



A+++ Triple Plus
PIERRO/DANEHILL

MMLJAN19

Generated on 01/05/19

Hip 736 Colt	LONHRO	PIERRO (2009)	1	ZABEEL (Q)	3	SIR TRISTRAM
				OCTAGONAL		LADY GISELLE
				EIGHT CARAT		PIECES OF EIGHT II
				STRAIGHT STRIKE		KLAIRESSA
				SHADEA		MR. PROSPECTOR
				CONCIA		BEND NOT
				DOYOUN		FIRST CONSUL
				DAYLAMI		MY TRICIA
				DALTAWA		MILL REEF
				MISS RIGHT NOTE		DUMKA
				SADLER'S WELLS (C/S)		MISWAKI
				SKY SONG		DAMANA
				CRIQUETTE		NORTHERN DANCER
						FAIRY BRIDGE
						SHIRLEY HEIGHTS
						GHISLAINE
				NORTHERN DANCER (B/C)		NEARCTIC
				DANZIG (I/C)		NATALMA
				PAS DE NOM		ADMIRAL'S VOYAGE
				DANEHILL (Q)		PETITIONER
				HIS MAJESTY (C)		RIBOT
				RAZYANA		FLOWER BOWL
				3 SPRING ADIEU		BUCKPASSER
						NATALMA
				SIR TRISTRAM (Q)		SIR IVOR
				1 GROSVENOR (Q)		ISOLT
				MY TRICIA		HERMES (GB)
				KENSINGTON GARDENS		GAY POSS
				VICE REGAL (Q)		BISMARCK
				TILLY FOSTER		KIND REGARDS
				GENTLE THOUGHTS		ARDISTAN
						WATCH IT

Sibling Identifier: odd numbers = same dam only; even numbers = same sire and dam

Roman Dosage Profile: (1-2-6-1-0)

D.I.: 1.50 C.D.: 0.30

Werk Quality Rating: Q 6

Dosage Points: 10 + Quality Points: 18 = Total Points: 28

5-Generation Inbreeding:

NORTHERN DANCER - 5m x 4m
SIR TRISTRAM - 5m x 4m
MY TRICIA - 5f x 4m
NATALMA - x 5m, 5f



HYPOTHETICAL: =Pierro (AUS) -- =Larrocha (AUS)
Based on the cross of Pierro (AUS)/Danehill and his sons and grandsons

B+

Variant = 2.24

Hypothetical Foal	=Pierro (AUS), 09 b	Lonhro (AUS), 98 dk b/	=Octagonal (NZ), 92 br	=Zabeel (NZ), 86 b	*Sir Tristram, 71 b
				=Eight Carat (GB), 75 br	=Lady Giselle (FR), 82 b
			=Shadea (NZ), 88 br		*Pieces of Eight II, 63 dk b/
					Klairessa (GB), 69 dk b/
		=Miss Right Note (IRE), 03 gr	\$Daylami (IRE), 94 gr/ro	Straight Strike, 77 dk b/	Mr. Prospector, 70 b
				=Concia, 78 b	Bend Not, 72 b
			Sky Song (IRE), 97 b	=Doyoun (IRE), 85 b	First Consul, 70 dk b/
				=Daltawa (IRE), 89 gr	=My Tricia (NZ), 74 br
Hypothetical Foal	=Larrocha (AUS), 99 b	Danehill, 86 b	Danzig, 77 b		Mill Reef, 68 b
					=Dumka (FR), 71 b
			Razyana, 81 b	Sadler's Wells, 81 b	Miswaki, 78 ch
				=Criquette (GB), 90 b	Damana (FR), 81 gr
		=Kensington Gardens (NZ), 86 br	=Grosvenor (NZ), 79 b		Northern Dancer, 61 b
					Fairy Bridge, 75 b
			=Tilly Foster (NZ), 81 br		=Shirley Heights (GB), 75 b
					Ghislain, 81 ro
Hypothetical Foal	=Larrocha (AUS), 99 b	Danehill, 86 b	Danzig, 77 b	Northern Dancer, 61 b	Nearctic, 54 br
				Pas de Nom, 68 dk b/	Natalma, 57 b
			Razyana, 81 b	His Majesty, 68 b	Admiral's Voyage, 59 dk b/
				Spring Adieu, 74 b	*Petitioner, 52 b
		=Kensington Gardens (NZ), 86 br	=Grosvenor (NZ), 79 b		*Ribot, 52 b
					Flower Bowl, 52 b
			=Tilly Foster (NZ), 81 br	*Sir Tristram, 71 b	Buckpasser, 63 b
				=My Tricia (NZ), 74 br	Natalma, 57 b
Hypothetical Foal	=Larrocha (AUS), 99 b	Danehill, 86 b	Danzig, 77 b		Sir Ivor, 65 b
					Isolt, 61 b
			Razyana, 81 b		=Hermes (GB), 63 b
					=Gay Poss (NZ), 66 b
		=Kensington Gardens (NZ), 86 br	=Grosvenor (NZ), 79 b		=Bismark (GB), 67 b
					=Kind Regards (NZ), 66 br
			=Tilly Foster (NZ), 81 br	=Vice Regal (NZ), 73 b	=Ardistaan (GB), 65 b
				=Gentle Thoughts (NZ), 71 b	=Watch It (GB), 61 b

