

# CRUCES

# CREATIVES

*2020  
Activities  
Report*



L  
E  
A  
R  
N  
  
M  
A  
K  
E  
  
C  
O  
N  
N  
E  
C  
T

**Cruces Creatives is a non-profit makerspace committed to fostering economic development, supporting the arts, protecting the environment, and advancing science and technology by connecting people with tools, training, and community to make practically anything.**

In this report, you can learn how Cruces Creatives has pursued those missions in 2020. The report is organized into two main sections:  
1) activity descriptions and 2) the 2020 Cruces Creatives budget.

205 E LOHMAN AVE  
LAS CRUCES, NM 88001  
(575) 448-1072  
CRUCESCREATIVES.ORG



# CLASSES & EVENTS

From January 1 to March 14, 2020 (before events were paused for the pandemic), Cruces Creatives hosted 127 classes and events. Some highlights include



- **Model rocket building for kids, presented in partnership with Fellowship of Las Cruces-area Rocketry Enthusiasts (FLARE)**
- **2020 Women's Day Photo Project, in partnership with NMCO Media**
- **Pinewood Derby workshops, hosted in partnership with Scouts**
- **A five-workshop Photography Bootcamp, presented in partnership with the Doña Ana Photography Club**
- **Seed Shares, in collaboration with SeedShare Las Cruces**
- **First Friday Art Shows and All-Original Open Mics**



# FLARE - FREE Rocket Building Workshop

\$0



## **FLARE Workshop**

This was a beginners' model rocket workshop for rockets that actually fly! The rocketeers of FLARE (The Fellowship of Las Cruces Area Rocketry Enthusiasts) recommend the workshop for youth eight years and up. Parents were welcome to join in. Each participant was able to build a model rocket and learn the principles of model rocket flight.

The rocket kits for this workshop were sponsored by White Sands Federal Credit Union. All building supplies were provided.





## **2020 Women's Day Photo Project**



International Women's Day falls on March 8th, which is a day dedicated to honoring the achievements of women. As a company that celebrates diversity and equality, especially in the workplace, NMCO Media (a regular Cruces Creatives partner) wanted to help celebrate local women, specifically artists.

For Women's day 2020, the NMCO team dreamed up a bright vivid desert-scape. With strategic hand-painted background, dramatic lighting, and modern composition, NMCO used the audiovisual room at Cruces Creatives to achieve a photo project that is alive with colorful Southwestern drama.





