

שיפור הרווחיות ... גנטיקה עושה את ההבדל



Lloyd Wicks, Grasshill Farm Ltd.
Bobcaygeon, Ontario, CANADA

Grasshill (גרסהיל) גנטיקה – החבילה המלאה

ייצור רווחי, הסתגלות, בריאות



Filling the Milk Truck! GRASSHILL NADIA (EX)

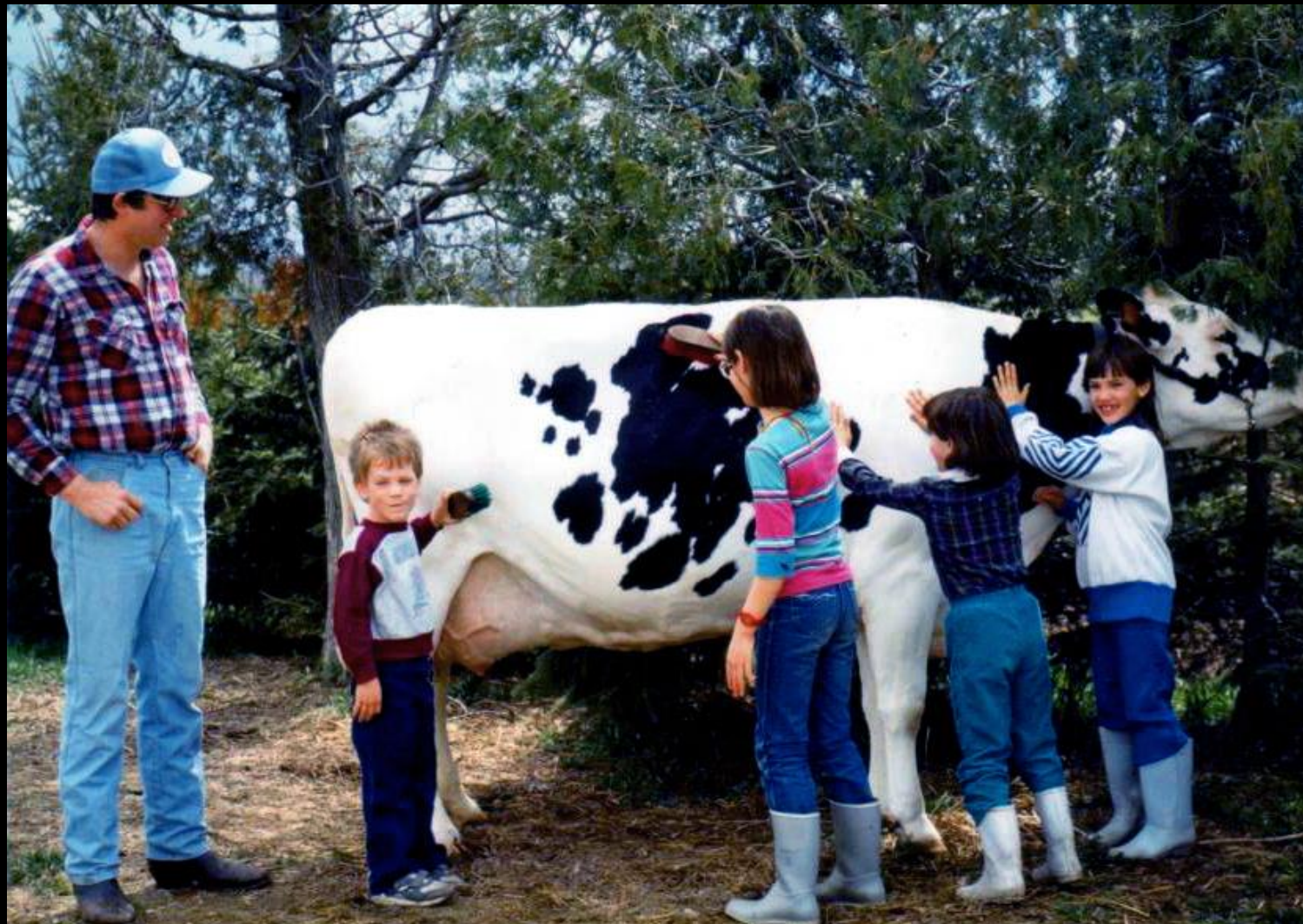
One of the World's Highest Producing Goats

Total to date: 44,343 lb ... 20,114 kg

חוות גראסהיל בע"מ, בובקייז'ן, אונטריו, קנדה

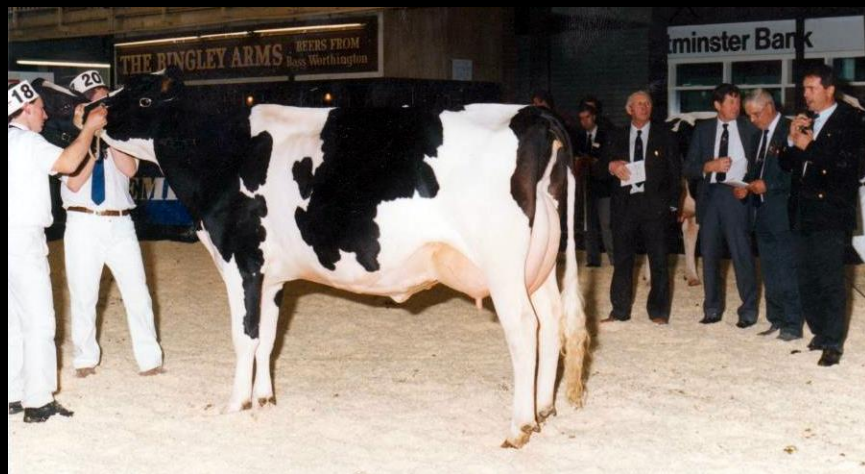


'Grasshill' חווה משפחתית שמתמקדת בגנטיקה משובחת
ייצור רווחי, הסתגלות, בריאות





השוורים והפרות של גראסהיל ברחבי העולם



פתחתנו את דלתנו בפני עולם העיזים כאשר הבנו את הפוטנציאל העצום שלהן בתעשיית המזון העולמית



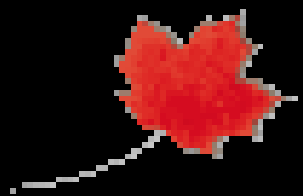


טיפוח גנטי למטרת רווחיות



אנחנו מתמקדים בייצור רווחי,
הסתגלות
רבייה
הזנה יעילה



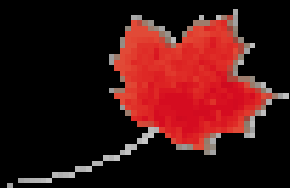


"הכלים" של גראסהיל למקסום רווחיות העזים



יש להדגיש שעזים אינן פרות קטנות

חשיבות המדידות בזיהוי הגנטיקה הרווחית



*“אתה לא יכול לשפר משהו
עד שלא תוכל למדוד אותו!”*

תפוקה: כמות יומית, תקופת חליבה, אורך חיים.

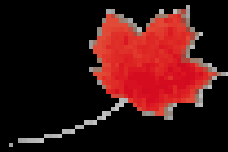
• רבייה: מספר וולדות ובריאותם

• הסתגלות יעילה

• שושלת בריאות

• תזונה יעילה

אמות המידה לרווחיות



- יצרנות לכל אורך החיים

- יציבות בחליבה

- מידע גנטי

- רבייה יעילה

- הזנה יעילה



ההשפעות של הכלאה עבור

זנים טובים ובריאות טובה



ייצור גבוה  רבייה איכותית  אריכות ימים

גנטיקה שהוכחה כרווחית
מספר דוגמאות לעזים שחלבו 10,000 + ק"ג



‘Diamond’: VG, 10,210 kg *(to date)*



‘Jewel’ VG (10,200 kg), & ‘Diamond’



‘Shnooks’: EX, 10,680 kg *(to date)*



‘Patricia’: EX, 12,730 kg *(to date)*

גורם המפתח ברווחיות: ייצור חלב לכל אורך החיים

12 היצרניות הטובות ביותר (ברשותנו 74 עיזים חולבות +10,000 ק"ג)

שם עדין חולבת***	משקל חלב ק"ג (נכון להיום)	משקל חלב בליברות (נכון להיום)	זכרים בעלי הגן שנחלב מהם זרע
NADIA ***	20,114 ***	43,585	Xmas Comet, Summit, Sheik, Night Patrol
DIANA	18,030	39,749	Radar, Taser, Cloverleaf, Comet, Tornado
SHEENA ***	16,650 ***	36,707	Cloverleaf, Night Patrol, Blueprint, Comet
ANDORA	15,100	33,290	Successor, Cloverleaf, Summit, Winner
JADE	14,890	32,827	Night Patrol, Blueprint, Whiplash
TOFFEE ***	14,650 ***	32,298	Sheriff, Cloverleaf, Winner, Successor
TIARA	14,440	31,835	Sheriff, Sheik, Sentinel, Taser, Tornado
PATRICIA	14,420	31,791	Radar, Xmas Comet, Narrator
CERSTEN	14,380	31,702	Cornerstone, Cloverleaf, Sheik, Cash
SHAYLA	14,280	31,482	Sentinel, Night Patrol
MADONNA	14,100	31,085	Successor, Cloverleaf, Summit, Winner

‘Grasshill Nadia’ - ההתמדה משתלמת

מובילה עולמית בכמות חלב כללית .



- Born March 8, 2005
- Now milking in her 8th lactation
- Total Days Dry: 187
- Total Days in Milk: 3642
- Kg/Day of Milk: 5.43
- **Total Milk to Date: (& still milking)**
20,114 kg = 44,343 lb

Nadia's Offspring (to date): 7 Female, 8 Male including:

Nymph: still milking 2nd lact, 4610 kg in 628 days

305d: 2580 kg 3.7f 2.8p

Nemesis: 1st lact: 4240 kg in 707 days , pictured →

305d: 1910 kg 4.0f 2.9p

New Day: 10,140 kg (22,355 lb) in 3 lactations

2041 days milking - no dry period between - still 3 kg/day)

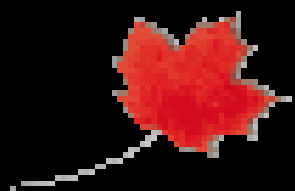
Semen & Embryos currently Available from Family Members :

Narrator, Xmas Comet & Navigator (semen) ; Natalie (embryos)

(genetics from other Nadia offspring may possibly be pre-ordered)



Nadia's Daughter: 'Nemesis'



הערכת המידע הגנטי

כדי לזהות מרקרים (קודים) גנטיים רווחיים

- כלי חדש בעל פוטנציאל אדיר להגדלת הרווחיות בענף העיזים דרך בידוד של מרקרים גנטיים וזיהוי וולדות הנושאים את המערך הגנטי הנחשק ביותר.

- המחקר נעשה כרגע באוניברסיטת טרנט באונטריו המתמחה בעיזים, ובנוסף באוניברסיטת גוואלף.

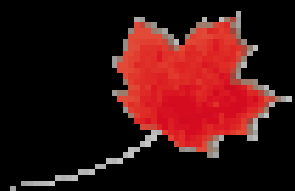
- ה-DNA האחרון שזוהה: **גן שמייצר עמידות לסקארפי (QQ)**

בנוסף המרקרים של Alpha S1 Casein

כל 16 התיישים שנחלבו לאחרונה בגראסהיל הם מסוג הטרזיגוט או הומוזיגוט !!! עמידים בסקארפי

6 מהתיישים שכבר נחלבו הם נשאים ברמה גבוהה של casein

מספר זכרים ונקבות בעדר הם גם נשאים הטרזיגוטים או הומוזיגוטיים



Alpha S1 Casein ...

הפרויקט ה-DAN האחרון של גראסהיל

מדוע? בשל הפוטנציאל העצום שטמון בגן קאזאין לשפר את תעשיית החלב

תוצאות הבדיקות של גראסהיל עד כה:

- בדגימות הראשונות ב-VGL/UC Davis 29 מתוך 69 זהו כבעלי הגן ברמה הגבוהה.
 - לפי מסד הנתונים שנוצר באמריקה במטרה לעקוב אחר הניסויים ב-Alpha S1. זה הפעם הראשונה שמרקרים ברמה גבוהה זהו בעזים מסוג זאנן טהורי גזע גם בקנדה וגם בארה"ב.
 - הזכרים של גראסהיל שהם בעלי הגן: 6 מתוך 16 שנחלבו בין 2016-2017 .
 - בנוסף כאלו שעוד לא נחלבו לדוגמת 'Discovery' EX שהוא מרביע מפתח ממשפחת דאיינה\נאדייה אשר נמצא כרגע ברבייה טבעית מסיבית אצלנו בגראסהיל.
 - יעדים עתידיים: עד 2019, כל הזכרים הנחלבים והנקבות התורמות עוברים (מחקר שמתבצע כעת) יהיו נשאי הגן Casein ברמה גבוהה . עד 2025 – כל מי שיהיה מעל גיל 3 יישא בגן.
- מרקרי ה-DNA הבאים שאנחנו רוצים לגלות: יציבות החליבה מספר 1 של הגן של נדייה
- לאחר מכן המרקרים האחראיים על יצורם של נוגדנים.

מרוויחים זמן ע"י ילודת רביעיות





Grasshill Herd Growth



Original Inventory:

May 26, 2001: our first Grasshill bred Saanen doe was registered: "LADY"
born from our first purchased doe 'Shamrock' (1840 kg)
(Lady went on to earn a Canadian Championship, 2400+ kg in 305 days)
- 2002 Inventory: 15 new does were added (purchased)

Purchases:

- March 24, 2006: 8 new purchased does were added
- Total # of Does Purchased: 24 (our original doe 'Shamrock' + 23 others)

Sales:

- 2008: 15 doelings & 3 bucks sold to Trinidad
- 2010: 110 doelings (some pregnant) & 5 bucks sold to Trinidad
- 2012: 169 doelings & 13 bucks sold to Trinidad
- 2015/16: 155 females/males sold to establish 3 'nucleus' herds in Ontario
- 2016: 210 doelings & 15 bucks sold to Trinidad

Closed Herd Status has been maintained since 2006 throughout these Sales

Present Inventory 2016: over 1000 animals (after sales of 659 females,
& at least 400 males sold as herdsires)

כלים נוספים שעדר צריך : יעילות בהזנה

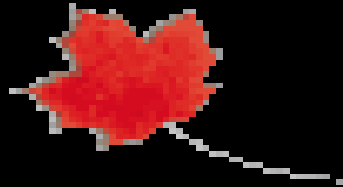


"הרווחים" בזיהוי הגנטיקה החשובה הפקת התועלת מהגנטיקה



- דגש על בררנות וגידול בררני
- השימוש בתיישים הטובים ביותר
- שימוש בזרע עילאי ובעתיד בפונדקאות

שימוש בתיישים הטובים ביותר



כדי למקסם:

- שיפור בגנטיקה ותשואות מכל פרט
- אילן יוחסין יעיל לשימוש בהחלטות הקשורות ברבייה בעתיד
- הכנסות עתידיות (שוק מקומי וייצוא)

השגריר הקנדי האלוף

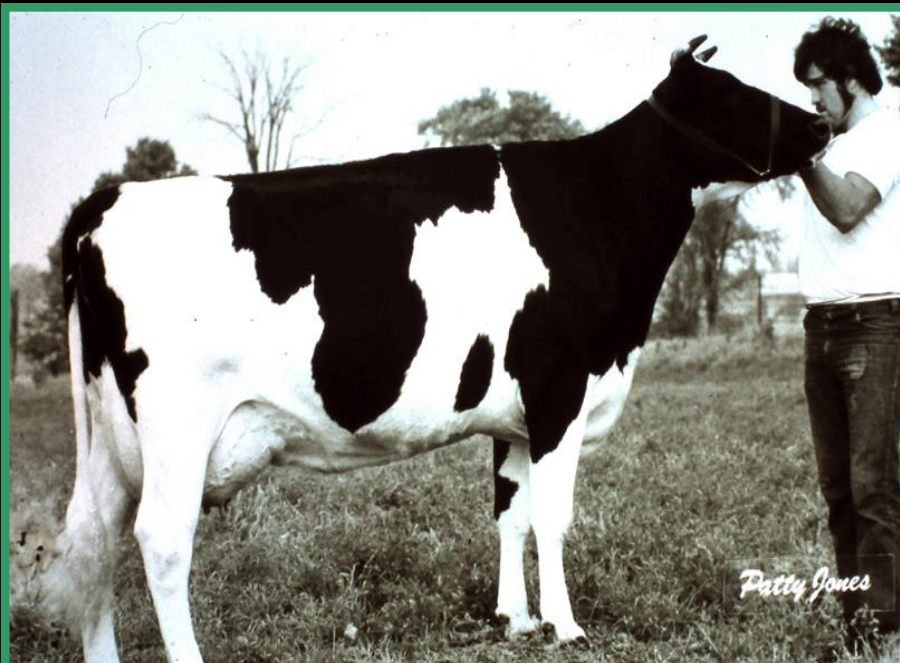


זכר ברמה בינלאומית

לדוגמא הבת דיאנה: (305 days) (8131 lb) 3688 kg



Genetic Progress = Profits



Grasshill Starlite Madge ... VG
1974 & 1978 'World Champion' Producer
(based on 305 day lactation production)
This production level is
10% below 2017 Herd Average



Grasshill Champ's Diana ... VG
2012 'World Champion' Producer ?
(based on 305 day production ... 3688 kg)
Will this production level
= 2030 Breed Average ??