Pedigree Statistics

Coefficient of Relatedness: 2.64%	Pedigree Completeness: 100.00%
Inbreeding Coefficient: 2.24%	Unique Ancestors: 349/510

Dosage Information

Dosage Profile: 1 2 6 1 0	
Dosage Index: 1.50	Center of Distribution: +0.30

Notes on terminology in this report: **Coefficient of Relatedness** measures the degree of relatedness between sire and dam to six generations; **Inbreeding Coefficient** measures the mating's degree of inbreeding to eight generations; **Pedigree Completeness** is the portion of the pedigree that is on file to eight generations; **Unique Ancestors** is the number of unique names found to eight generations; **Dosage Information**: visit www.chef-de-race.com/dosage.htm **Direct Cross** refers to the exact sire over exact broodmare sire; **Rated Cross** is the cross used to base the TrueNicks rating and may differ from the direct cross to maintain statistical significance; **AEI**: Average Earnings Index; **AWD**: Average Winning Distance (in furlongs). All currency figures are converted to U.S. dollars at the time of race or sale.

Pedigree and racing information provided by:



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Page 1 of 2

**HYPOTHETICAL: =Pierro (AUS) -- =Larrocha (AUS)**

Based on the cross of Pierro (AUS)/Danehill and his sons and grandsons

B+

Variant = 2.24

Starters Considered in Rated Cross		Auction Results - All Foals on Direct Sire/Broodmare Sire Cross				Surface Performance for Rated Cross			
Direct Sire/ Broodmare Sire Cross	19	Type	#Sold	Avg	Med	Type	Dirt	Turf	AW
Additional Starters on Rated Cross	97	Weanlings	4	\$100,848	\$109,702	Starters	-	116	9
Total Starters	116	Yearlings	25	\$183,317	\$98,332	Winners	-	61	2
		2YOs	2	\$96,376	\$96,376	SW	-	8	-

Sire		Broodmare Sire	
Sire Name	=Pierro (AUS)	Broodmare Sire Name	Danehill
Sire AEI	1.98	Broodmare Sire AEI	1.57
Progeny AWD	7.20 f	Progeny AWD as BM Sire	7.78 f
Chief Earner	Pierata (AUS) (\$1,742,441)	Chief Earner	Highland Reel (IRE) (\$10,530,964)

All Foals Bred on Rated Cross				By Sire Line with Other Mares	Out of BM Sire Line with Other Sires
	All Foals	Colts	Fillies	All Foals	All Foals
Foals of Racing Age	215	108	107	183	33,193
Starters (% Foals of Racing Age)	116 (54%)	60 (56%)	56 (52%)	92 (50%)	19,403 (58%)
Winners (% Starters)	62 (53%)	34 (57%)	28 (50%)	50 (54%)	11,845 (61%)
SW (% Starters)	8 (7%)	5 (8%)	3 (5%)	5 (5%)	883 (5%)
Earnings	\$8,144,032	\$5,406,578	\$2,737,454	\$2,719,406	\$1,064,345,916
Avg Distance Raced	7.16 f	7.34 f	6.92 f	7.18 f	7.34 f
Avg Winning Distance	7.13 f	7.24 f	6.97 f	7.31 f	7.32 f

Top 15 Foals Bred on Rated Cross				
Name	Sex	Foaled	Sire/Broodmare Sire	Best Race
LEVENDI (AUS)	Horse	2014	Pierro (AUS)/Redoute's Choice (AUS)	G1SW
ARCADIA QUEEN (AUS)	Filly	2015	Pierro (AUS)/Redoute's Choice (AUS)	G1SW
PIERATA (AUS)	Horse	2014	Pierro (AUS)/Flying Spur (AUS)	G2SW
ACTION (AUS)	Gelding	2014	Pierro (AUS)/Redoute's Choice (AUS)	G2SW
TULIP (AUS)	Mare	2014	Pierro (AUS)/Rock of Gibraltar (IRE)	G3SW
ARCADIA PRINCE (AUS)	Gelding	2014	Pierro (AUS)/Redoute's Choice (AUS)	G3SW
KENTUCKY BREEZE (AUS)	Gelding	2014	Pierro (AUS)/Redoute's Choice (AUS)	SW
SATIN SLIPPER (AUS)	Filly	2015	Pierro (AUS)/Flying Spur (AUS)	SW
Furore (NZ)	Gelding	2014	Pierro (AUS)/Redoute's Choice (AUS)	G1SP
Sikorsky (AUS)	Colt	2015	Pierro (AUS)/Rock of Gibraltar (IRE)	G3SP
Poseidon's Pool (AUS)	Gelding	2014	Pierro (AUS)/Exceed And Excel (AUS)	G3SP
Rome (AUS)	Colt	2016	Pierro (AUS)/Exceed And Excel (AUS)	G3SP
Holbien (AUS)	Gelding	2014	Pierro (AUS)/Danehill Dancer (IRE)	SP
Femme Fireball (AUS)	Mare	2014	Pierro (AUS)/Fastnet Rock (AUS)	SP
Rainbow Girl (AUS)	Filly	2015	Pierro (AUS)/Fastnet Rock (AUS)	SP