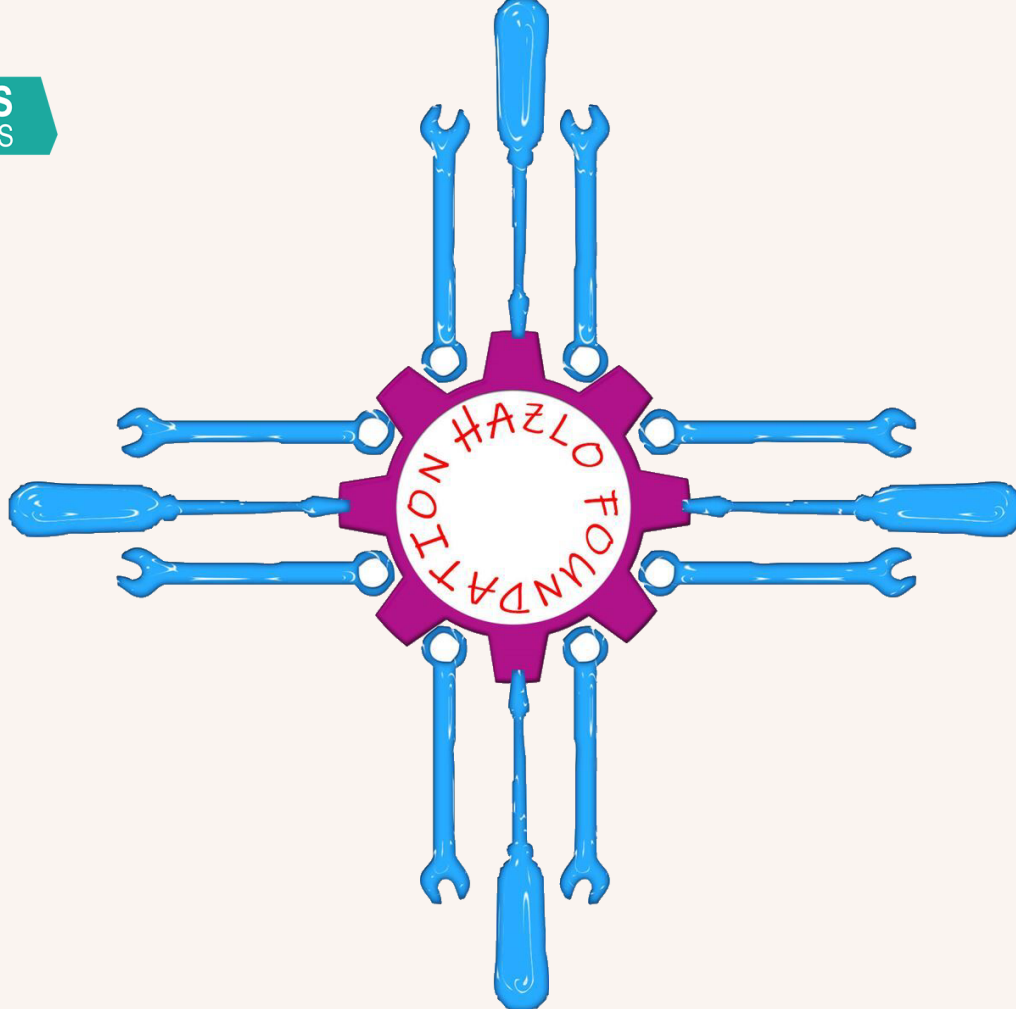
# DONA ANA PHOTOGRAPHY CLUB BOOT CAMP

## Exposure Triangle

## Photography Bootcamp

In a series of five photography classes, participants learned how to take great photos through discussions and exercises. Workshop content covered how cameras work and the multiple functions on a modern camera; lenses and their uses; composition, lighting, the “rules” of photography and when to break them; different photographic styles; and much more!

The boot camp series was open to the community, and anyone could attend for \$5 per class.



## **Hazlo Program**

The Hazlo Program offers K-12 students in Dona Ana County the chance to work on projects they choose, with support from expert mentors, makerspace tools, and funding for supplies. Program highlights from before the pandemic program include the work of students from Las Montanas Charter High School to make a mental wellness room for their school, learning woodworking to make furniture and textiles to make pillows, weighted blankets, and furniture cushions, and the work of a middle school student to record her first album of original and cover songs in the Cruces Creatives audio room.

# The Hub Community Bike Shop



## Bike Shop

Since bicycle repair is classified as an essential service, makerspace partner VeloCruces largely continued Hub programs through the pandemic, with PPE and social distancing requirements for safety.