דיאנה מה נוכל עוד לבקש ממך?

אלופה אמתית – יציבות בפוריות ויצרניות גבוהה

אלופת קנדה (העולם?) בייצור חלב

3688 ק"ג ב 305 ימים (12.1 ק"ג ביום)

תפוקת חיים: 17,607 ק"ג ב 5 מחזורי חליבה

7.7 ק"ג/יום של חליבה

בהריון פעם חמישית עם שלישייה, המליטה כבר 12 וולדות






**'Grasshill
Champ's Diana'**
- introducing her
'Family'
to Visitors



Grasshill Champ's 'Diana'

CAN S100700

Born May 23, 2006

Age at Kidding # Years (yr) # Months (mo)	Offspring # Female # Male		Number of Lactations	Days in Milk	Days Dry	Total Milk	Milk/ Day of Total Lactation	305 Day Milk	Milk/ Day of 305 day lactation
#yr #mo	#F	#M	# L	# DIM	# Dry	kg	Kg/day	kg	Kg/day
1yr 0m	0	2	1	578	37	2788	4.8	1481	4.9
2yr 8m	0	2	2	365	36	3028	8.3	2731	9.0
3yr 9m	2	1	3	345	27	3346	9.7	3058	10.0
4yr 9m	1	1	4	387	47	<u>4035</u>	10.4	<u>3688</u>	12.1

The production above is among the Highest in the World for Saanens
& All Breeds... possibly even a World Championship Record ...

5yr 11m	2	1	5	622	58	4410	7.1	2800	9.2
Total:	5	7		2297	205	<u>17,607</u>	<u>7.7</u>		

As shown by the Totals above, Diana's High Production has been Sustained
over her Lifetime: 17,607 kg Total... an average of 7.7 kg/day of milking



... משקיעים בגנטיקה ...



משפחת דיאנה מובילים בקנה מידה עולמי

- סה"כ וולדות ב-5 המלטות: 5 נקבות, 7 זכרים ועוד מספר נכדים ונכדות.

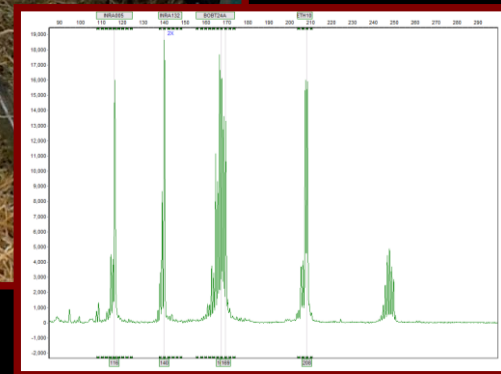
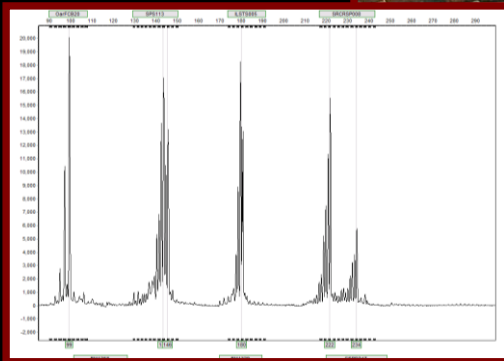
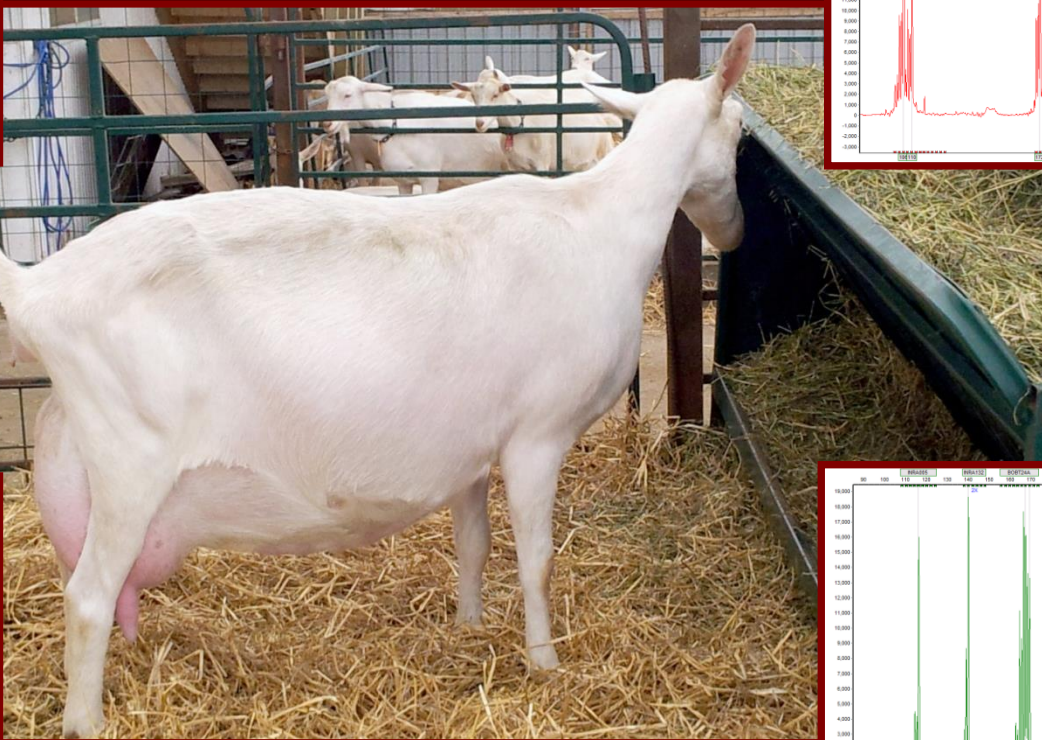
- בנים ונכדים של דיאנה שמשמשים כתיישים מרביעים בגראסהיל 'Dynamite', 'Discovery'

- קרובי משפחה שכרגע נחלב מהם זרע: 'Taser', 'Radar', 'Tornado'

- ההצלחה עם 'משפחה דיאנה' מהווה דוגמא מרכזית לתפקיד המשמעותי של הרבעה סלקטיבית בדרך למקסום הערך הגנטי והרווחיות של העדר. המהירות שבה מספר העזים בעדר יכול לגדול (בענף העיזים גיל התעברות צעיר יותר וההריון קצר יותר), והשקעות קטנות בגנטיקה מוצלחת יכולות להוביל לשיפור בגנטיקה של העדר. הדבר יתורגם לתשואה גדולה לעומת ההשקעה, לאחר תקופה יחסית קצרה.

- העיזים שהושקע בהן "המחיר הגבוהה ביותר" יצרו את הגרעין הגנטי של העדר, שנחשב כהשקעה הרווחית והזולה ביותר. במובנים של תנובה, אורך זמן חליבה, וולדנות.

אילן היוחסין הראשוני של דיאנה ונאדייה נרכש לפני שנים רבות ובכך יצר ושיפר את הגנטיקה בקנה מידה של ייצור והסתגלות בעדר של גראסהיל. הם מהווים את הבסיס של המשפחות גנטיות 'Nadia', 'Champ', 'Diana'. כל אחד מהם מהווה מקור גנטי פעיל גם כיום.



GCCATGTACGAATATG CAGTAAAATGTACTATGTACT

Depth of Pedigree Increases Predictability

The High Production of Champ's daughter 'Diana' is No Surprise given the Credentials of the Other Members of Champ's family (*below*) ...

Champ's Dam: Chablis, EX, 2074 kg 3.8f 2.9p

Full Sister: Chelsea, EX

- 4 consecutive records over 2600 kg (305d)

2 younger full sisters: Chantal & Chinook

- VG, both have 3 consecutive 305d records over 2000 kg, both over 9000 kg total

Maternal sister: Wendalyn

- records up to 2660 kg (305d), 13,910 to date

Daughters of Champ:

- Diana (3688 in 305d): 18,030 kg total
2 daughters over 2000 kg (305 days)
- 13 other Champ daughters also over 10,000 kg

Grand-daughters of Champ:

- Diana's 2 daughters, both over 2000 kg, 1st lact
- 7 granddaughters over 10,000 kg total



**Champ's Youngest
Maternal Sister:**

'Chablis Heiress'

- born June 23, 2008
- 1yr4m: 2232 kg (305d)
- 5700 kg in 809 days

מנצחים בשילוב גנטיקה הסתגלות, ייצור רווחי, התמדה



GRASSHILL DYNAMO KATRINA : born Feb 8, 2009
1yr3m: 1967 kg (305 days), 6470 kg (942 days)

המפתח לשגשוג

גנטיקה עילית עושה את ההבדל

of Goats Required to Surpass a Family's Threshold

'Sustenance' level: (approx. \$100/day in Canada)

(based on total milk volume pricing)

'Miss Average' @ \$.12/day : **833 required**

'Diana' @ \$3.14/day : **32**

'Chelsea' @ \$2.12/day : **47**

'Sweet Pea' @ \$1.44/day : **70**

'Cersten' @ \$1.83/day : **55**

'Nadia' @ \$2.04/day : **49**

'Tiara' @ \$1.98/day : **51**

'Tara' @ 1.68/day : **60**

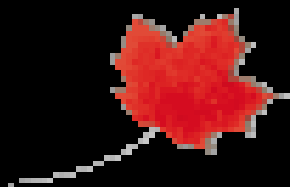
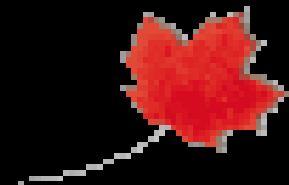
* 'Tara' : @2.36/day : **42**

(*when based on component-weighted pricing)

N.B. Substantiation for these numbers is included at the end of this presentation



הגנטיקה הקנדית



הזדמנויות חדשות בכל רחבי העולם

משלוח עיזים קנדיות לטירנידד

פרויקט מדהים לשיפור גנטיקת העיזים וענף ייצור המזון



מעבירים את היכולות של גראסהיל דרך זרע קפוא



חברי משפחת ה-
Trailblazer/Trendsetter
שבגראסהיל

ולדות שנוצרו עי" הזרע של
Trailblazer/Trendsetter
במקסיקו



Say '**NO**' to Single Trait Selection



Filling the Milk Truck! GRASSHILL NADIA (EX)
One of the World's Highest Producing Goats
Total to date: 44,343 lb ... 20,114 kg

← Grasshill 'Nadia' ... EX-92

Multi-trait Excellence:

Conformation, Production Persistency,
Reproduction Consistency

Total Production (to date) :

20,114 kg (44,343 lb)

World Record Lifetime Producer ?

Offspring (to date): 15 (7 female, 8 male)

- over 100 family members in our herd
are now passing on Nadia's traits

Grasshill 'Sunrise Petal' ... Single Trait Superior 1 lactation production ...

Total Production (to date) : 11,088 kg (24,445 lb)

... 1 lactation ... 1641 days ... 6.8 kg/day

Offspring (to date) : 1 daughter, 1 granddaughter

MAIN LESSONS LEARNED

from the 'COW WORLD' ...



- Say “NO” to Single Trait Selection
- Avoid the Economic Pitfall of Commodity Products
- Avoid Loss of Diversity
- Use Genome & Common Sense

GRASSHILL NAVIGATOR SONNY - SEW 391F



Grasshill Sheik Navigator EX ... SEW 15C
... Sonny's Sire ...

GRASSHILL NAVIGATOR SONNY... SEW 391F

Nearest 4 Dam Prod Avg (305d): 1798 kg 4.0f 3.3p

Homozygous Scrapies Resistant ...
Homozygous High Casein !!!

N.B. All Production Amounts are listed in Kilograms (kg)-
To convert to LB : multiply by 2.205 (1000 kg = 2205 lb)



1st lact does, Mexico, sired AI by semen from Full Brothers
'Trendsetter' & 'Trailblazer' (the sire of 'Nightrider')



< Paternal Sister to
'Nightrider' ...
An Example of
A.I. Does in Mexico
sired by
Trailblazer/Trendsetter
Semen
(our appreciation to
the breeder in Mexico who
has provided this photo)

'Sonny'... a buck with Superior Production,
Conformation & Component Credentials... also, DNA verified
Homozygous 'High' Casein & Scrapie Resistance
N.B. Photos included at the bottom left of this pedigree
show examples of actual results from A.I. inseminations
done in Mexico using this family's genetics ...

<- GRASSHILL SHEIK NAVIGATOR -[CAN]S141572- EX
Nearest 4 Dam Prod Avg (305d): 2053 kg 3.4f 2.9p
Homozygous Scrapies Resistant... Heterozygous High Casein
Great Potential... from our 'Nadia' family (below)

Nadia: Full Sister to Natalie's dam 'Nadine' -->



Grasshill Nadia - EX 92 - 20,114 kg
World's Highest Total Milk Production?

Sheik's Paternal Sister (below): 'Honey Dip' EX, 2000 kg 3.7f 3.3p



GRASSHILL SHEIK SUNCATCHER -[CAN]S141350-VG-88
VG-88; 1yr9m (305 days): 900 kg 4.8f 3.8p

Homozygous Scrapies Resistant ...
Heterozygous High Casein !!!