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Page 2 of 2

Stakes winners bred from the PIERRO--DANEHILL cross

Stakes Winner	Yob	Sex	Best	Dirt	AWS	Turf	Pedigree
ACTION	2014	C	G2			Y	PIERRO ex BROADWAY BELLE (REDOUTE'S CHOICE)
ARCADIA PRINCE	2014	C	G3			Y	PIERRO ex ARCADIA (REDOUTE'S CHOICE)
ARCADIA QUEEN	2015	F	G1			Y	PIERRO ex ARCADIA (REDOUTE'S CHOICE)
FUORE	2014	C				Y	PIERRO ex STORMY CHOICE (REDOUTE'S CHOICE)
KENTUCKY BREEZE	2014	C				Y	PIERRO ex TAHNI GIRL (REDOUTE'S CHOICE)
LEVENDI	2014	C	G1			Y	PIERRO ex LIPARI (REDOUTE'S CHOICE)
PIERATA	2014	C	G2			Y	PIERRO ex NOVEMBER FLIGHT (FLYING SPUR)
REGAL POWER	2015	C				Y	PIERRO ex BROADWAY BELLE (REDOUTE'S CHOICE)
SATIN SLIPPER	2015	F				Y	PIERRO ex SATIN SHOES (FLYING SPUR)
TULIP	2014	F	G3			Y	PIERRO ex MUSIDORA (ROCK OF GIBRALTAR)

Stakes winners bred from the LONHRO--DANEHILL cross

Stakes Winner	Yob	Sex	Best	Dirt	AWS	Turf	Pedigree
ACTION	2014	C	G2			Y	PIERRO ex BROADWAY BELLE (REDOUTE'S CHOICE)
AGENT PIPPA	2015	F	G3			Y	DEMERIT ex FEMALE AGENT (COMMANDS)
AMERCEMENT	2016	F	G3			Y	LONHRO ex FORFEITURE (COMMANDS)
ARCADIA PRINCE	2014	C	G3			Y	PIERRO ex ARCADIA (REDOUTE'S CHOICE)
ARCADIA QUEEN	2015	F	G1			Y	PIERRO ex ARCADIA (REDOUTE'S CHOICE)
ARISTIA	2015	F	G1			Y	LONHRO ex NAKAAYA (TIGER HILL)
BENFICA	2008	C	G1			Y	LONHRO ex HUT (DANEHILL)
BLACK MINX	2005	F				Y	LONHRO ex FAITH HILL (DANEHILL)
BLACK VANQUISH	2012	C				Y	LONHRO ex PONTON FLYER (FLYING SPUR)
BOUNDING	2010	F	G1			Y	LONHRO ex BELIEVE'N'SUCCEED (EXCEED AND EXCEL)
CARDSHARP	2015	C	G2			Y	LONHRO ex PURE ILLUSION (DANEHILL)
COHESION	2013	C				Y	LONHRO ex COME HITHER (REDOUTE'S CHOICE)
DEER VALLEY	2006	F	G3			Y	LONHRO ex DANISLEW (DANEHILL)
EIGHT TILL LATE	2008	F	G3			Y	LONHRO ex FUTURE CHOICE (REDOUTE'S CHOICE)
ENCRYPTION	2015	C	G2			Y	LONHRO ex GUELPH (EXCEED AND EXCEL)
EXOSPHERE	2012	C	G1			Y	LONHRO ex ALTITUDE (DANZERO)
FURORE	2014	C				Y	PIERRO ex STORMY CHOICE (REDOUTE'S CHOICE)
GENERALIFE	2009	G				Y	LONHRO ex ALBAICIN (REDOUTE'S CHOICE)
HEATHERLY	2012	F	G2			Y	LONHRO ex DANCING HEATHER (DANZERO)
KEMENTARI	2014	C	G1			Y	LONHRO ex YAVANNA (REDOUTE'S CHOICE)
KENTUCKY BREEZE	2014	C				Y	PIERRO ex TAHNI GIRL (REDOUTE'S CHOICE)
LEVENDI	2014	C	G1			Y	PIERRO ex LIPARI (REDOUTE'S CHOICE)
MESSENE	2008	G	G2			Y	LONHRO ex BELLE GISELLE (REDOUTE'S CHOICE)
MINNESOTA SHARK	2005	C				Y	LONHRO ex PONTON FLYER (FLYING SPUR)
OBSEQUIOUS	2007	F	G2			Y	LONHRO ex SYCOPHANT (COMMANDS)
PEACOCK	2013	C				Y	LONHRO ex IRIDESCENTE (COMMANDS)
PIERATA	2014	C	G2			Y	PIERRO ex NOVEMBER FLIGHT (FLYING SPUR)
PIN SEC	2016	F	G3			Y	LONHRO ex MODERATE (COMMANDS)
PINCH RIVER	2011	G				Y	DENMAN ex AVENUE GIRL (CATBIRD)
PINWHEEL	2005	G	G2			Y	LONHRO ex QUILT (DANEHILL)
RAGGED RASCAL	2015	C				Y	DENMAN ex M'LADY PEDRILLE (AL MAHER)
RANIER	2015	C	G3			Y	LONHRO ex KANZAN (COMMANDS)
REGAL POWER	2015	C				Y	PIERRO ex BROADWAY BELLE (REDOUTE'S CHOICE)
SATIN SLIPPER	2015	F				Y	PIERRO ex SATIN SHOES (FLYING SPUR)
SOUCHEZ	2013	C	G2			Y	LONHRO ex VIMY (REDOUTE'S CHOICE)
TOWER OF LONHRO	2008	C				Y	LONHRO ex SPIRE (DANEHILL)
TULIP	2014	F	G3			Y	PIERRO ex MUSIDORA (ROCK OF GIBRALTAR)
WAIT FOR NO ONE	2014	C				Y	LONHRO ex DIVINE CHOICE (ROCK OF GIBRALTAR)
WAWAIL	2011	F	G2			Y	LONHRO ex EL DAANA (REDOUTE'S CHOICE)