## **STEAM Team**

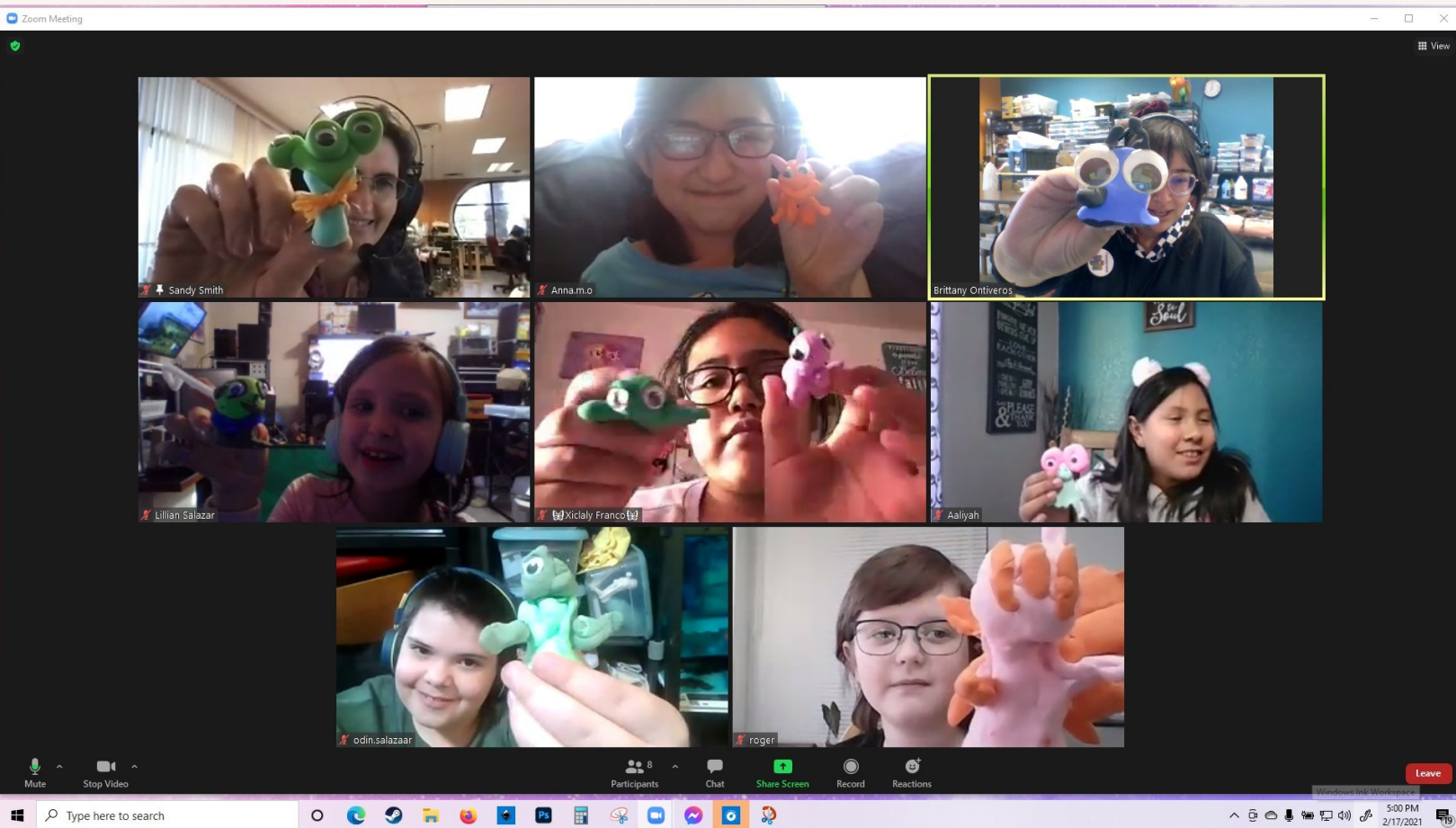
( Pages 07-08 )

The Cruces Creatives STEAM Team, made possible through the support of the New Mexico STEM Outreach Center, offers students hands-on learning experiences in science, technology, engineering, arts, and mathematics.

Before the pandemic, four classes of students were able to meet in person with STEAM Team instructors and makerspace tools, completing smaller projects including circuit tiles, light-up felt aliens (laser cut from student-created SVG files), stomp rockets, and rubber band cars. The smaller projects led into larger projects: for instance, in the interactive alebrije project, students used animals native to our area as inspiration for designing their own mythical creature, then they engineered an armature for a paper mâché sculpture, soldered their own LEDs, wired touch sensors, and then programmed their sculpture's responses using a Makey Makey and Scratch, a coding program for youth.







When the pandemic hit, the STEAM Team transitioned to virtual programs and helped make sure students throughout the city could keep learning by designing and distributing maker kits through the Las Cruces Public Schools, through the makerspace, and through community partners including Families and Youth, Inc., Boys & Girls Club, and La Casa de Familia.



P  
U  
B  
L  
I  
C  
H  
E  
A  
L  
T  
H

To help keep our community safe during the pandemic, especially during the early stages when personal protective equipment (PPE) was in very short supply, Cruces Creatives dedicated its tools and creative community to making over **4,500** units of PPE--including face shields, fabric face masks, and ear savers--for medical personnel and front-line workers throughout Las Cruces. To ensure the efficacy of the PPE, designs were tested and approved by personnel at Memorial Medical Center. Over **70** community members volunteered their time and expertise to make this program successful.

---

In preparation for the reopening of schools, Cruces Creatives also made **3,366** face shield and scarf units for the Las Cruces Public Schools, using the laser cutter, textile equipment, and 3D printers at the makerspace.