Maternal Sisters to 'Suncatcher':

'Slumber', EX... 2yr11m, 305d proj: 1190 kg 5.4f 3.0p (305d)
'Sugar Fairy', VG ... 1150 kg 4.0f 3.6p (305d)

Paternal Sisters to 'Suncatcher':

'Nectar', VG... 2yr11m, 305d proj: 1780 kg 4.3f 3.6p
'Nymph', VG ... 2yr7m, 305d: 1260 kg 4.2f 3.5p
'Sarah', VG... 3yr5m, 305d proj: 1760 kg 3.2f 3.4p
'Dynamo', VG... 1yr11m, 305d proj: 1460 kg 4.4f 3.4p

GRASSHILL KNIGHT PRINCE SHEIK EX-95 -[CAN]S120749

Nearest 4 Dam Prod Avg (305d): 1841 kg 4.2f 3.3p



Natalie's Sire:
Grasshill Honour's
Champ EX
Sire of: 'Diana' VG
18,030 kg (total)
3688 kg (305 d)
World's Highest
Saanen 305 days?
14 Daughters

GRASSHILL C NATALIE -[CAN]S104188- EX; 13,810 kg
3 lacts over 2200 kg (305d); Highest 305d: 2605 kg



Natalie's Pat Sister: Diana VG-88; Total: 18,030 kg
3688 kg (305d) -- average per day > 12 kg (26 lb)

GRASSHILL KNIGHT PRINCE SHEIK -[CAN]S120749, EX-95



Grasshill Knight Prince Sheik SEW 308Y, EX-95

GRASSHILL NIGHT SWEET DREAMS -[CAN]S120581-EX
1840 kg (305d) 3.6f 3.3p; 5 'high casein' progeny



Full Sisters:
'Shnooks'
'Sweet Pea'
... Both EX ...
Over 10,000 kg

GRASSHILL KNIGHT PRINCE -[CAN]S110825-VG-88

Maternal Brother : 'Cornerstone'
#1 Saanen Buck Canada; Conformation Index

GRASSHILL TITAN SHANGRILAH -[CAN]S115702-EX
1800 kg (305d) 4.0f 3.3p; Total: 8480 kg (still milking)

<- GRASSHILL HONOUR'S CHAMP -[CAN]S98616- EX
5 Maternal Sisters : all of them over 2100 kg (305 days)
Full Sister : Chelsea EX; 4 lact avg: 2506 kg



Grasshill Nadine EX, full sister to Nadia EX, 20114 kg

GRASSHILL KNIGHT PRINCE -[CAN]S110825-VG-88

Knight Prince's Maternal Sisters:

Cersten EX, 2295 kg (305d) 4.0f 3.0p; Life: 14380 kg
Caitlyn VG, 2215 kg (305d) 3.7f 3.3p; Life: 6395 kg
Princess VG, 1826 kg (305d) 3.9 3.1; Life: 11,185 kg

GRASSHILL TITAN SHANGRILAH -[CAN]S115702-EX
1800 kg (305d) 4.0f 3.3p; Total: 8480 kg (still milking)

GRASSHILL T NIGHTRIDER -[CAN]S110810- a 'Trailblazer' son
-Maternal Brother to 'Nadia' EX -20,114 kg, 44,344 lb











Nightrider's
3/4 Sister ...
'Grasshill
Trailblazer
'Nemesis'
1yr8m: 1913 kg
4.1 fat
2.9 protein
(305 days)

<-- GRASSHILL SWEET PEA -[CAN]S94203- EX
1847 kg 4.3f 3.3p (305 d); Life: 13,800 kg

<-- Sweet Pea's Full Sister : 'Shnooks', also EX
2158 kg 3.5f 2.9p (305 d); Life: 10,690 kg
Maternal Sisters : 'Gypsy', VG-89, 1803 kg; Life: 9248 kg
'Tara', VG-89, 2430 kg 4.7f 3.8p; Life: 10,486 kg









האוסף שנועד למצות את הפוטנציאל המלא של המרביעים כדי להבטיח גנטיקה איכותית ולאפשר מעקב מהיר

לדוגמא קטלוג זירמה

February 2018 ... Grasshill Saanen Buck Semen Catalogue ... page 1 (of 2)																														
QUANTITY	BORN	Nearest 4 Dam			PHOTO	BUCK			SIRE	Sire's Dam Prod			DAM		Dam's Prod-305d				MIDLINE	M Gr/Dam	Mat Gr/Dam's Prod				MIDLINE	M Gr/Dam	M Gr/Dam's Prod			
		Best Prod Aug-2016				NAME	REG #	TATTOO		(305 days)			L	MIDG	NP	NP	(305 days)				L	MIDG	NP	NP						
		MIDG	NP	NP						M	NP	NP					L	MIDG									NP	NP	L	MIDG
* Unlimited Quantity Available	1Apr10	1817	3.9	3.2		Sunnyside	5120603	184	X	NIGHTTRIDER	1995	3.2	2.9	84U	SPICE	1	2134	4.2	3.2	DYNAMO	SHROCKS	2158	3.5	2.9	LIGHTNING	JAMBOCHA	980	4.7	3.8	
* Unlimited Quantity Available	5/4/2013	2497	4.0	3.3		Tornado	5134156	288	A	DYNAMITE	3688	2.9	2.9	222W	TIPTOP	1	1720	4.3	3.3	DETONATOR	TIPPERARY	2151	4.1	3.3	CHUMP	TARA	2430	4.7	3.8	
Sold Out	6/12/2011	1841	4.2	3.3		Sheik	5120749	308	Y	KPRINCE	1804	4.8	3.2	33X	SHANGHAI	1	1800	4.0	3.3	TITAN	SHERWOOD	1912	3.7	3.5	SHERWOOD	SWEET PEA	1847	4.3	3.3	
	6/27/2015	2271	3.6	3.1		Xmas Comet	5140852	349	C	CLOVERLEAF	2572	3.2	3.0	539Z	WIM	2	2020	4.0	3.1	NARRATOR	TYRONNE	2	2222	3.5	3.2	CHUMP	TARA	NA	NA	NA
	1/26/2015	2079	3.8	3.1		Winner	5141346	31	C	SHEIK	1800	4.0	3.3	175U	WIM	1	1779	4.2	3.0	DYNAMO	WENDALYN	2662	3.0	3.0	LIGHTNING	CHARLES	2074	3.8	2.9	
	1/26/2012	2227	3.8	3.1		Cloverleaf	5125305	33	Z	KPRINCE	1804	4.8	3.2	62U	CINNAMON	1	2572	3.2	3.0	DYNAMO	CHELSEA	2459	3.3	3.3	HONOUR	CHARLES	2074	3.8	2.9	
	4/16/2015	1922	4.0	3.3		Sentinel	5141564	169	C	SUNNY	2130	4.1	3.2	33X	SHANGHAI	2	1800	4.0	3.3	TITAN	SHERWOOD	1912	3.7	3.5	SHERWOOD	SWEET PEA	1847	4.3	3.3	
	1/16/2012	2167	3.8	3.1		Whiplash	5133928	187	Z	TURBO	2151	4.1	3.3	175U	WIM	1	1779	4.2	3.0	DYNAMO	WENDALYN	2662	3.0	3.0	LIGHTNING	CHARLES	2074	3.8	2.9	

... Detailed Extended Pedigrees on each of these bucks are attached at the end of this presentation ...

קשה למצוא מרביעים טובים, אנחנו ממעיטים בערכם לעיתים קרובות מידי ולא מעריכים נכון
 כמה זמן הם יהיו זמינים לרבייה טבעית
 לדוגמא קטלוג זירמה חלק 2

February 2018 ... Grasshill Saanen Buck Semen Catalogue ... page 2 (of 2)																																						
QUANTITY	BORN	Nearest 4 Dam			BUCK				SIRE			Dam's Prod			DAM				Dam's Prod-305d				MGSire				Mat Gr/Dam's Prod				MGSire				Mat Gr/Dam's Prod			
		Best Prod Avg-305d			PHOTO	NAME	REG #	TATTOO	(305 days)			L	(305 days)			L	(305 days)			L	(305 days)			L	(305 days)			L	(305 days)									
		Mkg	NF	NP					M	NF	NP		Mkg	NF	NP		Mkg	NF	NP		Mkg	NF	NP		Mkg	NF	NP											
	4/14/2015	1718	3.9	3.3		Succesor	5141561	172	C	CLOVERLEAF	2572	3.2	3.0	253A	SUCNETTE	1	1180	4.5	3.6	BILBORADO	SUCKE	1	1280	5.1	3.7	TITAN	SUGAR	1841	2.6	2.9								
Sold Out	4/25/2015	2053	3.4	2.9		Navigator	5141572	15	C	SHIK	1800	4.0	3.3	28T	NATALIE		2600	3.0	2.7	CHAMP	NADINE		1817	3.4	2.8	SAMUEL	NAOMI	1995	3.2	2.9								
	8/11/2015	2064	4.0	3.2		Cash	5141568	419	C	SUMMIT	2130	4.1	3.2	29T	CATALINA	2	2107	3.5	3.1	KNIGHT	CAITLYN	2	2215	3.7	3.3	SAMUEL	CINDER	1804	4.8	3.2								
	1/11/2015	1984	3.4	3.2		Sheriff	5141562	287	C	TERRAIN	2451	3.2	3.2	38B	SHADE	1	1380	3.6	3.4	DURACELL	SHADOW	1	2090	3.5	3.2	DEGO	SHAYLA	2073	3.2	3.0								
Sold Out	4/7/2015	1926	3.9	3.2		Taser	5141575	323	C	TOUCHDOWN	2020	4.2	2.8	168Y	TAVITI	1	1278	5.0	3.7	BUCKAROO	TIA MARIA		1955	3.1	3.0	SPRINCE	TARA	5	2451	3.2	3.2							
Sold Out	7/15/2015	2122	3.5	3.0		Blueprint	5141567	389	C	SUMMIT	2130	4.1	3.2	59T	BLUEBELL		1933	3.4	3.1	LAD	BELLE	3	2258	3.5	2.9	LIGHTNIN	NASTURT	2166	3.1	2.8								
	4/30/2015	2073	3.6	3.2		Night Patrol	5141569	440	C	SHIK	1800	4.0	3.3	106X	NIGHTBLASS	1	1410	3.6	3.1	NIGHTRED	LASS	4	2609	3.2	3.0	HONOUR	S LADY	2471	3.7	3.2								
	7/4/2015	1836	3.6	3.1		Radar	5141577	369	C	DISCOVERY	1410	3.8	3.1	142X	RASPBERRY	2	1580	3.6	3.1	PARAMOUR	BLUEBERRY		2420	3.4	3.2	TNOVA	BLUEBELL	1933	3.4	3.1								

... Detailed Extended Pedigrees on each of these bucks are attached at the end of this presentation ...

GRASSHILL KNIGHT PRINCE SHEIK -[CAN]S120749- SEW 308Y

Knight Prince's Maternal Sisters:

Cersten EX, 2295 kg (305d) 4.0 3.0; Life: 14380 kg
 Caitlyn VG, 2215 kg (305d) 3.7f 3.3p; Life: 6395 kg
 Princess VG, 1826 kg (305d) 3.9 3.1; Life: 11,185 kg
 Lad's Cinderella VG, 1630 kg (305d) 3.8f 3.1p



Grasshill Knight Prince Sheik SEW 308Y, EX-95

G RASSHILL KNIGHT PRINCE -[CAN]S110825-VG-88

Maternal Brother: 'Cornerstone' (photo below)
 #1 Saanen Buck Canada:

Conformation Index



Grasshill Tribute Cornerstone
 (Maternal Brother to 'Knight Prince')

GRASSHILL KNIGHT PRINCE SHEIK - EX-95

-[CAN]S120749- SEW 308Y

Nearest 4 Dam Prod Avg (305d): 1841 kg 4.2f 3.3p

Homozygous Scrapies Resistant

N.B. All Production Amounts are listed in Kilograms (kg)

To convert to LB: multiply BY 2.205 (1000 kg = 2205 lb)



Grasshill KP Honey Dip: 2000 kg (305d) 3.7f 3.3p
 ... Sheik's EX Paternal Sister ...

G RASSHILL TITAN SHANG RILAH -[CAN]S115702- EX

1800 kg (305d) 4.0f 3.3p; Total: 7980 kg (still milking)



Shang Rilah's Dam:
 'Shenandoah' EX
 1912 kg (305d)
 3.7f 3.5p
9230 kg Total
 (still milking)



Grasshill Honour's
 Champ EX
 sire of: 'Diana' VG
 3688 kg (305d)
 World's Highest?

G RASSHILL CHAMP'S KNIGHT -[CAN]S101798-

Maternal Sister: 'Nadia' EX, 20,114 kg (44,344 lb)



Grasshill Nadia - EX-92 - 20,114 kg
 World's Highest Total Milk Production?

SWEATING ACRES F. CINDERELLA -[CAN]S81709-



'S. A. Cinderella' VG
 1804 kg (305d) 4.8 3.2
 4 daughters: 1 EX, 3 VG
 Princess: 11,160 kg total
 Cersten: 14,380 kg total

G RASSHILL DYNAMO TITAN -[CAN]S110857-



Grasshill Dynamo Katrina - 10,390 kg total

G RASSHILL SHENANDOAH -[CAN]S110905- EX

1912 kg (305d) 3.7f 3.5p; Total: 9230 kg (still milking)



Full Sisters:
 'Shooks'
 'Sweet Pea'
 ... both EX ...
Over 10,000 kg

G RASSHILL HONOUR'S CHAMP -[CAN]S88618- EX

sire of: 'Diana'; 3688 kg (305d); Life: 18,030 kg



Champ's Dam: 'Chablis' EX
 2074 kg (305d) 3.8 2.9
 Life: 10,874 kg
 3 daughters: 2 EX, 1 VG
 - all over 2100 kg (305d)

G RASSHILL LIGHTNING NAOMI -[CAN]S85774-

VG-89, 1995 kg (305d) 3.2f 2.9p; Life: 10,060 kg

Dam: 'Nalad' VG-89, 2353 kg (305d); Life: 9871 kg

Daughters: 'Nadine' EX, 1817 kg; Life: 9010 kg

'Nouvelle' VG, 2010 kg (305d); Life: 8380 kg

'Nadia' VG-88, 2325 kg (305d); 20,114 kg (total)

Dry only 187 days since 1st kidding 2006. Still milking!

ANDANTE FANTASTIC'S FIERO -[CAN]S70139-

3 EX daughters at Grasshill, 2 over 9500 kg (Total)

SWEATING ACRES C CINDY -568137-

G RASSHILL LAD'S DYNAMO -[CAN]S104193-

-24 high production daughters

4- Daughters: 'Katrina', 1960 kg (305d)

Cinnamon', 2570 kg (305d) (Cinnamon's dam)

Toffee': 14,240 kg lifetime etc

G RASSHILL TIARA -[CAN]S97754- EX

2451 kg (305d) 3.2f 3.2p; Lifetime: 14,440 kg

Daughter: 'Tizz', 2440 kg (305d) 3.3f 2.7p

3 lactations over 2000 kg (305d); 10,600 kg Total

Tiara's Dam: 'Grasshill Leprechaun's Tara', VG-89

... one of our Highest Producers for Milk + Components ...

2430 kg (305d) 4.7f 3.8p; 10,486 kg (total)

Tiara's Maternal Sister: 'Tipperary' EX

2151 kg (305d) 4.1f 3.3p; 11,160 kg (total to date)

G RASSHILL CHAMP'S SHENANIGAN -[CAN]S101872-

3 daughters avg (305d): 2023 kg; Highest: 2680 kg

G RASSHILL SWEET PEA -[CAN]S94203- EX

1847 kg 4.3f 3.3p, 13,800 kg Total (to date)

Full Sister: 'Shooks', also EX

2158 kg 3.5f 2.9p (305 d); 10,690 kg Total

Mat Sisters: 'Gypsy', VG-89, 1803 kg; Life: 9248 kg

'Tara', VG-89, 2430 kg 4.7f 3.8p; Life: 10,486 kg

Dam: 'Jamoche' EX, 980 kg (305d) 4.7f 3.8p

GRASSHILL NIGHT PATROL -[CAN]S141569- SEW 440C



Grasshill Night Patrol VG-88 ... SEW 440C

GRASSHILL NIGHT PATROL ... VG-88
-[CAN]S141569- SEW 440C

Nearest 4 Dam Prod Avg (305d): 2073 kg 3.8f 3.2p

Heterozygous Scrapie Resistant 'RS'

N.B. All Production Amounts are listed in Kilograms (kg).
To convert to lb: multiply by 2.205 (1000 kg = 2205 lb)



Example of
AI. Done in Mexico
sired by
Trailblazer/Trendsetter
Semen

(our appreciation to
the breeder in Mexico who
has provided this photo)



AI. lact does, Mexico, from Trailblazer/Trendsetter semen

Knight Prince's Maternal Sisters:
Cristian EX, 2195 kg (305d) 4.0f 3.0p; Ufa: 14380 kg
Caitlyn VG, 2215 kg (305d) 3.7f 3.3p; Ufa: 8895 kg
Princess VG, 1826 kg (305d) 3.9f 3.1p; Ufa: 11,183 kg
Lad's Cinderella VG, 1630 kg (305d) 3.8f 3.1p

GRASSHILL KNIGHT PRINCE SHEIK -[CAN]S1014- EX-95
Superior Production, Conformation & Components



Grasshill Knight Prince Sheik EX-95 ... SEW 308f

Night Patrol's Pedigree combines 3 of our
Top Production Families: "Nadia", "Lady", "Trailblazer"



Grasshill Nadia, EX-92 - World's Highest Total Production?