Stakes winners bred from the OCTAGONAL--NORTHERN DANCER cross

Stakes Winner	Yob	Sex	Best	Dirt	AWS	Turf	Pedigree
ACADEMUS	2009	G	G2			Y	LONHRO ex YOUTHFUL PRESENCE (DEHERE)
ACTION	2014	C	G2			Y	PIERRO ex BROADWAY BELLE (REDOUTE'S CHOICE)
ADROITLY	2007	G				Y	OCTAGONAL ex EASY OUT (ANABAA)
AGENT PIPPA	2015	F	G3			Y	DEMERT ex FEMALE AGENT (COMMANDS)
AMERCEMENT	2016	F	G3			Y	LONHRO ex FORFEITURE (COMMANDS)
ARCADIA PRINCE	2014	C	G3			Y	PIERRO ex ARCADIA (REDOUTE'S CHOICE)
ARCADIA QUEEN	2015	F	G1			Y	PIERRO ex ARCADIA (REDOUTE'S CHOICE)
ARISTIA	2015	F	G1			Y	LONHRO ex NAKAAYA (TIGER HILL)
BEADED	2005	F	G1			Y	LONHRO ex SUBTLE (NIGHT SHIFT)
BEIRUT	2010	F	G3			Y	LONHRO ex LEICA LIGHT (HENNESSY)
BENFICA	2008	C	G1			Y	LONHRO ex HUT (DANEHILL)
BLACK MINX	2005	F				Y	LONHRO ex FAITH HILL (DANEHILL)
BLACK VANQUISH	2012	C				Y	LONHRO ex PONTON FLYER (FLYING SPUR)
BOUNDING	2010	F	G1			Y	LONHRO ex BELIEVE'N'SUCCEED (EXCEED AND EXCEL)
CALAVERITE	2012	F				Y	LONHRO ex GOLD ROCKS (ORATORIO (AUS))
CARDSHARP	2015	C	G2			Y	LONHRO ex PURE ILLUSION (DANEHILL)
COHESION	2013	C				Y	LONHRO ex COME HITHER (REDOUTE'S CHOICE)
CUSTARD	2006	F				Y	LONHRO ex SERENE LOOK (SEATTLE DANCER)
DEER VALLEY	2006	F	G3			Y	LONHRO ex DANISLEW (DANEHILL)
DEMERT	2006	C	G3			Y	LONHRO ex SHAME (SCENIC)
DENDEE	2011	F				Y	DENMAN ex DIVINE DEPUTY (FRENCH DEPUTY)
DIAMOND COVE	2002	F				Y	OCTAGONAL ex ELIZA COVE (DANEHILL)
DIAMOND DECK	2004	F	G3			Y	OCTAGONAL ex MISS TRUMP (LAST TYCOON)
DISSOLVED	2006	C				Y	LONHRO ex YARRALUMLA (GRAND LODGE)
DOSSIER	2000	F				Y	OCTAGONAL ex PAPERING (SHAADI)
DYSPHONIA	2006	F				Y	LONHRO ex STUTTER (NIGHT SHIFT)
EIGHT TILL LATE	2008	F	G3			Y	LONHRO ex FUTURE CHOICE (REDOUTE'S CHOICE)
ENCRYPTION	2015	C	G2			Y	LONHRO ex GUELPH (EXCEED AND EXCEL)
EPIDEMIC	2014	F				Y	LONHRO ex MNEMOSYNE (ENCOSTA DE LAGO)
EXOSPHERE	2012	C	G1			Y	LONHRO ex ALTITUDE (DANZERO)
FITOCRACY	2011	F	G3			Y	DENMAN ex REINE DE JEU (ANABAA)
FURORE	2014	C				Y	PIERRO ex STORMY CHOICE (REDOUTE'S CHOICE)
GENERALIFE	2009	G				Y	LONHRO ex ALBAICIN (REDOUTE'S CHOICE)
HAPPIER	2001	F				Y	OCTAGONAL ex WHISTLES (ROYAL ACADEMY)
HEATHERLY	2012	F	G2			Y	LONHRO ex DANCING HEATHER (DANZERO)
I LIKE IT EASY	2015	F				Y	PIERRO ex GAI'S CHOICE (GENERAL NEDIYM)
IMPENDING	2013	C	G1			Y	LONHRO ex MNEMOSYNE (ENCOSTA DE LAGO)
JEREZANA	2006	F				Y	LONHRO ex SADDLER'S SILK (BARATHEA)
KEMENTARI	2014	C	G1			Y	LONHRO ex YAVANNA (REDOUTE'S CHOICE)
KENTUCKY BREEZE	2014	C				Y	PIERRO ex TAHNI GIRL (REDOUTE'S CHOICE)
LAUNAY	2006	G				Y	LONHRO ex EVE IN SEYCHELLES (PALACE MUSIC)
LAVEROCK	2002	C	G1			Y	OCTAGONAL ex SKY SONG (SADLER'S WELLS)
LAW	2011	C				Y	DENMAN ex LADY CAT (SIR CAT)
LEVENDI	2014	C	G1			Y	PIERRO ex LIPARI (REDOUTE'S CHOICE)