# **Seeding Regenerative Agriculture** **Project** *( Pages 10 - 12 )*

With generous support from the Santa Fe Community Foundation, Cruces Creatives coordinates the Seeding Regenerative Agriculture project, which brings farmers, ranchers, and support organizations together to share knowledge and launch projects that make sustainable agriculture and regenerative agriculture (a type of sustainable agriculture focused on soil health) easier to practice. Since cooperative in-person work was paused by the pandemic, project attention turned to technology development, economic development, and on-field scientific research.



In response to requests from farmers and ranchers, Cruces Creatives developed working prototypes for several technologies, then shared the technologies with producers for field-testing and feedback. The developed technologies include:



**A CONTOUR-LINE PLOW AND INOCULATION SYSTEM FOR BENEFICIAL MICROBES**



**SEED CLEANERS**



**CLOUD-CONNECTED SOIL TEMPERATURE SENSORS**

When revisions based on producer feedback are finished, Cruces Creatives will offer the plans for the technologies as open-source designs. For farmers and ranchers who are less interested in building the technologies from plans, Cruces Creatives will also offer kits and fully-assembled technologies for sale.

The farmers and ranchers in the project also stayed hard at work on new business partnerships formed through the project, including initiatives for freeze-dried produce, direct beef and pork sales, and the pressing of orchard seconds (ugly fruit) into cider.

Also, in partnership with the New Mexico State University Sustainable Agriculture Science Center at Alcalde, the first on-field research project in the program has started at Pata Viva Farm, with the goal of studying how cover cropping and beneficial soil microbes affect indicators of soil health, plant productivity, and water use.

# Community Partners in Education



In cooperation with the Las Cruces Community Schools, The Stocker Foundation, and an Arizona-based educational nonprofit, CommunityShare, Cruces Creatives launched a new, free-to-use online platform to connect teachers and students with subject matter experts from the community, enlivening classrooms with real-world knowledge and project-based learning.



In response to the pandemic, Cruces Creatives and the other project partners developed and shared approaches to help teachers work remotely with community partners. This work bore its first results in spring 2021, through projects involving over 400 students.



This program is still growing. If you would like to be involved, learn more or sign up to volunteer at <https://www.communityshare.us/las-cruces/>.

## Additional Projects



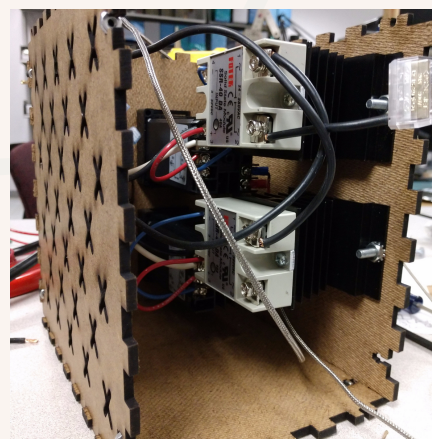
**ALGAE GROWING POND - WE WERE MENTORING NMSU EE STUDENTS TO BUILD POND CONTROLLERS**



