month \$/cow/mo	Preg Per Month (%/mo)	Cost Per Month \$/cow/mo	Preg Per Month (%/mo)	Cost Per Month \$/cow/mo	Preg Per Month (%/mo)
1	0	0	0	0	0	0	0	0	0	0	0
2	18	25	18	25	18	25	18	25	18	25	18
3	18	25	18	25	18	25	18	25	18	25	18
4	18	25	18	25	18	25	18	25	18	25	18
5	18	25	18	25	18	25	18	25	18	25	18
6	18	25	18	25	18	25	18	25	18	25	18
7	18	25	18	25	18	25	18	25	18	25	18
8	18	25	18	25	18	25	18	25	18	25	18
9	18	25	18	25	18	25	18	25	18	25	18
10	18	25	18	25	18	25	18	25	18	25	18
11	18	25	18	25	18	25	18	25	18	25	18
12	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0

Proxy: 21-d PR



Reproductive cost only for serviced cows



Decision Criteria for Reproductive Failure Culling

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Dairy reproductive analysis

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Analyze

Find the economic value of improving reproductive performance

	21-d Preg Risk (%)	Repro Cost (\$/cow/mo)
Current Repro Program	18	25
Goal Repro Program	22	30

Analyze

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	21-d Preg Risk (%)	Repro Cost (\$/cow/mo)
Current Repro Program	18	25
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Additional
Cost

	21-d Preg Risk (%)	Repro Cost (\$/cow/mo)
Current Repro Program	18	25
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Analyze

Dairy reproductive analysis

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Find the economic value of improving reproductive performance

Current Repro Program

21-d Preg Risk
(%)

18

Goal Repro Program

22

Repro Cost
(\$/cow/mo)

25

30

Analyze

Value
Improving
21-d PR

Additional
Cost

Dairy reproductive analysis

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Additional
Cost

	21-d Preg Risk (%)	Repro Cost (\$/cow/mo)
Current Repro Program	18	25
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Analyze

Dairy reproductive analysis

Analysis Results

Program	21-d Preg Risk (%)	Repro Cost (\$/cow/mo)	IOFC (\$/cow/year)	Cull (\$/cow/year)	Repro (\$/cow/year)	Calves (\$/cow/year)	Net Return (\$/cow/year)
Current Repro Program	18	25	1840.67	-164.62	-113.49	127.52	1690.08
Goal Repro Program	22	30	1882.84	-159.42	-121.1	138.27	1740.6

Economic value of improving pregnancy risk from 18% to 22% is \$50.52/cow/year.

Dairy reproductive analysis

Analysis Results

Program	21-d Preg Risk (%)	Repro Cost (\$/cow/mo)	IOFC (\$/cow/year)	Cull (\$/cow/year)	Repro (\$/cow/year)	Calves (\$/cow/year)	Net Return (\$/cow/year)
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Bottom-line
Results

Dairy reproductive analysis

Analysis Results

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Bottom-line
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Dairy reproductive analysis

Analysis Results

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Bottom-line
Results



Dairy reproductive analysis

Breakdown
Economics

Analysis Results

Program	21-d Preg Risk (%)	Repro Cost (\$/cow/mo)	IOFC (\$/cow/year)	Cull (\$/cow/year)	Repro (\$/cow/year)	Calves (\$/cow/year)	Net Return (\$/cow/year)
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Bottom-line
Results



Dairy reproductive analysis

Breakdown
Economics

Analysis Results

Program	21-d Preg Risk (%)	Repro Cost (\$/cow/mo)	IOFC (\$/cow/year)	Cull (\$/cow/year)	Repro (\$/cow/year)	Calves (\$/cow/year)	Net Return (\$/cow/year)
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Bottom-line
Results

Dairy reproductive analysis

Breakdown
Economics

Analysis Results

Program	21-d Preg Risk (%)	Repro Cost (\$/cow/mo)	IOFC (\$/cow/year)	Cull (\$/cow/year)	Repro (\$/cow/year)	Calves (\$/cow/year)	Net Return (\$/cow/year)
Current Repro Program	18	25	1840.67	-164.62	-113.49	127.52	1690.08
Goal Repro Program	22	30	1882.84	-159.42	-121.1	138.27	1740.6

Economic value of improving pregnancy risk from **18%** to **22%** is **\$50.52/cow/year.**

Bottom-line
Results





Thanks