Stakes winners bred from the OCTAGONAL--NORTHERN DANCER cross

Stakes Winner	Yob	Sex	Best	Dirt	AWS	Turf	Pedigree
LONDON	2004	G				Y	OCTAGONAL ex HARVEYNICKS (LAKE CONISTON)
LONHSPRESSO	2009	F	G2			Y	LONHRO ex AS SIMPLE AS THAT (GRAND LODGE)
MENTAL	2008	G	G1		Y	Y	LONHRO ex INTRIGUES (NIGHT SHIFT)
MESSENE	2008	G	G2			Y	LONHRO ex BELLE GISELLE (REDOUTE'S CHOICE)
MINNESOTA SHARK	2005	C				Y	LONHRO ex PONTON FLYER (FLYING SPUR)
NAUTICAL	2009	F	G3			Y	NIELLO ex MAGDA (ANABAA)
OBSEQUIOUS	2007	F	G2			Y	LONHRO ex SYCOPHANT (COMMANDS)
PARABLES	2007	F	G2			Y	LONHRO ex FAIRYTALES (NIGHT SHIFT)
PEACOCK	2013	C				Y	LONHRO ex IRIDESCENTE (COMMANDS)
PIERATA	2014	C	G2			Y	PIERRO ex NOVEMBER FLIGHT (FLYING SPUR)
PIN SEC	2016	F	G3			Y	LONHRO ex MODERATE (COMMANDS)
PINCH RIVER	2011	G				Y	DENMAN ex AVENUE GIRL (CATBIRD)
PINWHEEL	2005	G	G2			Y	LONHRO ex QUILT (DANEHILL)
QUIDNUNC	2007	F				Y	LONHRO ex DORKY (GRAND LODGE)
RAGGED RASCAL	2015	C				Y	DENMAN ex M'LADY PEDRILLE (AL MAHER)
RANIER	2015	C	G3			Y	LONHRO ex KANZAN (COMMANDS)
RASPBERRIES	2007	F	G3			Y	LONHRO ex LA MELBA (GRAND LODGE)
REGAL POWER	2015	C				Y	PIERRO ex BROADWAY BELLE (REDOUTE'S CHOICE)
SAINTHOOD	2005	G				Y	LONHRO ex BONNE FAMILLE (ANABAA)
SATIN SLIPPER	2015	F				Y	PIERRO ex SATIN SHOES (FLYING SPUR)
SECESSION	2007	C				Y	LONHRO ex WALNUT (PROCOL HARUM)
SHAKHIMAT	2013	C	G3		Y	Y	LONHRO ex REGGAE ROSE (TOUCH GOLD)
SHIGERU SENDAN	2011	F				Y	DENMAN ex FLUTE OF BUBBLY (ENCOSTA DE LAGO)
SKY LOVE	99	F	G3			Y	OCTAGONAL ex SUGGESTIVE (AL HAREB)
SORPRESA	99	F				Y	OCTAGONAL ex SANTIKI (BE MY GUEST)
SOUCHEZ	2013	C	G2			Y	LONHRO ex VIMY (REDOUTE'S CHOICE)
SUNTAGONAL	99	C	G1			Y	OCTAGONAL ex URGE TO MERGE (LAST TYCOON)
SWEYNESSE	2011	C	G3			Y	LONHRO ex SWANSEA (SINGSPIEL)
TOWER OF LONHRO	2008	C				Y	LONHRO ex SPIRE (DANEHILL)
TRIED AND TIRED	2009	C				Y	NIELLO ex YAWN (REDOUTE'S CHOICE)
TRIM	2006	F	G3			Y	LONHRO ex FIRM (NIGHT SHIFT)
TULIP	2014	F	G3			Y	PIERRO ex MUSIDORA (ROCK OF GIBRALTAR)
WAIT FOR NO ONE	2014	C				Y	LONHRO ex DIVINE CHOICE (ROCK OF GIBRALTAR)
WAR HEROINE	2015	F	G2			Y	LONHRO ex WAR TIGRESS (WAR CHANT)
WARM LOVE	2007	F				Y	OCTAGONAL ex CHARANGAS (FLYING SPUR)
WAWAIL	2011	F	G2			Y	LONHRO ex EL DAANA (REDOUTE'S CHOICE)