**HOUSING FOR DATALOGGER IN ORCHARD FIRE BLIGHT TREATMENT STUDY**



**FENCE PACK - ALLOWS RANCHERS TO FENCE DIFFICULT TERRAIN**



**HEAT CONTROLLER FOR PRECIOUS PLASTICS RECYCLING**

# 2020 BUDGET

## Cruces Creatives Profit & Loss January through December 2020

	Jan - Dec 20
<b>Ordinary Income/Expense</b>	
<b>Income</b>	
40000 · Uncategorized Income	0.00
41000 · Direct Public Support	
41100 · Contributions - Unrestricted	13,607.64
41200 · Contributions Restricted	5,765.00
<b>Total 41000 · Direct Public Support</b>	<b>19,372.64</b>
42000 · Program Income	
42100 · Classes & Workshops	1,383.00
42101 · Member Dues	21,775.00
42106 · LCPS Mayfield Young Learners	795.69
42108 · STEM Program	50,523.52
42113 · PPE	18,138.53
42300 · Workforce Development OJT Reimb	25,670.99
42999 · Other Program Income	28,104.89
<b>Total 42000 · Program Income</b>	<b>146,391.62</b>
43000 · Grant Income	
43002 · Zone Grant	90,000.00
43007 · Stocker Grant	14,293.72
43999 · Grants Various	17,250.00
<b>Total 43000 · Grant Income</b>	<b>121,543.72</b>
44000 · Job Shop Contracts	
44010 · Quilt Repair #1095	150.00
44999 · Small Job Shops	1,280.00
<b>Total 44000 · Job Shop Contracts</b>	<b>1,430.00</b>
46000 · Workforce Reimbursed Salaries	0.00
48000 · Dividends & Interest	8.12
<b>Total Income</b>	<b>288,746.10</b>
<b>Gross Profit</b>	<b>288,746.10</b>
<b>Expense</b>	
61000 · Administration	
61100 · Contract Labor - Admin Support	770.12
<b>Total 61000 · Administration</b>	<b>770.12</b>
62000 · Program Expenses	
62100 · Class Instruction & Events	279.50
62106 · Mayfield Program	322.50
62108 · STEM	
62108-2 · Labor	17,264.35
62108-3 · Materials	18,609.91
62108-4 · Other	1,364.25
<b>Total 62108 · STEM</b>	<b>37,238.51</b>
62112 · Community Schools/Community Sha	
62112-2 · Labor	2,767.50
62112-3 · Materials	683.06
62112-4 · Other	19,300.00
<b>Total 62112 · Community Schools/Community Sha</b>	<b>22,750.56</b>
62113 · PPE Program - City LC	
62113-2 · Labor	7,178.50
62113-3 · Materials	1,233.55
62113-4 · Other	435.00
<b>Total 62113 · PPE Program - City LC</b>	<b>8,847.05</b>



**Cruces Creatives**  
**Profit & Loss**  
 January through December 2020

	Jan - Dec 20
<b>62998 · Other Program</b>	
62998-2 · Labor	219.38
62998-3 · Materials	26.98
62998 · Other Program - Other	563.75
<b>Total 62998 · Other Program</b>	810.11
<b>Total 62000 · Program Expenses</b>	70,248.23
<b>63000 · Awards and Grants</b>	
<b>63001 · Zone Grant Exps</b>	
63001-2 · Labor	10,717.28
63001-3 · Materials	282.18
63001-4 · Other	13,055.10
<b>Total 63001 · Zone Grant Exps</b>	24,054.56
<b>63003 · Rumphius Mural Grant</b>	
63003-4 · Other	796.10
<b>Total 63003 · Rumphius Mural Grant</b>	796.10
<b>63007 · Stocker Grant</b>	
63007-2 · Labor	8,262.47
63007-4 · Other	2,500.00
<b>Total 63007 · Stocker Grant</b>	10,762.47
<b>63999 · Grants Various Small</b>	
63999-2 · Labor	1,122.36
63999-3 · Materials	850.23
<b>Total 63999 · Grants Various Small</b>	1,972.59
<b>Total 63000 · Awards and Grants</b>	37,585.72
<b>64000 · Job Shop Expenses</b>	
<b>64008 · Library Bench Build Out #1213</b>	
64008-2 · Labor	400.42
64008-3 · Materials	90.89
<b>Total 64008 · Library Bench Build Out #1213</b>	491.31
<b>64010 · Quilty Repair #1095</b>	
64010-2 · Labor	150.00
<b>Total 64010 · Quilty Repair #1095</b>	150.00
<b>64011 · Precious Plastics #1272</b>	
64011-2 · Labor	1,400.00
64011-3 · Materials	762.42
<b>Total 64011 · Precious Plastics #1272</b>	2,162.42
<b>64012 · Thresher #1271</b>	
64012-2 · Labor	1,500.00
64012-3 · Materials	701.02
<b>Total 64012 · Thresher #1271</b>	2,201.02
<b>64013 · Covid PPE#2199 LCPS Faceshields</b>	
64013-2 · Labor	11,996.62
64013-3 · Materials	14,481.49
<b>Total 64013 · Covid PPE#2199 LCPS Faceshields</b>	26,478.11