"Nadia" ...
a World Leader
in Total Milk
Production &
Persistence
Current Total
(still milking):
20,114 kg
= 44,344 lb

GRASSHILL NIGHT RIDER LASS -[CAN]S10059- EX
Syr Dam: 1411 kg 3.6f 3.2p (305d)

Lass's Full Sister - Syr Dam: 1724 kg 3.7f 3.1p (305d)
Lass's Daughter (the Maternal Sister to "Night Patrol"):
"Grasshill Doreen/Lena", 2220 kg (3yr11m 283d prod)



Lass's Maternal Granddam: Lady EX, 2473 kg 3.7f 3.2p

GRASSHILL KNIGHT PRINCE -[CAN]S10025- VG-88
Maternal Brother: "Cornestone" (photo below)
#1 Saanen Buck Canada: Conformation Index



Prince's Mat Brother: Grasshill Tribute/Cornestone

GRASSHILL TITAN SHANGRI LAH -[CAN]S115702- EX
1800 kg (305d) 4.0f 3.3p; Total: 7980 kg (still milking)



Shangri la's Dam:
'Shenandoah' EX
1912 kg (305d)
3.7f 3.3p
9540 kg Total
(still milking)

GRASSHILL T NIGHTRIDER -[CAN]S110810-
Maternal Brothers: "Nadia" EX-20, 114 kg, 44,344 lb



Nightrider's
3/4 Sister ...
'Grasshill'
Trailblazer
Nemo ...
3yr Dam: 1813 kg
4.1f 3.1p
220 days

GRASSHILL HONOUR'S LASS -[CAN]S97663- VG-88
Syr Dam: 2228 kg 3.7f 3.1p (305d); Total: 11,570 kg
daughter "Toro Lassie": 1885 kg 3.6f 3.3p (305d)
Syr: "Toro's Lad", classified "Excellent"

Lass's Maternal Sisters: "Chinook" & "Chantal", both VG
- both with 3 consecutive lactations over 2000 kg (305d)
- "Chantal" EX, 2459 kg (305d); Total: 10,857 kg
Chantal's 4 Consecutive Lact Averages (305d): 2506 kg
- "Patricia" EX, 2862 kg (305d); Total: 14,420 kg

GRASSHILL CHAMP'S KNIGHT -[CAN]S101798-
Maternal Sisters: "Nadine" EX, 1817 kg; Ufa: 9010 kg
"Nouvelle" EX-92, 2010 kg (305d); Ufa: 8820 kg
"Nadia" EX-92, 2323 kg (305d); 20,114 kg (total)

SWEATING ACRES F. CINDERELLA -[CAN]S81709-



'S. A. Cinderella' VG
1804 kg (305d) 4.8f 3.2p
4 daughters: 1 EX, 3 VG
Princess: 11,180 kg total
Conform: 14,530 kg total

GRASSHILL DYNAMO TITAN -[CAN]S110837-
Dam: "Tiana" EX, 2451 kg (305d); Ufa: 14,440 kg
Granddam: "Grasshill Leprachaun's Tara", VG-89
2430 kg (305d) 4.7f 3.8p; 10,486 kg (total)

Tiana's Maternal Sister: "Tippeary" EX
2151 kg (305d) 4.1f 3.3p; 11,160 kg (total to date)

GRASSHILL SHENANDOAH -[CAN]S110005- EX-92
1812 kg (305d) 3.7f 3.3p; Total: 9540 kg (still milking)
Her Dam: EX, 1847 kg 4.3f 3.3p; Total: 13,800 kg
Dam's Full Sister: EX, 2158 kg (305d); Total: 10,690 kg

GRASSHILL CHAMP'S TRAILBLAZER (S101805) VG-89
Full Sister: EX, 2151 kg 4.1f 3.3p (305d)

Total Production as of Dec. 2016: 11,160 kg

Maternal Sister: EX, 2451 kg; Ufa: 14,440 kg
Dam: Tara, VG-89, 2430 kg 4.7f 3.8p; Ufa: 10,486 kg

GRASSHILL LIGHTNING NAOMI -[CAN]S85774-
VG-89; 1995 kg (305d) 3.2f 2.9p; Ufa: 10,080 kg
- 3 Maternal Sisters over 10,000 kg Total
Dam's: "Nadine" EX, 1817 kg (305d); Ufa: 9010 kg
Nadia EX-92, Ufa: 20,114 kg (World's Highest)

GRASSHILL JAKLYN'S HONOUR -[CAN]S90114- VG
Dam: "Hy-Crest Juno/Jaklyn" EX, 1524 kg 4.0f 3.4
Former All-Canadian, RAWP Grand Champ, Best Udder
K-Honour has several top production/conformation daughters
Granddam: "Champ" EX, sire of "Diana", VG-88
Diana: 3688 kg (305d); Total 18,030 kg = 39,749 lb

GRASSHILL SHAM ROCK'S LADY -[CAN]S74441- EX
(pictured on the far left) 2471 kg (305d) 3.7f 3.2p
Lady's Dam: "Shamrock" EX, 1840 kg (305d) 3.4f 3.3p
Lady's Maternal Sisters: "Shania" & "Shillelagh", both EX
3 maternal sisters over 10,000 kg total

GRASSHILL SHEIK NAVIGATOR -[CAN]S141572- SEW 15C

Knight Prince's Maternal Sisters:

Cersten EX, 2295 kg (30sd) 4.0 3.0; Life: 14380 kg
Caitlyn VG, 2215 kg (30sd) 3.7f 3.3p; Life: 6395 kg
Princess VG, 1825 kg (30sd) 3.9 3.1; Life: 11,185 kg
Lad's Cinderella VG, 1630 kg (30sd) 3.8f 3.1p



Grasshill Knight Prince Sheik SEW 30BY, EX-95
... Navigator's Sire ...

<- GRASSHILL KNIGHT PRINCE SHEIK-[CAN]S120749, EX Superior Production, Conformation & Components



Sheik's Granddam: Shenandoah EX

GRASSHILL SHEIK NAVIGATOR (photo below) -[CAN]S141572- SEW 15C

Nearest 4 Dam Prod Avg (30sd): 2053 kg 3.4f 2.9p

Homozygous Scraples Resistant

N.B. All Production Amounts are listed in Kilograms (kg)
To convert to LB: multiply by 2.205 (1,000 kg = 2,205 lb)



Grasshill Sheik Navigator VG SEW 15C

GRASSHILL NATALIE-[CAN]S104188- EX — Another High Producer from Nadia family — 3 lacts over 2200 kg (30sd); Highest 305d: 2505 kg Total to Date: 13,680 kg (still milking)



Natalie's Dam: 'Nadine' EX; 9010 kg

GRASSHILL KNIGHT PRINCE-[CAN]S110825-VG-88 Maternal Brother: 'Cornerstone' (photo below) #1 Saanen Buck Canada: Conformation Index



Grasshill Tribute Cornerstone
(Maternal Brother to 'Knight Prince')

GRASSHILL TITAN SHANG RILAH-[CAN]S115702- EX 1800 kg (30sd) 4.0f 3.3p; Total: 7980 kg (still milking)



GRASSHILL HONOUR'S CHAMP-[CAN]S88616- EX



GRASSHILL NADINE-[CAN]S97759- EX



GRASSHILL CHAMP'S KNIGHT HT-[CAN]S101798- Maternal Sister: 'Nadine' EX, 1817 kg; Life: 9010 kg 'Nouvelle' VG, 2010 kg (30sd); Life: 8520 kg 'Nadia' EX-92, 2325 kg (30sd); 20,114 kg (total)

SWEATING ACRES F. CINDERELLA-[CAN]S81709-



GRASSHILL DYNAMO TITAN-[CAN]S110857- Dam: 'Tara' EX, 2451 kg (30sd); Life: 14,440 kg Granddam: 'Grasshill Leprechaun's Tara', VG-89 2430 kg (30sd) 4.7f 3.8p; 10,485 kg (total)

Tara's Maternal Sister: 'Tipperary' EX
2151 kg (30sd) 4.1f 3.3p; 11,160 kg (to to to date)

<- GRASSHILL SHENANDOAH-[CAN]S110905- EX 1912 kg (30sd) 3.7f 3.5p; Total: 9540 kg (still milking)

GRASSHILL JAKLYN'S HONOUR-[CAN]S80114- VG-88 9 daughters over 10,000 kg; Dam: Jaklyn EX (below)



KAMPFIRE C POLLONADE'S CHABUS-[CAN]S76726- EX, 2074 kg (30sd) 3.8f 2.9p; Total: 10,874 kg 5 daughters: 2 EX, 3 VG, all over 2100 kg (30sd) 'Chelsea' (Champ's full sister), 4 lact avg: 2505 kg EX, 2459 kg (30sd) 3.3f 3.3p; Total: 10,657 kg

GRASSHILL JAKLYN'S SAMUEL-[CAN]S94227- VG Daughters: 6 EX, 9 VG; 9 over 10,000 kg Lifetime

GRASSHILL LIGHTNING NAOMI-[CAN]S85774- VG-89; 1995 kg (30sd) 3.2f 2.9p; Life: 10,050 kg - 3 Maternal Sisters over 10,000 kg Total Dam: Nadine EX, 1817 kg (30sd) Life: 9010 kg Nadia EX-92, Life: 20,114 kg (World's Highest?)

GRASSHILL TERRAIN SHERIFF - [CAN]S141562- SEW 287C



Grasshill Target N Buckaroo VG



Example of
All Does in Mexico
sired by
Trailblazer/Trendsetter
Semen

(our appreciation to
the breeder in Mexico who
has provided this photo)

GRASSHILL BUCKAROO TERRAIN - [CAN]S134247-



"Tipperary" EX
2151 kg (sosa)
4.1F 3.3p
Total to Date:
11,160 kg

Dam: "Tara" VG-88
2430 kg 4.7F 3.8p
10,486 kg (total)

Full Brothers: Target
Trailblazer, Trendsetter



1st lact does, Mexico from Trailblazer/Trendsetter semen

GRASSHILL TERRAIN SHERIFF

-[CAN]S141562- SEW 287C

Nearest 4 Dam Prod Avg (305d): 1964 kg 3.4F 3.2p

Ho mzygous Scrapies Resistant "RR"

N.B. All Production Amounts are listed in Kilograms (kg)

To convert to LB: multiply by 2.205 (1000 kg = 2205 lb)



Grasshill Terrain Sheriff ... SEW 287C



Shayla's Maternal Sisters "Lady" EX, 2471 kg 3.7F 3.2p

GRASSHILL DURACELL SHADE - [CAN]S140880-

1yr 1m: 1380 kg (sosa) 3.6F 3.4p



Shayla's Maternal Sister: "Shania" EX
1990 kg (305d) 3.3F 3.3p; 11,240 kg Total

4-Target's Full Brothers: Trailblazer & Trendsetter

GRASSHILL TARGET N BUCKAROO VG-88

-[CAN]S130801- (pictured for left)



Grasshill Narda - EX-94-20,114 kg
World's Highest Total Milk Production?

GRASSHILL TIARA - [CAN]S87754- EX

2451 kg (305d) 3.2F 3.2p; Lifetime: 34,440 kg
Daughters: Tira, 2440 kg (sosa); 10,600 kg Total
Tiff, 1yr 1m 305d: 1934 kg 3.8F 3.3p

Narda's Maternal Sister: "Tipperary" EX

2151 kg (sosa) 4.1F 3.3p; 11,160 kg (total to date)

Narda's Paternal Sisters: 8 over 11,000 kg Total

cg "Andrea" VG 2206 kg (305d) 3.7F 3.1p; Total: 13,100 kg

GRASSHILL CORNERSTONE DURACELL

-[CAN]S127296- His Sire, "Cornerstone" (below)

#1 Seamen Buck Canada:
Conformation



Duracell's Sire: Grasshill Tribute Cornerstone

GRASSHILL DIEGO'S SHADOW - [CAN]S111870-

2030 kg (305d) 3.5F 3.2p; 8410 kg Total (Tadde's)

Her Maternal Brother:

"Grasshill Toro's Shawnee" *5, VG-88

Best Buck in Show, 2007 Canadian Buck Classic

Sire of:

"Angel" EX-96, Canada's Highest Score Doe (Kid)

"Allison" EX-94, Canada's 3rd Highest Score Doe

GRASSHILL TARGET N OVA - [CAN]S104210-

Full Sister: "Nouvelle", VG, 2010 kg (sosa) 3.3F 3.0p

Paternal Sister: "Dewdrop" VG, 2140 kg (sosa) 4.3F 3.0p

K - Maternal Sister: "Nadia", VG, 19,830 kg = 43,718 lb

GRASSHILL LAD'S BLUEBELL - [CAN]S104213- EX

1993 kg (sosa); 10,690 kg to date (4/21 milking)
Dam: 2258 kg (sosa) 3.3F 2.9p; Lifetime: 13,400 kg
Granddam: EX, 2166 kg (sosa); Total: 10,746 kg

GRASSHILL JAKLYN'S SAMUEL - [CAN]S84227- VG



Samuel's Dam:
My-Crest Junior's
Jaklyn EX
All-Canadian
RAWF
Grand Champ
Best Udder

GRASSHILL LEBRECHAU'S STARA - [CAN]S85764

VG-88 2430 kg (sosa) 4.7F 3.8p; 10,486 kg Total

GRASSHILL TRIBUTE CORNERSTONE - [CAN]S111882-

#1 Seamen Buck Canada: Conformation Index

Cornerstone's Dam: "Cersten" EX; Life: 14,380 kg

2yr 1m sosa: 2285 kg 4.0F 3.0p

GRASSHILL CHAMP'S DESIREE - [CAN]S100706-

2510 kg (sosa) 3.3F 2.9p; Total: 11,280 kg

Maternal Sister: "Diana", Total: 18,030 kg (38,748 lb)

4yr 9m 305d: 3688 kg 2.9F 2.9p (8131 lb)

(Diana's 305 day milk production is among the
Highest in the World recorded for dairy goats)

Sire: "Champ" EX, 15 daughters over 10,000 kg to 18

Champ's Full Sister: "Chelsea" EX; 4 lact avg: 2306 kg

GRASSHILL SCIMITAR DIEGO - [CAN]S110778-

Dam: "Dereah" EX; 1869 kg 4.2F 3.2p; Total: 13,480 kg

GRASSHILL HONOUR'S SHAYLA - [CAN]S84208-

VG-88, 2075 kg (305d) 3.2F 3.3p; Total: 14,280 kg

Her Dam: "Shamrock" EX, 1840 kg (305d) 3.4F 3.3p

Her Maternal Sister: 3 EX, 3 over 10,000 kg Total

- "Lady" EX, 2471 kg (305d) 3.7F 3.2p

- "Shania" EX, 1990 kg; Total: 11,240 kg

- "Shilleagh" EX, Total: 10,370 kg

GRASSHILL SUMMIT SENTINEL -[CAN]S141564- SEW 169C



Grasshill Nightrider Summit EX-96
... Sentinel's Sire ...



Grasshill Trailblazer Nemesis 1913 kg

<- GRASSHILL NIGHTRIDER SUMMIT -[CAN]S120603
His Dam's Paternal Sister is pictured below ...