Stakes winners bred from the OCTAGONAL--NORTHERN DANCER cross

Stakes Winner	Yob	Sex	Best	Dirt	AWS	Turf	Pedigree
ACADEMUS	2009	G	G2			Y	LONHRO ex YOUTHFUL PRESENCE (DEHERE)
ACTION	2014	C	G2			Y	PIERRO ex BROADWAY BELLE (REDOUTE'S CHOICE)
ADROITLY	2007	G				Y	OCTAGONAL ex EASY OUT (ANABAA)
AGENT PIPPA	2015	F	G3			Y	DEMERT ex FEMALE AGENT (COMMANDS)
AMERCEMENT	2016	F	G3			Y	LONHRO ex FORFEITURE (COMMANDS)
ARCADIA PRINCE	2014	C	G3			Y	PIERRO ex ARCADIA (REDOUTE'S CHOICE)
ARCADIA QUEEN	2015	F	G1			Y	PIERRO ex ARCADIA (REDOUTE'S CHOICE)
ARISTIA	2015	F	G1			Y	LONHRO ex NAKAAYA (TIGER HILL)
BEADED	2005	F	G1			Y	LONHRO ex SUBTLE (NIGHT SHIFT)
BEIRUT	2010	F	G3			Y	LONHRO ex LEICA LIGHT (HENNESSY)
BENFICA	2008	C	G1			Y	LONHRO ex HUT (DANEHILL)
BLACK MINX	2005	F				Y	LONHRO ex FAITH HILL (DANEHILL)
BLACK VANQUISH	2012	C				Y	LONHRO ex PONTON FLYER (FLYING SPUR)
BOUNDING	2010	F	G1			Y	LONHRO ex BELIEVE'N'SUCCEED (EXCEED AND EXCEL)
CALAVERITE	2012	F				Y	LONHRO ex GOLD ROCKS (ORATORIO (AUS))
CARDSHARP	2015	C	G2			Y	LONHRO ex PURE ILLUSION (DANEHILL)
COHESION	2013	C				Y	LONHRO ex COME HITHER (REDOUTE'S CHOICE)
CUSTARD	2006	F				Y	LONHRO ex SERENE LOOK (SEATTLE DANCER)
DEER VALLEY	2006	F	G3			Y	LONHRO ex DANISLEW (DANEHILL)
DEMERT	2006	C	G3			Y	LONHRO ex SHAME (SCENIC)
DENDEE	2011	F				Y	DENMAN ex DIVINE DEPUTY (FRENCH DEPUTY)
DIAMOND COVE	2002	F				Y	OCTAGONAL ex ELIZA COVE (DANEHILL)
DIAMOND DECK	2004	F	G3			Y	OCTAGONAL ex MISS TRUMP (LAST TYCOON)
DISSOLVED	2006	C				Y	LONHRO ex YARRALUMLA (GRAND LODGE)
DOSSIER	2000	F				Y	OCTAGONAL ex PAPERING (SHAADI)
DYSPHONIA	2006	F				Y	LONHRO ex STUTTER (NIGHT SHIFT)
EIGHT TILL LATE	2008	F	G3			Y	LONHRO ex FUTURE CHOICE (REDOUTE'S CHOICE)
ENCRYPTION	2015	C	G2			Y	LONHRO ex GUELPH (EXCEED AND EXCEL)
EPIDEMIC	2014	F				Y	LONHRO ex MNEMOSYNE (ENCOSTA DE LAGO)
EXOSPHERE	2012	C	G1			Y	LONHRO ex ALTITUDE (DANZERO)
FITOCRACY	2011	F	G3			Y	DENMAN ex REINE DE JEU (ANABAA)
FURORE	2014	C				Y	PIERRO ex STORMY CHOICE (REDOUTE'S CHOICE)
GENERALIFE	2009	G				Y	LONHRO ex ALBAICIN (REDOUTE'S CHOICE)
HAPPIER	2001	F				Y	OCTAGONAL ex WHISTLES (ROYAL ACADEMY)
HEATHERLY	2012	F	G2			Y	LONHRO ex DANCING HEATHER (DANZERO)
I LIKE IT EASY	2015	F				Y	PIERRO ex GAI'S CHOICE (GENERAL NEDIYM)
IMPENDING	2013	C	G1			Y	LONHRO ex MNEMOSYNE (ENCOSTA DE LAGO)
JEREZANA	2006	F				Y	LONHRO ex SADDLER'S SILK (BARATHEA)
KEMENTARI	2014	C	G1			Y	LONHRO ex YAVANNA (REDOUTE'S CHOICE)
KENTUCKY BREEZE	2014	C				Y	PIERRO ex TAHNI GIRL (REDOUTE'S CHOICE)
LAUNAY	2006	G				Y	LONHRO ex EVE IN SEYCHELLES (PALACE MUSIC)
LAVEROCK	2002	C	G1			Y	OCTAGONAL ex SKY SONG (SADLER'S WELLS)
LAW	2011	C				Y	DENMAN ex LADY CAT (SIR CAT)
LEVENDI	2014	C	G1			Y	PIERRO ex LIPARI (REDOUTE'S CHOICE)