# Cruces Creatives

## Profit & Loss

### January through December 2020

	Jan - Dec 20
<b>64999 · Small Job Shops Exp</b>	
64999-1 · Labor	990.00
64999-3 · Materials	293.52
64999 · Small Job Shops Exp - Other	293.86
<b>Total 64999 · Small Job Shops Exp</b>	1,577.38
<b>Total 64000 · Job Shop Expenses</b>	33,060.24
<b>66000 · Facilities and Equipment</b>	
66001 · Rent	56,750.00
66010 · Utilities	9,164.23
66020 · Repairs & Maintenance	737.80
66022 · Cleaning Supplies	174.46
66025 · Other Facilities Exp	241.18
66050 · Property & Liability Insurance	1,217.49
<b>Total 66000 · Facilities and Equipment</b>	68,285.16
<b>67000 · Business Expenses</b>	
67001 · Software & Computer Costs	4,330.70
67010 · Fees	1,170.21
67020 · Office Supplies	671.57
67025 · Other Supplies	58.04
67040 · Marketing	33.63
67960 · Other Business Exp	552.40
<b>Total 67000 · Business Expenses</b>	6,816.55
<b>69999 · Unclassified</b>	0.00
<b>70000 · Payroll Expenses</b>	
71000 · Shop Wages	
71100 · Gross Wages	63,235.25
71200 · Payroll Taxes	5,942.27
71300 · Worker's Compensation	1,537.00
71400 · Payroll Other Costs	87.78
71999 · Penalties & Interest	83.77
<b>Total 71000 · Shop Wages</b>	70,886.07
<b>70000 · Payroll Expenses - Other</b>	0.00
<b>Total 70000 · Payroll Expenses</b>	70,886.07
<b>Total Expense</b>	287,652.09
<b>Net Ordinary Income</b>	1,094.01
<b>Net Income</b>	1,094.01



**Cruces Creatives**  
**Balance Sheet**  
As of December 31, 2020

	Dec 31, 20
<b>ASSETS</b>	
<b>Current Assets</b>	
<b>Checking/Savings</b>	
10000 · Cash	
10005 · First Light Operating	32,061.36
10010 · First Light Proj #1 Earmarks	918.60
10020 · First Light Proj #2 Restricted	5.45
10030 · First Light Proj #3 Surguy Mem	512.28
10040 · Petty Cash	110.00
<b>Total 10000 · Cash</b>	33,607.69
<b>Total Checking/Savings</b>	33,607.69
<b>Accounts Receivable</b>	
11100 · Accounts Receivable	
11120 · A/R Other	1,200.00
<b>Total 11100 · Accounts Receivable</b>	1,200.00
<b>Total Accounts Receivable</b>	1,200.00
<b>Total Current Assets</b>	34,807.69
<b>Fixed Assets</b>	
15000 · Furniture, Equip & Tools	19,619.00
17000 · Accum Depr - Furn, Equip & Tool	-19,619.00
<b>Total Fixed Assets</b>	0.00
<b>Other Assets</b>	
19000 · Security Deposits Asset	6,000.00
<b>Total Other Assets</b>	6,000.00
<b>TOTAL ASSETS</b>	<b>40,807.69</b>
<b>LIABILITIES &amp; EQUITY</b>	
<b>Liabilities</b>	
<b>Current Liabilities</b>	
<b>Other Current Liabilities</b>	
24000 · Payroll Liabilities	
24100 · 941 Payroll Tax Total	-36.30
<b>Total 24000 · Payroll Liabilities</b>	-36.30
25000 · Loans from Officers, Directors	9,200.00
<b>Total Other Current Liabilities</b>	9,163.70
<b>Total Current Liabilities</b>	9,163.70
<b>Long Term Liabilities</b>	
28000 · Refundable Deposits Payable	1,000.00
<b>Total Long Term Liabilities</b>	1,000.00
<b>Total Liabilities</b>	10,163.70
<b>Equity</b>	
30000 · Net Assets	
30100 · Net Assets Unrestrict	3,599.70
30200 · Net Assets Restricted	
30201 · Restricted Grants & Other	25,950.28
<b>Total 30200 · Net Assets Restricted</b>	25,950.28
<b>Total 30000 · Net Assets</b>	29,549.98
<b>Net Income</b>	1,094.01
<b>Total Equity</b>	30,643.99
<b>TOTAL LIABILITIES &amp; EQUITY</b>	<b>40,807.69</b>