Grasshill Summit Sentinel SEW 169C, VG



Grasshill Dynamo Katrina- 10,390 kg total

GRASSHILL SUMMIT SENTINEL VG
-[CAN]S141564- SEW 169C

Nearest 4 Dam Prod Avg (305d): 1922 kg 4.0f 3.3p

Heterozygous Scrapies Resistant

N.B. All Production Amounts are listed in Kilograms (kg)
To convert to LB: multiply by 2.205 (1000 kg = 2205 lb)



Grasshill Summit Sentinel SEW 169C, VG



Sentinel's Granddam 'Shenandoah' EX

GRASSHILL TITAN SHANGRILAH -[CAN]S115702- EX
1800 kg (305d) 4.0f 3.3p; Total: 7980 kg (still milking)



Shangrilah's Dam:
'Shenandoah' EX
1912 kg (305d)
3.7f 3.5p
9230 kg Total
(still milking)

GRASSHILL T NIGHTRIDER-[CAN]S110810-
<- Nightrider's 3/4 Sister: 'Nemesis' (pictured left)
1yr Bm: 1913 kg 4.1f 2.9p (305d)
His Mat Sister: 'Nadia' (below) - a World Leader in
Total Milk Production & Persistency



Grasshill Nedie - EX-92 - 20,114 kg

GRASSHILL BABY SPICE... (pictured on right) -->
-[CAN]S110828- 2134 kg (305d) 4.2f 3.2p
<- Her Paternal Sister: 'Katrina', Life: 10,390 kg
Her Dam: 'Baby Shnooks' EX (pictured below)



Grasshill Baby Shnooks- EX, 2158 kg

GRASSHILL DYNAMO TITAN -[CAN]S110857-
His Mat Sister: 'Tizz', 2440 kg (305d); 10,600 kg Total
His Dam Tiara's Maternal Sister: 'Tipperary' EX
2151 kg (305d) 4.1f 3.3p; 11,160 kg (total to date)
Titan's Maternal Granddam: 'Tara', VG-89,
2430 kg (305d) 4.7f 3.8p; 10,486 kg (total)

GRASSHILL SHENANDOAH -[CAN]S110905- EX
1912 kg (305d) 3.7f 3.5p; Total: 9230 kg (still milking)



Full Sisters:
'Shnooks'
'Sweet Pea'
... Both EX ...
Over 10,000 kg

GRASSHILL CHAMP'S TRAILBLAZER VG-89
[CAN]S101803- Full Sister: EX, 2151 kg, Life: 11,160 kg
His Dam: VG-89, 2430 kg 4.7f 3.8p; Life: 10,486 kg

GRASSHILL LIGHTNING NAOMI -[CAN]S58774-
VG-89; 1995 kg (305d) 3.2f 2.9p; Life: 10,060 kg
Dam of: Nadine EX, 1817 kg (305d) Life: 9010 kg
<- Nadia EX-92, Total: 20,114 kg, 44,344 lb
- Possibly the World's Top Doe for Lifetime Production

GRASSHILL LAD'S DYNAMO -[CAN]S104193-
His Dam: EX, 1869 kg 4.2f 3.2p; Total: 13,480 kg



Grasshill Baby Spice- 2134 kg 4.2 3.2

GRASSHILL BABY SHNOOKS -[CAN]S94204
<- 2158 kg (305d) 3.5f 2.9p; 10,690 kg Total
Shnooks' daughter: 'Spice', 2134 kg (photo above)
Shnooks, her Dam & her Full Sister: all scored EX
Two Mat Sisters: VG-89; Totals: 9248 kg & 10,486 kg

GRASSHILL LAD'S DYNAMO -[CAN]S104193-
Daughters: 'Toffee', 14,240 kg Total
'Katrina', 1960 kg (305d); 10,390 kg Total
'Cinnamon', 2570 kg (305d) (Cloverleaf's dam)

GRASSHILL TIARA -[CAN]S97754- EX
2451 kg (305d) 3.2f 3.2p; Lifetime: 14,440 kg

GRASSHILL CHAMP'S SHENANIGAN -[CAN]S101872-
5 daughter avg (305d): 2023 kg; Highest: 2680 kg

GRASSHILL SWEET PEA -[CAN]S94208- EX
1847 kg 4.3f 3.3p; 13,800 kg Total (to date)
Full Sister: 'Shnooks', also EX
2158 kg 3.5f 2.9p (305d); 10,690 kg Total
Mat Sisters: 'Gypsy', VG-89, 1808 kg; Life: 9248 kg
'Tara', VG-89, 2430 kg 4.7f 3.8p; Life: 10,486 kg
Dam: 'Jamochoa' EX, 980 kg (305d) 4.7f 3.8p



GRASSHILL DISCOVERY RADAR -[CAN]S141577- SEW 369C



Grasshill Discovery Radar - SEW 369C

GRASSHILL DISCOVERY RADAR

-[CAN]S141577- SEW 369C

Nearest 4 Dam Prod Avg (305d): 1836 kg 3.6f 3.1p

Heterozygous Scrapies Resistant

N.B. All Production Amounts are listed in Kilograms (kg)-

To convert to LB: multiply by 2.205 (1000 kg = 2205 lb)

1790 kg (305d) 3.1f 3.3p; 1580 kg (305d) 3.6f 3.1p



Grasshill Discovery Radar - SEW 369C



Grasshill Target N Buckaroo VG

GRASSHILL BUCKAROO DISCOVERY -[CAN]S134168

Lots of Size, Strength & Production in this buck's pedigree

Below: his Maternal Granddam, 'Diana'



'Diana'

Pictured at the start
of her 4th lactation in
which she produced
3688 kg (8131 lb)

...one of the highest
305 day records in
the world!

Lifetime: 18,030 kg

'RADAR': combining 'Patricia' x 'Diana' families



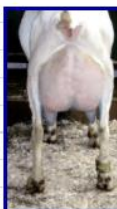
Grasshill Honour's Patricia EX, 2719 kg (305d)

GRASSHILL PARAMOUR RASPBERRY EX -[CAN]S120591

1st 3 lacts: 7560 kg (3.6f, 3.3p), 1823 days, 0 days dry, 6 kids

N.B. 'Raspberry' just fresh again with twin females, classified EX

Paternal Brother: 'Narrator', the sire of 'Xmas' (below)



Inheriting Nadia's Persistency!

... 'Xmas' ...

Sire: 'Paramour Narrator'
Granddam: 'Nadia'

Kidding at 1yr3m, Xmas is still
milking in her 2nd lactation
2020 kg 4.0f 3.1p (305d)

No Dry Period! 1014 DIM
Total to date: 5960 kg

<-- GRASSHILL TARGET N BUCKAROO -[CAN]S110901- VG



Grasshill Target's Dewdrop - 2140 kg 4.3f 3.0p

GRASSHILL TITAN DISCO -[CAN]S126686-

1yr8m: 1410 kg (305d) 3.8f 3.1p

2 Maternal Sisters: 1st lactations over 2000 kg (305 days)



Diana's Paternal Sisters from Sire 'Champ'
Each: over 11,000 kg total & 2 lacts over 2000 kg (305d)

GRASSHILL DIEGO PARAMOUR -[CAN]S111945-

Maternal Sister: 'Potpourri' (below); 2030 kg (305d)



Grasshill Trail Potpourri - 2030 kg (1yr3m 305d)

GRASSHILL TARGET N BLUEBERRY -[CAN]S110900

2420 kg (305d) 3.4f 3.2p; Total: 10,910 kg

... 7 daughters from natural service ...

GRASSHILL TARGET NOVA -[CAN]S104210-

Full Sister: 'Nouvelle', VG, 2010 kg (305d) 3.5f 3.0p

<- Pat Sister: 'Dewdrop', VG, 2140 kg (305d) 4.3f 3.0p

Mat Sister: 'Nadia', VG, 19,830 kg = 43,718 lb

GRASSHILL LAD'S BLUEBELL -[CAN]S104215-

1933 kg (305d); 10,690 kg to date (still milking!)

Sire: 'Lad' EX; His Dam: 2693 kg (305d); Total: 11,570 kg

Dam: 'Belle', 2258 kg (305d) 3.5f 2.9p; Total: 13,400 kg

Next Dam: EX, 2166 kg (305d); Total: 11,570 kg

GRASSHILL DYNAMO TITAN -[CAN]S110857-

Dam: 'Tiara' EX, 2451 kg (305d); Total: 14,440 kg

GRASSHILL CHAMP'S DIANA -[CAN]S100700-

VG- 88, Life: 18,030 kg (pictured below & far left)



Grasshill Champ's Diana VG-88; 3688 kg - 305d

GRASSHILL SCIMITAR DIEGO -[CAN]S110778-

Dam: EX, 1869 kg (305d) 4.2f 3.2p; Total: 13,480 kg

GRASSHILL HONOUR'S PATRICIA -[CAN]S98613-

<-- pictured far left; EX, Lifetime: 14,420 kg

4yr11m: 2719 kg (305d) 3.3f 2.9p - 14 days dry

then: 5yr11m: 2860 kg (305d) 3.0f 2.8p

Five Consecutive Lact Average (305d) - 2244 kg

<-- Daughter: 'Potpourri', 2030 kg (305d)

Dam: 'Pansy' EX, 1988 kg (305d); Total: 9786 kg

Mat Sisters: 'Peaches', 2562 kg (305d); Total: 9520 kg

'Periwinkle', 2265 kg (305d); Total: 9703 kg

'Poppy', 1903 kg (305d) 4.2f 3.3p; Total: 9300 kg

'Primrose', 2222 kg (305d); Total: 7186 kg

GRASSHILL TARGET NOVA -[CAN]S104210-

Pat Sister: 'Dewdrop', VG, 2140 kg (305d) 4.3f 3.0p

GRASSHILL LAD'S BLUEBELL -[CAN]S104215-

1933 kg (305d); 10,690 kg to date (still milking!)

GRASSHILL DYNAMITE TORNADO -[CAN]S134156- SEW 289A



Grasshill Dynamite Tornado - 289A

GRASSHILL DYNAMITE TORNADO

-[CAN]S134156- SEW 289A

Nearest 4 Dam Prod Aug (205d): 2497 kg 4.0f 3.3p

Heterozygous Scrapie Resistant

N.B. All Production Amounts are listed in Kilograms (kg)

To convert to lbs: multiply by 2.205 (1000 kg = 2205 lbs)



Example of
A.J. Does in Mexico
she d by
Trailblazer/Tripodsetter
Semen
(relate d to Tornado)

Your prod into
the breed w/in Mexico who
has provided this photo



Last lact does, Mexico, from Trailblazer semen
(the full brother to Tornado's granddam)



Maternal Brother to
Knight Prince
Grasshill
Tribute
Cometstone

GRASSHILL DEBONAIR DYNAMITE -[CAN]S120717-
Dam: Diana VG-88 (pictured below & to the right)



Diana & Debonair's intro use Diana's to Malton



'Diana'

Pictured at the start
of her 4th lactation in
which she produced
5555 kg (2525 lbs)
...one of the highest
305 day records in
the world!
L (etime): 35,050 kg

GRASSHILL DETONATOR TIPTOP -[CAN]S111955- EX

1720 kg (305d) 4.3f 3.3p; Total to date: 7740 kg

Family traits: Good Udders, Production & Components

Dam: Tipperary (below), approx 2X Mammary & Overall



'Tipperary' EX

2151 kg (205d)
4.1f 3.3p

Total to Date:
11,160 kg

Dam: Tara VG-88
2450 kg 4.7f 3.3p
10,458 kg (total)

Full Siblings: Target
Trailblazer, Thunder

K--Knight Prince's Maternal Brother: 'Cometstone'

85 Seamen Buck Canada: Conformation Index

Knight Prince's Dam:

Cinderella VG, 1804 kg (205d) 4.8f 3.2p

GRASSHILL KP DEBONAIR -[CAN]S114478-

Daughters: 'CToffee', 1800 kg (205d) 3.7f 3.3p

'Memoir', 2180 kg (205d) 3.8f 2.8p

'Newsbreaker', 1770 kg (205d) 4.0f 3.3p

'VToffee', 1720 kg (205d) 3.2f 2.7p

'Julibel', 1910 kg (205d) 3.3f 2.8p

K--GRASSHILL CHAMP'S DIANA -[CAN]S100700-



Grasshill Champ's Diana VG-88; Total: 18,030 kg
2588 kg (205 d)- average per day >12 kg (26 lbs)

GRASSHILL DYNAMO DETONATOR -[CAN]S110575-

Daughters: 'Tide', 1720 kg (205d) 4.0f 3.3p



Paternal Sister
to Detonator

'Katrina'

1960 kg (205d)

(5 Lact Aug 1 2004)

Total: 10,270 kg

GRASSHILL CHAMP'S TIPPERARY -[CAN]S100705- EX

Daughters: 3 sisters of Tipperary's dam (Tara)

(2nd, 3rd, 4th from left side of photo)



'Tipperary' family photo: Including dam's 3 sisters

GRASSHILL KNIGHT PRINCE -[CAN]S110625- VG-88

Maternal Sisters:

Cerstein EX, 2295 kg (205d) 4.0 3.0; Life: 14880 kg

Caitlyn VG, 2215 kg (205d) 3.7f 3.3p; Life: 6850 kg

Princess VG, 1828 kg (205d) 3.9 3.1; Life: 11,162 kg

Led's Cinderella VG, 1680 kg (205d) 3.8f 3.1p

GRASSHILL LIGHTNING DANCER -[CAN]S09022- VG

1898 kg (205d) 4.3f 3.6p; Total: 7611 kg

GRASSHILL HONOUR'S CHAMP -[CAN]S98616- EX

Dam (EX) and 4 mat sisters (2 EX, 2 VG) - all over 2500 kg



Grasshill Honour's
Champ EX

Size of: Dam's VG
2668 kg (205 d)

World's highest
Seamen 205 d?

5 Maternal Sisters
over 2100 kg (205d)

SWEATING ACRES DIVA -[CAN]S98623-

1823 kg 4.1f 2.9p (produced in 112 days)

GRASSHILL LADY'S DYNAMO -[CAN]S104193-

-24 high production daughters

Daughters: 'Toffee', 16,260 kg (lifetime)

'Cinnamon', 2570 kg (205d) (Cinnamon's dam)

K--Katrina, 1960 kg (205d); 10,390 kg (lifetime)

GRASSHILL KNIGHT'S DEILAH -[CAN]S104173-

1720 kg (205d) 3.7f 3.2p; Total: 10,930 kg

1 Lactation Average: 1804 kg (205d)

GRASSHILL HONOUR'S CHAMP -[CAN]S09016- EX



Champ's Dam: 'Chester' EX

2074 kg (205d) 3.5 2.9

Life: 10,274 kg

5 Daughters: 2 EX, 3 VG

- all over 2100 kg (205d)

GRASSHILL LEPRECHAUN'S TARA -[CAN]S05764

High Components! 2430 kg (305d) 4.7f 3.8p

VG-88; Lifetime Prod: 10,486 kg

Two EX Maternal Sisters: both over 10,000 kg Total

Two EX Daughters: both over 10,000 kg Total

GRASSHILL NIGHTRIDER SUMMIT -[CAN]S120603- SEW 164X



1st lact does, Mexico, from Trailblazer semen



Grasshill Nightrider Summit EX, SEW 164X

GRASSHILL NIGHTRIDER SUMMIT EX-96
-[CAN]S120603- SEW 164X

Nearest 4 Dam Prod Avg (305d): 1817 kg 3.9f 3.2p

Homozygous Scrapies Resistant

N.B. All Production Amounts are listed in Kilograms (kg)-
To convert to LB: multiply by 2.205 (1000 kg = 2205 lb)



Grasshill Nightrider Summit EX, SEW 164X



Full Sisters: 'Shnooks' EX, 'Sweet Pea' EX



Grasshill Champ's Trailblazer-VG 89

GRASSHILL T NIGHTRIDER-[CAN]S110810- VG-88
- Mat Brother to 'Nadia' - 20,114 kg, 44,344 lb
(among the Highest in World for Total Milk Prod)

Nightriders 3/4 Sister: 'Nemesis' (pictured below)
1yrsm: 1913 kg 4.1f 2.9p (305d)



Grasshill Trailblazer Nemesis 1913 kg



Grasshill Baby Spice- 2134 kg, 4.2, 3.2

GRASSHILL BABY SPICE
-[CAN]S110826- 2134 kg (305d) 4.2f 3.2p
Her Paternal Sister: 'Katrina', Life: 10,390 kg -->



Grasshill Baby Shnooks- EX, 2158 kg



Grasshill Honour's
Champ EX
Sire of: 'Diana' VG
3688 kg (305d)
World's Highest?

G RASSHILL CHAMP'S TRAILBLAZER VG-89
[CAN]S101802- Full Sister EX, 2151 kg, Life: 11,160



Trailblazer family photo: including dam's 3 sisters

G RASSHILL LIGHTNING NAOMI -[CAN]S85774
Dam of: 'Nadia' (below) - a World Leader in
Total Milk Production & Persistency



Grasshill Nade - EX-92-20,114 kg
World's Highest Total Milk Production!