Stakes winners bred from the OCTAGONAL--NORTHERN DANCER cross

Stakes Winner	Yob	Sex	Best	Dirt	AWS	Turf	Pedigree
LONDON	2004	G				Y	OCTAGONAL ex HARVEYNICKS (LAKE CONISTON)
LONHSPRESSO	2009	F	G2			Y	LONHRO ex AS SIMPLE AS THAT (GRAND LODGE)
MENTAL	2008	G	G1		Y	Y	LONHRO ex INTRIGUES (NIGHT SHIFT)
MESSENE	2008	G	G2			Y	LONHRO ex BELLE GISELLE (REDOUTE'S CHOICE)
MINNESOTA SHARK	2005	C				Y	LONHRO ex PONTON FLYER (FLYING SPUR)
NAUTICAL	2009	F	G3			Y	NIELLO ex MAGDA (ANABAA)
OBSEQUIOUS	2007	F	G2			Y	LONHRO ex SYCOPHANT (COMMANDS)
PARABLES	2007	F	G2			Y	LONHRO ex FAIRYTALES (NIGHT SHIFT)
PEACOCK	2013	C				Y	LONHRO ex IRIDESCENTE (COMMANDS)
PIERATA	2014	C	G2			Y	PIERRO ex NOVEMBER FLIGHT (FLYING SPUR)
PIN SEC	2016	F	G3			Y	LONHRO ex MODERATE (COMMANDS)
PINCH RIVER	2011	G				Y	DENMAN ex AVENUE GIRL (CATBIRD)
PINWHEEL	2005	G	G2			Y	LONHRO ex QUILT (DANEHILL)
QUIDNUNC	2007	F				Y	LONHRO ex DORKY (GRAND LODGE)
RAGGED RASCAL	2015	C				Y	DENMAN ex M'LADY PEDRILLE (AL MAHER)
RANIER	2015	C	G3			Y	LONHRO ex KANZAN (COMMANDS)
RASPBERRIES	2007	F	G3			Y	LONHRO ex LA MELBA (GRAND LODGE)
REGAL POWER	2015	C				Y	PIERRO ex BROADWAY BELLE (REDOUTE'S CHOICE)
SAINTHOOD	2005	G				Y	LONHRO ex BONNE FAMILLE (ANABAA)
SATIN SLIPPER	2015	F				Y	PIERRO ex SATIN SHOES (FLYING SPUR)
SECESSION	2007	C				Y	LONHRO ex WALNUT (PROCOL HARUM)
SHAKHIMAT	2013	C	G3		Y	Y	LONHRO ex REGGAE ROSE (TOUCH GOLD)
SHIGERU SENDAN	2011	F				Y	DENMAN ex FLUTE OF BUBBLY (ENCOSTA DE LAGO)
SKY LOVE	99	F	G3			Y	OCTAGONAL ex SUGGESTIVE (AL HAREB)
SORPRESA	99	F				Y	OCTAGONAL ex SANTIKI (BE MY GUEST)
SOUCHEZ	2013	C	G2			Y	LONHRO ex VIMY (REDOUTE'S CHOICE)
SUNTAGONAL	99	C	G1			Y	OCTAGONAL ex URGE TO MERGE (LAST TYCOON)
SWEYNESSE	2011	C	G3			Y	LONHRO ex SWANSEA (SINGSPIEL)
TOWER OF LONHRO	2008	C				Y	LONHRO ex SPIRE (DANEHILL)
TRIED AND TIRED	2009	C				Y	NIELLO ex YAWN (REDOUTE'S CHOICE)
TRIM	2006	F	G3			Y	LONHRO ex FIRM (NIGHT SHIFT)
TULIP	2014	F	G3			Y	PIERRO ex MUSIDORA (ROCK OF GIBRALTAR)
WAIT FOR NO ONE	2014	C				Y	LONHRO ex DIVINE CHOICE (ROCK OF GIBRALTAR)
WAR HEROINE	2015	F	G2			Y	LONHRO ex WAR TIGRESS (WAR CHANT)
WARM LOVE	2007	F				Y	OCTAGONAL ex CHARANGAS (FLYING SPUR)
WAWAIL	2011	F	G2			Y	LONHRO ex EL DAANA (REDOUTE'S CHOICE)

PEDIGREE RATING SCORES - “NICKS”

It's a simple formula – It's all about risk reduction.

Nicks have become an integral part of the decision-making process in the mating and purchasing of thoroughbreds. Most breeders recognise that an affinity or compatibility can exist between two thoroughbred sire lines, such that, when crossed, those lines yielded a greater proportion of superior runners than when either one of them are crossed with any other sire lines. Great breeders, from Federico Tesio to present-day breeders around the world have relied on observed nicks to help guide their breeding plans and buying decisions.

Over 70% of ALL Stakes Winners are “A” Rated Nicks

In order to identify nicks in a systematic way, the software database we use developed an evaluation method based on sire-line analysis. Ongoing studies by researchers show that approximately 25% of the Thoroughbred population is the product of highly successful nicks ("A" rated nicks) while over 70% of stakes winners come from these "A" rated nicks!

Statistics:

There are approximately 20,000 live foals born each year –
25% (5,000) are A Rated whilst 75% (15,000) are rated below.

There are 541 Stakes Races in Australia this racing season.

70% (379) will be won from the 5,000 A rated foals born (7.6%)

30% (162) will be won from the 15,000 foals in the lower rated group (1.08%).

For a practical businessperson seeking a return on money invested, it makes no sense to ignore statistically unfavorable odds. Buying a superior racehorse is already a difficult enough proposition. The Rating systems we use allow us to see into the future by looking into the past and thereby to avoid those mating patterns that have failed. The Nick Rating enables us to avoid crosses that have had little or no success in the past. At the same time, it enables us to identify and thus duplicate successful sire-line crosses, dramatically increasing the chances of success.

Over the years evaluating Nicks have proven to be an invaluable tool in the stallion selection process when identifying yearlings for purchase. Dean Watt, Managing Director of Dynamic Syndications has enjoyed great success as a result of utilising such information. For example:

SAVABEEL, POLAR SUCCESS, HE'S NO PIE EATER, ATOMIC FORCE, ECONSUL, DE BEERS, BRADBURY'S LUCK, TENANT'S TIARA and REWARD FOR EFFORT were all superior racehorses who had superior pedigree ratings.