G RASSHILL LAD'S DYNAMO -[CAN]S104193-
-24 high prod daughters, e.g. 'Katrina' (below)



Grasshill Dynamo Katrina-10,390 kg total

<-- GRASSHILL BABY SHNOOKS - EX
-[CAN]S94204- SEW 39N - 10,690 kg to date
2158 kg 3.5f 2.9p (305d)
Shnooks' Full Sister: 'Sweet Pea', also EX
1847 kg 4.3f 3.3p, 13,800 kg to date
Mat Sisters: 'Gypsy', VG-89, 1803 kg, Life: 9248 kg
'Tara', VG-89, 2430 kg 4.7f 3.8p, Life: 10,486 kg

G RASSHILL HONOUR'S CHAMP -[CAN]S86816- EX
Sire of: 'Diana', 3688 kg (305d); Life: 18,030 kg



Champ's Dam: 'Cheblis' EX
2074 kg (305d) 3.8 2.9
Life: 10,874 kg
5 daughters: 2 EX, 3 VG
- all over 2100 kg (305d)

G RASSHILL LEPRECHAUN'S TARA -[CAN]S85764
High Components! 2430 kg (305d) 4.7f 3.8p
VG-89; Lifetime Prod: 10,486 kg

G RASSHILL SHAMROCK'S LIGHTNING
-[CAN]S82682- VG; His Dam: EX, 1840 kg
Mat Sister: Grasshill Shamrock's Lady (below)
EX, 2471 kg 3.7f 3.2p (305d)



Grasshill Shamrock's Lady: EX, 2471

BEORNING'S NAJAD -[CAN]S78402- VG-89
- 2353 kg (305d) 3.4f 2.7p; Life: 9871 kg

G RASSHILL TORO'S LAD -[CAN]S101792- EX
Lad's Dam: 'Lass', 2693 kg (305d); Life: 11,570 kg



Grasshill Toro's Lad - EX

SWEATING ACRES C DOROTHY -[CAN]S94440
- EX, 1869 kg 4.2f 3.2p, Lifetime: 13,480 kg

G RASSHILL SHAMROCK'S LIGHTNING -[CAN]S82682- VG
His Dam: 'Shamrock' EX, 1840 kg (305d) 3.4f 3.3p
His Maternal Sisters: 3 'EX', 3 over 10,000 kg Total!
Maternal Sister: 'Lady', EX, 2471 kg (305d) 3.7f 3.2p

KAMPFIRE J POLLONADE'S JAMOCOA
-[CAN]S76168- EX

- 6 daughters EX or high VG (see photos on left)
- 4 daughters over 10,000 kg lifetime



GRASSHILL KP CLOVERLEAF -[CAN]S126305- SEW 33Z



GRASSHILL KP CLOVERLEAF, EX-94
-[CAN]S126305- SEW 33Z

Nearest 4 Dam Prod Avg (305d): **2227 kg 3.8f 3.1p**
Homozygous Scrapie Resistant

*(i.e. All Production Amounts are listed in Kilograms (kg)-
To convert to LB: multiply by 2.205 (1000 kg = 2205 lb)*



Maternal Sister to
Cloverleaf's Dam...
'Katrina'
3rd in 328 days:
6620 kg 3.8f 3.0p
or 14,374 lb milk

Knight Prince's Maternal Sisters:

Cerstein EX, 2295 kg (305d) 4.0 3.0 Life: 14380 kg
Caitlyn VG, 2215 kg (305d) 3.7f 3.3p Life: 6395 kg
Princess VG, 1826 kg (305d) 3.9 3.1 Life: 11,185 kg
Lad's Cinderella VG, 1680 kg (305d) 3.8f 3.1p

GRASSHILL KNIGHT PRINCE -[CAN]S110825-VG-88

Maternal Brother: 'Comerstone' (photo below)

#1 Saanen Buck Canada:

Conformation Index



Grasshill Tribute Comerstone
(Maternal Brother to 'Knight Prince')



Grasshill Dynamo Katrina - 10,390 kg total

GRASSHILL DYNAMO CINNAMON

-[CAN]S110815- 2572 kg (305d) 3.2f 3.0p



Grasshill Champion's Diana VG-88; 9688 kg



Grasshill Honour's
Champ EX
Sire of: 'Diana' VG
9688 kg (305d)
World's Highest?

GRASSHILL CHAMP'S KNIGHT -[CAN]S101798-

Maternal Sister: 'Nadia' (below)



Grasshill Nadia - EX-92- 20,114 kg
World's Highest Total Milk Production?

SWEATING ACRES F. CINDERELLA -[CAN]S81709-VG



'S. A. Cinderella' VG
1804 kg (305d) 4.8 3.2
4 daughters: 1 EX, 3 VG
Princess: 11,160 kg total
Canton: 14,380 kg total

GRASSHILL LAD'S DYNAMO -[CAN]S104199-

-24 high production daughters

← Daughters: 'Katrina', 1960 kg (305d)
'Cinnamon', 2570 kg (305d) (Cloverleaf's dam)
'Taffee': 14,240 kg (lifetime) etc

GRASSHILL HONOUR'S CHELSEA -[CAN]S98617

EX, 2459 kg (305d) 3.3f 3.3p; Total: 10,657 kg
Four consecutive Lact Ave Avg (305d) 2506 kg
- 4 sisters over 2100 kg (305d); 1 EX, 3 VG
Full Brother: 'Champ' EX, sire of 'Diana', 3688 kg



'Diana' (& twins)
Pictured at the
start of her 4th
lactation in which
she produced
3688 kg (8131 lb)
... one of the highest
305 day records in
the world!
Lifetime: 18,030 kg

GRASSHILL HONOUR'S CHAMP -[CAN]S98616- EX

Sire of: 'Diana'; 3688 kg (305d); Life: 18,080 kg



'Champ' Daughters:
'Jewel' 2080 kg
(11,300 total)
'Diamond' 2150 kg
(12,230 total)

GRASSHILL LIGHTNING NAOMI -[CAN]S85774-

VG-89, 1995 kg (305d) 3.2f 2.9p; Life: 10,060 kg
Dam: 'Nadia' VG-89, 2353 kg (305d); Life: 9871 kg
Daughters: 'Nedine' EX, 1817 kg; Life: 9010 kg
'Nouvelle' EX-92, 2010 kg (305d); Life: 8620 kg
'Nadia' EX-92, 2325 kg (305d); 20,114 kg (total)
Dry only 187 days since 1st kidding 2006. Still milking!

ANDANTE FANTASTIC'S FIERO -[CAN]S70139-

3 EX daughters at Grasshill; 2 over 9500 kg (Total)

SWEATING ACRES C CINDY -S68137-

GRASSHILL TORO'S LAD -[CAN]S101792- EX

Lad's Dam: 'Lass', 2693 kg (305d); Life: 11,570 kg



Grasshill Toro's Lad EX

SWEATING ACRES C DOROTHY -[CAN]S94440-

EX, 1869 kg (305d) 4.2f 3.2p; Total: 13,480 kg
Daughters: 'Eudora' EX, 1698 kg (305d) 3.8f 2.9p
1st Royal-Bred Rex Ch Saanen 2007 R.A.W.F. Goat Show
'Andora' VG, 2200 kg (305d) 3.7 3.1; Total: 15,100
'Dorianne' VG-89, 1691 kg (305d) 4.1f 3.3p

GRASSHILL JAKLYN'S HONOUR -[CAN]S90114- VG

Dam: 'Hy-Crest Juno's Jaklyn' EX, 1524 kg 4.0f 3.4p
Former All-Canadian, RAWF Grand Champ, Best Udder

KAMPFIRE C POLLONADE'S CHABLIS -[CAN]S76726-



Champ's Dam: 'Chablis' EX
2074 kg (305d) 3.8 2.9
Life: 10,874 kg
3 daughters: 2 EX, 3 VG
- all over 2100 kg (305d)

GRASSHILL XMAS COMET - [CAN]S140862- SEW 349C



#1 Seamen Buck Canada
Conformation Index
Grasshill Tribute Comestone
(Maternal Brother to 'Knight Prince')

GRASSHILL KP CLOVERLEAF - [CAN]S126305- EX 94
His Granddam is Champ's Full Sister... High prod potential



Grasshill Honour's Champ EX
Sire of 'Diana', 3688 kg (205d)

Persistence, High Production Throughout ...
Carrier of the Nadia's 'Persistence' Gene?

Comet's Dam 'Xmas' - #2 Seamen Production Index Canada
#1 Seamen Combined Index - Production & Type



Inheriting Nadia's Persistence!
... 'Xmas' ...
Sire: 'Narrator'
Grandson: 'Nadia'
Kidding at 1 yr 2m, Xmas is now
milking in her 2nd lactation
No Dry Period! 1014 DIM
Total to date: 5960 kg
2 Sons, 2 Daughters at Grasshill

GRASSHILL NARRATOR XMAS - [CAN]S133936-
2yr3m: 1910 kg 3.4f 2.8p; now weaned, (1 day)
2yr3m: 2020 kg (305d) 4.0f 3.1p
Still milking in 2nd lact, 1010 DIM, 5960 kg to date
1 milking daughter, 3 sons. Semen available...



#1 Seamen Doe Canada:
Combined Prod/Type Index
Grasshill Narrator Xmas

GRASSHILL KNIGHT PRINCE - [CAN]S10025- VG-88
K-- Maternal Brother: 'Cornerstone'
#1 Seamen Buck Canada: Conformation Index
Mat Sire: Caitlyn VG: 2215 kg (205d) 3.7f 3.3p
Carsten EX: 2295 kg (205d) 4.0 3.0 Ufa: 14380 kg



Grasshill Dynamo Katrina-20 390 kg total

GRASSHILL DYNAMO CINNAMON
-[CAN]S110815- 2570 kg (205d) 3.1f 2.8p



Grasshill Patricia EX, 2862 kg - 305d

GRASSHILL PARAMOUR NARRATOR - [CAN]S100662
Outstanding Dam & Daughter: 'Nadia' & 'Xmas'



Grasshill Nadia - EX 92 - 20,114 kg
World's High at Total Milk Production!

GRASSHILL CHAMP'S YVONNE - [CAN]S100510- VG
2222 kg 3.5f 3.2p, Ufa: 9180 kg
- 5 daughters: 2 now in Trinidad
'Vodka': 2530 kg (205d) 3.4f 2.9p, Ufa: 8710 kg
K-- 'Xmas': 2020 kg (205d) 4.0f 3.1p
5960 kg Total to date

GRASSHILL CHAMP'S KNIGHT - [CAN]S101798
Paternal Sire: Diana VG- 88, Ufa: 18,030 kg
3688 kg one of World's Highest 305 day records!
Maternal Sire: Nadia EX, Ufa: 9010 kg
Nadia EX-92, Ufa: 20,114 kg (Nadia's Mother?)

SWEATING ACRES F. CINDERELLA - [CAN]S81709-



'S. A. Cinderella' VG
1804 kg (205d) 4.8 5.2
Sire: 'Diana' EX, SVD
Princess: 11,160 kg total
Carsten: 14,380 kg total

GRASSHILL LAD'S DYNAMO - [CAN]S104193-
- 24 high production daughters
K-- Daughters: 'Katrina', 1960 kg (205d)
K-- Cinnamon', 2570 kg (205d) (Cleverley's dam)
Toffie: 14,340 kg (lifetime) etc

GRASSHILL HONOUR'S CHELSEA - [CAN]S86617
EX, Total Prod: 10,657 kg
Four Consecutive Lact Average (305d) - 2506 kg
- 4 sisters over 2100 kg (205d); 1 EX, 1 VQ
Mat Brother: 'Champ' EX, sire of 'Diana', 3688 kg

GRASSHILL DIEGO PARAMOUR - [CAN]S111945-
K-- His Dam: 'Patricia' EX, Ufa: 14,420 kg
Five Consecutive Lact Average (205d) - 2244 kg

K-- GRASSHILL NADIA - [CAN]S97758- EX-92
- a World Leader in Total Milk Production
& Persistence - 20,114 kg, 44,344 lb
Now 11 yrs old, and Still Milking!
Nadia has kidded EX, milked 3533 days, and
been dry only 187 days since 1st kidding 2006!
- 4 sons, 7 daughters, also Persistent Producers

GRASSHILL HONOUR'S CHAMP - [CAN]S86616- EX
Sire of: 'Diana', 3688 kg (205d); Ufa: 18,030 kg



Champ's Dam: 'Chelsea' EX
2074 kg (205d) 5.8 2.9
Ufa: 10,874 kg
5 daughters: 2 EX, 3 VQ
- all over 2100 kg (205d)

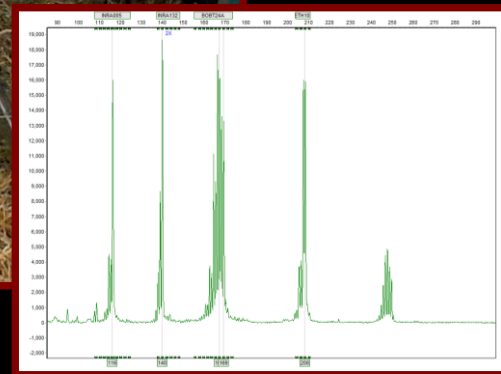
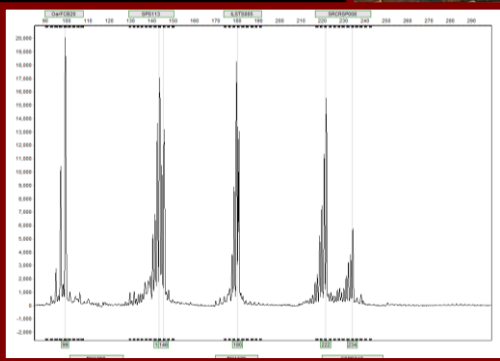
BRIGHTER FUTURES YANA
-[CAN]S86530-

GRASSHILL XMAS COMET VG-89 (too young for EX)
-[CAN]S140862- SEW 349C

Homozygous Scrapie Resistant
Nearest 30am Prod Avg (305d): 2271 kg 3.5f 3.1p
N/A: All Production Amounts are listed in Kilograms (kg)
To convert to LBS: multiply by 2.205 (1000 kg = 2205 lb)



Grasshill Xmas Comet EX - SEW 349C
Dam: #1 Combined Index Seamen, Canada



GCCATGTACGAATATG CAGTAAAATGTACTATGTACT

פוטנציאל ענק לשיתוף פעולה

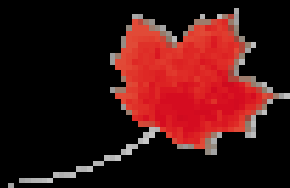


בשנת 2016 נחתם הסכם שיתוף פעולה בענף
הצאן, בין קנדה לישראל. אגודת עזיזה מייבאת
מנות זירמה ושותפה למידע בעדרי עיזים
לטיפול ולחלב.

גנטיקה חדשה ומלהיבה!

בקר אנגוס מובחר

קיים במלאי



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Wicks & family
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Ontario,
CANADA**

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**3X Master Breeder
Holsteins**

**5 Canadian Champ.
Milk Producers**

Show Winners

**Purebred Saanen
Goats**

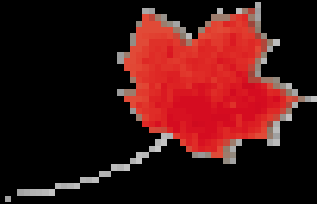
**Over 5 Canadian
Champ. Milk
Producers**

Show Winners

**Our Focus: Functional type, High Production, Top Health Standards
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... Live Breeding Stock, Embryos & Semen Available For Export ...

*N.B The Following Extra Slides illustrate the Procedure
Used to Compare Cost/Income for Various Goats*

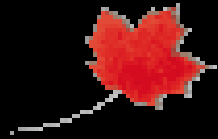
Grasshill Goat Comparison Worksheet to Identify Profitability Traits...

Spreadsheet Comparison of Cost & Income
for different milking does
within the Grasshill herd
(also includes one doe representing
a national 'Miss Average')



N.B. This spreadsheet (as seen in following slides)
is just a 'work in progress'
... Suggestions & input welcome ...

Background Info on Grasshill Milking Goat Comparison Spreadsheet:



Data used: Actual values where possible; otherwise the most realistic average values available

Subjects used: (in the following example)

- 6 actual does from our herd (actual production figures)
- 1 'Miss Average' doe representing the approx national average

\$ Return (income minus costs), calculated in two ways:

- \$/day of life from day of birth
- \$/day of life not counting the first 365 days



(for a fairer comparison of does at different lactation levels)

N.B. Kid value: important to add, but not included in this example

Potential Applications: may be of use in other herds simply by substituting the actual or average values for that particular setting

MILKING GOATS COMPARED.... PRODUCTION, COSTS, RETURNS

N.B. "Standard" rates used to determine cost & value, are approximations. Where possible, actual "Farm" rates should be used.

e.g. Kid 'Value': this important factor in total 'Returns' should be entered in the sheet below on an individual basis depending on pedigree, location, situation etc. (shows as 0 if not entered)

Production figures used are based on Actual Values for all goats listed except "Miss Average" ...

(the amounts listed for "Miss Average" are approximate averages which can be adjusted as appropriate for any farm, region or country)

ID	NAME	CLASS	FRESH	KIDS	KID VALUE		PRODUCTION				VALUE: Milk		COSTS: Raising		COSTS: Maintenance		COSTS: Feed		COSTS: Health		RETURN (\$)	RETURN (\$)
		Final	AGE	#F #M	\$ per F	\$ per M	Days	Milk	Fat	P rot	Standard	Farm	(to 1 year age)	(per day over 1yr age)	Standard	Farm	(per yr over 1yr age)	over COSTS	over COSTS			
		yr-mo	Enter #	(or Individual Entry)	inM ilk	(litres)	%	%	per litre	Std	Farm	Std/day	Farm/day	/litre milk	/litre milk	Std/yr	Farm/yr	N.B. raising	Raising			
			(incl '0's)		0	0			0.80	0.00	200	0	0.50	0.00	0.35	0.00	10.00	0.00	NOT included	Included		

[illegible]

MILKING GOATS COMPARED.... PRODUCTION, COSTS, RETURNS

N.B. "Standard" rates used to determine cost & value, are approximations. Where possible, actual "Farm" rates should be used.

e.g. Kid 'Value': this important factor in total 'Returns' should be entered in the sheet below on an individual basis depending on pedigree, location, situation etc. (shows as 0 if not entered)

Production figures used are based on Actual Values for all goats listed except "Miss Average" ...