ECONSUL	A+ +	13,862%
SAVABEEL	A+ +	9,325%
DEBEERS	A+ +	4,270%
POLAR SUCCESS	A+ +	2,240%
REWARD FOR EFFORT	A+	1,175%
ATOMIC FORCE	A+	988%
BRADBURY'S LUCK	A	485%
TENANT'S TIARA	A	238%
HE'S NO PIE EATER	A	161%

Further afield, in 2008 the Top 5 Racehorses in the world had the following ratings:

1 CURLIN	A+	1,375%
2 NEW APPROACH	A+	1,472%
3 RAVEN'S PASS	A+ +	5,961%
4 DUKE OF MARMALADE	A	409%
5 HENRYTHE NAVIGATOR	A+ +	1,531%

Then to further support the theories, in 2008 there was 67 Group 1 races run in Australia. These races were won by 48 individual horses. When these 48 individuals' pedigrees were analysed it showed:

35 / 48 Rated A or above = 73% of Individual Group 1 Winners Rates A or above

Affinity between sire lines was long ago observed by the world's best thoroughbred breeders. Today through modern technologies we are able to quantify what was once only a subjective judgment based on the observations of a relatively small equine population.

Ratings are essentially the objective measurement of success, or lack therefore, of sire-line crosses. Success is quantified by being the winners of stakes races with a prizemoney of at least \$50,000. Through software databases, containing the pedigrees of all such winners since 1977 (over 30,000 winners), we are able to more easily identify what sire-line crosses have succeeded in producing stakes winners and compare those numbers with the stakes winning population on the whole.

Often a sire line may appear to be successful with a particular broodmare sire line. However, if the level of success is no better than that sire line's success with the entire population, then there is not a true nick.

In order to understand the ratings for easy use, a letter-grade scale was developed. As in the scholastic setting, the scales ranges from F (Fail) through to A with A+ also A++ and now since 2011 the software system now identifies A+++ as possible to be achieved in some select instances. The Variants (percentages) shown in the table below are the deviation from the norm that has been observed by that sire line cross in question. On this

scale -15% to +15% (C) is considered average, meaning that the sire-line cross has yielded results that are statistically no better and no worse than what would be expected with the entire population.

An "A" rated nick indicates that a far greater percentage of stakes winners have resulted from that cross than expected. An "F" rated nick indicates that the number of stakes winners resulting from a cross is at least 50% below expectations. This does not mean that there cannot be success or will not be success from such a mating in the future. It does mean that in all the experience of the last 20 + years of winners of stakes races, that type of mating has had a significant lack of success as measured by stakes winner production.

It must be stressed that a below "Average" rating does not guarantee or even predict failure. It means only that, to date, the particular sire-line cross has fallen at least 16% short of what would be expected. Nicks can and do change over time.

Consequently, an above Average Rating must be kept in proper perspective as there are other factors that must be considered when selecting a horse for purchase. Specifically, conformation evaluation is critical. A thoroughbred may have a brilliant pedigree on paper that rates as either Excellent, Superior, Superb or Outstanding on our Ratings Score however if the skeletal structure and/or the overall constitution of the individual is lacking then the horse is rejected as a candidate for purchase.

The Rating Scale is shown below:

Nick	Horse	Variant %
A+++	Excellent	+20,000 and above
A++	Superior	+1,501 to + 19,999
A+	Superb	+500 to +1,500
A	Outstanding	+150 to +499
B+	Very Good	+100 to +149
B	Good	+50 to +99
C+	Acceptable	+16 to +49
C	Average	-15 to +15
D+	Weak	-16 to -34
D	Poor	-35 to -49
F	Unsuccessful	-50
0 SW	Zero Stakes Winners	0 SW

Dynamic Syndications uses these rating tools along with additional pedigree analysis systems from other software databases which skewer the data to local environmental factors and we have introduced a ranking on the class of Stakes Races which are won to establish what we consider is an inherent opportunity of greater racetrack success. Often a horse can have a very high Nick rating and yet score lowly on the variant and visa versa. We use this information to assist us in pedigree selections after the physical inspections have also been considered. Also we cannot blindly accept a rating score. For example Australia has only 2.9% of our races listed as Stakes Races whilst New Zealand has 9.7% and Ireland has 13.1%. Obviously the data will be weighted in certain directions if we did not counter this information with a ranking on the Stakes Races based upon country and class of race, racing region within the country and climatic conditions in the region. After adjustments the rating scale is presented below.

Quality Rating Summary

It is undeniable that racing class is in great part a function of the *quality* of ancestors contributing to new individual. It follows that certain quality stallions tend to contribute more favorably than other sires. When Quality points contributed by such deserving sires are combined with dosage points, the total points more accurately reflect the overall class of a pedigree.

The *Quality sires* in a pedigree contribute quality points (QP) to the new individual in exactly the same way as ancestral sires contribute dosage points (DP). The total number of *Quality points* is added to the *Dosage points* to get *Total Points* (TP).

The Quality Rating, which ranges from zero, as the low, to ten, as the high, is scaled to the number of total points in the pedigree:

Total Points	Quality Rating
0	Q0
1 to 4	Q1
5 to 9	Q2
10 to 14	Q3
15 to 19	Q4
20 to 24	Q5
25 to 29	Q6
30 to 39	Q7
40 to 44	Q8
45 to 54	Q9
55 +	Q10