(the amounts listed for "Miss Average" are approximate averages which can be adjusted as appropriate for any farm, region or country)

ID	NAME	CLASS	FRESH	KIDS	KID VALUE		PRODUCTION				VALUE: Milk		COSTS: Raising		COSTS: Maintenance		COSTS: Feed		COSTS: Health		RETURN (\$)	RETURN (\$)
		Final	AGE yr-mo	#F #M Enter # (incl '0's)	\$ per F \$ per M (or Individual Entry)	Days inMilk	Milk (litres)	Fat %	P rot %	Standard per litre	Farm	(to 1 year age)		(per day over 1yr age)		(per yr over 1yr age)		over COSTS	over COSTS			
												Std	Farm	Std/day	Farm/day	/litre milk	/litre milk			Std/yr	Farm/yr	
																						N.B. raising
					0	0					0.80	0.00	200	0	0.50	0.00	0.35	0.00	10.00	0.00	NOT included	Included

[illegible]

MILKING GOATS COMPARED.... PRODUCTION, COSTS, RETURNS

N.B. "Standard" rates used to determine cost & value, are approximations. Where possible, actual "Farm" rates should be used.

e.g. Kid 'Value': this important factor in total 'Returns' should be entered in the sheet below on an individual basis depending on pedigree, location, situation etc. (shows as 0 if not entered)

Production figures used are based on Actual Values for all goats listed except "Miss Average" ...

(the amounts listed for "Miss Average" are approximate averages which can be adjusted as appropriate for any farm, region or country)

ID	NAME	CLASS	FRESH	KIDS	KID VALUE		PRODUCTION				VALUE: Milk		COSTS: Raising		COSTS: Maintenance		COSTS: Feed		COSTS: Health		RETURN (\$)	RETURN (\$)
		Final	AGE	#F	#M	\$ per F	\$ per M	Days	Milk	Fat	P rot	Standard	Farm	(to 1 year age)	(per day over 1 yr age)	Standard	Farm	(per yr over 1 yr age)	over COSTS	over COSTS		
		yr-mo	Enter #	(or Individual Entry)		inMilk	(litres)	%	%	per litre	Std	Farm	Std/day	Farm/day	/litre milk	/litre milk	Std/yr	Farm/yr	N.B. raising	Raising		
			(incl '0's)			0	0				0.80	0.00	200	0	0.50	0.00	0.35	0.00	10.00	0.00	NOT included	Included

[illegible]

Revised Milk Income Figures Based on Component Pricing

\$7.8 per kg milk fat, \$16.39 per kg protein

[illegible]

○ ***Extra Notes on the attached spreadsheet for:***

“A Comparison of Milking Does... Production, Costs, Returns”

In this Example, results of 7 does are used:

“Miss Average” & 6 Actual Does from our Grasshill herd

Returns from each lactation in terms of # of Kids Born & Milk Produced, is compared to Costs of Raising, Maintenance, Feed & Health

Production results & # of Kids for ‘Miss Average’ are approximate averages for which values from any farm or country could be substituted ...

The results for the other 6 does are actual amounts

Costs used in calculations are also based on averages that can be varied on a per farm or country basis to be as realistic as possible

Returns: Because ‘Kid Value’ is so variable, it has been left to fill in individually ... this return will be added to the final ‘Return over Costs’ shown

Milk values are calculated on a price/litre ‘Total Fluid’ basis at a rate which can be varied as appropriate, or even based on ‘Component Payment’ rates as shown in an extra separate calculation for the last doe ‘Tara’

Final Comparison of ‘Return over Costs’ (not including Raising):

So that goats of varying ages can be compared more fairly, raising costs to one year have been left out of this calculation, & a Per Day Value calculated which does not include the first year of life.

Adding Raising Costs to a comparison of Returns, even more clearly demonstrates



Production + Longevity + Reproduction = PROFITS



המפתח לשגשוג

גנטיקה עילית עושה את ההבדל

of Goats Required to Surpass a Family's Threshold

'Sustenance' level: (approx. \$100/day in Canada)

(based on total milk volume pricing)

'Miss Average' @ \$.12/day : **833 required**

'Diana' @ \$3.14/day : **32**

'Chelsea' @ \$2.12/day : **47**

'Sweet Pea' @ \$1.44/day : **70**

'Cersten' @ \$1.83/day : **55**

'Nadia' @ \$2.04/day : **49**

'Tiara' @ \$1.98/day : **51**

'Tara' @ 1.68/day : **60**

* 'Tara' : @2.36/day : **42**

(*when based on component-weighted pricing)

N.B. Substantiation for these numbers is included at the end of this presentation



GRASSHILL SHEIK WINNER - [CAN]S141346- SEW 31C - EX

Knight Prince's Maternal Sisters:

Cersten EX, 2295 kg (305d) 4.0 3.0; Life: 14380 kg
Caitlyn VG, 2215 kg (305d) 3.7f 3.3p; Life: 6395 kg
Princess VG, 1826 kg (305d) 3.9 3.1; Life: 11,185 kg
Lad's Cinderella VG, 1630 kg (305d) 3.8f 3.1p



Grasshill Knight Prince Sheik SEW 305Y ... EX-95
... Winner's Sire ...

<--G GRASSHILL KNIGHT PRINCE SHEIK -[CAN]S120749
EX-Superior Production, Conformation & Components



Sheik's Granddam 'Shenandoah' EX

G GRASSHILL KNIGHT PRINCE -[CAN]S110825-VG-88
Maternal Brother: 'Cornerstone' (photo below)
#1 Saanen Buck Canada: Conformation Index



Grasshill Tribute 'Cornerstone'
(Maternal Brother to 'Knight Prince')

G GRASSHILL TITAN SHANG RILAH -[CAN]S115702- EX
1800 kg (305d) 4.0f 3.3p; Total: 7980 kg (still milking)



Shangrilah's Dam:
'Shenandoah' EX
1912 kg (305d)
3.7f 3.5p
9230 kg Total
(still milking)

G GRASSHILL LAD'S DYNAMO -[CAN]S104189-
24 high prod daughters, e.g. 'Toffee', 14,240 kg Life



Lightning's Maternal Sister: 'Lady' EX, 2471 kg 3.7f 3.2p

G GRASSHILL LIGHTNING WENDALYN -[CAN]S85771
VG, 2662 kg (305d); Total Lifetime: 13,910 kg
3 daughters, Average Total Production: 8457 kg
Maternal Sisters: 'Heiress', Total: 5700 kg (809 days)
'Chelsea': EX, Total: 10,640 kg (4 facts over 2300 kg)
'Chinook': VG-88, Total: 9710 kg (3 facts over 2000)
'Chantal': VG-88, Total: 9540 kg (3 facts over 2000)

G GRASSHILL CHAMP'S KNIGHT -[CAN]S101798-
Maternal Sisters: 'Nadine' EX, 1817 kg; Life: 9010 kg
'Nouvelle' VG, 2010 kg (305d); Life: 8380 kg
'Nadia' EX-92, 2325 kg (305d); 20,114 kg (total)

SWEATING ACRES F. CINDERELLA -[CAN]S81709-



'S. A. Cinderella' VG
1804 kg (305d) 4.8 3.2
4 daughters: 1 EX, 3 VG
Princess: 11,160 kg total
Cersten: 14,380 kg total

G GRASSHILL DYNAMO TITAN -[CAN]S110857-
Dam: 'Tiara' EX, 2451 kg (305d); Life: 14,440 kg
Granddam: 'Grasshill Leprechaun's Tara', VG-89
2430 kg (305d) 4.7 f 3.8p; 10,486 kg (total)
Tiara's Maternal Sister: 'Tipperary' EX
2151 kg (305d) 4.1 f 3.3p; 11,160 kg (total to date)

<--GRASSHILL SHENANDOAH -[CAN]S110905- EX
1912 kg (305d) 3.7f 3.5p; Total: 9230 kg (still milking)

G GRASSHILL TORO'S LAD -[CAN]S101792- EX
Lad's Dam: 'Lass', 2698 kg (305d); Life: 11,570 kg



Grasshill Toro's Lad EX

SWEATING ACRES C DOROTHY - [CAN]S94440
- EX, 1869 kg 4.2f 3.2p, Lifetime: 13,480 kg

G GRASSHILL SHAMROCK'S LIGHTNING -[CAN]S82882- VG
His Dam: 'Shamrock' EX, 1840 kg (305d) 3.4f 3.3p
His Maternal Sisters: 3 'EX', 3 over 10,000 kg Total!
<-- Mat Sister 'Lady': EX, 2471 kg (305d) 3.7f 3.2p

KAMP FIRE C POLLONADE'S CHABLIS -[CAN]S76726-
Her Son: 'Grasshill Honour's Champ' - EX
Sire of: 'Diana' VG-88, 3688 kg (305d); Life: 18,030 kg



Champ's Dam: 'Chablis' EX
2074 kg (305d) 3.8 2.9
Life: 10,874 kg
5 daughters: 2 EX, 3 VG
- all over 2100 kg (305d)

G GRASSHILL SHEIK WINNER... EX
-[CAN]S141346- SEW 31C

Nearest 4 Dam Prod Avg (305d): 2079 kg 3.8f 3.1p

Ho mozygous Scrapies Resistant

N.B. All Production Amounts are listed in Kilograms (kg)
To convert to LB: multiply by 2.205 (1000 kg = 2205 lb)



Grasshill Sheik Winner EX - SEW 31C

G GRASSHILL DYNAMO WHIM -[CAN]S110890-
-1779 kg (305d) 4.2f 3.0p; 8820 kg Total (to date)
Full Sister: 'Whisper' EX (pictured below):
-2124 kg (305d) 3.7f 3.2p; 9710 kg Total (to date)



Whisper EX-9710 kg total

GRASSHILL TURBO WHIPLASH -[CAN]S133928- SEW 1872 - EX



1st lact does, Mexico, from Trailblazer semen



Grasshill Turbo Whiplash SEW 1872 ... EX

GRASSHILL TURBO WHIPLASH EX
-[CAN]S133928- SEW 1872

Nearest 4 Dam Prod Avg (305d): 2167 kg 3.8f 3.1p
Heterozygous Scraples Resistant

N.B. All Production Amounts are listed in Kilograms (kg)
To convert to LB: multiply by 2.205 (1000 kg = 2205 lb)



Grasshill Turbo Whiplash SEW 1872... EX

Knight Prince's Maternal Sisters:

Cersten EX, 2295 kg (305d) 4.0 3.0; Life: 14380 kg
Caitlyn VG, 2215 kg (305d) 3.7f 3.3p; Life: 6395 kg
Princess VG, 1826 kg (305d) 3.9 3.1; Life: 11,185 kg
Lad's Cinderella VG, 1630 kg (305d) 3.6f 3.1p

GRASSHILL KNIGHT PRINCE TURBO -[CAN]S120643-

Dam: 'Tipperary' EX, 2151 kg; Total: 11,160 kg
Tipperary's Full Brothers: 'Trailblazer', 'Trendsetter'
Above left: Photo of Daughters in Mexico from AL



'Trailblazer' family photo: Including dam's 3 sisters



Grasshill Dynamo Katina-10,390 kg total
... Whim's Maternal Sister ...

GRASSHILL DYNAMO WHIM -[CAN]S110890-

-1779 kg (305d) 4.2f 3.0p; 8620 kg Total (to date)
Full Sister: 'Whisper' EX (pictured below):
-2124 kg (305d) 3.7f 3.2p; 9710 kg Total (to date)



Whisper EX, 9710 kg total

GRASSHILL KNIGHT PRINCE -[CAN]S110825-VG-88

Maternal Brother: 'Cornerstone' (photo below)
#1 Saanen Buck Canada: Conformation Index



Grasshill Tribute: Cornerstone
(Maternal Brother to 'Knight Prince')

GRASSHILL CHAMP'S TIPPERARY -[CAN]S100708-



'Tipperary' EX

2151 kg (305d)
4.1f 3.3p

Total to Date:
11,160 kg

Dam: 'Tara' VG-89
2430 kg 4.7f 3.8p
10,486 kg (total)

Full Brothers: Target
Trailblazer, Trendsetter

GRASSHILL LAD'S DYNAMO -[CAN]S104193-

24 high prod daughters, e.g. 'Toffee', 14,240 kg Life



Uhtolna's Maternal Sister: 'Lady' EX, 2471 kg 3.7f 3.2p

GRASSHILL LIGHTNING WENDALYN -[CAN]S85771

-2662 kg (305d); Total Lifetime: 13,910 kg

3 daughters; Average Total Production: 8467 kg

Maternal Sisters: 'Heliress', Total: 5700 kg (809 days)

'Chelsea': EX, Total: 10,540 kg (4 lacta over 2300 kg)

'Chinook': VG-89, Total: 9710 kg (3 lacta over 2000)

'Chantal': VG-88, Total: 9540 kg (3 lacta over 2000)

GRASSHILL CHAMP'S KNIGHT -[CAN]S101796-

Maternal Sisters: 'Nadine' EX, 1817 kg; Life: 9010 kg
'Nouvelle' VG, 2010 kg (305d); Life: 8380 kg
'Nadia' EX-92, 2325 kg (305d); 20,114 kg (total)

SW EATING ACRES F. CINDERELLA -[CAN]S81709-



'S. A. Cinderella' VG
1804 kg (305d) 4.8 3.2
4 daughters: 1 EX, 3 VG
Princess: 11,160 kg total
Cersten: 14,380 kg total

GRASSHILL HONOUR'S CHAMP -[CAN]S98616- EX



Grasshill Honour's
Champ EX
sire of: 'Diana' VG
3688 kg (305d)
World's Highest?

GRASSHILL LEPRECHAUN'S TARA -[CAN]S88764

High Components! 2430 kg (305d) 4.7f 3.8p
VG-89; Lifetime Prod: 10,486 kg

GRASSHILL TORO'S LAD -[CAN]S101792- EX

Lad's Dam: 'Lass', 2693 kg (305d); Life: 11,570 kg



Grasshill Toro's - EX

SW EATING ACRES C DOROTHY -[CAN]S94440

- EX, 1869 kg 4.2f 3.2p, Lifetime: 13,480 kg

GRASSHILL SHAMROCK'S LIGHTNING -[CAN]S82682- VG

His Dam: 'Shamrock' EX, 1840 kg (305d) 3.4f 3.3p

His Maternal Sisters: 3 'EX', 3 over 10,000 kg Total!

<- Mat Sister 'Lady': EX, 2471 kg (305d) 3.7f 3.2p

KAMPFIRE C POLLONADE'S CHABLIS -[CAN]S76726-

Her Son: 'Grasshill Honour's Champ' - EX

sire of 'Diana'; VG-88, 3688 kg (305d); Life: 18,080 kg



Champ's Dam: 'Chablis' EX
2074 kg (305d) 3.8 2.9
Life: 10,874 kg
5 daughters: 2 EX, 3 VG
- all over 2100 kg (305d)



GRASSHILL SUMMIT BLUEPRINT -[CAN]S141567- SEW 389C



Grasshill Night Rider Summit EX-96
... Blueprint's Sire ...

GRASSHILL SUMMIT BLUEPRINT

-[CAN]S141567- SEW 389C

Nearest 4 Dam Prod Avg (305d): 2122 kg 3.5f 3.0p

Heterozygous Scrapies Resistant

N.B. All Production Amounts are listed in Kilograms (kg)
To convert to LB: multiply by 2.205 (1000 kg = 2205 lb)



Picture Pending

Grasshill Summit Blueprint SEW 389C



Grasshill Trailblazer Nemesis 1913 kg

<- GRASSHILL NIGHT RIDER SUMMIT -[CAN]S120608

His Dam's Paternal Sister is pictured below...



Grasshill Dynamo Katrina-10,390 kg total



Grasshill Toro's Lad - EX
... Blueprint's Maternal Grand sire ...

GRASSHILL LAD'S BLUEBELL -[CAN]S104215- EX

1933 kg (305d) 3.4f 3.1p; Total: 10,850 kg (still milking)

Daughter: Blueberry, 2422 kg 3.5f 3.2p; Total: 10,880 kg

Maternal Sister: "Tinkerbell", EX; Total: 11,480 kg

Paternal Sisters: 4 over 10,000 kg Total; 10 VG

e.g. "Night Song" VG, 2870 kg (305d); Total: 11,710 kg

- "Shalome" VG, 2086 kg 3.6f 3.2p; Total: 10,290 kg

... 4 consecutive lactations (305d) over 2000 kg ...

Bluebell's Son: Grasshill herdsire ... "Buckaroo" VG

GRASSHILL T NIGHT RIDER -[CAN]S110810-

<- Night Rider's 3/4 Sister: "Nemesis" (pictured left)

1 year: 1913 kg 4.1f 2.9p (305d)

His Mat Sister: "Nadia" (below) - a World Leader in

Total Milk Production & Persistence



Grasshill Nadia - EX 92- 20,114 kg

GRASSHILL BABY SPICE ... (pictured on right) -->

-[CAN]S110828- 2134 kg (305d) 4.2f 3.2p

<- Her Paternal Sister: "Katrina", Life: 10,390 kg

Her Dam: "Baby Shnooks" EX (pictured below)



Grasshill Baby Shnooks- EX, 2158 kg

<- GRASSHILL TORO'S LAD - [CAN]S101792- EX

Full Sister: "Lassie", 1 year Dam 305d: 1724 kg 3.7f 3.1p



Lad's Maternal Granddam: "Lassie" EX, 2471 kg 3.7f 3.2p

GRASSHILL LIGHTNING BELLE -[CAN]S90097-

2258 kg (305d) 3.5f 2.9p; Lifetime: 13,400 kg

Next dam: EX, 2166 kg (305d); Life: 10,746 kg

GRASSHILL CHAMP'S TRAILBLAZER VG-89

(CAN)S101808- Full Sister: EX, 2151 kg; Life: 11,160 kg

His Dam: VG-89, 2430 kg 4.7f 3.8p; Life: 10,486 kg

GRASSHILL LIGHTNING NAOMI -[CAN]S85774-

VG-89; 1995 kg (305d) 3.2f 2.9p; Life: 10,060 kg

Dam of: Nadine EX, 1817 kg (305d) Life: 9010 kg

<- Nadia EX-92, Total: 20,114 kg, 44,344 lb

- Possibly the World's Top Doe for Lifetime Production

GRASSHILL LAD'S DYNAMO -[CAN]S104193-

His Dam: EX, 1869 kg 4.2f 3.2p; Total: 13,480 kg



Grasshill Baby Spice- 2134 kg 4.2, 3.2

GRASSHILL BABY SHNOOKS -[CAN]S94204- EX

<- 2158 kg (305d) 3.5f 2.9p; 10,690 kg Total

Shnooks' daughter: "Spice", 2134 kg (photo above)

Shnooks her Dam & her Full Sister: all scored EX

Two Mat Sisters: VG-89; Totals: 9248 kg & 10,486 kg

GRASSHILL TORO -[CAN]S97755-

Full Sister: "Tiara" EX, 2451 kg (305d); Total: 14,440 kg

Maternal Sisters: "Terri", 1818 kg (305d) 4.7f 3.9p

"Tipperary" EX, 2151 kg 4.1f 3.3p; 11,160 kg Total

Toro's Dam: "Tara", 2430 kg (305d) 4.7f 3.8p

VG-89; Lifetime Prod: 10,486 kg

GRASSHILL HONOUR'S LASS -[CAN]S97663-

VG-88; 2228 kg (305d) 3.7f 3.4p; Life: 11,570 kg

<- Dam: "Lady" EX, 2471 kg (305d) 3.7f 3.2p

GRASSHILL SHAMROCK'S LIGHTNING -[CAN]S81282

His Dam: "Shamrock" EX, 1840 kg (305d) 3.4f 3.3p

His Mat Sisters: 3 'EX', 3 over 10,000 kg Total

BEORNING'S NASTURTIUM -[CAN]S80128-

EX-92, 2166 kg (305d) 3.1f 2.8p; Total: 10,746 kg

The PRESENT is SEQUENCING DNA ... the FUTURE is GENOMICS



- Durability Traits
 - Climate Resilience
 - **Scrapie Resistance *****
CAE resistance
- Economic Traits
- Nutrient Yields
 - DHA, CLA, other Fatty Acids
 - Product Yields
 - **α S1-Casein for CHEESES *****
- Efficiencies: Feed & Water
- Fecundity
- Heritable Lifetime Yields
- **The 'Nadia' Gene *****

Grasshill Snapshot #2 ...



Ongoing Rationale & Priorities

To produce genetics that will most meet the needs of our clients, the traits we continue to stress are **Longevity, Production, & Conformation...** also DNA identified **Scrapie Resistance**, and since 2015.. **HIGH CASEIN**

Why Focus on Identifying & Producing 'High Casein' Genetics?

- 'High Casein' DNA appears highly correlated (approx 90%) with milk % protein
- Higher % milk protein = higher price/litre = sustainability (a 'happier banker' 😊)

The Effect of Component Pricing on Milk Revenue			
Date	% Fat	% Protein	Price/Litre
May 2018	3.35	3.15	\$1.00
Oct 2018	4.43	3.35	\$1.28
Dec 2018	4.60	3.91	\$1.40

To date, we've had 43 carriers identified out of 99 tested for High Casein, and plan to use animals with this trait heavily in future breeding strategies here (e.g. homozygous 'Sonny')

Grasshill Navigator Sonny

SEW 391F

born Sept 25, 2018

**Homozygous Scrapie
Resistant**

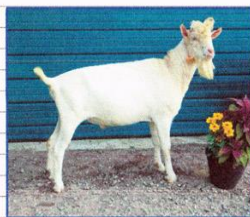
*** Homozygous High
Casein ***

**Nearest 4-Dam
Production**

Average (305 days) :

1798 kg 4.0 % f 3.3% p

GRASSHILL NAVIGATOR SONNY - SEW 391F



Grasshill Sheik Navigator EX ... SEW 15C
... Sonny's Sire ...

GRASSHILL NAVIGATOR SONNY... SEW 391F

Nearest 4 Dam Prod Avg (305d): 1798 kg 4.0f 3.3p

Homozygous Scrapies Resistant...

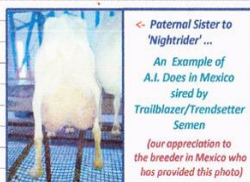
Homozygous High Casein !!!

N.B. All Production Amounts are listed in Kilograms (kg)-

To convert to LB : multiply by 2.205 (1000 kg = 2205 lb)



1st lact does, Mexico, sired AI by semen from Full Brothers
'Trendsetter' & 'Trailblazer' (the sire of 'Nightrider')



<- Paternal Sister to
'Nightrider' ...
An Example of
A.I. Does in Mexico
sired by
Trailblazer/Trendsetter
Semen
(our appreciation to
the breeder in Mexico who
has provided this photo)

'Sonny' ... a buck with Superior Production,
Conformation & Component Credentials... also, DNA verified
Homozygous 'High' Casein & Scrapie Resistance

N.B. Photos included at the bottom left of this pedigree
show examples of actual results from A.I. inseminations
done in Mexico using this family's genetics ...

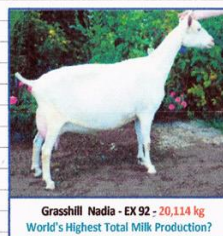
<- GRASSHILL SHEIK NAVIGATOR -[CAN]S141572- EX

Nearest 4 Dam Prod Avg (305d): 2053 kg 3.4f 2.9p

Homozygous Scrapies Resistant... Heterozygous High Casein

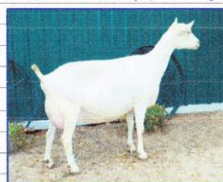
Great Potential... from our 'Nadia' family (below)

Nadia: Full Sister to Natalie's dam 'Nadine' -->



Grasshill Nadia - EX 92 - 20,114 kg
World's Highest Total Milk Production?

Sheik's Paternal Sister (below): 'Honey Dip' EX, 2000 kg 3.7f 3.3p



GRASSHILL SHEIK SUNCATCHER -[CAN]S141350- VG-88

VG-88; 1yr9m (305 days): 900 kg 4.8f 3.8p

Homozygous Scrapies Resistant ...

Heterozygous High Casein !!!

Maternal Sisters to 'Suncatcher':

'Slumber', EX... 1yr8m: 1190 kg 5.4f 3.0p (305d)

'Sugar Fairy', VG ... 1150 kg 4.0f 3.6p (305d)

Paternal Sisters to 'Suncatcher':

'Nectar', VG... 2yr11m, 305d proj: 1780 kg 4.3f 3.6p

'Nymph', VG ... 2yr7m, 305d: 1260 kg 4.2f 3.5p

'Sarah', VG... 3yr5m, 305d proj: 1760 kg 3.2f 3.4p

'Dynamo', VG... 1yr11m, 305d proj: 1460 kg 4.4f 3.4p

GRASSHILL KNIGHT PRINCE SHEIK EX-95 -[CAN]S120749

Nearest 4 Dam Prod Avg (305d): 1841 kg 4.2f 3.3p



Natalie's Sire:
Grasshill Honour's
Champ EX
Sire of: 'Diana' VG
18,030 kg (total)
3688 kg (305 d)
World's Highest
Saanen 305 days?
14 Daughters

GRASSHILL C NATALIE -[CAN]S104188- EX; 13,810 kg

3 lacts over 2200 kg (305d); Highest 305d: 2605 kg



Natalie's Pat Sister: Diana VG-88; Total: 18,030 kg
3688 kg (305d) -- average per day > 12 kg (26 lb)

GRASSHILL KNIGHT PRINCE SHEIK -[CAN]S120749, EX-95



Grasshill Knight Prince Sheik SEW 308Y, EX-95

GRASSHILL NIGHT SWEET DREAMS -[CAN]S120681- EX

1840 kg (305d) 3.6f 3.3p; 5 'high casein' progeny



Full Sisters:
'Shnooks'
'Sweet Pea'
... Both EX ...
Over 10,000 kg

GRASSHILL KNIGHT PRINCE -[CAN]S110825- VG-88

Maternal Brother: 'Cornerstone'

#1 Saanen Buck Canada: Conformation Index

GRASSHILL TITAN SHANGRILAH -[CAN]S115702- EX

1800 kg (305d) 4.0f 3.3p; Total: 8480 kg (still milking)

<- GRASSHILL HONOUR'S CHAMP -[CAN]S98616- EX

5 Maternal Sisters: all of them over 2100 kg (305 days)

Full Sister: Chelsea EX; 4 lact avg: 2506 kg



Grasshill Nadine EX, full sister to Nadia EX, 20114 kg

GRASSHILL KNIGHT PRINCE -[CAN]S110825- VG-88

Night Prince's Maternal Sisters:

Cersten EX, 2295 kg (305d) 4.0f 3.0p; Life: 14380 kg

Caitlyn VG, 2215 kg (305d) 3.7f 3.3p; Life: 6395 kg

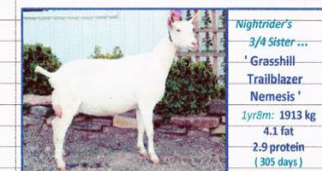
Princess VG, 1826 kg (305d) 3.9 3.1; Life: 11,185 kg

GRASSHILL TITAN SHANGRILAH -[CAN]S115702- EX

1800 kg (305d) 4.0f 3.3p; Total: 8480 kg (still milking)

GRASSHILL T NIGHTRIDER -[CAN]S110810- a 'Trailblazer' son

-Maternal Brother to 'Nadia' EX -20,114 kg, 44,344 lb



Nightrider's
3/4 Sister ...
'Grasshill
Trailblazer
Nemesis'
1yr8m: 1913 kg
4.1 fat
2.9 protein
(305 days)

<- GRASSHILL SWEET PEA -[CAN]S94203- EX

1847 kg 4.3f 3.3p (305 d); Life: 13,800 kg

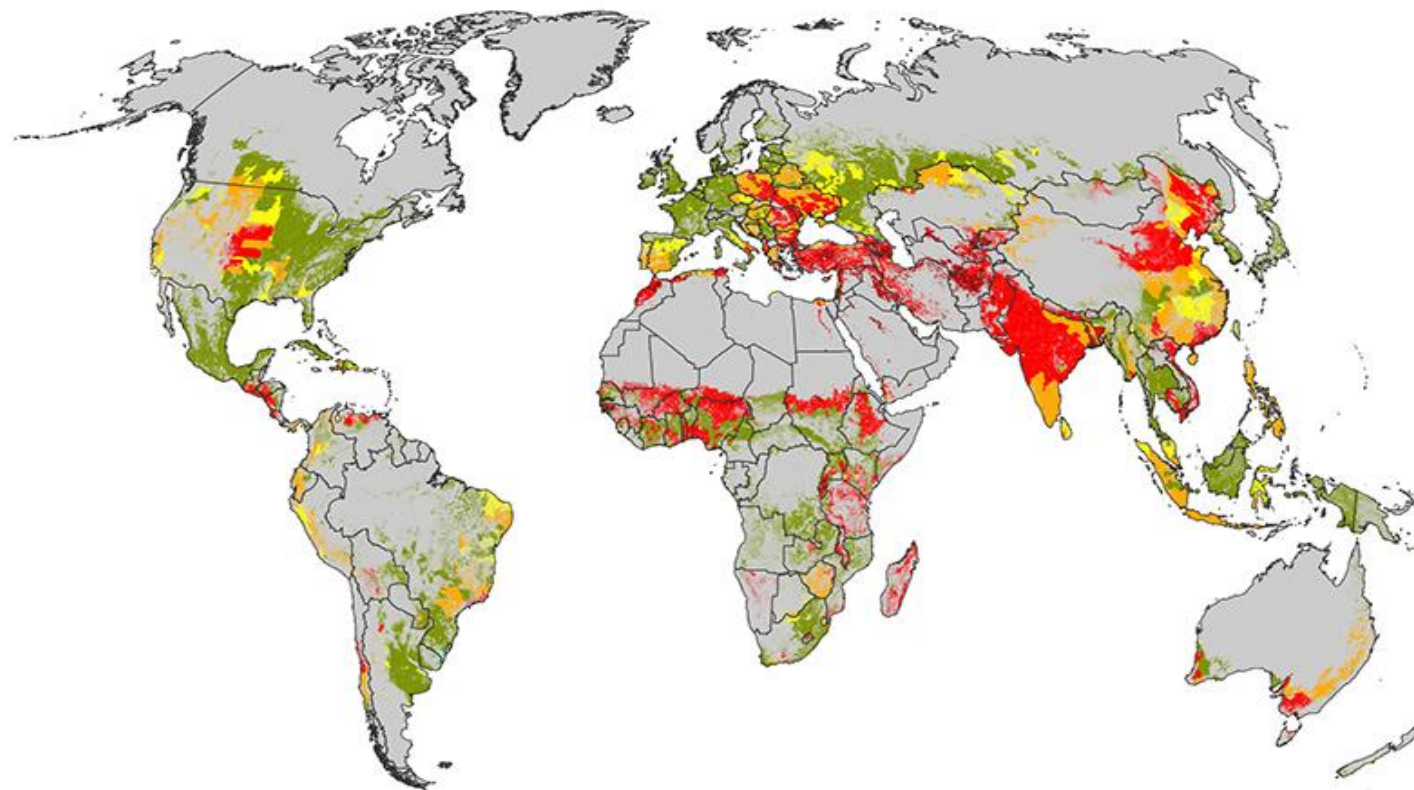
<- Sweet Pea's Full Sister: 'Shnooks', also EX

2158 kg 3.5f 2.9p (305 d); Life: 10,690 kg

Maternal Sisters: Gypsy VG-89 1803 kg Life: 9248 kg

'Tara', VG-89, 2430 kg 4.7f 3.8p; Life: 10,486 kg

Water stress will increase in many agricultural areas by 2025 due to growing water use and higher temperatures (based on IPCC scenario A1B)



Water Stress Condition



WORLD RESOURCES INSTITUTE

Sources: <http://ow.ly/rpfMN>

WORLD GOAT MILK PRODUCTION 2016

15,262,116 tonnes per year

